Package: AutoPlots (via r-universe)

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Title Creating Echarts Visualizations as Easy as Possible

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Description Create beautiful and interactive visualizations in a single function call. The 'data.table' package is utilized to perform the data wrangling necessary to prepare your data for the plot types you wish to build, along with allowing fast processing for big data. There are two broad classes of plots available: standard plots and machine learning evaluation plots. There are lots of parameters available in each plot type function for customizing the plots (such as faceting) and data wrangling (such as variable transformations and aggregation).

License AGPL (>= 3)

URL https://github.com/AdrianAntico/AutoPlots

BugReports https://github.com/AdrianAntico/AutoPlots/issues

Depends R (>= 4.1.0)

Imports combinat, data.table, dplyr, e1071, echarts4r, grDevices, lubridate, nortest, quanteda, quanteda.textstats, scales, stats, htmltools, htmlwidgets, webshot2, digest

Suggests testthat (>= 3.0.0), CommunicationIntelligence

Config/testthat/edition 3

Contact Adrian Antico

Encoding UTF-8

Language en-US

LazyData true

NeedsCompilation no

RoxygenNote 7.3.3

Config/pak/sysreqs chromium cmake make libicu-dev libuv1-dev libxml2-dev libssl-dev zlib1g-dev

Repository https://adrianantico.r-universe.dev

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ACF *ACF*

Description

Build an autocorrelation plot by simply passing arguments to a single function

Usage

```
ACF(
  dt = NULL,
  YVar = NULL,
  DateVar = NULL,
  TimeUnit = NULL,
  MaxLags = 50,
  YVarTrans = "Identity",
  AggMethod = "sum",
  Height = NULL,
  Width = NULL,
  Theme = "dark",
  title.text = "Autocorrelation Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
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  title.borderColor = NULL,
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  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
```

```
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
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  title.subtextStyle.fontSize = NULL,
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  title.subtextStyle.width = NULL,
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  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
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  title.subtextStyle.textShadowOffsetY = NULL,
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  xAxis.max = NULL,
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  xAxis.nameLocation = "center",
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  xAxis.nameTextStyle.fontStyle = NULL,
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  xAxis.nameTextStyle.fontSize = NULL,
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  xAxis.nameTextStyle.textShadowOffsetY = NULL,
  xAxis.splitNumber = NULL,
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  xAxis.axisLabel.margin = NULL,
  xAxis.axisLabel.color = NULL,
  xAxis.axisLabel.fontStyle = NULL,
  xAxis.axisLabel.fontWeight = NULL,
```

```
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yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
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legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
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legend.height = NULL,
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legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
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legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
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legend.itemStyle.shadowColor = NULL,
```

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    legend.pageTextStyle.textBorderType = NULL,
```

```
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legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
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legend.emphasis.selectorLabel.height = NULL,
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legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
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tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
```

```
  tooltip.textStyle.fontStyle = NULL,
  tooltip.textStyle.fontWeight = NULL,
  tooltip.textStyle.fontFamily = "Segoe UI",
  tooltip.textStyle.lineHeight = NULL,
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  tooltip.textStyle.textBorderColor = NULL,
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  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
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  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
YVar	Y-Axis variable name
DateVar	Date column in data
TimeUnit	Select from "hour", "day", "week", "month", "quarter", "year"
MaxLags	Max lag values to test
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric
title.textStyle.color	hex or name
title.textStyle.fontStyle	'normal' 'italic' 'oblique'
title.textStyle.fontWeight	'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

xAxis.nameTextStyle.textShadowOffsetY
: numeric

xAxis.splitNumber
: numeric. Increments for numeric axis labels

xAxis.axisLabel.rotate
: numeric

xAxis.axisLabel.margin
: numeric

xAxis.axisLabel.color
: hex or named

xAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

xAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

`yAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`yAxis.axisLabel.textShadowColor`
: hex or named

`yAxis.axisLabel.textShadowBlur`
: numeric

`yAxis.axisLabel.textShadowOffsetX`
: numeric

`yAxis.axisLabel.textShadowOffsetY`
: numeric

`yAxis.axisLabel.overflow`
: 'truncate'

`legend.show`
: logical

`legend.type`
: 'scroll' 'plain'

`legend.selector`
: logical

`legend.icon`
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`legend.align`
: 'auto' 'left' 'right'

`legend.padding`
: numeric

`legend.itemGap`
: numeric

`legend.itemWidth`
: numeric

`legend.orient`
: 'vertical' 'horizontal'

`legend.width`
: numeric

`legend.height`
: numeric

`legend.left`
: numeric

`legend.right`
: numeric

`legend.top`
: numeric

`legend.bottom`
: numeric

`legend.backgroundColor`
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

`legend.emphasis.selectorLabel.borderWidth`
: numeric

`legend.emphasis.selectorLabel.borderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
: numeric

`legend.emphasis.selectorLabel.padding`
: numeric

`legend.emphasis.selectorLabel.shadowColor`
: hex or color name

`legend.emphasis.selectorLabel.shadowBlur`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.width`
: numeric

`legend.emphasis.selectorLabel.height`
: numeric

`legend.emphasis.selectorLabel.textBorderColor`
: hex or color name

`legend.emphasis.selectorLabel.textBorderWidth`
: numeric

`legend.emphasis.selectorLabel.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.textShadowColor`
: hex or color name

`legend.emphasis.selectorLabel.textShadowBlur`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show`
: logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
Default 15

`toolbox.itemGap`
Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

---

ap_bind_pattern_request

Ask CommunicationIntelligence for a plot request

Description

Build a pattern-inspection realization request through CommunicationIntelligence's public API. CommunicationIntelligence's text helpers do not call this function.

Usage

```
ap_bind_pattern_request(inputs, task_id = "autoplots-pattern")
```

Arguments

inputs	An admitted CommunicationIntelligence input set. This function does not invent owner values.
task_id	Task id used for the host request.

Value

A list. `status = "REQUEST_READY"` means `request` and `task` can be passed to ap_realize_request. That status is not a drawing status. `release_authorized` is `FALSE`.

Examples

```
## Not run:
bound <- ap_bind_pattern_request(inputs, "figure-1")
figure <- ap_realize_request(bound$request, bound$task)

## End(Not run)
```

`ap_realize_request` *Draw an authenticated realization request*

Description

Verify a realization request by replaying CommunicationIntelligence, then draw the admitted numbers. The PNG subtitle shows the unit, the source revision, and that the figure is not an approval. AutoPlots does not estimate, refit, approve, or authorize publication.

Usage

```
ap_realize_request(request, task, file = NULL, encoding = NULL,
  width = 800L, height = 500L, res = 96L)
```

Arguments

`request`	A CommunicationIntelligence `RealizationRequest`. A hash on a modified record is not accepted.
`task`	The `TaskBinding` named by the request.
`file`	PNG path. The default is a temporary file.
`encoding`	Optional rendering instruction. `NULL` is an identity column from zero, one panel per quantity. Fields that change the estimand are refused, except an authorized log10 point.
`width, height`	Device pixels, from 200 to 1200.
`res`	One of 72, 96, 120, or 144.

Details

The supported geoms are `column`, `point`, and `interval`. Interval ids are `<stem>_lower`, `<stem>_upper`, and an optional `<stem>` point. Without the point, the title is the admitted endpoint range, not either endpoint alone. Quantities that are not part of the interval are refused, as are endpoints that do not share a unit. A requested interval kind must already occur in the admitted uncertainty wording.

A log10 point requires a receipt with `status = "MET"` and `subject_binding` equal to the CommunicationIntelligence binding of `list(scale = "log10", quantity_ids = <ids in plot order>, values = <admitted numbers in plot order>)`. Without that receipt the status is `UNRESOLVED_AUTHORITY`. The title keeps the admitted number. The axis label and subtitle say that the scale is log10.

Value

A list. `status` is `RENDERED`, `REFUSED`, or `UNRESOLVED_AUTHORITY`. `release_authorized` is always `FALSE`. A rendered file does not authorize publication. `geometry` is a `data.table` of admitted values, axis limits, and device coordinates for this PNG. Those coordinates are not a cross-machine pixel certificate.

Examples

```
refused <- ap_realize_request(NULL, NULL)
stopifnot(identical(refused$status, "REFUSED"))
stopifnot(isFALSE(refused$release_authorized))
```

`Area` *Area*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Area(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  DualYVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  DualYVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Smooth = TRUE,
  ShowSymbol = FALSE,
  areaStyle.color = NULL,
  areaStyle.opacity = NULL,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  title.text = "Area Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = 12,
  title.right = NULL,
```

```
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  xAxis.title = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
  xAxis.position = "bottom",
```

```
xAxis.nameLocation = "center",
xAxis.axisTick.customValues = NULL,
xAxis.nameTextStyle.color = NULL,
xAxis.nameTextStyle.padding = 25,
xAxis.nameTextStyle.align = NULL,
xAxis.nameTextStyle.fontStyle = NULL,
xAxis.nameTextStyle.fontWeight = "bolder",
xAxis.nameTextStyle.fontSize = NULL,
xAxis.nameTextStyle.fontFamily = "Segoe UI",
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
```

```
yAxis.nameTextStyle.padding = NULL,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
```

```
  legend.height = NULL,
  legend.left = NULL,
  legend.right = 10,
  legend.top = 30,
  legend.bottom = NULL,
  legend.backgroundColor = NULL,
  legend.borderColor = NULL,
  legend.borderWidth = NULL,
  legend.borderRadius = NULL,
  legend.shadowBlur = NULL,
  legend.shadowColor = NULL,
  legend.shadowOffsetX = NULL,
  legend.shadowOffsetY = NULL,
  legend.itemStyle.color = NULL,
  legend.itemStyle.borderColor = NULL,
  legend.itemStyle.borderWidth = NULL,
  legend.itemStyle.borderType = NULL,
  legend.itemStyle.shadowBlur = NULL,
  legend.itemStyle.shadowColor = NULL,
  legend.itemStyle.shadowOffsetX = NULL,
  legend.itemStyle.shadowOffsetY = NULL,
  legend.itemStyle.opacity = NULL,
  legend.lineStyle.color = NULL,
  legend.lineStyle.width = NULL,
  legend.lineStyle.type = NULL,
  legend.lineStyle.shadowBlur = NULL,
  legend.lineStyle.shadowColor = NULL,
  legend.lineStyle.shadowOffsetX = NULL,
  legend.lineStyle.shadowOffsetY = NULL,
  legend.lineStyle.opacity = NULL,
  legend.lineStyle.inactiveColor = NULL,
  legend.lineStyle.inactiveWidth = NULL,
  legend.textStyle.color = NULL,
  legend.textStyle.fontStyle = NULL,
  legend.textStyle.fontWeight = NULL,
  legend.textStyle.fontFamily = "Segoe UI",
  legend.textStyle.fontSize = NULL,
  legend.textStyle.backgroundColor = NULL,
  legend.textStyle.borderColor = NULL,
  legend.textStyle.borderWidth = NULL,
  legend.textStyle.borderType = NULL,
  legend.textStyle.borderRadius = NULL,
  legend.textStyle.padding = NULL,
  legend.textStyle.shadowColor = NULL,
  legend.textStyle.shadowBlur = NULL,
  legend.textStyle.shadowOffsetX = NULL,
  legend.textStyle.shadowOffsetY = NULL,
  legend.textStyle.width = NULL,
```

```
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
```

```
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
toolbox.feature.saveAsImage.show = TRUE,
toolbox.feature.restore.show = TRUE,
toolbox.feature.dataZoom.show = TRUE,
toolbox.feature.magicType.show = TRUE,
toolbox.feature.magicType.type = c("line", "bar", "stack"),
toolbox.feature.dataView.show = TRUE,
```

```
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
DualYVar	Secondary Y-Axis variables. Leave NULL for no secondary axis. Only one variable is allowed and when this is set only one YVar is allowed. An error will be thrown if those conditions are not met
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
DualYVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
ShowLabels	character
Smooth	= TRUE
ShowSymbol	= FALSE
areaStyle.color	Fill color
areaStyle.opacity	transparency

Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric
title.textStyle.color	hex or name
title.textStyle.fontStyle	'normal' 'italic' 'oblique'
title.textStyle.fontWeight	'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

legend.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.textStyle.fontSize
: numeric

legend.textStyle.backgroundColor
: hex or color name

legend.textStyle.borderColor
: hex or color name

legend.textStyle.borderWidth
: numeric

legend.textStyle.borderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.borderRadius
: numeric

legend.textStyle.padding
: numeric

legend.textStyle.shadowColor
: hex or color name

legend.textStyle.shadowBlur
: numeric

legend.textStyle.shadowOffsetX
: numeric

legend.textStyle.shadowOffsetY
: numeric

legend.textStyle.width
: numeric

legend.textStyle.height
: numeric

legend.textStyle.textBorderColor
: hex or color name

legend.textStyle.textBorderWidth
: numeric

legend.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.textShadowColor
: hex or color name

legend.textStyle.textShadowBlur
: numeric

legend.textStyle.textShadowOffsetX
: numeric

legend.textStyle.textShadowOffsetY
: numeric

legend.pageTextStyle.color
: hex or color name

legend.pageTextStyle.fontStyle
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
Default 15

`toolbox.itemGap`
Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 1000)

# Build plot
AutoPlots::Area(
  dt = data,
  PreAgg = TRUE,
  AggMethod = "mean",
  XVar = "DateTime",
  YVar = "Independent_Variable3",
  YVarTrans = "Identity",
  DualYVar = "Independent_Variable6",
  DualYVarTrans = "Identity",
  GroupVar = NULL,
  Theme = "macarons")
```

Bar *Bar*

Description

Build a bar plot by simply passing arguments to a single function

Usage

```
Bar(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
```

```
LabelValues = NULL,
YVarTrans = "Identity",
XVarTrans = "Identity",
FacetRows = 1,
FacetCols = 1,
FacetLevels = NULL,
AggMethod = "mean",
Height = NULL,
Width = NULL,
ShowLabels = FALSE,
Theme = "dark",
MouseScroll = FALSE,
TimeLine = FALSE,
backgroundStyle.color = NULL,
backgroundStyle.opacity = NULL,
title.text = "Bar Plot",
title.subtext = NULL,
title.link = NULL,
title.sublink = NULL,
title.Align = "left",
title.top = NULL,
title.left = "left",
title.right = NULL,
title.bottom = NULL,
title.padding = NULL,
title.itemGap = NULL,
title.backgroundColor = NULL,
title.borderColor = NULL,
title.borderWidth = NULL,
title.borderRadius = NULL,
title.shadowColor = NULL,
title.shadowBlur = NULL,
title.shadowOffsetX = NULL,
title.shadowOffsetY = NULL,
title.textStyle.color = NULL,
title.textStyle.fontStyle = NULL,
title.textStyle.fontWeight = NULL,
title.textStyle.fontFamily = "Segoe UI",
title.textStyle.fontSize = NULL,
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
```

```
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
title.subtextStyle.lineHeight = NULL,
title.subtextStyle.width = NULL,
title.subtextStyle.height = NULL,
title.subtextStyle.textBorderColor = NULL,
title.subtextStyle.textBorderWidth = NULL,
title.subtextStyle.textBorderType = NULL,
title.subtextStyle.textBorderDashOffset = NULL,
title.subtextStyle.textShadowColor = NULL,
title.subtextStyle.textShadowBlur = NULL,
title.subtextStyle.textShadowOffsetX = NULL,
title.subtextStyle.textShadowOffsetY = NULL,
xAxis.title = NULL,
xAxis.min = NULL,
xAxis.max = NULL,
xAxis.position = "bottom",
xAxis.nameLocation = "center",
xAxis.axisTick.customValues = NULL,
xAxis.nameTextStyle.color = NULL,
xAxis.nameTextStyle.padding = 25,
xAxis.nameTextStyle.align = NULL,
xAxis.nameTextStyle.fontStyle = NULL,
xAxis.nameTextStyle.fontWeight = "bolder",
xAxis.nameTextStyle.fontSize = NULL,
xAxis.nameTextStyle.fontFamily = "Segoe UI",
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
```

```
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
```

```
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
```

```
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
```

```
legend.emphasis.selectorLabel.rotate = NULL,
legend.emphasis.selectorLabel.color = NULL,
legend.emphasis.selectorLabel.fontStyle = NULL,
legend.emphasis.selectorLabel.fontWeight = NULL,
legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
legend.emphasis.selectorLabel.fontSize = NULL,
legend.emphasis.selectorLabel.align = NULL,
legend.emphasis.selectorLabel.verticalAlign = NULL,
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
```

```
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
LabelValues	A vector of values. Requires PreAgg to be set to TRUE and you'll need to ensure LabelValues are ordered the same as dt. If NULL and ShowLabels is TRUE, then bar values will be displayed
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
ShowLabels	logical
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
backgroundStyle.color	vector of colors
backgroundStyle.opacity	vector of opacities
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric

`title.shadowColor`
: hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

xAxis.axisLabel.overflow
: 'truncate'

yAxis.title
: Axis title

yAxis.min
: Min value

yAxis.max
: Max value

yAxis.position
: 'bottom', 'top'

yAxis.nameLocation
: 'center', 'start', 'middle'

yAxis.axisTick.customValues
: Custom values for the y-axis

yAxis.nameTextStyle.color
: hex or named color

yAxis.nameTextStyle.padding
: numeric

yAxis.nameTextStyle.align
: 'center', 'left', 'right'

yAxis.nameTextStyle.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.nameTextStyle.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.nameTextStyle.fontSize
: numeric

yAxis.nameTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.nameTextStyle.textShadowColor
: hex or named color

yAxis.nameTextStyle.textShadowBlur
: numeric

yAxis.nameTextStyle.textShadowOffsetX
: numeric

yAxis.nameTextStyle.textShadowOffsetY
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

`legend.backgroundColor`
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

legend.emphasis.selectorLabel.fontStyle
: 'normal' 'italic' 'oblique'

legend.emphasis.selectorLabel.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.shadowBlur
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetX
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetY
: numeric

tooltip.axisPointer.shadowStyle.opacity
: numeric between 0 and 1

tooltip.textStyle.color
: hex or name

tooltip.textStyle.fontStyle
: "normal" "italic" "oblique"

tooltip.textStyle.fontWeight
: "normal" "bold" "bolder" "lighter"

tooltip.textStyle.fontFamily
: valid family name

tooltip.textStyle.lineHeight
: numeric

tooltip.textStyle.width
: numeric

tooltip.textStyle.height
: numeric

tooltip.textStyle.textBorderColor
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show`
: logical

`toolbox.orient`
: "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top`
: numeric

`toolbox.left`
: numeric

`toolbox.right`
: numeric

`toolbox.bottom`
: numeric

`toolbox.width`
: numeric

`toolbox.heigth`
: numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

`toolbox.feature.dataZoom.show`
: logical

`toolbox.feature.magicType.show`
: logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

`toolbox.emphasis.iconStyle.borderColor`
: hex

`toolbox.iconStyle.shadowBlur`
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 10000)

# Echarts Bar Chart
AutoPlots::Bar(
  dt = data,
  PreAgg = TRUE,
  XVar = "Factor_1",
  YVar = "Adrian",
  GroupVar = NULL,
  LabelValues = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
```

```
  TimeLine = FALSE,

  Debug = FALSE)
```

BarPlot3D *BarPlot3D*

Description

Build a 3D Bar Plot

Usage

```
BarPlot3D(
  dt,
  PreAgg = TRUE,
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_Y = 33,
  NumLevels_X = 33,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  title.text = "3D Bar Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
```

```
    title.borderColor = NULL,
    title.borderWidth = NULL,
    title.borderRadius = NULL,
    title.shadowColor = NULL,
    title.shadowBlur = NULL,
    title.shadowOffsetX = NULL,
    title.shadowOffsetY = NULL,
    title.textStyle.color = NULL,
    title.textStyle.fontStyle = NULL,
    title.textStyle.fontWeight = NULL,
    title.textStyle.fontFamily = "Segoe UI",
    title.textStyle.fontSize = NULL,
    title.textStyle.lineHeight = NULL,
    title.textStyle.width = NULL,
    title.textStyle.height = NULL,
    title.textStyle.textBorderColor = NULL,
    title.textStyle.textBorderWidth = NULL,
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    xAxis.title = NULL,
    xAxis.min = NULL,
    xAxis.max = NULL,
    xAxis.position = "bottom",
    xAxis.nameLocation = "center",
    xAxis.axisTick.customValues = NULL,
    xAxis.nameTextStyle.color = NULL,
    xAxis.nameTextStyle.padding = 25,
```

```
xAxis.nameTextStyle.align = NULL,
xAxis.nameTextStyle.fontStyle = NULL,
xAxis.nameTextStyle.fontWeight = "bolder",
xAxis.nameTextStyle.fontSize = NULL,
xAxis.nameTextStyle.fontFamily = "Segoe UI",
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
```

```
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
```

```
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
legend.lineStyle.shadowBlur = NULL,
legend.lineStyle.shadowColor = NULL,
legend.lineStyle.shadowOffsetX = NULL,
legend.lineStyle.shadowOffsetY = NULL,
legend.lineStyle.opacity = NULL,
legend.lineStyle.inactiveColor = NULL,
legend.lineStyle.inactiveWidth = NULL,
legend.textStyle.color = NULL,
legend.textStyle.fontStyle = NULL,
legend.textStyle.fontWeight = NULL,
legend.textStyle.fontFamily = "Segoe UI",
legend.textStyle.fontSize = NULL,
legend.textStyle.backgroundColor = NULL,
legend.textStyle.borderColor = NULL,
legend.textStyle.borderWidth = NULL,
legend.textStyle.borderType = NULL,
legend.textStyle.borderRadius = NULL,
legend.textStyle.padding = NULL,
legend.textStyle.shadowColor = NULL,
legend.textStyle.shadowBlur = NULL,
legend.textStyle.shadowOffsetX = NULL,
legend.textStyle.shadowOffsetY = NULL,
legend.textStyle.width = NULL,
legend.textStyle.height = NULL,
legend.textStyle.textBorderColor = NULL,
legend.textStyle.textBorderWidth = NULL,
legend.textStyle.textBorderType = NULL,
```

```
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
```

```
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
toolbox.feature.saveAsImage.show = TRUE,
toolbox.feature.restore.show = TRUE,
toolbox.feature.dataZoom.show = TRUE,
toolbox.feature.magicType.show = TRUE,
toolbox.feature.magicType.type = c("line", "bar", "stack"),
toolbox.feature.dataView.show = TRUE,
toolbox.iconStyle.color = NULL,
toolbox.iconStyle.borderColor = NULL,
toolbox.emphasis.iconStyle.borderColor = NULL,
toolbox.iconStyle.shadowBlur = NULL,
```

```
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical. Is your data pre aggregated
AggMethod	'mean', 'median', 'sum', 'sd', 'coeffvar', 'count'
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21
NumLevels_Y	= 20
NumLevels_X	= 20
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
title.text	Title name
title.subtext	Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

`title.textStyle.textBorderColor`
hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

xAxis.axisLabel.overflow
: 'truncate'

yAxis.title
: Axis title

`yAxis.min` Min value

`yAxis.max` Max value

`yAxis.position` 'bottom', 'top'

`yAxis.nameLocation`
'center', 'start', 'middle'

`yAxis.axisTick.customValues`
Custom values for the y-axis

`yAxis.nameTextStyle.color`
hex or named color

`yAxis.nameTextStyle.padding`
numeric

`yAxis.nameTextStyle.align`
'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
numeric

`yAxis.nameTextStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
hex or named color

`yAxis.nameTextStyle.textShadowBlur`
numeric

`yAxis.nameTextStyle.textShadowOffsetX`
numeric

`yAxis.nameTextStyle.textShadowOffsetY`
numeric

`yAxis.splitNumber`
numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
numeric

`yAxis.axisLabel.margin`
numeric

`yAxis.axisLabel.color`
hex or named

`yAxis.axisLabel.fontStyle`
'italic', 'normal' 'oblique'

`yAxis.axisLabel.fontWeight`
'normal', 'bold', 'bolder', 'lighter'

`yAxis.axisLabel.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

`legend.icon` 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`legend.align` 'auto' 'left' 'right'

`legend.padding` numeric

`legend.itemGap` numeric

`legend.itemWidth`
numeric

`legend.orient` 'vertical' 'horizontal'

`legend.width` numeric

`legend.height` numeric

`legend.left` numeric

`legend.right` numeric

`legend.top` numeric

`legend.bottom` numeric

`legend.backgroundColor`
hex or color name

`legend.borderColor`
hex or color name

`legend.borderWidth`
numeric

`legend.borderRadius`
numeric

`legend.shadowBlur`
numeric

`legend.shadowColor`
hex or color name

`legend.shadowOffsetX`
numeric

`legend.shadowOffsetY`
numeric

`legend.itemStyle.color`
hex or color name

`legend.itemStyle.borderColor`
hex or color name

`legend.itemStyle.borderWidth`
numeric

`legend.itemStyle.borderType`
'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
numeric

`legend.itemStyle.shadowColor`
hex or color name

`legend.itemStyle.shadowOffsetX`
numeric

`legend.itemStyle.shadowOffsetY`
numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

`legend.emphasis.selectorLabel.borderWidth`
: numeric

`legend.emphasis.selectorLabel.borderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
: numeric

`legend.emphasis.selectorLabel.padding`
: numeric

`legend.emphasis.selectorLabel.shadowColor`
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.shadowBlur
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetX
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetY
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
: logical

toolbox.feature.restore.show
: logical

toolbox.feature.dataZoom.show
: logical

toolbox.feature.magicType.show
: logical

toolbox.feature.magicType.type
: 'bar' 'line' 'stack'

toolbox.feature.dataView.show
: logical

toolbox.iconStyle.color
: hex

toolbox.iconStyle.borderColor
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 10000)

# Echarts 3D Bar Chart
AutoPlots::BarPlot3D(
  dt = data,
  PreAgg = TRUE,
  AggMethod = 'mean',
  XVar = "Factor_1",
  YVar = "Factor_2",
  ZVar = "Adrian",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_Y = 33,
  NumLevels_X = 33,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,

  Debug = FALSE)
```

BinaryMetricsPlot *BinaryMetricsPlot*

Description

Line plot of evaluation metrics across thresholds

Usage

```
BinaryMetricsPlot(
  dt = NULL,
  PreAgg = TRUE,
  AggMethod = "mean",
  SampleSize = 100000L,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  Metrics = c("Utility", "MCC", "Accuracy", "F1_Score", "F2_Score", "F0.5_Score",
    "ThreatScore", "TPR", "TNR", "FNR", "FPR", "FDR", "FOR"),
```

```
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  CostMatrixWeights = c(0, 1, 1, 0),
  NumberBins = 20,
  Height = NULL,
  Width = NULL,
  MouseScroll = FALSE,
  ShowLabels = FALSE,
  Theme = "dark",
  EchartsLabels = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
AggMethod	character
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
Metrics	Multiple selection "Utility","MCC","Accuracy","F1_Score","F2_Score","F0.5_Score","ThreatScore","Tl
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.

CostMatrixWeights	vector length 4. FP, FP, FN, TP
NumberBins	numeric
Height	"400px"
Width	"200px"
MouseScroll	logical, zoom via mouse scroll
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
EchartsLabels	character
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), PartialDependence.Line Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Box *Box*

Description

Build a box plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Box(
  dt = NULL,
  SampleSize = 100000L,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  itemStyle.color = NULL,
  itemStyle.opacity = NULL,
  itemStyle.borderColor = NULL,
  itemStyle.borderWidth = NULL,
  itemStyle.borderType = NULL,
  itemStyle.borderCap = NULL,
  itemStyle.shadowBlur = NULL,
  itemStyle.shadowColor = NULL,
  itemStyle.shadowOffsetX = NULL,
  itemStyle.shadowOffsetY = NULL,
  title.text = "BoxPlot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
```

```
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  xAxis.title = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
  xAxis.position = "bottom",
  xAxis.nameLocation = "center",
  xAxis.axisTick.customValues = NULL,
  xAxis.nameTextStyle.color = NULL,
  xAxis.nameTextStyle.padding = 25,
  xAxis.nameTextStyle.align = NULL,
  xAxis.nameTextStyle.fontStyle = NULL,
  xAxis.nameTextStyle.fontWeight = "bolder",
  xAxis.nameTextStyle.fontSize = NULL,
  xAxis.nameTextStyle.fontFamily = "Segoe UI",
  xAxis.nameTextStyle.textShadowColor = NULL,
  xAxis.nameTextStyle.textShadowBlur = NULL,
  xAxis.nameTextStyle.textShadowOffsetX = NULL,
```

```
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
```

```
    yAxis.axisLabel.margin = NULL,
    yAxis.axisLabel.color = NULL,
    yAxis.axisLabel.fontStyle = NULL,
    yAxis.axisLabel.fontWeight = NULL,
    yAxis.axisLabel.fontFamily = "Segoe UI",
    yAxis.axisLabel.fontSize = 14,
    yAxis.axisLabel.align = NULL,
    yAxis.axisLabel.verticalAlign = NULL,
    yAxis.axisLabel.backgroundColor = NULL,
    yAxis.axisLabel.borderColor = NULL,
    yAxis.axisLabel.borderWidth = NULL,
    yAxis.axisLabel.borderType = NULL,
    yAxis.axisLabel.borderRadius = NULL,
    yAxis.axisLabel.padding = NULL,
    yAxis.axisLabel.shadowColor = NULL,
    yAxis.axisLabel.shadowBlur = NULL,
    yAxis.axisLabel.shadowOffsetX = NULL,
    yAxis.axisLabel.shadowOffsetY = NULL,
    yAxis.axisLabel.textBorderColor = NULL,
    yAxis.axisLabel.textBorderWidth = NULL,
    yAxis.axisLabel.textBorderType = NULL,
    yAxis.axisLabel.textShadowColor = NULL,
    yAxis.axisLabel.textShadowBlur = NULL,
    yAxis.axisLabel.textShadowOffsetX = NULL,
    yAxis.axisLabel.textShadowOffsetY = NULL,
    yAxis.axisLabel.overflow = NULL,
    legend.show = TRUE,
    legend.type = "scroll",
    legend.selector = NULL,
    legend.icon = NULL,
    legend.align = NULL,
    legend.padding = NULL,
    legend.itemGap = NULL,
    legend.itemWidth = NULL,
    legend.orient = "vertical",
    legend.width = NULL,
    legend.height = NULL,
    legend.left = NULL,
    legend.right = 10,
    legend.top = 30,
    legend.bottom = NULL,
    legend.backgroundColor = NULL,
    legend.borderColor = NULL,
    legend.borderWidth = NULL,
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
```

```
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
legend.lineStyle.shadowBlur = NULL,
legend.lineStyle.shadowColor = NULL,
legend.lineStyle.shadowOffsetX = NULL,
legend.lineStyle.shadowOffsetY = NULL,
legend.lineStyle.opacity = NULL,
legend.lineStyle.inactiveColor = NULL,
legend.lineStyle.inactiveWidth = NULL,
legend.textStyle.color = NULL,
legend.textStyle.fontStyle = NULL,
legend.textStyle.fontWeight = NULL,
legend.textStyle.fontFamily = "Segoe UI",
legend.textStyle.fontSize = NULL,
legend.textStyle.backgroundColor = NULL,
legend.textStyle.borderColor = NULL,
legend.textStyle.borderWidth = NULL,
legend.textStyle.borderType = NULL,
legend.textStyle.borderRadius = NULL,
legend.textStyle.padding = NULL,
legend.textStyle.shadowColor = NULL,
legend.textStyle.shadowBlur = NULL,
legend.textStyle.shadowOffsetX = NULL,
legend.textStyle.shadowOffsetY = NULL,
legend.textStyle.width = NULL,
legend.textStyle.height = NULL,
legend.textStyle.textBorderColor = NULL,
legend.textStyle.textBorderWidth = NULL,
legend.textStyle.textBorderType = NULL,
legend.textStyle.textShadowColor = NULL,
legend.textStyle.textShadowBlur = NULL,
legend.textStyle.textShadowOffsetX = NULL,
legend.textStyle.textShadowOffsetY = NULL,
legend.pageTextStyle.color = NULL,
legend.pageTextStyle.fontStyle = NULL,
legend.pageTextStyle.fontWeight = NULL,
legend.pageTextStyle.fontFamily = "Segoe UI",
```

```
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = "cross",
```

```
  tooltip.axisPointer.lineStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
  tooltip.axisPointer.shadowStyle.opacity = NULL,
  tooltip.textStyle.color = NULL,
  tooltip.textStyle.fontStyle = NULL,
  tooltip.textStyle.fontWeight = NULL,
  tooltip.textStyle.fontFamily = "Segoe UI",
  tooltip.textStyle.lineHeight = NULL,
  tooltip.textStyle.width = NULL,
  tooltip.textStyle.height = NULL,
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = FALSE,
  toolbox.feature.magicType.type = NULL,
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table

`SampleSize` numeric

`XVar` X-Axis variable name

`YVar` Y-Axis variable name

`GroupVar` Character variable

`YVarTrans` "Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

`XVarTrans` "Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

`FacetRows` Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows

`FacetCols` Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns

`FacetLevels` Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.

`Height` "400px"

`Width` "200px"

`ShowLabels` character

`Theme` "auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"

`MouseScroll` logical, zoom via mouse scroll

`TimeLine` Logical

`itemStyle.color`
Fill color. Can be a single color or vector of multiple colors for gradient.

`itemStyle.opacity`
transparency

`itemStyle.borderColor`
hex or color name

`itemStyle.borderWidth`
numeric

`itemStyle.borderType`
'solid' 'dashed' 'dotted'

`itemStyle.borderCap`
'butt' 'round' 'square'

`itemStyle.shadowBlur`
numeric

`itemStyle.shadowColor`
hex or name

`itemStyle.shadowOffsetX`
numeric

`itemStyle.shadowOffsetY`
: numeric

`title.text`
: Title name

`title.subtext`
: Subtitle name

`title.link`
: Title as a link

`title.sublink`
: Subtitle as a link

`title.Align`
: 'auto' 'left' 'right' 'center'

`title.top`
: 'auto' '20' 'top' 'middle' 'bottom'

`title.left`
: distance between title and left side of container

`title.right`
: distance between title and right side of container

`title.bottom`
: 'auto' '20' 'top' 'middle' 'bottom'

`title.padding`
: numeric

`title.itemGap`
: space between title and subtitle

`title.backgroundColor`
: hex or name

`title.borderColor`
: hex or name

`title.borderWidth`
: numeric

`title.borderRadius`
: numeric

`title.shadowColor`
: hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

xAxis.axisLabel.color
: hex or named

xAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

xAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

`yAxis.splitNumber`
: numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
: numeric

`yAxis.axisLabel.margin`
: numeric

`yAxis.axisLabel.color`
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

legend.shadowOffsetY
: numeric

legend.itemStyle.color
: hex or color name

legend.itemStyle.borderColor
: hex or color name

legend.itemStyle.borderWidth
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = runif(10000)), GV = sample(LETTERS, 1000, TRUE))

AutoPlots::Box(
  dt = dt,
  SampleSize = 100000L,
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,

  Debug = FALSE)
```

Calibration.Box *Calibration.Box*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Calibration.Box(
  dt = NULL,
  SampleSize = 100000L,
```

```
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  Height = NULL,
  Width = NULL,
  MouseScroll = FALSE,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
AggMethod	character
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
MouseScroll	logical, zoom via mouse scroll

ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence., Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Calibration.Line *Calibration.Line*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Calibration.Line(
  dt = NULL,
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
```

```
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,
  MouseScroll = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"

TimeLine	logical
MouseScroll	logical, zoom via mouse scroll
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), PartialDependence.Line Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

ConfusionMatrix *ConfusionMatrix*

Description

Generate variable importance plots

Usage

```
ConfusionMatrix(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  ZVar = "N",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_X = 50,
  NumLevels_Y = 50,
  Height = NULL,
```

```
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  AggMethod = "count",
  GroupVar = NULL,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	FALSE
XVar	Column name of X-Axis variable. If NULL then ignored
YVar	Column name of Y-Axis variable. If NULL then ignored
ZVar	= "N"
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21,
NumLevels_X	= NumLevels_Y,
NumLevels_Y	= NumLevels_X,
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"

MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
GroupVar	= NULL
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Copula *Copula*

Description

Build a copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Copula(
  dt = NULL,
  SampleSize = 30000L,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
```

```
  Width = NULL,
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  title.text = "Copula Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
```

```
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    xAxis.title = NULL,
    xAxis.min = NULL,
    xAxis.max = NULL,
    xAxis.position = "bottom",
    xAxis.nameLocation = "center",
    xAxis.axisTick.customValues = NULL,
    xAxis.nameTextStyle.color = NULL,
    xAxis.nameTextStyle.padding = 25,
    xAxis.nameTextStyle.align = NULL,
    xAxis.nameTextStyle.fontStyle = NULL,
    xAxis.nameTextStyle.fontWeight = "bolder",
    xAxis.nameTextStyle.fontSize = NULL,
    xAxis.nameTextStyle.fontFamily = "Segoe UI",
    xAxis.nameTextStyle.textShadowColor = NULL,
    xAxis.nameTextStyle.textShadowBlur = NULL,
    xAxis.nameTextStyle.textShadowOffsetX = NULL,
    xAxis.nameTextStyle.textShadowOffsetY = NULL,
    xAxis.splitNumber = NULL,
    xAxis.axisLabel.rotate = NULL,
    xAxis.axisLabel.margin = NULL,
    xAxis.axisLabel.color = NULL,
    xAxis.axisLabel.fontStyle = NULL,
    xAxis.axisLabel.fontWeight = NULL,
    xAxis.axisLabel.fontFamily = "Segoe UI",
    xAxis.axisLabel.fontSize = 14,
    xAxis.axisLabel.align = NULL,
    xAxis.axisLabel.verticalAlign = NULL,
    xAxis.axisLabel.backgroundColor = NULL,
    xAxis.axisLabel.borderColor = NULL,
    xAxis.axisLabel.borderWidth = NULL,
    xAxis.axisLabel.borderType = NULL,
    xAxis.axisLabel.borderRadius = NULL,
    xAxis.axisLabel.padding = NULL,
    xAxis.axisLabel.shadowColor = NULL,
    xAxis.axisLabel.shadowBlur = NULL,
    xAxis.axisLabel.shadowOffsetX = NULL,
    xAxis.axisLabel.shadowOffsetY = NULL,
    xAxis.axisLabel.textBorderColor = NULL,
```

```
    xAxis.axisLabel.textBorderWidth = NULL,
    xAxis.axisLabel.textBorderType = NULL,
    xAxis.axisLabel.textShadowColor = NULL,
    xAxis.axisLabel.textShadowBlur = NULL,
    xAxis.axisLabel.textShadowOffsetX = NULL,
    xAxis.axisLabel.textShadowOffsetY = NULL,
    xAxis.axisLabel.overflow = NULL,
    yAxis.title = NULL,
    yAxis.min = NULL,
    yAxis.max = NULL,
    yAxis.position = "center",
    yAxis.nameLocation = "center",
    yAxis.axisTick.customValues = NULL,
    yAxis.nameTextStyle.color = NULL,
    yAxis.nameTextStyle.padding = 25,
    yAxis.nameTextStyle.align = NULL,
    yAxis.nameTextStyle.fontStyle = NULL,
    yAxis.nameTextStyle.fontWeight = "bolder",
    yAxis.nameTextStyle.fontSize = NULL,
    yAxis.nameTextStyle.fontFamily = "Segoe UI",
    yAxis.nameTextStyle.textShadowColor = NULL,
    yAxis.nameTextStyle.textShadowBlur = NULL,
    yAxis.nameTextStyle.textShadowOffsetX = NULL,
    yAxis.nameTextStyle.textShadowOffsetY = NULL,
    yAxis.splitNumber = NULL,
    yAxis.axisLabel.rotate = NULL,
    yAxis.axisLabel.margin = NULL,
    yAxis.axisLabel.color = NULL,
    yAxis.axisLabel.fontStyle = NULL,
    yAxis.axisLabel.fontWeight = NULL,
    yAxis.axisLabel.fontFamily = "Segoe UI",
    yAxis.axisLabel.fontSize = 14,
    yAxis.axisLabel.align = NULL,
    yAxis.axisLabel.verticalAlign = NULL,
    yAxis.axisLabel.backgroundColor = NULL,
    yAxis.axisLabel.borderColor = NULL,
    yAxis.axisLabel.borderWidth = NULL,
    yAxis.axisLabel.borderType = NULL,
    yAxis.axisLabel.borderRadius = NULL,
    yAxis.axisLabel.padding = NULL,
    yAxis.axisLabel.shadowColor = NULL,
    yAxis.axisLabel.shadowBlur = NULL,
    yAxis.axisLabel.shadowOffsetX = NULL,
    yAxis.axisLabel.shadowOffsetY = NULL,
    yAxis.axisLabel.textBorderColor = NULL,
    yAxis.axisLabel.textBorderWidth = NULL,
    yAxis.axisLabel.textBorderType = NULL,
    yAxis.axisLabel.textShadowColor = NULL,
```

```
    yAxis.axisLabel.textShadowBlur = NULL,
    yAxis.axisLabel.textShadowOffsetX = NULL,
    yAxis.axisLabel.textShadowOffsetY = NULL,
    yAxis.axisLabel.overflow = NULL,
    legend.show = TRUE,
    legend.type = "scroll",
    legend.selector = NULL,
    legend.icon = NULL,
    legend.align = NULL,
    legend.padding = NULL,
    legend.itemGap = NULL,
    legend.itemWidth = NULL,
    legend.orient = "vertical",
    legend.width = NULL,
    legend.height = NULL,
    legend.left = NULL,
    legend.right = 10,
    legend.top = 30,
    legend.bottom = NULL,
    legend.backgroundColor = NULL,
    legend.borderColor = NULL,
    legend.borderWidth = NULL,
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
```

```
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
```

```
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = "cross",
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
    tooltip.textStyle.fontFamily = "Segoe UI",
    tooltip.textStyle.lineHeight = NULL,
    tooltip.textStyle.width = NULL,
    tooltip.textStyle.height = NULL,
    tooltip.textStyle.textBorderColor = NULL,
    tooltip.textStyle.textBorderWidth = NULL,
    tooltip.textStyle.textBorderType = NULL,
    tooltip.textStyle.textShadowColor = NULL,
    tooltip.textStyle.textShadowBlur = NULL,
    tooltip.textStyle.textShadowOffsetX = NULL,
    tooltip.textStyle.textShadowOffsetY = NULL,
    toolbox.show = TRUE,
    toolbox.orient = "horizontal",
```

```
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = FALSE,
  toolbox.feature.magicType.type = NULL,
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Requires an XVar and YVar already be defined
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
ShowLabels	character

AddGLM	logical
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland",
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric
title.textStyle.color	hex or name
title.textStyle.fontStyle	'normal' 'italic' 'oblique'
title.textStyle.fontWeight	'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

`yAxis.splitNumber`
: numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
: numeric

`yAxis.axisLabel.margin`
: numeric

`yAxis.axisLabel.color`
: hex or named

`yAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.axisLabel.fontSize`
: numeric

`yAxis.axisLabel.align`
: 'center', 'left', 'right'

`yAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`yAxis.axisLabel.backgroundColor`
: hex or named

`yAxis.axisLabel.borderColor`
: hex or named

`yAxis.axisLabel.borderWidth`
: numeric

`yAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`yAxis.axisLabel.borderRadius`
: numeric

`yAxis.axisLabel.padding`
: numeric

`yAxis.axisLabel.shadowColor`
: hex or named

`yAxis.axisLabel.shadowBlur`
: numeric

`yAxis.axisLabel.shadowOffsetX`
: numeric

`yAxis.axisLabel.shadowOffsetY`
: numeric

`yAxis.axisLabel.textBorderColor`
: hex or named

`yAxis.axisLabel.textBorderWidth`
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

`legend.emphasis.selectorLabel.borderWidth`
: numeric

`legend.emphasis.selectorLabel.borderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
: numeric

`legend.emphasis.selectorLabel.padding`
: numeric

`legend.emphasis.selectorLabel.shadowColor`
: hex or color name

`legend.emphasis.selectorLabel.shadowBlur`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.width`
: numeric

`legend.emphasis.selectorLabel.height`
: numeric

`legend.emphasis.selectorLabel.textBorderColor`
: hex or color name

`legend.emphasis.selectorLabel.textBorderWidth`
: numeric

`legend.emphasis.selectorLabel.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.textShadowColor`
: hex or color name

`legend.emphasis.selectorLabel.textShadowBlur`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show` logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
Default 15

`toolbox.itemGap`
Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts Copula Plot Chart
AutoPlots::Copula(
  dt = data,
  SampleSize = 10000,
  XVar = "Independent_Variable8",
  YVar = "Adrian",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,

  Debug = FALSE)
```

Copula3D *Copula3D*

Description

Build a 3D-copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Copula3D(
  dt = NULL,
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark-blue",
  TimeLine = FALSE,
  title.text = "3D Copula Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
```

```
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    xAxis.title = NULL,
    xAxis.min = NULL,
    xAxis.max = NULL,
    xAxis.position = "bottom",
    xAxis.nameLocation = "center",
    xAxis.axisTick.customValues = NULL,
    xAxis.nameTextStyle.color = NULL,
    xAxis.nameTextStyle.padding = 25,
    xAxis.nameTextStyle.align = NULL,
    xAxis.nameTextStyle.fontStyle = NULL,
    xAxis.nameTextStyle.fontWeight = "bolder",
    xAxis.nameTextStyle.fontSize = NULL,
    xAxis.nameTextStyle.fontFamily = "Segoe UI",
    xAxis.nameTextStyle.textShadowColor = NULL,
    xAxis.nameTextStyle.textShadowBlur = NULL,
    xAxis.nameTextStyle.textShadowOffsetX = NULL,
    xAxis.nameTextStyle.textShadowOffsetY = NULL,
    xAxis.splitNumber = NULL,
    xAxis.axisLabel.rotate = NULL,
    xAxis.axisLabel.margin = NULL,
    xAxis.axisLabel.color = NULL,
    xAxis.axisLabel.fontStyle = NULL,
    xAxis.axisLabel.fontWeight = NULL,
    xAxis.axisLabel.fontFamily = "Segoe UI",
    xAxis.axisLabel.fontSize = 14,
```

```
    xAxis.axisLabel.align = NULL,
    xAxis.axisLabel.verticalAlign = NULL,
    xAxis.axisLabel.backgroundColor = NULL,
    xAxis.axisLabel.borderColor = NULL,
    xAxis.axisLabel.borderWidth = NULL,
    xAxis.axisLabel.borderType = NULL,
    xAxis.axisLabel.borderRadius = NULL,
    xAxis.axisLabel.padding = NULL,
    xAxis.axisLabel.shadowColor = NULL,
    xAxis.axisLabel.shadowBlur = NULL,
    xAxis.axisLabel.shadowOffsetX = NULL,
    xAxis.axisLabel.shadowOffsetY = NULL,
    xAxis.axisLabel.textBorderColor = NULL,
    xAxis.axisLabel.textBorderWidth = NULL,
    xAxis.axisLabel.textBorderType = NULL,
    xAxis.axisLabel.textShadowColor = NULL,
    xAxis.axisLabel.textShadowBlur = NULL,
    xAxis.axisLabel.textShadowOffsetX = NULL,
    xAxis.axisLabel.textShadowOffsetY = NULL,
    xAxis.axisLabel.overflow = NULL,
    yAxis.title = NULL,
    yAxis.min = NULL,
    yAxis.max = NULL,
    yAxis.position = "center",
    yAxis.nameLocation = "center",
    yAxis.axisTick.customValues = NULL,
    yAxis.nameTextStyle.color = NULL,
    yAxis.nameTextStyle.padding = 25,
    yAxis.nameTextStyle.align = NULL,
    yAxis.nameTextStyle.fontStyle = NULL,
    yAxis.nameTextStyle.fontWeight = "bolder",
    yAxis.nameTextStyle.fontSize = NULL,
    yAxis.nameTextStyle.fontFamily = "Segoe UI",
    yAxis.nameTextStyle.textShadowColor = NULL,
    yAxis.nameTextStyle.textShadowBlur = NULL,
    yAxis.nameTextStyle.textShadowOffsetX = NULL,
    yAxis.nameTextStyle.textShadowOffsetY = NULL,
    yAxis.splitNumber = NULL,
    yAxis.axisLabel.rotate = NULL,
    yAxis.axisLabel.margin = NULL,
    yAxis.axisLabel.color = NULL,
    yAxis.axisLabel.fontStyle = NULL,
    yAxis.axisLabel.fontWeight = NULL,
    yAxis.axisLabel.fontFamily = "Segoe UI",
    yAxis.axisLabel.fontSize = 14,
    yAxis.axisLabel.align = NULL,
    yAxis.axisLabel.verticalAlign = NULL,
    yAxis.axisLabel.backgroundColor = NULL,
```

```
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
```

```
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
```

```
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = "cross",
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
```

```
  tooltip.textStyle.fontFamily = "Segoe UI",
  tooltip.textStyle.lineHeight = NULL,
  tooltip.textStyle.width = NULL,
  tooltip.textStyle.height = NULL,
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
GroupVar	Requires an XVar and YVar already be defined
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
TimeLine	Logical
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric

`title.shadowColor`
: hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title` Axis title

`yAxis.min` Min value

`yAxis.max` Max value

`yAxis.position` 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.nameTextStyle.fontSize
: numeric

yAxis.nameTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.nameTextStyle.textShadowColor
: hex or named color

yAxis.nameTextStyle.textShadowBlur
: numeric

yAxis.nameTextStyle.textShadowOffsetX
: numeric

yAxis.nameTextStyle.textShadowOffsetY
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

`legend.backgroundColor`
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
numeric

`legend.emphasis.selectorLabel.align`
'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
numeric

`legend.emphasis.selectorLabel.backgroundColor`
hex or color name

`legend.emphasis.selectorLabel.borderColor`
hex or color name

`legend.emphasis.selectorLabel.borderWidth`
numeric

`legend.emphasis.selectorLabel.borderType`
'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
numeric

`legend.emphasis.selectorLabel.padding`
numeric

`legend.emphasis.selectorLabel.shadowColor`
hex or color name

`legend.emphasis.selectorLabel.shadowBlur`
numeric

`legend.emphasis.selectorLabel.shadowOffsetX`
numeric

`legend.emphasis.selectorLabel.shadowOffsetY`
numeric

`legend.emphasis.selectorLabel.width`
numeric

`legend.emphasis.selectorLabel.height`
numeric

`legend.emphasis.selectorLabel.textBorderColor`
hex or color name

`legend.emphasis.selectorLabel.textBorderWidth`
numeric

`legend.emphasis.selectorLabel.textBorderType`
'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.textShadowColor`
hex or color name

`legend.emphasis.selectorLabel.textShadowBlur`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show`
: logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

`toolbox.feature.dataZoom.show`
: logical

`toolbox.feature.magicType.show`
: logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

`toolbox.emphasis.iconStyle.borderColor`
: hex

`toolbox.iconStyle.shadowBlur`
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)
data[, Independent_Variable9 := Independent_Variable9 * runif(.N)]

# Echarts Copula Plot Chart
AutoPlots::Copula3D(
  dt = data,
  SampleSize = 10000,
  XVar = "Adrian",
  YVar = "Independent_Variable9",
  ZVar = "Independent_Variable6",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
```

```
  TimeLine = FALSE,

  Debug = FALSE)
```

CorrMatrix *CorrMatrix*

Description

Build a correlation matrix plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
CorrMatrix(
  dt = NULL,
  CorrVars = NULL,
  CorrVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Method = "spearman",
  PreAgg = TRUE,
  MaxNAPercent = 0.05,
  Height = NULL,
  Width = NULL,
  ShowLabels = TRUE,
  Theme = "dark",
  MouseScroll = FALSE,
  visualMap.show = TRUE,
  visualMap.min = -1,
  visualMap.max = 1,
  visualMap.orient = "vertical",
  visualMap.right = "2%",
  visualMap.top = "middle",
  visualMap.bottom = NULL,
  visualMap.left = NULL,
  visualMap.backgroundColor = NULL,
  visualMap.borderColor = NULL,
  visualMap.borderWidth = NULL,
  visualMap.InRange.color = NULL,
  visualMap.InRange.opacity = NULL,
  visualMap.InRange.symbol = NULL,
  visualMap.InRange.symbolSize = NULL,
  title.text = "Correlogram",
  title.subtext = NULL,
```

```
    title.link = NULL,
    title.sublink = NULL,
    title.Align = "left",
    title.top = NULL,
    title.left = "left",
    title.right = NULL,
    title.bottom = NULL,
    title.padding = NULL,
    title.itemGap = NULL,
    title.backgroundColor = NULL,
    title.borderColor = NULL,
    title.borderWidth = NULL,
    title.borderRadius = NULL,
    title.shadowColor = NULL,
    title.shadowBlur = NULL,
    title.shadowOffsetX = NULL,
    title.shadowOffsetY = NULL,
    title.textStyle.color = NULL,
    title.textStyle.fontStyle = NULL,
    title.textStyle.fontWeight = NULL,
    title.textStyle.fontFamily = "Segoe UI",
    title.textStyle.fontSize = NULL,
    title.textStyle.lineHeight = NULL,
    title.textStyle.width = NULL,
    title.textStyle.height = NULL,
    title.textStyle.textBorderColor = NULL,
    title.textStyle.textBorderWidth = NULL,
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
```

```
title.subtextStyle.textShadowOffsetX = NULL,
title.subtextStyle.textShadowOffsetY = NULL,
xAxis.title = NULL,
xAxis.min = NULL,
xAxis.max = NULL,
xAxis.position = "bottom",
xAxis.nameLocation = "center",
xAxis.axisTick.customValues = NULL,
xAxis.nameTextStyle.color = NULL,
xAxis.nameTextStyle.padding = 25,
xAxis.nameTextStyle.align = NULL,
xAxis.nameTextStyle.fontStyle = NULL,
xAxis.nameTextStyle.fontWeight = "bolder",
xAxis.nameTextStyle.fontSize = NULL,
xAxis.nameTextStyle.fontFamily = "Segoe UI",
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
```

```
  yAxis.min = NULL,
  yAxis.max = NULL,
  yAxis.position = "center",
  yAxis.nameLocation = "center",
  yAxis.axisTick.customValues = NULL,
  yAxis.nameTextStyle.color = NULL,
  yAxis.nameTextStyle.padding = 25,
  yAxis.nameTextStyle.align = NULL,
  yAxis.nameTextStyle.fontStyle = NULL,
  yAxis.nameTextStyle.fontWeight = "bolder",
  yAxis.nameTextStyle.fontSize = NULL,
  yAxis.nameTextStyle.fontFamily = "Segoe UI",
  yAxis.nameTextStyle.textShadowColor = NULL,
  yAxis.nameTextStyle.textShadowBlur = NULL,
  yAxis.nameTextStyle.textShadowOffsetX = NULL,
  yAxis.nameTextStyle.textShadowOffsetY = NULL,
  yAxis.splitNumber = NULL,
  yAxis.axisLabel.rotate = NULL,
  yAxis.axisLabel.margin = NULL,
  yAxis.axisLabel.color = NULL,
  yAxis.axisLabel.fontStyle = NULL,
  yAxis.axisLabel.fontWeight = NULL,
  yAxis.axisLabel.fontFamily = "Segoe UI",
  yAxis.axisLabel.fontSize = 14,
  yAxis.axisLabel.align = NULL,
  yAxis.axisLabel.verticalAlign = NULL,
  yAxis.axisLabel.backgroundColor = NULL,
  yAxis.axisLabel.borderColor = NULL,
  yAxis.axisLabel.borderWidth = NULL,
  yAxis.axisLabel.borderType = NULL,
  yAxis.axisLabel.borderRadius = NULL,
  yAxis.axisLabel.padding = NULL,
  yAxis.axisLabel.shadowColor = NULL,
  yAxis.axisLabel.shadowBlur = NULL,
  yAxis.axisLabel.shadowOffsetX = NULL,
  yAxis.axisLabel.shadowOffsetY = NULL,
  yAxis.axisLabel.textBorderColor = NULL,
  yAxis.axisLabel.textBorderWidth = NULL,
  yAxis.axisLabel.textBorderType = NULL,
  yAxis.axisLabel.textShadowColor = NULL,
  yAxis.axisLabel.textShadowBlur = NULL,
  yAxis.axisLabel.textShadowOffsetX = NULL,
  yAxis.axisLabel.textShadowOffsetY = NULL,
  yAxis.axisLabel.overflow = NULL,
  legend.show = TRUE,
  legend.type = "scroll",
  legend.selector = NULL,
  legend.icon = NULL,
```

```
  legend.align = NULL,
  legend.padding = NULL,
  legend.itemGap = NULL,
  legend.itemWidth = NULL,
  legend.orient = "vertical",
  legend.width = NULL,
  legend.height = NULL,
  legend.left = NULL,
  legend.right = 10,
  legend.top = 30,
  legend.bottom = NULL,
  legend.backgroundColor = NULL,
  legend.borderColor = NULL,
  legend.borderWidth = NULL,
  legend.borderRadius = NULL,
  legend.shadowBlur = NULL,
  legend.shadowColor = NULL,
  legend.shadowOffsetX = NULL,
  legend.shadowOffsetY = NULL,
  legend.itemStyle.color = NULL,
  legend.itemStyle.borderColor = NULL,
  legend.itemStyle.borderWidth = NULL,
  legend.itemStyle.borderType = NULL,
  legend.itemStyle.shadowBlur = NULL,
  legend.itemStyle.shadowColor = NULL,
  legend.itemStyle.shadowOffsetX = NULL,
  legend.itemStyle.shadowOffsetY = NULL,
  legend.itemStyle.opacity = NULL,
  legend.lineStyle.color = NULL,
  legend.lineStyle.width = NULL,
  legend.lineStyle.type = NULL,
  legend.lineStyle.shadowBlur = NULL,
  legend.lineStyle.shadowColor = NULL,
  legend.lineStyle.shadowOffsetX = NULL,
  legend.lineStyle.shadowOffsetY = NULL,
  legend.lineStyle.opacity = NULL,
  legend.lineStyle.inactiveColor = NULL,
  legend.lineStyle.inactiveWidth = NULL,
  legend.textStyle.color = NULL,
  legend.textStyle.fontStyle = NULL,
  legend.textStyle.fontWeight = NULL,
  legend.textStyle.fontFamily = "Segoe UI",
  legend.textStyle.fontSize = NULL,
  legend.textStyle.backgroundColor = NULL,
  legend.textStyle.borderColor = NULL,
  legend.textStyle.borderWidth = NULL,
  legend.textStyle.borderType = NULL,
  legend.textStyle.borderRadius = NULL,
```

```
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
```

```
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
```

```
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = FALSE,
  toolbox.feature.magicType.type = NULL,
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
CorrVars	vector of variable names
CorrVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Method	character
PreAgg	logical
MaxNAPercent	numeric
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
visualMap.show	TRUE
visualMap.min	min value

`visualMap.max` max value

`visualMap.orient`
'vertical' 'horizontal'

`visualMap.right`
number

`visualMap.top` number

`visualMap.bottom`
number

`visualMap.left` number

`visualMap.backgroundColor`
hex or name

`visualMap.borderColor`
hex or name

`visualMap.borderWidth`
number

`visualMap.InRange.color`
hex or name

`visualMap.InRange.opacity`
number

`visualMap.InRange.symbol`
'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`visualMap.InRange.symbolSize`
number

`title.text` Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.nameTextStyle.fontSize
: numeric

xAxis.nameTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.nameTextStyle.textShadowColor
: hex or named color

xAxis.nameTextStyle.textShadowBlur
: numeric

xAxis.nameTextStyle.textShadowOffsetX
: numeric

xAxis.nameTextStyle.textShadowOffsetY
: numeric

xAxis.splitNumber
: numeric. Increments for numeric axis labels

xAxis.axisLabel.rotate
: numeric

xAxis.axisLabel.margin
: numeric

xAxis.axisLabel.color
: hex or named

xAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

xAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title` Axis title

`yAxis.min` Min value

`yAxis.max` Max value

`yAxis.position` 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

yAxis.nameTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.nameTextStyle.textShadowColor
: hex or named color

yAxis.nameTextStyle.textShadowBlur
: numeric

yAxis.nameTextStyle.textShadowOffsetX
: numeric

yAxis.nameTextStyle.textShadowOffsetY
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

legend.emphasis.selectorLabel.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show`
: logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

tooltip.textStyle.textBorderType
: "solid" "dashed" "dotted"

tooltip.textStyle.textShadowColor
: hex or name

tooltip.textStyle.textShadowBlur
: numeric

tooltip.textStyle.textShadowOffsetX
: numeric

tooltip.textStyle.textShadowOffsetY
: numeric

toolbox.show
: logical

toolbox.orient
: "horizontal" or "vertical"

toolbox.itemSize
: Default 15

toolbox.itemGap
: Default 8

toolbox.top
: numeric

toolbox.left
: numeric

toolbox.right
: numeric

toolbox.bottom
: numeric

toolbox.width
: numeric

toolbox.heigth
: numeric

toolbox.feature.saveAsImage.show
: logical

toolbox.feature.restore.show
: logical

toolbox.feature.dataZoom.show
: logical

toolbox.feature.magicType.show
: logical

toolbox.feature.magicType.type
: 'bar' 'line' 'stack'

toolbox.feature.dataView.show
: logical

toolbox.iconStyle.color
: hex

toolbox.iconStyle.borderColor
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts CorrMatrix Plot Chart
AutoPlots::CorrMatrix(
  dt = data,
  PreAgg = FALSE,
  CorrVars = c(
    "Adrian",
    "Independent_Variable1",
    "Independent_Variable2",
    "Independent_Variable3",
    "Independent_Variable4",
    "Independent_Variable5"),
  CorrVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Method = 'pearson',
  MaxNAPercent = 0.05,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
```

```
  MouseScroll = FALSE,
  Debug = FALSE)
```

Density *Density*

Description

Density plots, by groups, with transparent continuous plots

Usage

```
Density(
  dt = NULL,
  SampleSize = 100000L,
  XVar = NULL,
  XVarTrans = "Identity",
  GroupVar = NULL,
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  TimeLine = FALSE,
  showSymbol = FALSE,
  areaStyle.color = NULL,
  areaStyle.opacity = NULL,
  Height = NULL,
  Width = NULL,
  MouseScroll = FALSE,
  ShowLabels = FALSE,
  Theme = "dark",
  title.text = "Density Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
```

```
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  xAxis.title = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
  xAxis.position = "bottom",
  xAxis.nameLocation = "center",
  xAxis.axisTick.customValues = NULL,
  xAxis.nameTextStyle.color = NULL,
  xAxis.nameTextStyle.padding = 25,
  xAxis.nameTextStyle.align = NULL,
  xAxis.nameTextStyle.fontStyle = NULL,
  xAxis.nameTextStyle.fontWeight = "bolder",
  xAxis.nameTextStyle.fontSize = NULL,
```

```
xAxis.nameTextStyle.fontFamily = "Segoe UI",
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
```

```
  yAxis.nameTextStyle.textShadowOffsetX = NULL,
  yAxis.nameTextStyle.textShadowOffsetY = NULL,
  yAxis.splitNumber = NULL,
  yAxis.axisLabel.rotate = NULL,
  yAxis.axisLabel.margin = NULL,
  yAxis.axisLabel.color = NULL,
  yAxis.axisLabel.fontStyle = NULL,
  yAxis.axisLabel.fontWeight = NULL,
  yAxis.axisLabel.fontFamily = "Segoe UI",
  yAxis.axisLabel.fontSize = 14,
  yAxis.axisLabel.align = NULL,
  yAxis.axisLabel.verticalAlign = NULL,
  yAxis.axisLabel.backgroundColor = NULL,
  yAxis.axisLabel.borderColor = NULL,
  yAxis.axisLabel.borderWidth = NULL,
  yAxis.axisLabel.borderType = NULL,
  yAxis.axisLabel.borderRadius = NULL,
  yAxis.axisLabel.padding = NULL,
  yAxis.axisLabel.shadowColor = NULL,
  yAxis.axisLabel.shadowBlur = NULL,
  yAxis.axisLabel.shadowOffsetX = NULL,
  yAxis.axisLabel.shadowOffsetY = NULL,
  yAxis.axisLabel.textBorderColor = NULL,
  yAxis.axisLabel.textBorderWidth = NULL,
  yAxis.axisLabel.textBorderType = NULL,
  yAxis.axisLabel.textShadowColor = NULL,
  yAxis.axisLabel.textShadowBlur = NULL,
  yAxis.axisLabel.textShadowOffsetX = NULL,
  yAxis.axisLabel.textShadowOffsetY = NULL,
  yAxis.axisLabel.overflow = NULL,
  legend.show = TRUE,
  legend.type = "scroll",
  legend.selector = NULL,
  legend.icon = NULL,
  legend.align = NULL,
  legend.padding = NULL,
  legend.itemGap = NULL,
  legend.itemWidth = NULL,
  legend.orient = "vertical",
  legend.width = NULL,
  legend.height = NULL,
  legend.left = NULL,
  legend.right = 10,
  legend.top = 30,
  legend.bottom = NULL,
  legend.backgroundColor = NULL,
  legend.borderColor = NULL,
  legend.borderWidth = NULL,
```

```
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
```

```
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
```

```
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
toolbox.feature.saveAsImage.show = TRUE,
toolbox.feature.restore.show = TRUE,
toolbox.feature.dataZoom.show = TRUE,
toolbox.feature.magicType.show = TRUE,
toolbox.feature.magicType.type = c("line", "bar", "stack"),
toolbox.feature.dataView.show = TRUE,
toolbox.iconStyle.color = NULL,
toolbox.iconStyle.borderColor = NULL,
toolbox.emphasis.iconStyle.borderColor = NULL,
toolbox.iconStyle.shadowBlur = NULL,
toolbox.iconStyle.shadowColor = NULL,
toolbox.iconStyle.shadowOffsetX = NULL,
toolbox.iconStyle.shadowOffsetY = NULL,
Debug = FALSE
```

)

Arguments

dt	source data.table
SampleSize	= 100000L
XVar	X-Axis variable name
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
GroupVar	Character variable
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
TimeLine	logical
showSymbol	logical
areaStyle.color	color or hex
areaStyle.opacity	numeric
Height	"400px"
Width	"200px"
MouseScroll	logical, zoom via mouse scroll
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

`title.textStyle.textBorderColor`
hex or name

`title.textStyle.textBorderWidth`
numeric

`title.textStyle.textBorderType`
'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
numeric

`title.textStyle.textShadowColor`
hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

xAxis.axisLabel.overflow
: 'truncate'

yAxis.title
: Axis title

yAxis.min
: Min value

yAxis.max
: Max value

yAxis.position
: 'bottom', 'top'

yAxis.nameLocation
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

`yAxis.splitNumber`
: numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
: numeric

`yAxis.axisLabel.margin`
: numeric

`yAxis.axisLabel.color`
: hex or named

`yAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.axisLabel.fontSize`
: numeric

`yAxis.axisLabel.align`
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

`legend.itemWidth`
: numeric

`legend.orient`
: 'vertical' 'horizontal'

`legend.width`
: numeric

`legend.height`
: numeric

`legend.left`
: numeric

`legend.right`
: numeric

`legend.top`
: numeric

`legend.bottom`
: numeric

`legend.backgroundColor`
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

`legend.emphasis.selectorLabel.borderWidth`
: numeric

`legend.emphasis.selectorLabel.borderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
: numeric

`legend.emphasis.selectorLabel.padding`
: numeric

`legend.emphasis.selectorLabel.shadowColor`
: hex or color name

`legend.emphasis.selectorLabel.shadowBlur`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetX`
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.shadowBlur
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetX
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetY
: numeric

tooltip.axisPointer.shadowStyle.opacity
: numeric between 0 and 1

tooltip.textStyle.color
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

toolbox.feature.dataZoom.show
: logical

toolbox.feature.magicType.show
: logical

toolbox.feature.magicType.type
: 'bar' 'line' 'stack'

toolbox.feature.dataView.show
: logical

toolbox.iconStyle.color
: hex

toolbox.iconStyle.borderColor
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = runif(10000)))

# Create plot
AutoPlots::Density(
  dt = dt,
  SampleSize = 30000L,
  XVar = "Y",
```

```
  GroupVar = NULL,
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  ShowLabels = FALSE,
  Debug = FALSE)
```

`display_plots_grid` *Display a Series of Plots in a Styled HTML Grid*

Description

Arrange a list of echarts4r/htmlwidgets plots into a styled HTML grid. Supports optional card titles, subtitles, responsive layouts, last-row behavior, HTML export, and optional code generation.

Usage

```
display_plots_grid(
  plots,
  cols = NULL,
  titles = NULL,
  subtitles = NULL,
  gap = "20px",
  padding = "0px",
  min_width = "350px",
  last_row = c("span", "left", "center", "none"),
  card = TRUE,
  card_background = NULL,
  card_border = NULL,
  card_radius = "14px",
  card_padding = "14px",
  card_shadow = NULL,
  title_color = NULL,
  subtitle_color = NULL,
  title_size = "16px",
  subtitle_size = "13px",
 font_family = "Segoe UI, system-ui, -apple-system, BlinkMacSystemFont, sans-serif",
  container_class = "plot-card",
  grid_class = "plot-grid",
  background = NULL,
  width = "100%",
```

```
  resizable = TRUE,
  row_height = "420px",
  row_min_height = "320px",
  save_path = NULL,
  selfcontained = TRUE,
  return_code = FALSE
)
```

Arguments

plots	A list of echarts4r plots, htmlwidgets, or htmltools tags.
cols	Number of grid columns. Use NULL for auto-fit responsive layout.
titles	Optional character vector of card titles, one per plot.
subtitles	Optional character vector of card subtitles, one per plot.
gap	CSS grid gap.
padding	CSS padding around the full grid.
min_width	Minimum card width when cols = NULL.
last_row	Behavior when explicit cols leaves one plot in last row. One of "span", "left", "center", or "none".
card	Logical. If TRUE, wrap each plot in a styled card.
card_background	CSS background for cards.
card_border	CSS border for cards.
card_radius	CSS border-radius for cards.
card_padding	CSS padding inside cards.
card_shadow	CSS box-shadow for cards.
title_color	CSS color for card titles.
subtitle_color	CSS color for card subtitles.
title_size	CSS font-size for card titles.
subtitle_size	CSS font-size for card subtitles.
font_family	CSS font-family used for titles/subtitles.
container_class	CSS class for each plot container.
grid_class	CSS class for the grid layout container.
background	Optional CSS background for the full grid wrapper.
width	CSS width of the full grid wrapper.
resizable	Logical. If TRUE and ‘cols‘ is explicit, plots are grouped into vertically resizable rows and widgets fill the available row height.
row_height	Default CSS height for resizable rows. May be length 1 or one value per generated row.
row_min_height	Minimum CSS height for resizable rows. May be length 1 or one value per generated row.

save_path	Optional file path to save standalone HTML.
selfcontained	Logical passed to htmlwidgets::saveWidget.
return_code	Logical. If TRUE, return list(html = ..., code = ...).

Value

A browsable HTML grid, or list(html, code) when return_code = TRUE.

`display_plots_sections` *Display Plots in Styled Sections*

Description

Arrange plots into named report-style sections. Each section uses display_plots_grid() internally.

Usage

```
display_plots_sections(
  sections,
  cols = 2,
  collapsible = TRUE,
  open = TRUE,
  section_titles = NULL,
  section_subtitles = NULL,
  plot_titles = NULL,
  plot_subtitles = NULL,
  gap = "20px",
  section_gap = "22px",
  padding = "0px",
  card = TRUE,
  card_background = NULL,
  card_border = NULL,
  card_shadow = NULL,
  section_background = NULL,
  section_border = NULL,
  section_radius = "16px",
  section_padding = "18px",
  title_color = NULL,
  subtitle_color = NULL,
  font_family = "Segoe UI, system-ui, -apple-system, BlinkMacSystemFont, sans-serif",
  resizable = TRUE,
  row_height = "420px",
  row_min_height = "320px",
  save_path = NULL,
  selfcontained = TRUE,
  return_code = FALSE
)
```

Arguments

sections	A named list. Each element should be a list of plots.
cols	Number of columns per section.
collapsible	Logical. If TRUE, sections use HTML details/summary.
open	Logical. If TRUE, collapsible sections are open by default.
section_titles	Optional section titles. Defaults to names(sections).
section_subtitles	Optional section subtitles.
plot_titles	Optional named list of title vectors by section.
plot_subtitles	Optional named list of subtitle vectors by section.
gap	CSS grid gap inside sections.
section_gap	CSS gap between sections.
padding	CSS padding around the full report.
card	Logical. If TRUE, wrap plots in cards.
card_background	CSS background for plot cards. Defaults to inferred theme.
card_border	CSS border for plot cards. Defaults to inferred theme.
card_shadow	CSS box-shadow for plot cards. Defaults to inferred theme.
section_background	CSS background for section wrappers.
section_border	CSS border for section wrappers.
section_radius	CSS border-radius for section wrappers.
section_padding	CSS padding for section wrappers.
title_color	CSS color for section titles.
subtitle_color	CSS color for section subtitles.
font_family	CSS font-family.
resizable	Logical. If TRUE, each section's grid is grouped into vertically resizable rows by 'cols'.
row_height	Default CSS height for resizable rows. May be length 1 or one value per generated row inside each section.
row_min_height	Minimum CSS height for resizable rows. May be length 1 or one value per generated row inside each section.
save_path	Optional file path to save standalone HTML.
selfcontained	Logical passed to htmlwidgets::saveWidget.
return_code	Logical. If TRUE, return list(html = ..., code = ...).

Value

A browsable sectioned HTML report, or list(html, code) when return_code = TRUE.

`display_plots_tabs` *Display Plots in HTML Tabs*

Description

Arrange a list of plots into a tabbed HTML interface.

Usage

```
display_plots_tabs(
  plots,
  tab_titles = NULL,
  titles = NULL,
  subtitles = NULL,
  selected = 1L,
  card = TRUE,
  card_background = NULL,
  card_border = NULL,
  card_radius = "14px",
  card_padding = "14px",
  card_shadow = NULL,
  title_color = NULL,
  subtitle_color = NULL,
  title_size = "16px",
  subtitle_size = "13px",
  font_family = "Segoe UI, system-ui, -apple-system, BlinkMacSystemFont, sans-serif",
  tabs_class = "plot-tabs",
  save_path = NULL,
  selfcontained = TRUE,
  return_code = FALSE
)
```

Arguments

`plots`	A list of echarts4r plots, htmlwidgets, or htmltools tags.
`tab_titles`	Optional tab labels. If NULL, names(plots) are used when available.
`titles`	Optional card titles, one per plot.
`subtitles`	Optional card subtitles, one per plot.
`selected`	Initial selected tab index.
`card`	Logical. If TRUE, wrap each plot in a styled card.
`card_background`	CSS background for cards.
`card_border`	CSS border for cards.
`card_radius`	CSS border-radius for cards.

card_padding	CSS padding inside cards.
card_shadow	CSS box-shadow for cards.
title_color	CSS color for card titles.
subtitle_color	CSS color for card subtitles.
title_size	CSS font-size for card titles.
subtitle_size	CSS font-size for card subtitles.
font_family	CSS font-family.
tabs_class	CSS class for wrapper.
save_path	Optional file path to save standalone HTML.
selfcontained	Logical passed to htmlwidgets::saveWidget.
return_code	Logical. If TRUE, return list(html = ..., code = ...).

Value

A browsable HTML tab set, or list(html, code) when return_code = TRUE.

Donut *Donut*

Description

Build a donut plot by simply passing arguments to a single function

Usage

```
Donut(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  ShowLabels = TRUE,
  Theme = "dark",
  TimeLine = FALSE,
  title.text = "Donut Plot",
  title.subtext = NULL,
```

```
    title.link = NULL,
    title.sublink = NULL,
    title.Align = "left",
    title.top = NULL,
    title.left = "left",
    title.right = NULL,
    title.bottom = NULL,
    title.padding = NULL,
    title.itemGap = NULL,
    title.backgroundColor = NULL,
    title.borderColor = NULL,
    title.borderWidth = NULL,
    title.borderRadius = NULL,
    title.shadowColor = NULL,
    title.shadowBlur = NULL,
    title.shadowOffsetX = NULL,
    title.shadowOffsetY = NULL,
    title.textStyle.color = NULL,
    title.textStyle.fontStyle = NULL,
    title.textStyle.fontWeight = NULL,
    title.textStyle.fontFamily = "Segoe UI",
    title.textStyle.fontSize = NULL,
    title.textStyle.lineHeight = NULL,
    title.textStyle.width = NULL,
    title.textStyle.height = NULL,
    title.textStyle.textBorderColor = NULL,
    title.textStyle.textBorderWidth = NULL,
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
```

```
title.subtextStyle.textShadowOffsetX = NULL,
title.subtextStyle.textShadowOffsetY = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
legend.lineStyle.shadowBlur = NULL,
legend.lineStyle.shadowColor = NULL,
legend.lineStyle.shadowOffsetX = NULL,
legend.lineStyle.shadowOffsetY = NULL,
legend.lineStyle.opacity = NULL,
legend.lineStyle.inactiveColor = NULL,
legend.lineStyle.inactiveWidth = NULL,
legend.textStyle.color = NULL,
legend.textStyle.fontStyle = NULL,
legend.textStyle.fontWeight = NULL,
legend.textStyle.fontFamily = "Segoe UI",
```

```
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
```

```
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "item",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
```

```
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
ShowLabels	character

Theme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo","ess cut","fruit","gray","green","halloween","helianthus","infographic","inspired","jazz","london","dark","ma passion","red-velvet","red","roma","royal","sakura","shine","tech-blue","vintage","walden","wef","wefo
TimeLine	logical
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric
title.textStyle.color	hex or name
title.textStyle.fontStyle	'normal' 'italic' 'oblique'
title.textStyle.fontWeight	'normal' 'bold' 'bolder' 'lighter'
title.textStyle.fontFamily	'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
title.textStyle.fontSize	numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`legend.show`
: logical

`legend.type`
: 'scroll' 'plain'

`legend.selector`
: logical

`legend.icon`
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`legend.align`
: 'auto' 'left' 'right'

`legend.padding`
: numeric

`legend.itemGap`
: numeric

`legend.itemWidth`
: numeric

`legend.orient`
: 'vertical' 'horizontal'

`legend.width`
: numeric

`legend.height`
: numeric

`legend.left`
: numeric

`legend.right`
: numeric

`legend.top`
: numeric

`legend.bottom`
: numeric

`legend.backgroundColor`
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

`legend.emphasis.selectorLabel.borderWidth`
: numeric

`legend.emphasis.selectorLabel.borderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
: numeric

`legend.emphasis.selectorLabel.padding`
: numeric

`legend.emphasis.selectorLabel.shadowColor`
: hex or color name

`legend.emphasis.selectorLabel.shadowBlur`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.width`
: numeric

`legend.emphasis.selectorLabel.height`
: numeric

`legend.emphasis.selectorLabel.textBorderColor`
: hex or color name

`legend.emphasis.selectorLabel.textBorderWidth`
: numeric

`legend.emphasis.selectorLabel.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.textShadowColor`
: hex or color name

`legend.emphasis.selectorLabel.textShadowBlur`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show`
: logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show`
: logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

`toolbox.feature.dataZoom.show`
: logical

`toolbox.feature.magicType.show`
: logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

`toolbox.emphasis.iconStyle.borderColor`
: hex

`toolbox.iconStyle.shadowBlur`
: numeric

`toolbox.iconStyle.shadowColor`
: hex

`toolbox.iconStyle.shadowOffsetX`
: numeric

`toolbox.iconStyle.shadowOffsetY`
: numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = runif(10000)), GV = sample(LETTERS, 1000, TRUE))

# Create plot
AutoPlots::Donut(
  dt = dt,
  PreAgg = TRUE,
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,
  Debug = FALSE)
```

---

e_area_full *Enhanced area Setter for echarts4r*

Description

Exposes every area* option so you don't have to hand-craft the JSON.

Usage

```
e_area_full(
  e = NULL,
  serie = NULL,
  smooth = NULL,
```

```
  showSymbol = NULL,
  areaStyle.color = NULL,
  areaStyle.opacity = NULL
)
```

Arguments

e	plot object
serie	Variable
smooth	Smooth line
showSymbol	Logical
areaStyle.color	Fill color. Can be a single color or vector of multiple colors for gradient.
areaStyle.opacity	transparency

Value

The modified echarts4r object

`e_bar_full` *Enhanced area Setter for echarts4r*

Description

Exposes every area* option so you don't have to hand-craft the JSON.

Usage

```
e_bar_full(
  e = NULL,
  serie = NULL,
  label = FALSE,
  backgroundStyle.color = NULL,
  backgroundStyle.opacity = NULL
)
```

Arguments

e	plot object
serie	Variable
label	Logical
backgroundStyle.color	Fill color. Can be a single color or vector of multiple colors for gradient.
backgroundStyle.opacity	transparency

Value

The modified echarts4r object

`e_boxplot_full` *Enhanced area Setter for echarts4r*

Description

Exposes every area* option so you don't have to hand-craft the JSON.

Usage

```
e_boxplot_full(
  e = NULL,
  serie = NULL,
  label = FALSE,
  itemStyle.color = NULL,
  itemStyle.opacity = NULL,
  itemStyle.borderColor = NULL,
  itemStyle.borderWidth = NULL,
  itemStyle.borderType = NULL,
  itemStyle.borderCap = NULL,
  itemStyle.shadowBlur = NULL,
  itemStyle.shadowColor = NULL,
  itemStyle.shadowOffsetX = NULL,
  itemStyle.shadowOffsetY = NULL
)
```

Arguments

`e`	plot object
`serie`	Variable
`label`	Logical
`itemStyle.color`	Fill color. Can be a single color or vector of multiple colors for gradient.
`itemStyle.opacity`	transparency
`itemStyle.borderColor`	hex or color name
`itemStyle.borderWidth`	numeric
`itemStyle.borderType`	'solid' 'dashed' 'dotted'
`itemStyle.borderCap`	'butt' 'round' 'square'

itemStyle.shadowBlur
: numeric

itemStyle.shadowColor
: hex or name

itemStyle.shadowOffsetX
: numeric

itemStyle.shadowOffsetY
: numeric

Value

The modified echarts4r object

---

e_data_zoom_slider_full

Enhanced DataZoom Slider Setter for echarts4r

Description

Exposes dataZoom-slider.* options so you don't have to hand-craft the JSON.

Usage

```
e_data_zoom_slider_full(
  e,
  index = NULL,
  dataZoom.id = NULL,
  dataZoom.show = TRUE,
  dataZoom.backgroundColor = NULL,
  dataZoom.fillerColor = NULL,
  dataZoom.borderColor = NULL,
  dataZoom.borderRadius = NULL,
  dataZoom.handleIcon = NULL,
  dataZoom.handleSize = NULL,
  dataZoom.handleLabel.show = NULL,
  dataZoom.moveHandleIcon = NULL,
  dataZoom.moveHandleSize = NULL,
  dataZoom.labelPrecision = NULL,
  dataZoom.labelFormatter = NULL,
  dataZoom.showDetail = NULL,
  dataZoom.showDataShadow = NULL,
  dataZoom.realtime = NULL,
  dataZoom.xAxisIndex = 0,
  dataZoom.yAxisIndex = NULL,
  dataZoom.radiusAxisIndex = NULL,
  dataZoom.angleAxisIndex = NULL,
  dataZoom.filterMode = NULL,
```

```
  dataZoom.start = NULL,
  dataZoom.end = NULL,
  dataZoom.startValue = NULL,
  dataZoom.endValue = NULL,
  dataZoom.minSpan = NULL,
  dataZoom.maxSpan = NULL,
  dataZoom.minValueSpan = NULL,
  dataZoom.maxValueSpan = NULL,
  dataZoom.orient = "horizontal",
  dataZoom.zoomLock = NULL,
  dataZoom.throttle = NULL,
  dataZoom.rangeMode = NULL,
  dataZoom.zlevel = NULL,
  dataZoom.z = NULL,
  dataZoom.left = NULL,
  dataZoom.top = NULL,
  dataZoom.right = NULL,
  dataZoom.bottom = NULL,
  dataZoom.width = NULL,
  dataZoom.height = NULL,
  dataZoom.brushSelect = NULL,
  dataZoom.dataBackground.lineStyle.color = NULL,
  dataZoom.dataBackground.lineStyle.width = NULL,
  dataZoom.dataBackground.lineStyle.type = NULL,
  dataZoom.dataBackground.lineStyle.dashOffset = NULL,
  dataZoom.dataBackground.lineStyle.cap = NULL,
  dataZoom.dataBackground.lineStyle.join = NULL,
  dataZoom.dataBackground.lineStyle.miterLimit = NULL,
  dataZoom.dataBackground.lineStyle.shadowBlur = NULL,
  dataZoom.dataBackground.lineStyle.shadowColor = NULL,
  dataZoom.dataBackground.lineStyle.shadowOffsetX = NULL,
  dataZoom.dataBackground.lineStyle.shadowOffsetY = NULL,
  dataZoom.dataBackground.lineStyle.opacity = NULL,
  dataZoom.dataBackground.areaStyle.color = NULL,
  dataZoom.dataBackground.areaStyle.shadowBlur = NULL,
  dataZoom.dataBackground.areaStyle.shadowColor = NULL,
  dataZoom.dataBackground.areaStyle.shadowOffsetX = NULL,
  dataZoom.dataBackground.areaStyle.shadowOffsetY = NULL,
  dataZoom.dataBackground.areaStyle.opacity = NULL,
  dataZoom.selectedDataBackground.lineStyle.color = NULL,
  dataZoom.selectedDataBackground.lineStyle.width = NULL,
  dataZoom.selectedDataBackground.lineStyle.type = NULL,
  dataZoom.selectedDataBackground.lineStyle.dashOffset = NULL,
  dataZoom.selectedDataBackground.lineStyle.cap = NULL,
  dataZoom.selectedDataBackground.lineStyle.join = NULL,
  dataZoom.selectedDataBackground.lineStyle.miterLimit = NULL,
  dataZoom.selectedDataBackground.lineStyle.shadowBlur = NULL,
  dataZoom.selectedDataBackground.lineStyle.shadowColor = NULL,
```

```
  dataZoom.selectedDataBackground.lineStyle.shadowOffsetX = NULL,
  dataZoom.selectedDataBackground.lineStyle.shadowOffsetY = NULL,
  dataZoom.selectedDataBackground.lineStyle.opacity = NULL,
  dataZoom.selectedDataBackground.areaStyle.color = NULL,
  dataZoom.selectedDataBackground.areaStyle.shadowBlur = NULL,
  dataZoom.selectedDataBackground.areaStyle.shadowColor = NULL,
  dataZoom.selectedDataBackground.areaStyle.shadowOffsetX = NULL,
  dataZoom.selectedDataBackground.areaStyle.shadowOffsetY = NULL,
  dataZoom.selectedDataBackground.areaStyle.opacity = NULL,
  dataZoom.handleStyle.color = NULL,
  dataZoom.handleStyle.borderColor = NULL,
  dataZoom.handleStyle.borderWidth = NULL,
  dataZoom.handleStyle.borderType = NULL,
  dataZoom.handleStyle.borderDashOffset = NULL,
  dataZoom.handleStyle.borderCap = NULL,
  dataZoom.handleStyle.borderJoin = NULL,
  dataZoom.handleStyle.borderMiterLimit = NULL,
  dataZoom.handleStyle.shadowBlur = NULL,
  dataZoom.handleStyle.shadowColor = NULL,
  dataZoom.handleStyle.shadowOffsetX = NULL,
  dataZoom.handleStyle.shadowOffsetY = NULL,
  dataZoom.handleStyle.opacity = NULL,
  dataZoom.moveHandleStyle.color = NULL,
  dataZoom.moveHandleStyle.borderColor = NULL,
  dataZoom.moveHandleStyle.borderWidth = NULL,
  dataZoom.moveHandleStyle.borderType = NULL,
  dataZoom.moveHandleStyle.borderDashOffset = NULL,
  dataZoom.moveHandleStyle.borderCap = NULL,
  dataZoom.moveHandleStyle.borderJoin = NULL,
  dataZoom.moveHandleStyle.borderMiterLimit = NULL,
  dataZoom.moveHandleStyle.shadowBlur = NULL,
  dataZoom.moveHandleStyle.shadowColor = NULL,
  dataZoom.moveHandleStyle.shadowOffsetX = NULL,
  dataZoom.moveHandleStyle.shadowOffsetY = NULL,
  dataZoom.moveHandleStyle.opacity = NULL,
  dataZoom.textStyle.color = NULL,
  dataZoom.textStyle.fontStyle = NULL,
  dataZoom.textStyle.fontWeight = NULL,
  dataZoom.textStyle.fontFamily = NULL,
  dataZoom.textStyle.fontSize = NULL,
  dataZoom.textStyle.lineHeight = NULL,
  dataZoom.textStyle.width = NULL,
  dataZoom.textStyle.height = NULL,
  dataZoom.textStyle.textBorderColor = NULL,
  dataZoom.textStyle.textBorderWidth = NULL,
  dataZoom.textStyle.textBorderType = NULL,
  dataZoom.textStyle.textBorderDashOffset = NULL,
  dataZoom.textStyle.textShadowColor = NULL,
```

```
  dataZoom.textStyle.textShadowBlur = NULL,
  dataZoom.textStyle.textShadowOffsetX = NULL,
  dataZoom.textStyle.textShadowOffsetY = NULL,
  dataZoom.textStyle.overflow = NULL,
  dataZoom.textStyle.ellipsis = NULL,
  dataZoom.brushStyle.color = NULL,
  dataZoom.brushStyle.borderColor = NULL,
  dataZoom.brushStyle.borderWidth = NULL,
  dataZoom.brushStyle.borderType = NULL,
  dataZoom.brushStyle.borderDashOffset = NULL,
  dataZoom.brushStyle.borderCap = NULL,
  dataZoom.brushStyle.borderJoin = NULL,
  dataZoom.brushStyle.borderMiterLimit = NULL,
  dataZoom.brushStyle.shadowBlur = NULL,
  dataZoom.brushStyle.shadowColor = NULL,
  dataZoom.brushStyle.shadowOffsetX = NULL,
  dataZoom.brushStyle.shadowOffsetY = NULL,
  dataZoom.brushStyle.opacity = NULL,
  dataZoom.emphasis.handleStyle.color = NULL,
  dataZoom.emphasis.handleStyle.borderColor = NULL,
  dataZoom.emphasis.handleStyle.borderWidth = NULL,
  dataZoom.emphasis.handleStyle.borderType = NULL,
  dataZoom.emphasis.handleStyle.opacity = NULL,
  dataZoom.emphasis.handleLabel.show = NULL,
  dataZoom.emphasis.moveHandleStyle.color = NULL,
  dataZoom.emphasis.moveHandleStyle.borderColor = NULL,
  dataZoom.emphasis.moveHandleStyle.borderWidth = NULL,
  dataZoom.emphasis.moveHandleStyle.borderType = NULL,
  dataZoom.emphasis.moveHandleStyle.opacity = NULL
)
```

Arguments

e	An echarts4r object
index	Which dataZoom component to target, zero-based. If NULL, append new slider.
dataZoom.id	Component ID
dataZoom.show	Whether to show the slider
dataZoom.backgroundColor	Background color
dataZoom.fillerColor	Color to fill selected area
dataZoom.borderColor	Border color
dataZoom.borderRadius	Border radius, numeric or array
dataZoom.handleIcon	Handle icon path/image

`dataZoom.handleSize`
: Handle size

`dataZoom.handleLabel.show`
: Whether to show handle label

`dataZoom.moveHandleIcon`
: Move handle icon path/image

`dataZoom.moveHandleSize`
: Move handle size

`dataZoom.labelPrecision`
: Label precision, numeric or 'auto'

`dataZoom.labelFormatter`
: Label formatter, string or JS function

`dataZoom.showDetail`
: Whether to show detail while dragging

`dataZoom.showDataShadow`
: Whether to show data shadow

`dataZoom.realtime`
: Whether to update view while dragging

`dataZoom.xAxisIndex`
: xAxis index or array of indices controlled by this slider

`dataZoom.yAxisIndex`
: yAxis index or array of indices controlled by this slider

`dataZoom.radiusAxisIndex`
: radiusAxis index or array of indices

`dataZoom.angleAxisIndex`
: angleAxis index or array of indices

`dataZoom.filterMode`
: 'filter', 'weakFilter', 'empty', 'none'

`dataZoom.start` Start percentage, 0 to 100

`dataZoom.end` End percentage, 0 to 100

`dataZoom.startValue`
: Start absolute value

`dataZoom.endValue`
: End absolute value

`dataZoom.minSpan`
: Minimum window size in percent

`dataZoom.maxSpan`
: Maximum window size in percent

`dataZoom.minValueSpan`
: Minimum window size in value units

`dataZoom.maxValueSpan`
: Maximum window size in value units

`dataZoom.orient`
: 'horizontal' or 'vertical'

`dataZoom.zoomLock`
: Whether to lock window size

`dataZoom.throttle`
: Refresh throttle in milliseconds

`dataZoom.rangeMode`
: Array such as c('value', 'percent')

`dataZoom.zlevel`
: Canvas layer zlevel

`dataZoom.z`
: Draw order z

`dataZoom.left`
: Left position

`dataZoom.top`
: Top position

`dataZoom.right`
: Right position

`dataZoom.bottom`
: Bottom position

`dataZoom.width`
: Width

`dataZoom.height`
: Height

`dataZoom.brushSelect`
: Whether to enable brush selection

`dataZoom.dataBackground.lineStyle.color`
: Data shadow line color

`dataZoom.dataBackground.lineStyle.width`
: Data shadow line width

`dataZoom.dataBackground.lineStyle.type`
: Data shadow line type

`dataZoom.dataBackground.areaStyle.color`
: Data shadow area color

`dataZoom.selectedDataBackground.lineStyle.color`
: Selected shadow line color

`dataZoom.selectedDataBackground.lineStyle.width`
: Selected shadow line width

`dataZoom.selectedDataBackground.lineStyle.type`
: Selected shadow line type

`dataZoom.selectedDataBackground.areaStyle.color`
: Selected shadow area color

`dataZoom.handleStyle.color`
: Handle color

`dataZoom.handleStyle.borderColor`
: Handle border color

`dataZoom.handleStyle.borderWidth`
: Handle border width

`dataZoom.handleStyle.borderType`
: Handle border type

`dataZoom.handleStyle.shadowBlur`
: Handle shadow blur

`dataZoom.handleStyle.shadowColor`
: Handle shadow color

`dataZoom.handleStyle.shadowOffsetX`
: Handle shadow X offset

`dataZoom.handleStyle.shadowOffsetY`
: Handle shadow Y offset

`dataZoom.handleStyle.opacity`
: Handle opacity

`dataZoom.moveHandleStyle.color`
: Move handle color

`dataZoom.moveHandleStyle.borderColor`
: Move handle border color

`dataZoom.moveHandleStyle.borderWidth`
: Move handle border width

`dataZoom.moveHandleStyle.borderType`
: Move handle border type

`dataZoom.moveHandleStyle.opacity`
: Move handle opacity

`dataZoom.textStyle.color`
: Text color

`dataZoom.textStyle.fontStyle`
: Text font style

`dataZoom.textStyle.fontWeight`
: Text font weight

`dataZoom.textStyle.fontFamily`
: Text font family

`dataZoom.textStyle.fontSize`
: Text font size

`dataZoom.textStyle.lineHeight`
: Text line height

`dataZoom.textStyle.width`
: Text block width

`dataZoom.textStyle.height`
: Text block height

`dataZoom.textStyle.overflow`
: Text overflow mode

`dataZoom.textStyle.ellipsis`
: Text ellipsis

`dataZoom.brushStyle.color`
: Brush color

`dataZoom.brushStyle.borderColor`
: Brush border color

`dataZoom.brushStyle.borderWidth`
: Brush border width

`dataZoom.brushStyle.borderType`
: Brush border type

`dataZoom.brushStyle.opacity`
: Brush opacity

Value

The modified echarts4r object

`e_density_full` *Enhanced area Setter for echarts4r*

Description

Exposes every area* option so you don't have to hand-craft the JSON.

Usage

```
e_density_full(
  e = NULL,
  serie = NULL,
  smooth = NULL,
  showSymbol = NULL,
  areaStyle.color = NULL,
  areaStyle.opacity = NULL
)
```

Arguments

`e`	plot object
`serie`	Variable
`smooth`	Smooth line
`showSymbol`	Logical
`areaStyle.color`	Fill color. Can be a single color or vector of multiple colors for gradient.
`areaStyle.opacity`	transparency

Value

The modified echarts4r object

e_grid_full *grid function*

Description

exposed parameters for grid. Use to control plot margins/size so long axis labels don't get truncated.

Usage

```
e_grid_full(
  e = NULL,
  grid.show = NULL,
  grid.left = NULL,
  grid.top = NULL,
  grid.right = NULL,
  grid.bottom = NULL,
  grid.width = NULL,
  grid.height = NULL,
  grid.containLabel = NULL,
  grid.backgroundColor = NULL,
  grid.borderColor = NULL,
  grid.borderWidth = NULL,
  grid.shadowBlur = NULL,
  grid.shadowColor = NULL,
  grid.shadowOffsetX = NULL,
  grid.shadowOffsetY = NULL,
  grid.z = NULL,
  grid.zlevel = NULL,
  grid.silent = NULL
)
```

Arguments

e	existing plot
grid.show	logical
grid.left	numeric or character px or percent
grid.top	numeric or character
grid.right	numeric or character
grid.bottom	numeric or character
grid.width	numeric or character
grid.height	numeric or character
grid.containLabel	logical (TRUE leaves space for axis labels)
grid.backgroundColor	hex or named color

`grid.borderColor`
: hex or named color

`grid.borderWidth`
: numeric

`grid.shadowBlur`
: numeric

`grid.shadowColor`
: hex or named color

`grid.shadowOffsetX`
: numeric

`grid.shadowOffsetY`
: numeric

`grid.z`
: numeric

`grid.zlevel`
: numeric

`grid.silent`
: logical

Value

The modified echarts4r object

`e_heatmap_full` *Heatmap customization*

Description

Expose most heatmap options

Usage

```
e_heatmap_full(
  e,
  y,
  z,
  itemStyle.borderColor = NULL,
  itemStyle.borderWidth = NULL,
  itemStyle.shadowColor = NULL,
  itemStyle.shadowBlur = NULL,
  itemStyle.shadowOffsetY = NULL,
  itemStyle.shadowOffsetX = NULL,
  itemStyle.opacity = NULL,
  itemStyle.borderRadius = NULL,
  emphasis.shadowColor = NULL,
  emphasis.shadowBlur = NULL,
  itemStyle.emphasis.label.show = NULL,
  itemStyle.emphasis.label.color = NULL,
  itemStyle.emphasis.label.fontStyle = NULL,
```

```
  itemStyle.emphasis.label.fontWeight = NULL,
  itemStyle.emphasis.label.fontFamily = NULL,
  itemStyle.emphasis.label.fontSize = NULL,
  itemStyle.emphasis.label.align = NULL,
  itemStyle.emphasis.label.verticalAlign = NULL,
  itemStyle.emphasis.label.backgroundColor = NULL,
  itemStyle.emphasis.label.borderColor = NULL,
  itemStyle.emphasis.label.borderWidth = NULL,
  itemStyle.emphasis.label.borderType = NULL,
  itemStyle.emphasis.label.borderRadius = NULL,
  itemStyle.emphasis.label.shadowColor = NULL,
  itemStyle.emphasis.label.shadowBlur = NULL,
  itemStyle.emphasis.label.shadowOffsetY = NULL,
  itemStyle.emphasis.label.shadowOffsetX = NULL,
  itemStyle.emphasis.label.width = NULL,
  itemStyle.emphasis.label.height = NULL,
  itemStyle.emphasis.label.textBorderColor = NULL,
  itemStyle.emphasis.label.textBorderWidth = NULL,
  itemStyle.emphasis.label.textShadowColor = NULL,
  itemStyle.emphasis.label.textShadowBlur = NULL,
  itemStyle.emphasis.label.textShadowOffsetY = NULL,
  itemStyle.emphasis.label.textShadowOffsetX = NULL,
  label.show = NULL,
  label.color = NULL,
  label.fontStyle = NULL,
  label.fontWeight = NULL,
  label.fontFamily = NULL,
  label.fontSize = NULL,
  label.align = NULL,
  label.verticalAlign = NULL,
  label.backgroundColor = NULL,
  label.borderColor = NULL,
  label.borderWidth = NULL,
  label.borderType = NULL,
  label.borderRadius = NULL,
  label.shadowColor = NULL,
  label.shadowBlur = NULL,
  label.shadowOffsetY = NULL,
  label.shadowOffsetX = NULL,
  label.width = NULL,
  label.height = NULL,
  label.textBorderColor = NULL,
  label.textBorderWidth = NULL,
  label.textShadowColor = NULL,
  label.textShadowBlur = NULL,
  label.textShadowOffsetY = NULL,
  label.textShadowOffsetX = NULL
)
```

Arguments

e	existing plot variable
y	YVar
z	ZVar
itemStyle.borderColor	hex or name
itemStyle.borderWidth	number
itemStyle.shadowColor	hex or name
itemStyle.shadowBlur	number
itemStyle.shadowOffsetY	number
itemStyle.shadowOffsetX	number
itemStyle.opacity	decimal
itemStyle.borderRadius	number
emphasis.shadowColor	hex or name
emphasis.shadowBlur	number
itemStyle.emphasis.label.show	logical
itemStyle.emphasis.label.color	hex or name
itemStyle.emphasis.label.fontStyle	'normal' 'italic' 'oblique'
itemStyle.emphasis.label.fontWeight	'normal' 'bold' 'bolder' 'lighter'
itemStyle.emphasis.label.fontFamily	'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
itemStyle.emphasis.label.fontSize	number
itemStyle.emphasis.label.align	'left' 'center' 'right'
itemStyle.emphasis.label.verticalAlign	'top' 'middle' 'bottom'
itemStyle.emphasis.label.backgroundColor	hex or name
itemStyle.emphasis.label.borderColor	hex or name

itemStyle.emphasis.label.borderWidth
: number

itemStyle.emphasis.label.borderType
: 'solid' 'dashed' 'dotted'

itemStyle.emphasis.label.borderRadius
: number

itemStyle.emphasis.label.shadowColor
: hex or name

itemStyle.emphasis.label.shadowBlur
: number

itemStyle.emphasis.label.shadowOffsetY
: number

itemStyle.emphasis.label.shadowOffsetX
: number

itemStyle.emphasis.label.width
: number

itemStyle.emphasis.label.height
: number

itemStyle.emphasis.label.textBorderColor
: hex or name

itemStyle.emphasis.label.textBorderWidth
: number

itemStyle.emphasis.label.textShadowColor
: hex or name

itemStyle.emphasis.label.textShadowBlur
: number

itemStyle.emphasis.label.textShadowOffsetY
: number

itemStyle.emphasis.label.textShadowOffsetX
: number

label.show
: logical

label.color
: hex or name

label.fontStyle
: 'normal' 'italic' 'oblique'

label.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

label.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

label.fontSize
: number

label.align
: 'left' 'center' 'right'

label.verticalAlign
: 'top' 'middle' 'bottom'

label.backgroundColor
: hex or name

label.borderColor
: hex or name

label.borderWidth
: number

label.borderType
: 'solid' 'dashed' 'dotted'

label.borderRadius
: number

label.shadowColor
: hex or name

label.shadowBlur
: number

label.shadowOffsetY
: number

label.shadowOffsetX
: number

label.width
: number

label.height
: number

label.textBorderColor
: hex or name

label.textBorderWidth
: number

label.textShadowColor
: hex or name

label.textShadowBlur
: number

label.textShadowOffsetY
: number

label.textShadowOffsetX
: number

Value

The modified echarts4r object

`e_legend_full` *Enhanced Legend Setter for echarts4r*

Description

Exposes every legend.* option so you don't have to hand-craft the JSON.

Usage

```
e_legend_full(
  e = NULL,
  legend.show = FALSE,
  legend.type = "scroll",
  legend.selector = "all",
  legend.icon = NULL,
  legend.align = "auto",
  legend.padding = c(5, 10, 5, 10),
  legend.itemGap = 10,
  legend.itemWidth = 25,
  legend.orient = "horizontal",
  legend.width = NULL,
  legend.height = "240px",
  legend.left = NULL,
  legend.right = 50,
  legend.top = 40,
  legend.bottom = NULL,
  legend.backgroundColor = NULL,
  legend.borderColor = NULL,
  legend.borderWidth = NULL,
  legend.borderRadius = NULL,
  legend.shadowBlur = NULL,
  legend.shadowColor = NULL,
  legend.shadowOffsetX = NULL,
  legend.shadowOffsetY = NULL,
  legend.itemStyle.color = NULL,
  legend.itemStyle.borderColor = NULL,
  legend.itemStyle.borderWidth = NULL,
  legend.itemStyle.borderType = NULL,
  legend.itemStyle.shadowBlur = NULL,
  legend.itemStyle.shadowColor = NULL,
  legend.itemStyle.shadowOffsetX = NULL,
  legend.itemStyle.shadowOffsetY = NULL,
  legend.itemStyle.opacity = NULL,
  legend.lineStyle.color = NULL,
  legend.lineStyle.width = NULL,
  legend.lineStyle.type = NULL,
  legend.lineStyle.shadowBlur = NULL,
  legend.lineStyle.shadowColor = NULL,
  legend.lineStyle.shadowOffsetX = NULL,
  legend.lineStyle.shadowOffsetY = NULL,
  legend.lineStyle.opacity = NULL,
  legend.lineStyle.inactiveColor = NULL,
  legend.lineStyle.inactiveWidth = NULL,
  legend.textStyle.color = NULL,
  legend.textStyle.fontStyle = NULL,
  legend.textStyle.fontWeight = NULL,
```

```
  legend.textStyle.fontFamily = NULL,
  legend.textStyle.fontSize = NULL,
  legend.textStyle.backgroundColor = NULL,
  legend.textStyle.borderColor = NULL,
  legend.textStyle.borderWidth = NULL,
  legend.textStyle.borderType = NULL,
  legend.textStyle.borderRadius = NULL,
  legend.textStyle.padding = NULL,
  legend.textStyle.shadowColor = NULL,
  legend.textStyle.shadowBlur = NULL,
  legend.textStyle.shadowOffsetX = NULL,
  legend.textStyle.shadowOffsetY = NULL,
  legend.textStyle.width = NULL,
  legend.textStyle.height = NULL,
  legend.textStyle.textBorderColor = NULL,
  legend.textStyle.textBorderWidth = NULL,
  legend.textStyle.textBorderType = NULL,
  legend.textStyle.textShadowColor = NULL,
  legend.textStyle.textShadowBlur = NULL,
  legend.textStyle.textShadowOffsetX = NULL,
  legend.textStyle.textShadowOffsetY = NULL,
  legend.pageTextStyle.color = NULL,
  legend.pageTextStyle.fontStyle = NULL,
  legend.pageTextStyle.fontWeight = NULL,
  legend.pageTextStyle.fontFamily = NULL,
  legend.pageTextStyle.fontSize = NULL,
  legend.pageTextStyle.lineHeight = NULL,
  legend.pageTextStyle.width = NULL,
  legend.pageTextStyle.height = NULL,
  legend.pageTextStyle.textBorderColor = NULL,
  legend.pageTextStyle.textBorderWidth = NULL,
  legend.pageTextStyle.textBorderType = NULL,
  legend.pageTextStyle.textShadowColor = NULL,
  legend.pageTextStyle.textShadowBlur = NULL,
  legend.pageTextStyle.textShadowOffsetX = NULL,
  legend.pageTextStyle.textShadowOffsetY = NULL,
  legend.emphasis.selectorLabel.show = NULL,
  legend.emphasis.selectorLabel.distance = NULL,
  legend.emphasis.selectorLabel.rotate = NULL,
  legend.emphasis.selectorLabel.color = NULL,
  legend.emphasis.selectorLabel.fontStyle = NULL,
  legend.emphasis.selectorLabel.fontWeight = NULL,
  legend.emphasis.selectorLabel.fontFamily = NULL,
  legend.emphasis.selectorLabel.fontSize = NULL,
  legend.emphasis.selectorLabel.align = NULL,
  legend.emphasis.selectorLabel.verticalAlign = NULL,
  legend.emphasis.selectorLabel.lineHeight = NULL,
  legend.emphasis.selectorLabel.backgroundColor = NULL,
```

```
  legend.emphasis.selectorLabel.borderColor = NULL,
  legend.emphasis.selectorLabel.borderWidth = NULL,
  legend.emphasis.selectorLabel.borderType = NULL,
  legend.emphasis.selectorLabel.borderRadius = NULL,
  legend.emphasis.selectorLabel.padding = NULL,
  legend.emphasis.selectorLabel.shadowColor = NULL,
  legend.emphasis.selectorLabel.shadowBlur = NULL,
  legend.emphasis.selectorLabel.shadowOffsetX = NULL,
  legend.emphasis.selectorLabel.shadowOffsetY = NULL,
  legend.emphasis.selectorLabel.width = NULL,
  legend.emphasis.selectorLabel.height = NULL,
  legend.emphasis.selectorLabel.textBorderColor = NULL,
  legend.emphasis.selectorLabel.textBorderWidth = NULL,
  legend.emphasis.selectorLabel.textBorderType = NULL,
  legend.emphasis.selectorLabel.textShadowColor = NULL,
  legend.emphasis.selectorLabel.textShadowBlur = NULL,
  legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
  legend.emphasis.selectorLabel.textShadowOffsetY = NULL
)
```

Arguments

e	An echarts4r object
legend.show	logical
legend.type	'scroll' 'plain'
legend.selector	logical
legend.icon	'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'
legend.align	'auto' 'left' 'right'
legend.padding	numeric
legend.itemGap	numeric
legend.itemWidth	numeric
legend.orient	'vertical' 'horizontal'
legend.width	numeric
legend.height	numeric
legend.left	numeric
legend.right	numeric
legend.top	numeric
legend.bottom	numeric
legend.backgroundColor	hex or color name
legend.borderColor	hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

Value

The modified echarts4r object

`e_line_full` *Enhanced line Setter for echarts4r*

Description

Exposes line* option so you don't have to hand-craft the JSON.

Usage

```
e_line_full(
  e = NULL,
  serie = NULL,
  y_index = 0,
  x_index = 0,
  smooth = NULL,
  showSymbol = NULL,
  label = NULL,
  lineStyle.width = NULL,
  lineStyle.type = NULL,
  lineStyle.shadowColor = NULL,
  lineStyle.shadowBlur = NULL,
  lineStyle.shadowOffsetX = NULL,
  lineStyle.shadowOffsetY = NULL
)
```

Arguments

`e`	plot object
`serie`	Variable
`y_index`	default 0
`x_index`	default 0
`smooth`	Smooth line
`showSymbol`	Logical
`label`	logical
`lineStyle.width`	numeric
`lineStyle.type`	'solid' 'dashed' 'dotted'
`lineStyle.shadowColor`	hex or color
`lineStyle.shadowBlur`	numeric

lineStyle.shadowOffsetX
: numeric

lineStyle.shadowOffsetY
: numeric

Value

The modified echarts4r object

`e_parallel_full` *Parallel customization*

Description

Expose most parallel options

Usage

```
e_parallel_full(
  e,
  vars,
  rm_x = TRUE,
  rm_y = TRUE,
  lineStyle.color = NULL,
  lineStyle.width = NULL,
  lineStyle.type = NULL,
  lineStyle.shadowBlur = NULL,
  lineStyle.shadowColor = NULL,
  lineStyle.shadowOffsetX = NULL,
  lineStyle.shadowOffsetY = NULL,
  lineStyle.opacity = NULL,
  lineStyle.emphasis.color = NULL,
  lineStyle.emphasis.width = NULL,
  lineStyle.emphasis.type = NULL,
  lineStyle.emphasis.shadowBlur = NULL,
  lineStyle.emphasis.shadowColor = NULL,
  lineStyle.emphasis.shadowOffsetX = NULL,
  lineStyle.emphasis.shadowOffsetY = NULL,
  lineStyle.emphasis.opacity = NULL
)
```

Arguments

e	plot
vars	character vector
rm_x	logical
rm_y	logical

`lineStyle.color`
: hex or color

`lineStyle.width`
: number

`lineStyle.type` 'solid' 'dashed' 'dotted'

`lineStyle.shadowBlur`
: number

`lineStyle.shadowColor`
: hex or color

`lineStyle.shadowOffsetX`
: number

`lineStyle.shadowOffsetY`
: number

`lineStyle.opacity`
: decimal

`lineStyle.emphasis.color`
: hex or color

`lineStyle.emphasis.width`
: number

`lineStyle.emphasis.type`
: 'solid' 'dashed' 'dotted'

`lineStyle.emphasis.shadowBlur`
: number

`lineStyle.emphasis.shadowColor`
: hex or color

`lineStyle.emphasis.shadowOffsetX`
: number

`lineStyle.emphasis.shadowOffsetY`
: number

`lineStyle.emphasis.opacity`
: decimal

Value

The modified echarts4r object

`e_step_full` *Enhanced step Setter for echarts4r*

Description

Exposes step* option so you don't have to hand-craft the JSON.

Usage

```
e_step_full(
  e = NULL,
  serie = NULL,
  y_index = 0,
  x_index = 0,
  showSymbol = NULL,
  label = NULL,
  lineStyle.width = NULL,
  lineStyle.type = NULL,
  lineStyle.shadowColor = NULL,
  lineStyle.shadowBlur = NULL,
  lineStyle.shadowOffsetX = NULL,
  lineStyle.shadowOffsetY = NULL
)
```

Arguments

e	plot object
serie	Variable
y_index	default 0
x_index	default 0
showSymbol	Logical
label	logical
lineStyle.width	numeric
lineStyle.type	'solid' 'dashed' 'dotted'
lineStyle.shadowColor	hex or color
lineStyle.shadowBlur	numeric
lineStyle.shadowOffsetX	numeric
lineStyle.shadowOffsetY	numeric

Value

The modified echarts4r object

e_title_full *Enhanced Title Setter for echarts4r*

Description

Exposes every title.* option so you don't have to hand-craft the JSON.

Usage

```
e_title_full(
  e = NULL,
  title.text = NULL,
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = NULL,
  title.top = NULL,
  title.left = NULL,
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = NULL,
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
```

```
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = NULL,
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL
)
```

Arguments

e	An echarts4r object
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric

title.shadowOffsetX
: numeric

title.shadowOffsetY
: numeric

title.textStyle.color
: hex or name

title.textStyle.fontStyle
: 'normal' 'italic' 'oblique'

title.textStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

title.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.textStyle.fontSize
: numeric

title.textStyle.lineHeight
: numeric

title.textStyle.width
: numeric

title.textStyle.height
: numeric

title.textStyle.textBorderColor
: hex or name

title.textStyle.textBorderWidth
: numeric

title.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.textStyle.textBorderDashOffset
: numeric

title.textStyle.textShadowColor
: hex or name

title.textStyle.textShadowBlur
: numeric

title.textStyle.textShadowOffsetX
: numeric

title.textStyle.textShadowOffsetY
: numeric

title.subtextStyle.color
: hex or name

title.subtextStyle.align
: 'auto' 'left' 'right' 'center'

title.subtextStyle.fontStyle
: 'normal' 'italic' 'oblique'

title.subtextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

Value

The modified echarts4r object

`e_toolbox_full` *toolbox function*

Description

exposed parameters for toolbox

Usage

```
e_toolbox_full(
  e = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
```

```
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL
)
```

Arguments

e	existing plot
toolbox.show	logical
toolbox.orient	"horizontal" or "vertical"
toolbox.itemSize	Default 15
toolbox.itemGap	Default 8
toolbox.top	numeric
toolbox.left	numeric
toolbox.right	numeric
toolbox.bottom	numeric
toolbox.width	numeric
toolbox.heigth	numeric
toolbox.feature.saveAsImage.show	logical
toolbox.feature.restore.show	logical
toolbox.feature.dataZoom.show	logical
toolbox.feature.magicType.show	logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

`toolbox.emphasis.iconStyle.borderColor`
: hex

`toolbox.iconStyle.shadowBlur`
: numeric

`toolbox.iconStyle.shadowColor`
: hex

`toolbox.iconStyle.shadowOffsetX`
: numeric

`toolbox.iconStyle.shadowOffsetY`
: numeric

Value

The modified echarts4r object

`e_toolbox_panel` *Accessible chart controls outside the plotting area*

Description

Adds named keyboard/touch controls for selection zoom, reset and PNG export. More tools reveals the existing native ECharts toolbox; no analytical values or series are changed. The chart resizes within its original widget bounds. Native toolbox icons retain ECharts' own interaction/accessibility limits.

Usage

```
e_toolbox_panel(e)
```

Arguments

`e`	An echarts4r widget with an existing toolbox.

Value

The widget, with a presentation-only render hook.

e_tooltip_full *Enhanced Tooltip Setter for echarts4r*

Description

Exposes every tooltip.* option so you don't have to hand-craft the JSON.

Usage

```
e_tooltip_full(
  e,
  tooltip.show = TRUE,
  tooltip.trigger = "axis",
  tooltip.backgroundColor = NULL,
  tooltip.borderColor = NULL,
  tooltip.borderWidth = NULL,
  tooltip.padding = NULL,
  tooltip.axisPointer.type = "cross",
  tooltip.axisPointer.lineStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
  tooltip.axisPointer.shadowStyle.opacity = NULL,
  tooltip.textStyle.color = NULL,
  tooltip.textStyle.fontStyle = NULL,
  tooltip.textStyle.fontWeight = NULL,
  tooltip.textStyle.fontFamily = NULL,
  tooltip.textStyle.lineHeight = NULL,
  tooltip.textStyle.width = NULL,
  tooltip.textStyle.height = NULL,
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL
)
```

Arguments

e	An echarts4r object
tooltip.show	logical
tooltip.trigger	"cross" "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

tooltip.textStyle.textShadowOffsetX
: numeric

tooltip.textStyle.textShadowOffsetY
: numeric

Value

The modified echarts4r object

`e_treemap_full` *Extended treemap helper for* `echarts4r`

Description

This is a thin wrapper around `echarts4r::e_treemap()` that exposes a large portion of the treemap series options as R arguments so that AutoPlots can drive them from UI controls.

Usage

```
e_treemap_full(
  e,
  name = NULL,
  GroupVars = NULL,
  squareRatio = NULL,
  leafDepth = NULL,
  drillDownIcon = NULL,
  roam = NULL,
  scaleLimit.min = NULL,
  scaleLimit.max = NULL,
  nodeClick = NULL,
  zoomToNodeRatio = NULL,
  visualDimension = NULL,
  visualMin = NULL,
  visualMax = NULL,
  colorAlpha = NULL,
  colorSaturation = NULL,
  colorMappingBy = NULL,
  visibleMin = NULL,
  childrenVisibleMin = NULL,
  label.show = NULL,
  label.position = NULL,
  label.distance = NULL,
  label.rotate = NULL,
  label.offset = NULL,
  label.textMargin = NULL,
  label.minMargin = NULL,
  label.formatter = NULL,
```

```
label.color = NULL,
label.fontStyle = NULL,
label.fontWeight = NULL,
label.fontFamily = NULL,
label.fontSize = NULL,
label.align = NULL,
label.verticalAlign = NULL,
label.lineHeight = NULL,
label.backgroundColor = NULL,
label.borderColor = NULL,
label.borderWidth = NULL,
label.borderType = NULL,
label.borderDashOffset = NULL,
label.borderRadius = NULL,
label.padding = NULL,
label.shadowColor = NULL,
label.shadowBlur = NULL,
label.shadowOffsetX = NULL,
label.shadowOffsetY = NULL,
label.width = NULL,
label.height = NULL,
label.textBorderColor = NULL,
label.textBorderWidth = NULL,
label.textBorderType = NULL,
label.textBorderDashOffset = NULL,
label.textShadowColor = NULL,
label.textShadowBlur = NULL,
label.textShadowOffsetX = NULL,
label.textShadowOffsetY = NULL,
label.overflow = NULL,
label.ellipsis = NULL,
label.rich = NULL,
label.richInheritPlainLabel = NULL,
upperLabel.show = NULL,
upperLabel.position = NULL,
upperLabel.distance = NULL,
upperLabel.rotate = NULL,
upperLabel.offset = NULL,
upperLabel.formatter = NULL,
upperLabel.color = NULL,
upperLabel.fontStyle = NULL,
upperLabel.fontWeight = NULL,
upperLabel.fontFamily = NULL,
upperLabel.fontSize = NULL,
upperLabel.align = NULL,
upperLabel.verticalAlign = NULL,
upperLabel.lineHeight = NULL,
upperLabel.backgroundColor = NULL,
```

```
  upperLabel.borderColor = NULL,
  upperLabel.borderWidth = NULL,
  upperLabel.borderType = NULL,
  upperLabel.borderDashOffset = NULL,
  upperLabel.borderRadius = NULL,
  upperLabel.padding = NULL,
  upperLabel.shadowColor = NULL,
  upperLabel.shadowBlur = NULL,
  upperLabel.shadowOffsetX = NULL,
  upperLabel.shadowOffsetY = NULL,
  upperLabel.width = NULL,
  upperLabel.height = NULL,
  upperLabel.textBorderColor = NULL,
  upperLabel.textBorderWidth = NULL,
  upperLabel.textBorderType = NULL,
  upperLabel.textBorderDashOffset = NULL,
  upperLabel.textShadowColor = NULL,
  upperLabel.textShadowBlur = NULL,
  upperLabel.textShadowOffsetX = NULL,
  upperLabel.textShadowOffsetY = NULL,
  upperLabel.overflow = NULL,
  upperLabel.ellipsis = NULL,
  upperLabel.rich = NULL,
  upperLabel.richInheritPlainLabel = NULL,
  itemStyle.color = NULL,
  itemStyle.borderRadius = NULL,
  itemStyle.borderWidth = NULL,
  itemStyle.gapWidth = NULL,
  itemStyle.borderColor = NULL,
  itemStyle.borderColorSaturation = NULL,
  itemStyle.shadowBlur = NULL,
  itemStyle.shadowColor = NULL,
  itemStyle.shadowOffsetX = NULL,
  itemStyle.shadowOffsetY = NULL,
  itemStyle.opacity = NULL,
  itemStyle.decal = NULL,
  emphasis.disabled = FALSE,
  emphasis.focus = "ancestor",
  emphasis.blurScope = "coordinateSystem",
  emphasis.label = NULL,
  emphasis.labelLine = NULL,
  emphasis.upperLabel = NULL,
  emphasis.itemStyle.color = NULL,
  emphasis.itemStyle.borderColor = "rgba(255,255,255,0.95)",
  emphasis.itemStyle.borderWidth = 2,
  emphasis.itemStyle.shadowBlur = 20,
  emphasis.itemStyle.shadowColor = "rgba(255,255,255,0.70)",
  emphasis.itemStyle.shadowOffsetX = 0,
```

```
  emphasis.itemStyle.shadowOffsetY = 0,
  emphasis.itemStyle.opacity = 1,
  blur.label = NULL,
  blur.labelLine = NULL,
  blur.upperLabel = NULL,
  blur.itemStyle.color = NULL,
  blur.itemStyle.borderColor = NULL,
  blur.itemStyle.borderWidth = NULL,
  blur.itemStyle.shadowBlur = NULL,
  blur.itemStyle.shadowColor = NULL,
  blur.itemStyle.shadowOffsetX = NULL,
  blur.itemStyle.shadowOffsetY = NULL,
  blur.itemStyle.opacity = 0.35,
  breadcrumb.show = NULL,
  breadcrumb.left = NULL,
  breadcrumb.top = NULL,
  breadcrumb.right = NULL,
  breadcrumb.bottom = NULL,
  breadcrumb.height = NULL,
  breadcrumb.emptyItemWidth = NULL,
  breadcrumb.itemStyle.color = NULL,
  breadcrumb.itemStyle.borderColor = NULL,
  breadcrumb.itemStyle.borderWidth = NULL,
  breadcrumb.itemStyle.borderRadius = NULL,
  breadcrumb.itemStyle.shadowBlur = NULL,
  breadcrumb.itemStyle.shadowColor = NULL,
  breadcrumb.itemStyle.shadowOffsetX = NULL,
  breadcrumb.itemStyle.shadowOffsetY = NULL,
  breadcrumb.itemStyle.textStyle.color = NULL,
  breadcrumb.itemStyle.textStyle.fontSize = NULL,
  breadcrumb.itemStyle.textStyle.fontFamily = NULL,
  breadcrumb.emphasis.borderColor = NULL,
  breadcrumb.emphasis.borderWidth = NULL,
  breadcrumb.emphasis.shadowBlur = NULL,
  breadcrumb.emphasis.shadowColor = NULL,
  breadcrumb.emphasis.shadowOffsetX = NULL,
  breadcrumb.emphasis.shadowOffsetY = NULL,
  breadcrumb.emphasis.textStyle.color = NULL,
  breadcrumb.emphasis.textStyle.fontSize = NULL,
  breadcrumb.emphasis.textStyle.fontFamily = NULL,
  silent = NULL,
  animationDuration = NULL,
  animationEasing = NULL,
  animationDelay = NULL,
  tooltip = NULL,
  cursor = NULL
)
```

Arguments

e	An echarts4r object to which the treemap series will be added.
name	Optional series name used in the legend and tooltip.
GroupVars	Character vector of grouping variables used to build the hierarchical treemap structure (ordered from top level to leaf level).
squareRatio	Numeric squarify aspect ratio for the treemap layout.
leafDepth	Integer maximum depth of nodes to display. Typically length(GroupVars) when using all levels.
drillDownIcon	Character string for the drill-down icon.
roam	Logical or character; controls whether panning/zooming is enabled. Can be FALSE, TRUE, "scale", or "move". Maps to ECharts series.treemap.roam.
scaleLimit.min	Optional numeric; minimum zoom scale for the treemap (ECharts series.treemap.scaleLimit.min).
scaleLimit.max	Optional numeric; maximum zoom scale for the treemap (ECharts series.treemap.scaleLimit.max).
nodeClick	Character specifying the behaviour when a node is clicked. Common values: "zoomToNode", "link", "false" (string) to disable.
zoomToNodeRatio	Numeric zoom ratio when using nodeClick = "zoomToNode".
visualDimension	Integer or character specifying which dimension is used for visual mapping (e.g. index of dimension or its name).
visualMin	Numeric; minimum of the visual mapping range for the selected visualDimension.
visualMax	Numeric; maximum of the visual mapping range for the selected visualDimension.
colorAlpha	Optional numeric length-2 vector for alpha channel range (e.g. c(0.3, 1)).
colorSaturation	Optional numeric length-2 vector for color saturation range (e.g. c(0.3, 1)).
colorMappingBy	Character specifying how colors are mapped. Typically "index" or "value".
visibleMin	Numeric threshold that hides nodes whose area is smaller than this value.
childrenVisibleMin	Numeric threshold that hides children nodes whose area is smaller than this value.
label.show	Logical; whether node labels are shown (ECharts label.show).
label.position	Character; position of the label relative to the node. Common values: "top", "left", "right", "bottom", "inside", "insideLeft", "insideRight", etc.
label.distance	Numeric or integer; distance to the element when label is outside the node (ECharts label.distance).
label.rotate	Numeric or character; rotation of label text in degrees or "radial", "tangential" depending on context.
label.offset	Numeric/integer vector or list; x/y offset of label from its default position (ECharts label.offset).
label.textMargin	Numeric/integer; extra margin around label text box.

label.minMargin
: Numeric/integer; minimum margin between label and node edge.

label.formatter
: Character or list; text formatter for labels (string template or JS function).

label.color
: Character; text color of labels.

label.fontStyle
: Character; label font style. Common values: "normal", "italic", "oblique".

label.fontWeight
: Character or numeric; label font weight. E.g. "normal", "bold", "bolder", "lighter", or numeric weights like 400, 700.

label.fontFamily
: Character; label font family name.

label.fontSize
: Numeric/integer; label font size (px).

label.align
: Character; horizontal alignment of label text. One of "left", "center", "right".

label.verticalAlign
: Character; vertical alignment of label text. One of "top", "middle", "bottom".

label.lineHeight
: Numeric/integer; line height of label text.

label.backgroundColor
: Character or list; background color for label (or style object).

label.borderColor
: Character; label border color.

label.borderWidth
: Numeric/integer; label border width (px).

label.borderType
: Character or numeric; border type for label. E.g. "solid", "dashed", "dotted" or numeric pattern.

label.borderDashOffset
: Numeric; dash offset for dashed label border.

label.borderRadius
: Numeric/integer or vector; corner radius for label background.

label.padding
: Numeric/integer or vector; padding inside label box.

label.shadowColor
: Character; shadow color of label box.

label.shadowBlur
: Numeric/integer; shadow blur radius for label.

label.shadowOffsetX
: Numeric/integer; horizontal shadow offset.

label.shadowOffsetY
: Numeric/integer; vertical shadow offset.

label.width
: Numeric/integer or character; forced label width.

label.height
: Numeric/integer or character; forced label height.

label.textBorderColor
: Character; color of text stroke (outline).

label.textBorderWidth
: Numeric/integer; width of text stroke.

label.textBorderType
: Character or numeric; border type of text stroke ("solid", "dashed", etc.).

label.textBorderDashOffset
: Numeric; dash offset for text stroke.

label.textShadowColor
: Character; color of text shadow.

label.textShadowBlur
: Numeric/integer; blur radius of text shadow.

label.textShadowOffsetX
: Numeric/integer; horizontal text shadow offset.

label.textShadowOffsetY
: Numeric/integer; vertical text shadow offset.

label.overflow
: Character; how to handle text overflow. Common values: "truncate", "break", "breakAll".

label.ellipsis
: Character; string used as ellipsis when truncating text.

label.rich
: List; rich text styles object for label rich text.

label.richInheritPlainLabel
: Logical; whether rich text inherits plain label styles.

upperLabel.show
: Logical; whether upper-level labels are shown (ECharts upperLabel.show).

upperLabel.position
: Character; position of the upper-level label. Same options as label.position.

upperLabel.distance
: Numeric/integer; distance to element when upper label is outside the node.

upperLabel.rotate
: Numeric or character; rotation of upper-level label.

upperLabel.offset
: Numeric/integer vector or list; offset for upper-level label position.

upperLabel.formatter
: Character or list; formatter for upper-level labels (string template or JS function).

upperLabel.color
: Character; text color of upper-level labels.

upperLabel.fontStyle
: Character; font style for upper-level labels ("normal", "italic", etc.).

upperLabel.fontWeight
: Character or numeric; font weight for upper-level labels.

upperLabel.fontFamily
: Character; font family for upper-level labels.

upperLabel.fontSize
: Numeric/integer; font size for upper-level labels.

upperLabel.align
: Character; horizontal alignment of upper-level text.

upperLabel.verticalAlign
: Character; vertical alignment of upper-level text.

upperLabel.lineHeight
: Numeric/integer; line height of upper-level text.

upperLabel.backgroundColor
: Character or list; background color for upper-level label box.

upperLabel.borderColor
: Character; border color for upper-level label.

upperLabel.borderWidth
: Numeric/integer; border width for upper-level label.

upperLabel.borderType
: Character or numeric; border type for upper-level label.

upperLabel.borderDashOffset
: Numeric; dash offset for upper-level label border.

upperLabel.borderRadius
: Numeric/integer or vector; border radius for upper-level label box.

upperLabel.padding
: Numeric/integer or vector; padding for upper-level label box.

upperLabel.shadowColor
: Character; shadow color for upper-level label.

upperLabel.shadowBlur
: Numeric/integer; shadow blur for upper-level label.

upperLabel.shadowOffsetX
: Numeric/integer; horizontal shadow offset for upper-level label.

upperLabel.shadowOffsetY
: Numeric/integer; vertical shadow offset for upper-level label.

upperLabel.width
: Numeric/integer or character; forced width for upper-level label.

upperLabel.height
: Numeric/integer or character; forced height for upper-level label.

upperLabel.textBorderColor
: Character; text stroke color for upper-level label.

upperLabel.textBorderWidth
: Numeric/integer; text stroke width for upper-level label.

upperLabel.textBorderType
: Character or numeric; text stroke type for upper-level label.

upperLabel.textBorderDashOffset
: Numeric; dash offset for upper-level text stroke.

upperLabel.textShadowColor
: Character; text shadow color for upper-level label.

upperLabel.textShadowBlur
: Numeric/integer; text shadow blur for upper-level label.

upperLabel.textShadowOffsetX
: Numeric/integer; horizontal text shadow offset for upper-level label.

upperLabel.textShadowOffsetY
: Numeric/integer; vertical text shadow offset for upper-level label.

upperLabel.overflow
: Character; overflow behaviour for upper-level text ("truncate", "break", etc.).

upperLabel.ellipsis
: Character; ellipsis string for upper-level text.

upperLabel.rich
: List; rich text styles object for upper-level labels.

upperLabel.richInheritPlainLabel
: Logical; whether rich text styles for upper-level labels inherit plain label styles.

itemStyle.color
: Character or list; node color or style object for itemStyle.color.

itemStyle.borderRadius
: Numeric/integer or vector; border radius for node rectangles.

itemStyle.borderWidth
: Numeric/integer; border width of node rectangles.

itemStyle.gapWidth
: Numeric/integer; gap width between nodes.

itemStyle.borderColor
: Character; border color of node rectangles.

itemStyle.borderColorSaturation
: Numeric; saturation adjustment of border color when colorSaturation is used.

itemStyle.shadowBlur
: Numeric/integer; blur radius for node shadow.

itemStyle.shadowColor
: Character; shadow color for nodes.

itemStyle.shadowOffsetX
: Numeric/integer; horizontal node shadow offset.

itemStyle.shadowOffsetY
: Numeric/integer; vertical node shadow offset.

itemStyle.opacity
: Numeric in [0, 1]; opacity of nodes.

itemStyle.decal
: List; decal pattern options for nodes.

emphasis.disabled
: Logical; whether emphasis (hover) is disabled for this series.

emphasis.focus
: Character; focus mode when hovering. Typical values: "none", "self", "ancestor", "descendant".

emphasis.blurScope
: Character; blur scope of non-focused elements. Common values: "coordinateSystem", "series", "global".

emphasis.label
: List; label options applied in emphasis state (overrides label when hovered).

emphasis.labelLine
: List; label line options in emphasis state.

emphasis.upperLabel
: List; upper-level label options in emphasis state.

emphasis.itemStyle.color
: Character or NULL; fill color for treemap nodes in the emphasis (hover) state. Maps to emphasis.itemStyle.color.

emphasis.itemStyle.borderColor
: Character or NULL; border color for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.borderColor.

emphasis.itemStyle.borderWidth
: Numeric or NULL; border width (in pixels) for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.borderWidth.

emphasis.itemStyle.shadowBlur
: Numeric or NULL; blur radius for the drop shadow of treemap nodes in the emphasis state. Maps to emphasis.itemStyle.shadowBlur.

emphasis.itemStyle.shadowColor
: Character or NULL; shadow color for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.shadowColor.

emphasis.itemStyle.shadowOffsetX
: Numeric or NULL; horizontal offset (in pixels) of the shadow for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.shadowOffsetX.

emphasis.itemStyle.shadowOffsetY
: Numeric or NULL; vertical offset (in pixels) of the shadow for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.shadowOffsetY.

emphasis.itemStyle.opacity
: Numeric or NULL; opacity of treemap nodes in the emphasis state, typically a value in [0, 1]. Maps to emphasis.itemStyle.opacity.

blur.label
: List; label options in blur state (when other items are focused).

blur.labelLine
: List; label line options in blur state.

blur.upperLabel
: List; upper-level label options in blur state.

blur.itemStyle.color
: Character or NULL; fill color for treemap nodes in the blur (de-emphasized) state when other nodes are highlighted. Maps to blur.itemStyle.color.

blur.itemStyle.borderColor
: Character or NULL; border color for treemap nodes in the blur state. Maps to blur.itemStyle.borderColor.

blur.itemStyle.borderWidth
: Numeric or NULL; border width (in pixels) for treemap nodes in the blur state. Maps to blur.itemStyle.borderWidth.

blur.itemStyle.shadowBlur
: Numeric or NULL; blur radius for the drop shadow of treemap nodes in the blur state. Maps to blur.itemStyle.shadowBlur.

blur.itemStyle.shadowColor
: Character or NULL; shadow color for treemap nodes in the blur state. Maps to blur.itemStyle.shadowColor.

`blur.itemStyle.shadowOffsetX`
: Numeric or NULL; horizontal shadow offset (in pixels) for treemap nodes in the blur state. Maps to `blur.itemStyle.shadowOffsetX`.

`blur.itemStyle.shadowOffsetY`
: Numeric or NULL; vertical shadow offset (in pixels) for treemap nodes in the blur state. Maps to `blur.itemStyle.shadowOffsetY`.

`blur.itemStyle.opacity`
: Numeric or NULL; opacity of treemap nodes in the blur state, typically a value in [0, 1]. Maps to `blur.itemStyle.opacity`.

`breadcrumb.show`
: Logical; whether to display the treemap breadcrumb navigation bar.

`breadcrumb.left`
: Position of the breadcrumb container from the left; numeric (px) or character e.g. `"center"`

`breadcrumb.top`
: Position of the breadcrumb container from the top; numeric (px) or character.

`breadcrumb.right`
: Position of the breadcrumb container from the right; numeric (px) or character.

`breadcrumb.bottom`
: Position of the breadcrumb container from the bottom; numeric (px) or character.

`breadcrumb.height`
: Height of the breadcrumb bar.

`breadcrumb.emptyItemWidth`
: Width of a breadcrumb node when it has no name (placeholder width).

`breadcrumb.itemStyle.color`
: Background color of breadcrumb nodes.

`breadcrumb.itemStyle.borderColor`
: Border color for breadcrumb nodes.

`breadcrumb.itemStyle.borderWidth`
: Border width for breadcrumb nodes.

`breadcrumb.itemStyle.borderRadius`
: Corner radius for breadcrumb nodes.

`breadcrumb.itemStyle.shadowBlur`
: Shadow blur radius for breadcrumb nodes.

`breadcrumb.itemStyle.shadowColor`
: Shadow color for breadcrumb nodes.

`breadcrumb.itemStyle.shadowOffsetX`
: Horizontal shadow offset (in px) for breadcrumb nodes.

`breadcrumb.itemStyle.shadowOffsetY`
: Vertical shadow offset (in px) for breadcrumb nodes.

`breadcrumb.itemStyle.textStyle.color`
: Text color for breadcrumb labels.

`breadcrumb.itemStyle.textStyle.fontSize`
: Font size for breadcrumb labels.

`breadcrumb.itemStyle.textStyle.fontFamily`
: Font family for breadcrumb labels.

breadcrumb.emphasis.borderColor
: Border color when a breadcrumb node is emphasized (hover/active).

breadcrumb.emphasis.borderWidth
: Border width when a breadcrumb node is emphasized.

breadcrumb.emphasis.shadowBlur
: Shadow blur radius when a breadcrumb node is emphasized.

breadcrumb.emphasis.shadowColor
: Shadow color when a breadcrumb node is emphasized.

breadcrumb.emphasis.shadowOffsetX
: Horizontal shadow offset (in px) when a breadcrumb node is emphasized.

breadcrumb.emphasis.shadowOffsetY
: Vertical shadow offset (in px) when a breadcrumb node is emphasized.

breadcrumb.emphasis.textStyle.color
: Text color when a breadcrumb node is emphasized.

breadcrumb.emphasis.textStyle.fontSize
: Font size when a breadcrumb node is emphasized.

breadcrumb.emphasis.textStyle.fontFamily
: Font family when a breadcrumb node is emphasized.

silent
: Logical indicating whether mouse events are disabled for this series.

animationDuration
: Numeric animation duration in milliseconds.

animationEasing
: Character name of the easing function used for the treemap animation (e.g. "linear", "quadraticIn", etc.).

animationDelay
: Numeric delay (in milliseconds) before animation starts.

tooltip
: Optional list of series-level tooltip options. If NULL, a default formatter can be supplied by the caller.

cursor
: Character CSS cursor to use when hovering over nodes (e.g. "pointer", "default").

emphasis.itemStyle
: List; general item style options in emphasis state.

blur.itemStyle
: List; general item style options in blur state.

Value

An echarts4r object with a treemap series added.

---

e_violin_full *Enhanced violin setter for echarts4r*

Description

Exposes every violin itemStyle option so you don't have to hand-craft the JSON. Mirrors e_boxplot_full() but uses e_violin_() under the hood.

Usage

```
e_violin_full(
  e = NULL,
  serie = NULL,
  label = FALSE,
  itemStyle.color = NULL,
  itemStyle.opacity = NULL,
  itemStyle.borderColor = NULL,
  itemStyle.borderWidth = NULL,
  itemStyle.borderType = NULL,
  itemStyle.borderCap = NULL,
  itemStyle.shadowBlur = NULL,
  itemStyle.shadowColor = NULL,
  itemStyle.shadowOffsetX = NULL,
  itemStyle.shadowOffsetY = NULL
)
```

Arguments

e	plot object
serie	Variable
label	Logical; whether to show labels.
itemStyle.color	Fill color. Can be a single color or vector of multiple colors for a vertical gradient.
itemStyle.opacity	Transparency (0–1). Can be scalar or vector matching `itemStyle.color`.
itemStyle.borderColor	hex or color name
itemStyle.borderWidth	numeric
itemStyle.borderType	'solid' 'dashed' 'dotted'
itemStyle.borderCap	'butt' 'round' 'square'
itemStyle.shadowBlur	numeric
itemStyle.shadowColor	hex or name
itemStyle.shadowOffsetX	numeric
itemStyle.shadowOffsetY	numeric

Value

The modified echarts4r object

`e_visual_map_full` *Enhanced visual map*

Description

Exposes most visual map options

Usage

```
e_visual_map_full(
  e,
  serie,
  visualMap.show = TRUE,
  visualMap.min = NULL,
  visualMap.max = NULL,
  visualMap.orient = NULL,
  visualMap.right = NULL,
  visualMap.top = NULL,
  visualMap.bottom = NULL,
  visualMap.left = NULL,
  visualMap.backgroundColor = NULL,
  visualMap.borderColor = NULL,
  visualMap.borderWidth = NULL,
  visualMap.InRange.color = NULL,
  visualMap.InRange.opacity = NULL,
  visualMap.InRange.symbol = NULL,
  visualMap.InRange.symbolSize = NULL
)
```

Arguments

`e`	An echarts4r object
`serie`	ZVar XVar YVar
`visualMap.show`	logical
`visualMap.min`	min value
`visualMap.max`	max value
`visualMap.orient`	'vertical' 'horizontal'
`visualMap.right`	number
`visualMap.top`	number
`visualMap.bottom`	number
`visualMap.left`	number

visualMap.backgroundColor
: hex or name

visualMap.borderColor
: hex or name

visualMap.borderWidth
: number

visualMap.InRange.color
: hex or name

visualMap.InRange.opacity
: number

visualMap.InRange.symbol
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

visualMap.InRange.symbolSize
: number

Value

plot

`e_x_axis_full` *Enhanced X-Axis Setter for echarts4r*

Description

Exposes every xAxis.* option so you don't have to hand-craft the JSON.

Usage

```
e_x_axis_full(
  e,
  index = 0,
  serie = NULL,
  axis = "x",
  xAxis.title = NULL,
  xAxis.position = "bottom",
  xAxis.nameLocation = "center",
  xAxis.axisTick.customValues = NULL,
  xAxis.nameTextStyle.color = NULL,
  xAxis.nameTextStyle.padding = 15,
  xAxis.nameTextStyle.align = NULL,
  xAxis.nameTextStyle.fontStyle = NULL,
  xAxis.nameTextStyle.fontWeight = NULL,
  xAxis.nameTextStyle.fontSize = NULL,
  xAxis.nameTextStyle.fontFamily = NULL,
  xAxis.nameTextStyle.textShadowColor = NULL,
  xAxis.nameTextStyle.textShadowBlur = NULL,
  xAxis.nameTextStyle.textShadowOffsetX = NULL,
```

```
  xAxis.nameTextStyle.textShadowOffsetY = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
  xAxis.splitNumber = NULL,
  xAxis.axisLabel.rotate = NULL,
  xAxis.axisLabel.margin = NULL,
  xAxis.axisLabel.color = NULL,
  xAxis.axisLabel.fontStyle = NULL,
  xAxis.axisLabel.fontWeight = NULL,
  xAxis.axisLabel.fontFamily = NULL,
  xAxis.axisLabel.fontSize = NULL,
  xAxis.axisLabel.align = NULL,
  xAxis.axisLabel.verticalAlign = NULL,
  xAxis.axisLabel.backgroundColor = NULL,
  xAxis.axisLabel.borderColor = NULL,
  xAxis.axisLabel.borderWidth = NULL,
  xAxis.axisLabel.borderType = NULL,
  xAxis.axisLabel.borderRadius = NULL,
  xAxis.axisLabel.padding = NULL,
  xAxis.axisLabel.shadowColor = NULL,
  xAxis.axisLabel.shadowBlur = NULL,
  xAxis.axisLabel.shadowOffsetX = NULL,
  xAxis.axisLabel.shadowOffsetY = NULL,
  xAxis.axisLabel.textBorderColor = NULL,
  xAxis.axisLabel.textBorderWidth = NULL,
  xAxis.axisLabel.textBorderType = NULL,
  xAxis.axisLabel.textShadowColor = NULL,
  xAxis.axisLabel.textShadowBlur = NULL,
  xAxis.axisLabel.textShadowOffsetX = NULL,
  xAxis.axisLabel.textShadowOffsetY = NULL,
  xAxis.axisLabel.overflow = NULL
)
```

Arguments

e	An echarts4r object
index	Which x axis to target (zero-based). Default: 0
serie	NULL
axis	"x"
xAxis.title	Axis title
xAxis.position	'bottom', 'top'
xAxis.nameLocation	'center', 'start', 'middle'
xAxis.axisTick.customValues	Custom values for the x-axis
xAxis.nameTextStyle.color	hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

Value

The modified echarts4r object

e_y_axis_full *Enhanced Y-Axis Setter for echarts4r*

Description

Exposes every yAxis.* option so you don't have to hand-craft the JSON.

Usage

```
e_y_axis_full(
  e,
  index = 0,
  serie = NULL,
  axis = "y",
  yAxis.title = NULL,
  yAxis.position = "bottom",
  yAxis.nameLocation = "center",
  yAxis.axisTick.customValues = NULL,
  yAxis.nameTextStyle.color = NULL,
  yAxis.nameTextStyle.padding = 15,
  yAxis.nameTextStyle.align = NULL,
  yAxis.nameTextStyle.fontStyle = NULL,
  yAxis.nameTextStyle.fontWeight = NULL,
  yAxis.nameTextStyle.fontSize = NULL,
  yAxis.nameTextStyle.fontFamily = NULL,
  yAxis.nameTextStyle.textShadowColor = NULL,
  yAxis.nameTextStyle.textShadowBlur = NULL,
  yAxis.nameTextStyle.textShadowOffsetX = NULL,
  yAxis.nameTextStyle.textShadowOffsetY = NULL,
  yAxis.min = NULL,
  yAxis.max = NULL,
  yAxis.splitNumber = NULL,
  yAxis.axisLabel.rotate = NULL,
  yAxis.axisLabel.margin = NULL,
  yAxis.axisLabel.color = NULL,
  yAxis.axisLabel.fontStyle = NULL,
  yAxis.axisLabel.fontWeight = NULL,
  yAxis.axisLabel.fontFamily = NULL,
  yAxis.axisLabel.fontSize = NULL,
  yAxis.axisLabel.align = NULL,
  yAxis.axisLabel.verticalAlign = NULL,
  yAxis.axisLabel.backgroundColor = NULL,
  yAxis.axisLabel.borderColor = NULL,
  yAxis.axisLabel.borderWidth = NULL,
  yAxis.axisLabel.borderType = NULL,
  yAxis.axisLabel.borderRadius = NULL,
  yAxis.axisLabel.padding = NULL,
```

```
  yAxis.axisLabel.shadowColor = NULL,
  yAxis.axisLabel.shadowBlur = NULL,
  yAxis.axisLabel.shadowOffsetX = NULL,
  yAxis.axisLabel.shadowOffsetY = NULL,
  yAxis.axisLabel.textBorderColor = NULL,
  yAxis.axisLabel.textBorderWidth = NULL,
  yAxis.axisLabel.textBorderType = NULL,
  yAxis.axisLabel.textShadowColor = NULL,
  yAxis.axisLabel.textShadowBlur = NULL,
  yAxis.axisLabel.textShadowOffsetX = NULL,
  yAxis.axisLabel.textShadowOffsetY = NULL,
  yAxis.axisLabel.overflow = NULL
)
```

Arguments

e	An echarts4r object
index	Which y axis to target (zero-based). Default: 0
serie	NULL
axis	"y"
yAxis.title	Axis title
yAxis.position	'bottom', 'top'
yAxis.nameLocation	'center', 'start', 'middle'
yAxis.axisTick.customValues	Custom values for the y-axis
yAxis.nameTextStyle.color	hex or named color
yAxis.nameTextStyle.padding	numeric
yAxis.nameTextStyle.align	'center', 'left', 'right'
yAxis.nameTextStyle.fontStyle	'italic', 'normal' 'oblique'
yAxis.nameTextStyle.fontWeight	'normal', 'bold', 'bolder', 'lighter'
yAxis.nameTextStyle.fontSize	numeric
yAxis.nameTextStyle.fontFamily	'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
yAxis.nameTextStyle.textShadowColor	hex or named color
yAxis.nameTextStyle.textShadowBlur	numeric

yAxis.nameTextStyle.textShadowOffsetX
: numeric

yAxis.nameTextStyle.textShadowOffsetY
: numeric

yAxis.min
: Min value

yAxis.max
: Max value

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

Value

The modified echarts4r object

`FakeDataGenerator` *FakeDataGenerator*

Description

Create fake data for examples

Usage

```
FakeDataGenerator(
  Correlation = 0.7,
  N = 1000L,
  ID = 5L,
  FactorCount = 2L,
  AddDate = TRUE,
  AddComment = FALSE,
  AddWeightsColumn = FALSE,
  ZIP = 5L,
  ChainLadderData = FALSE,
  Classification = FALSE,
  MultiClass = FALSE
)
```

Arguments

Correlation	Set the correlation value for simulated data
N	Number of records
ID	Number of IDcols to include
FactorCount	Number of factor type columns to create
AddDate	Set to TRUE to include a date column
AddComment	Set to TRUE to add a comment column
AddWeightsColumn	Add a weights column for ML
ZIP	Zero Inflation Model target variable creation. Select from 0 to 5 to create that number of distinctly distributed data, stratifed from small to large
ChainLadderData	Set to TRUE to return Chain Ladder Data for using AutoMLChainLadderTrainer
Classification	Set to TRUE to build classification data
MultiClass	Set to TRUE to build MultiClass data

Value

data.table of data

Author(s)

Adrian Antico

Gains *Gains*

Description

Create a cumulative gains chart

Usage

```
Gains(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  ZVar = "N",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
```

```
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	NULL
Width	NULL
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal",

	"sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence., Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

HeatMap *HeatMap*

Description

Create heat maps with numeric or categorical dt

Usage

```
HeatMap(
  dt,
  PreAgg = TRUE,
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
```

```
NumLevels_Y = 33,
NumLevels_X = 33,
Height = NULL,
Width = NULL,
Theme = "dark",
MouseScroll = FALSE,
visualMap.show = TRUE,
visualMap.min = NULL,
visualMap.max = NULL,
visualMap.orient = "vertical",
visualMap.right = "2%",
visualMap.top = "middle",
visualMap.bottom = NULL,
visualMap.left = NULL,
visualMap.backgroundColor = NULL,
visualMap.borderColor = NULL,
visualMap.borderWidth = NULL,
visualMap.InRange.color = NULL,
visualMap.InRange.opacity = NULL,
visualMap.InRange.symbol = NULL,
visualMap.InRange.symbolSize = NULL,
itemStyle.borderColor = NULL,
itemStyle.borderWidth = NULL,
itemStyle.shadowColor = NULL,
itemStyle.shadowBlur = NULL,
itemStyle.shadowOffsetY = NULL,
itemStyle.shadowOffsetX = NULL,
itemStyle.opacity = NULL,
itemStyle.borderRadius = NULL,
emphasis.shadowColor = NULL,
emphasis.shadowBlur = NULL,
itemStyle.emphasis.label.show = NULL,
itemStyle.emphasis.label.color = NULL,
itemStyle.emphasis.label.fontStyle = NULL,
itemStyle.emphasis.label.fontWeight = NULL,
itemStyle.emphasis.label.fontFamily = NULL,
itemStyle.emphasis.label.fontSize = NULL,
itemStyle.emphasis.label.align = NULL,
itemStyle.emphasis.label.verticalAlign = NULL,
itemStyle.emphasis.label.backgroundColor = NULL,
itemStyle.emphasis.label.borderColor = NULL,
itemStyle.emphasis.label.borderWidth = NULL,
itemStyle.emphasis.label.borderType = NULL,
itemStyle.emphasis.label.borderRadius = NULL,
itemStyle.emphasis.label.shadowColor = NULL,
itemStyle.emphasis.label.shadowBlur = NULL,
itemStyle.emphasis.label.shadowOffsetY = NULL,
itemStyle.emphasis.label.shadowOffsetX = NULL,
```

```
itemStyle.emphasis.label.width = NULL,
itemStyle.emphasis.label.height = NULL,
itemStyle.emphasis.label.textBorderColor = NULL,
itemStyle.emphasis.label.textBorderWidth = NULL,
itemStyle.emphasis.label.textShadowColor = NULL,
itemStyle.emphasis.label.textShadowBlur = NULL,
itemStyle.emphasis.label.textShadowOffsetY = NULL,
itemStyle.emphasis.label.textShadowOffsetX = NULL,
label.show = NULL,
label.color = NULL,
label.fontStyle = NULL,
label.fontWeight = NULL,
label.fontFamily = NULL,
label.fontSize = NULL,
label.align = NULL,
label.verticalAlign = NULL,
label.backgroundColor = NULL,
label.borderColor = NULL,
label.borderWidth = NULL,
label.borderType = NULL,
label.borderRadius = NULL,
label.shadowColor = NULL,
label.shadowBlur = NULL,
label.shadowOffsetY = NULL,
label.shadowOffsetX = NULL,
label.width = NULL,
label.height = NULL,
label.textBorderColor = NULL,
label.textBorderWidth = NULL,
label.textShadowColor = NULL,
label.textShadowBlur = NULL,
label.textShadowOffsetY = NULL,
label.textShadowOffsetX = NULL,
title.text = "Heatmap",
title.subtext = NULL,
title.link = NULL,
title.sublink = NULL,
title.Align = "left",
title.top = NULL,
title.left = "left",
title.right = NULL,
title.bottom = NULL,
title.padding = NULL,
title.itemGap = NULL,
title.backgroundColor = NULL,
title.borderColor = NULL,
title.borderWidth = NULL,
title.borderRadius = NULL,
```

```
title.shadowColor = NULL,
title.shadowBlur = NULL,
title.shadowOffsetX = NULL,
title.shadowOffsetY = NULL,
title.textStyle.color = NULL,
title.textStyle.fontStyle = NULL,
title.textStyle.fontWeight = NULL,
title.textStyle.fontFamily = "Segoe UI",
title.textStyle.fontSize = NULL,
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
title.subtextStyle.lineHeight = NULL,
title.subtextStyle.width = NULL,
title.subtextStyle.height = NULL,
title.subtextStyle.textBorderColor = NULL,
title.subtextStyle.textBorderWidth = NULL,
title.subtextStyle.textBorderType = NULL,
title.subtextStyle.textBorderDashOffset = NULL,
title.subtextStyle.textShadowColor = NULL,
title.subtextStyle.textShadowBlur = NULL,
title.subtextStyle.textShadowOffsetX = NULL,
title.subtextStyle.textShadowOffsetY = NULL,
xAxis.title = NULL,
xAxis.min = NULL,
xAxis.max = NULL,
xAxis.position = "bottom",
xAxis.nameLocation = "center",
xAxis.axisTick.customValues = NULL,
xAxis.nameTextStyle.color = NULL,
xAxis.nameTextStyle.padding = 25,
xAxis.nameTextStyle.align = NULL,
xAxis.nameTextStyle.fontStyle = NULL,
xAxis.nameTextStyle.fontWeight = "bolder",
```

```
xAxis.nameTextStyle.fontSize = NULL,
xAxis.nameTextStyle.fontFamily = "Segoe UI",
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
```

```
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
```

```
    legend.borderWidth = NULL,
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
```

```
legend.textStyle.textShadowOffsetY = NULL,
legend.pageTextStyle.color = NULL,
legend.pageTextStyle.fontStyle = NULL,
legend.pageTextStyle.fontWeight = NULL,
legend.pageTextStyle.fontFamily = "Segoe UI",
legend.pageTextStyle.fontSize = NULL,
legend.pageTextStyle.lineHeight = NULL,
legend.pageTextStyle.width = NULL,
legend.pageTextStyle.height = NULL,
legend.pageTextStyle.textBorderColor = NULL,
legend.pageTextStyle.textBorderWidth = NULL,
legend.pageTextStyle.textBorderType = NULL,
legend.pageTextStyle.textShadowColor = NULL,
legend.pageTextStyle.textShadowBlur = NULL,
legend.pageTextStyle.textShadowOffsetX = NULL,
legend.pageTextStyle.textShadowOffsetY = NULL,
legend.emphasis.selectorLabel.show = NULL,
legend.emphasis.selectorLabel.distance = NULL,
legend.emphasis.selectorLabel.rotate = NULL,
legend.emphasis.selectorLabel.color = NULL,
legend.emphasis.selectorLabel.fontStyle = NULL,
legend.emphasis.selectorLabel.fontWeight = NULL,
legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
legend.emphasis.selectorLabel.fontSize = NULL,
legend.emphasis.selectorLabel.align = NULL,
legend.emphasis.selectorLabel.verticalAlign = NULL,
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
```

```
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
toolbox.feature.saveAsImage.show = TRUE,
toolbox.feature.restore.show = TRUE,
toolbox.feature.dataZoom.show = TRUE,
toolbox.feature.magicType.show = TRUE,
toolbox.feature.magicType.type = NULL,
toolbox.feature.dataView.show = TRUE,
toolbox.iconStyle.color = NULL,
toolbox.iconStyle.borderColor = NULL,
toolbox.emphasis.iconStyle.borderColor = NULL,
toolbox.iconStyle.shadowBlur = NULL,
toolbox.iconStyle.shadowColor = NULL,
toolbox.iconStyle.shadowOffsetX = NULL,
toolbox.iconStyle.shadowOffsetY = NULL,
```

```
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
AggMethod	'mean', 'median', 'sum', 'sd', 'coeffvar', 'count'
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21
NumLevels_Y	= 20
NumLevels_X	= 20.
Height	"400px"
Width	"200px"
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
visualMap.show	TRUE
visualMap.min	min value
visualMap.max	max value
visualMap.orient	'vertical' 'horizontal'

visualMap.right
: number

visualMap.top
: number

visualMap.bottom
: number

visualMap.left
: number

visualMap.backgroundColor
: hex or name

visualMap.borderColor
: hex or name

visualMap.borderWidth
: number

visualMap.InRange.color
: hex or name

visualMap.InRange.opacity
: number

visualMap.InRange.symbol
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

visualMap.InRange.symbolSize
: number

itemStyle.borderColor
: hex or name

itemStyle.borderWidth
: number

itemStyle.shadowColor
: hex or name

itemStyle.shadowBlur
: number

itemStyle.shadowOffsetY
: number

itemStyle.shadowOffsetX
: number

itemStyle.opacity
: decimal

itemStyle.borderRadius
: number

emphasis.shadowColor
: hex or name

emphasis.shadowBlur
: number

itemStyle.emphasis.label.show
: logical

itemStyle.emphasis.label.color
: hex or name

itemStyle.emphasis.label.fontStyle
: 'normal' 'italic' 'oblique'

itemStyle.emphasis.label.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

itemStyle.emphasis.label.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

itemStyle.emphasis.label.fontSize
: number

itemStyle.emphasis.label.align
: 'left' 'center' 'right'

itemStyle.emphasis.label.verticalAlign
: 'top' 'middle' 'bottom'

itemStyle.emphasis.label.backgroundColor
: hex or name

itemStyle.emphasis.label.borderColor
: hex or name

itemStyle.emphasis.label.borderWidth
: number

itemStyle.emphasis.label.borderType
: 'solid' 'dashed' 'dotted'

itemStyle.emphasis.label.borderRadius
: number

itemStyle.emphasis.label.shadowColor
: hex or name

itemStyle.emphasis.label.shadowBlur
: number

itemStyle.emphasis.label.shadowOffsetY
: number

itemStyle.emphasis.label.shadowOffsetX
: number

itemStyle.emphasis.label.width
: number

itemStyle.emphasis.label.height
: number

itemStyle.emphasis.label.textBorderColor
: hex or name

itemStyle.emphasis.label.textBorderWidth
: number

itemStyle.emphasis.label.textShadowColor
: hex or name

itemStyle.emphasis.label.textShadowBlur
: number

itemStyle.emphasis.label.textShadowOffsetY
: number

itemStyle.emphasis.label.textShadowOffsetX
: number

label.show
: logical

`label.color` hex or name

`label.fontStyle`
'normal' 'italic' 'oblique'

`label.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`label.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`label.fontSize` number

`label.align` 'left' 'center' 'right'

`label.verticalAlign`
'top' 'middle' 'bottom'

`label.backgroundColor`
hex or name

`label.borderColor`
hex or name

`label.borderWidth`
number

`label.borderType`
'solid' 'dashed' 'dotted'

`label.borderRadius`
number

`label.shadowColor`
hex or name

`label.shadowBlur`
number

`label.shadowOffsetY`
number

`label.shadowOffsetX`
number

`label.width` number

`label.height` number

`label.textBorderColor`
hex or name

`label.textBorderWidth`
number

`label.textShadowColor`
hex or name

`label.textShadowBlur`
number

`label.textShadowOffsetY`
number

`label.textShadowOffsetX`
number

`title.text` Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

`yAxis.splitNumber`
: numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
: numeric

`yAxis.axisLabel.margin`
: numeric

`yAxis.axisLabel.color`
: hex or named

`yAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.axisLabel.fontSize`
: numeric

`yAxis.axisLabel.align`
: 'center', 'left', 'right'

`yAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`yAxis.axisLabel.backgroundColor`
: hex or named

`yAxis.axisLabel.borderColor`
: hex or named

`yAxis.axisLabel.borderWidth`
: numeric

`yAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`yAxis.axisLabel.borderRadius`
: numeric

`yAxis.axisLabel.padding`
: numeric

`yAxis.axisLabel.shadowColor`
: hex or named

`yAxis.axisLabel.shadowBlur`
: numeric

`yAxis.axisLabel.shadowOffsetX`
: numeric

`yAxis.axisLabel.shadowOffsetY`
: numeric

`yAxis.axisLabel.textBorderColor`
: hex or named

`yAxis.axisLabel.textBorderWidth`
: numeric

`yAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`yAxis.axisLabel.textShadowColor`
: hex or named

`yAxis.axisLabel.textShadowBlur`
: numeric

`yAxis.axisLabel.textShadowOffsetX`
: numeric

`yAxis.axisLabel.textShadowOffsetY`
: numeric

`yAxis.axisLabel.overflow`
: 'truncate'

`legend.show`
: logical

legend.type 'scroll' 'plain'

legend.selector
logical

legend.icon 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align 'auto' 'left' 'right'

legend.padding numeric

legend.itemGap numeric

legend.itemWidth
numeric

legend.orient 'vertical' 'horizontal'

legend.width numeric

legend.height numeric

legend.left numeric

legend.right numeric

legend.top numeric

legend.bottom numeric

legend.backgroundColor
hex or color name

legend.borderColor
hex or color name

legend.borderWidth
numeric

legend.borderRadius
numeric

legend.shadowBlur
numeric

legend.shadowColor
hex or color name

legend.shadowOffsetX
numeric

legend.shadowOffsetY
numeric

legend.itemStyle.color
hex or color name

legend.itemStyle.borderColor
hex or color name

legend.itemStyle.borderWidth
numeric

legend.itemStyle.borderType
'solid' 'dashed' 'dotted'

legend.itemStyle.shadowBlur
numeric

legend.itemStyle.shadowColor
hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
numeric

`legend.pageTextStyle.textBorderType`
'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
hex or color name

`legend.pageTextStyle.textShadowBlur`
numeric

`legend.pageTextStyle.textShadowOffsetX`
numeric

`legend.pageTextStyle.textShadowOffsetY`
numeric

`legend.emphasis.selectorLabel.show`
logical

`legend.emphasis.selectorLabel.distance`
numeric

`legend.emphasis.selectorLabel.rotate`
numeric

`legend.emphasis.selectorLabel.color`
hex or color name

`legend.emphasis.selectorLabel.fontStyle`
'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
numeric

`legend.emphasis.selectorLabel.align`
'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
numeric

`legend.emphasis.selectorLabel.backgroundColor`
hex or color name

`legend.emphasis.selectorLabel.borderColor`
hex or color name

`legend.emphasis.selectorLabel.borderWidth`
numeric

`legend.emphasis.selectorLabel.borderType`
'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
numeric

`legend.emphasis.selectorLabel.padding`
numeric
`legend.emphasis.selectorLabel.shadowColor`
hex or color name
`legend.emphasis.selectorLabel.shadowBlur`
numeric
`legend.emphasis.selectorLabel.shadowOffsetX`
numeric
`legend.emphasis.selectorLabel.shadowOffsetY`
numeric
`legend.emphasis.selectorLabel.width`
numeric
`legend.emphasis.selectorLabel.height`
numeric
`legend.emphasis.selectorLabel.textBorderColor`
hex or color name
`legend.emphasis.selectorLabel.textBorderWidth`
numeric
`legend.emphasis.selectorLabel.textBorderType`
'solid' 'dashed' 'dotted'
`legend.emphasis.selectorLabel.textShadowColor`
hex or color name
`legend.emphasis.selectorLabel.textShadowBlur`
numeric
`legend.emphasis.selectorLabel.textShadowOffsetX`
numeric
`legend.emphasis.selectorLabel.textShadowOffsetY`
numeric

`tooltip.show` logical

`tooltip.trigger`
"axis" "item" "none"
`tooltip.backgroundColor`
hex or name
`tooltip.borderColor`
numeric
`tooltip.borderWidth`
numeric
`tooltip.padding`
numeric
`tooltip.axisPointer.type`
"line" or "shadow"
`tooltip.axisPointer.lineStyle.color`
hex or name
`tooltip.axisPointer.shadowStyle.color`
hex or name
`tooltip.axisPointer.shadowStyle.shadowBlur`
numeric

tooltip.axisPointer.shadowStyle.shadowOffsetX
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetY
: numeric

tooltip.axisPointer.shadowStyle.opacity
: numeric between 0 and 1

tooltip.textStyle.color
: hex or name

tooltip.textStyle.fontStyle
: "normal" "italic" "oblique"

tooltip.textStyle.fontWeight
: "normal" "bold" "bolder" "lighter"

tooltip.textStyle.fontFamily
: valid family name

tooltip.textStyle.lineHeight
: numeric

tooltip.textStyle.width
: numeric

tooltip.textStyle.height
: numeric

tooltip.textStyle.textBorderColor
: hex or name

tooltip.textStyle.textBorderWidth
: numeric

tooltip.textStyle.textBorderType
: "solid" "dashed" "dotted"

tooltip.textStyle.textShadowColor
: hex or name

tooltip.textStyle.textShadowBlur
: numeric

tooltip.textStyle.textShadowOffsetX
: numeric

tooltip.textStyle.textShadowOffsetY
: numeric

toolbox.show
: logical

toolbox.orient
: "horizontal" or "vertical"

toolbox.itemSize
: Default 15

toolbox.itemGap
: Default 8

toolbox.top
: numeric

toolbox.left
: numeric

toolbox.right
: numeric

toolbox.bottom
: numeric

toolbox.width
: numeric

toolbox.heigth numeric

toolbox.feature.saveAsImage.show
: logical

toolbox.feature.restore.show
: logical

toolbox.feature.dataZoom.show
: logical

toolbox.feature.magicType.show
: logical

toolbox.feature.magicType.type
: 'bar' 'line' 'stack'

toolbox.feature.dataView.show
: logical

toolbox.iconStyle.color
: hex

toolbox.iconStyle.borderColor
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug Debugging parameter

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 10000)

# Echarts Heatmap Plot Chart
AutoPlots::HeatMap(
  dt = data,
  PreAgg = TRUE,
  XVar = "Factor_1",
  YVar = "Factor_2",
  ZVar = "Independent_Variable6",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_Y = 33,
  NumLevels_X = 33,
  Height = NULL,
  Width = NULL,
  Theme = "dark",
  MouseScroll = FALSE,

  Debug = FALSE)
```

Histogram *Histogram*

Description

Build a histogram plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Histogram(
  dt = NULL,
  SampleSize = 30000L,
  XVar = NULL,
  GroupVar = NULL,
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 30,
  Height = NULL,
  Width = NULL,
```

```
Theme = "dark",
MouseScroll = FALSE,
TimeLine = FALSE,
ShowLabels = FALSE,
backgroundStyle.color = NULL,
backgroundStyle.opacity = NULL,
title.text = "Histogram",
title.subtext = NULL,
title.link = NULL,
title.sublink = NULL,
title.Align = "left",
title.top = NULL,
title.left = "left",
title.right = NULL,
title.bottom = NULL,
title.padding = NULL,
title.itemGap = NULL,
title.backgroundColor = NULL,
title.borderColor = NULL,
title.borderWidth = NULL,
title.borderRadius = NULL,
title.shadowColor = NULL,
title.shadowBlur = NULL,
title.shadowOffsetX = NULL,
title.shadowOffsetY = NULL,
title.textStyle.color = NULL,
title.textStyle.fontStyle = NULL,
title.textStyle.fontWeight = NULL,
title.textStyle.fontFamily = "Segoe UI",
title.textStyle.fontSize = NULL,
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
title.subtextStyle.lineHeight = NULL,
```

```
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  xAxis.title = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
  xAxis.position = "bottom",
  xAxis.nameLocation = "center",
  xAxis.axisTick.customValues = NULL,
  xAxis.nameTextStyle.color = NULL,
  xAxis.nameTextStyle.padding = 25,
  xAxis.nameTextStyle.align = NULL,
  xAxis.nameTextStyle.fontStyle = NULL,
  xAxis.nameTextStyle.fontWeight = "bolder",
  xAxis.nameTextStyle.fontSize = NULL,
  xAxis.nameTextStyle.fontFamily = "Segoe UI",
  xAxis.nameTextStyle.textShadowColor = NULL,
  xAxis.nameTextStyle.textShadowBlur = NULL,
  xAxis.nameTextStyle.textShadowOffsetX = NULL,
  xAxis.nameTextStyle.textShadowOffsetY = NULL,
  xAxis.splitNumber = NULL,
  xAxis.axisLabel.rotate = NULL,
  xAxis.axisLabel.margin = NULL,
  xAxis.axisLabel.color = NULL,
  xAxis.axisLabel.fontStyle = NULL,
  xAxis.axisLabel.fontWeight = NULL,
  xAxis.axisLabel.fontFamily = "Segoe UI",
  xAxis.axisLabel.fontSize = 14,
  xAxis.axisLabel.align = NULL,
  xAxis.axisLabel.verticalAlign = NULL,
  xAxis.axisLabel.backgroundColor = NULL,
  xAxis.axisLabel.borderColor = NULL,
  xAxis.axisLabel.borderWidth = NULL,
  xAxis.axisLabel.borderType = NULL,
  xAxis.axisLabel.borderRadius = NULL,
  xAxis.axisLabel.padding = NULL,
  xAxis.axisLabel.shadowColor = NULL,
  xAxis.axisLabel.shadowBlur = NULL,
  xAxis.axisLabel.shadowOffsetX = NULL,
  xAxis.axisLabel.shadowOffsetY = NULL,
  xAxis.axisLabel.textBorderColor = NULL,
```

```
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
```

```
    yAxis.axisLabel.textShadowBlur = NULL,
    yAxis.axisLabel.textShadowOffsetX = NULL,
    yAxis.axisLabel.textShadowOffsetY = NULL,
    yAxis.axisLabel.overflow = NULL,
    legend.show = TRUE,
    legend.type = "scroll",
    legend.selector = NULL,
    legend.icon = NULL,
    legend.align = NULL,
    legend.padding = NULL,
    legend.itemGap = NULL,
    legend.itemWidth = NULL,
    legend.orient = "vertical",
    legend.width = NULL,
    legend.height = NULL,
    legend.left = NULL,
    legend.right = 10,
    legend.top = 30,
    legend.bottom = NULL,
    legend.backgroundColor = NULL,
    legend.borderColor = NULL,
    legend.borderWidth = NULL,
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
```

```
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
```

```
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = "cross",
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
    tooltip.textStyle.fontFamily = "Segoe UI",
    tooltip.textStyle.lineHeight = NULL,
    tooltip.textStyle.width = NULL,
    tooltip.textStyle.height = NULL,
    tooltip.textStyle.textBorderColor = NULL,
    tooltip.textStyle.textBorderWidth = NULL,
    tooltip.textStyle.textBorderType = NULL,
    tooltip.textStyle.textShadowColor = NULL,
    tooltip.textStyle.textShadowBlur = NULL,
    tooltip.textStyle.textShadowOffsetX = NULL,
    tooltip.textStyle.textShadowOffsetY = NULL,
    toolbox.show = TRUE,
    toolbox.orient = "horizontal",
```

```
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = FALSE,
  toolbox.feature.magicType.type = NULL,
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 30
Height	"400px"
Width	"200px"
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween",

"helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"

`MouseScroll` logical, zoom via mouse scroll

`TimeLine` logical

`ShowLabels` FALSE

`backgroundStyle.color`
vector of colors

`backgroundStyle.opacity`
vector of opacities

`title.text` Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

xAxis.axisLabel.overflow
: 'truncate'

yAxis.title
: Axis title

yAxis.min
: Min value

yAxis.max
: Max value

yAxis.position
: 'bottom', 'top'

yAxis.nameLocation
: 'center', 'start', 'middle'

yAxis.axisTick.customValues
: Custom values for the y-axis

yAxis.nameTextStyle.color
: hex or named color

yAxis.nameTextStyle.padding
: numeric

yAxis.nameTextStyle.align
: 'center', 'left', 'right'

yAxis.nameTextStyle.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.nameTextStyle.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.nameTextStyle.fontSize
: numeric

yAxis.nameTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.nameTextStyle.textShadowColor
: hex or named color

yAxis.nameTextStyle.textShadowBlur
: numeric

yAxis.nameTextStyle.textShadowOffsetX
: numeric

yAxis.nameTextStyle.textShadowOffsetY
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
Default 15

`toolbox.itemGap`
Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = runif(10000)))

# Create plot
AutoPlots::Histogram(
  dt = dt,
  SampleSize = 30000L,
  XVar = NULL,
  GroupVar = NULL,
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 30,
  Height = NULL,
  Width = NULL,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  ShowLabels = FALSE,
  Debug = FALSE)
```

ImportancePareto *Importance Pareto Plot*

Description

Create a composite variable-importance plot that combines ranked importance bars with a cumulative contribution line. This is useful for understanding both the top drivers and how quickly their combined contribution approaches the total importance.

Usage

```
ImportancePareto(
  data,
  XVar = NULL,
  YVar = NULL,
  TopN = 25,
  Sort = TRUE,
  Cumulative = TRUE,
  CumulativeAxis = "right",
  Cutoff = 0.8,
  Theme = "dark",
  Title = NULL,
  Subtitle = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  MouseScroll = FALSE,
  Encoding = "human",
  Debug = FALSE,
  ...
)
```

Arguments

data	Source data frame or data.table containing feature names and importance values.
XVar	Feature/name column. If NULL, common names such as 'Feature' or 'Variable' are inferred when possible.
YVar	Numeric importance column. If NULL, common names such as 'Importance', 'Importances', or 'Gain' are inferred when possible.
TopN	Number of ranked features to display.
Sort	If TRUE, sort by absolute importance descending before taking 'TopN'.
Cumulative	If TRUE, add the cumulative contribution line.
CumulativeAxis	Side for the cumulative percentage axis. Use '"right"' or '"left"'.
Cutoff	Optional cumulative reference line. Values between 0 and 1 are treated as proportions; values between 1 and 100 are treated as percentages. Use NULL to omit the cutoff line.
Theme	AutoPlots/echarts theme name.
Title	Plot title. If NULL, a default title is used.
Subtitle	Plot subtitle.
Height	Widget height.
Width	Widget width.
ShowLabels	If TRUE, show labels on the importance bars.
MouseScroll	If TRUE, use inside data zoom. Otherwise, show external data zoom controls.

Encoding	Reserved for future consumer-aware information encoding. Current supported values are ‘"human"‘, ‘"llm"‘, ‘"thumbnail"‘, ‘"presentation"‘, ‘"executive"‘, and ‘"developer"‘.
Debug	If TRUE, print intermediate diagnostics.
...	Reserved for future extensions.

Value

An echarts4r widget.

Author(s)

Adrian Antico

See Also

Other Model Evaluation: `BinaryMetricsPlot()`, `Calibration.Box()`, `Calibration.Line()`, `ConfusionMatrix()`, `Gains()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMap()`, `PartialDependence.Line()`, `Plot.BinaryMetrics()`, `Plot.Calibration.Box()`, `Plot.Calibration.Line()`, `Plot.ConfusionMatrix()`, `Plot.Gains()`, `Plot.Lift()`, `Plot.PartialDependence.Box()`, `Plot.PartialDependence.`
`Plot.PartialDependence.Line()`, `Plot.ROC()`, `Plot.Residuals.Histogram()`, `Plot.Residuals.Scatter()`, `Plot.ShapImportance()`, `Plot.VariableImportance()`, `Plot.prROC()`, `ROC()`, `Residuals.Histogram()`, `Residuals.Scatter()`, `ShapImportance()`, `VariableImportance()`

Examples

```
importance <- data.table::data.table(
  Feature = paste0("Feature_", seq_len(12)),
  Importance = sort(stats::runif(12, 1, 100), decreasing = TRUE)
)
ImportancePareto(importance, XVar = "Feature", YVar = "Importance", TopN = 10)

catboost_style <- data.table::data.table(
  Feature = paste0("feature_", seq_len(20)),
  Importances = rev(seq_len(20)) ^ 1.2
)
ImportancePareto(catboost_style, TopN = 15, Cutoff = 0.9)
```

Lift *Lift*

Description

Create a cumulative gains chart

Usage

```
Lift(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  ZVar = "N",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns

FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), PartialDependence.Box(), PartialDependence.HeatMap(), PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.
Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Line *Line*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Line(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  DualYVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  DualYVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  Smooth = TRUE,
  ShowSymbol = FALSE,
  DarkMode = FALSE,
  lineStyle.color = NULL,
  lineStyle.width = NULL,
  lineStyle.type = NULL,
  lineStyle.shadowColor = NULL,
  lineStyle.shadowBlur = NULL,
  lineStyle.shadowOffsetX = NULL,
  lineStyle.shadowOffsetY = NULL,
  title.text = "Line Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
```

```
title.shadowOffsetX = NULL,
title.shadowOffsetY = NULL,
title.textStyle.color = NULL,
title.textStyle.fontStyle = NULL,
title.textStyle.fontWeight = NULL,
title.textStyle.fontFamily = "Segoe UI",
title.textStyle.fontSize = NULL,
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
title.subtextStyle.lineHeight = NULL,
title.subtextStyle.width = NULL,
title.subtextStyle.height = NULL,
title.subtextStyle.textBorderColor = NULL,
title.subtextStyle.textBorderWidth = NULL,
title.subtextStyle.textBorderType = NULL,
title.subtextStyle.textBorderDashOffset = NULL,
title.subtextStyle.textShadowColor = NULL,
title.subtextStyle.textShadowBlur = NULL,
title.subtextStyle.textShadowOffsetX = NULL,
title.subtextStyle.textShadowOffsetY = NULL,
xAxis.title = NULL,
xAxis.min = NULL,
xAxis.max = NULL,
xAxis.position = "bottom",
xAxis.nameLocation = "center",
xAxis.axisTick.customValues = NULL,
xAxis.nameTextStyle.color = NULL,
xAxis.nameTextStyle.padding = 25,
xAxis.nameTextStyle.align = NULL,
xAxis.nameTextStyle.fontStyle = NULL,
xAxis.nameTextStyle.fontWeight = "bolder",
xAxis.nameTextStyle.fontSize = NULL,
xAxis.nameTextStyle.fontFamily = "Segoe UI",
```

```
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
```

```
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
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yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
```

```
    legend.shadowBlur = NULL,
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    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
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    legend.itemStyle.shadowOffsetY = NULL,
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    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
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    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
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    legend.textStyle.backgroundColor = NULL,
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    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
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    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
```

```
legend.pageTextStyle.fontStyle = NULL,
legend.pageTextStyle.fontWeight = NULL,
legend.pageTextStyle.fontFamily = "Segoe UI",
legend.pageTextStyle.fontSize = NULL,
legend.pageTextStyle.lineHeight = NULL,
legend.pageTextStyle.width = NULL,
legend.pageTextStyle.height = NULL,
legend.pageTextStyle.textBorderColor = NULL,
legend.pageTextStyle.textBorderWidth = NULL,
legend.pageTextStyle.textBorderType = NULL,
legend.pageTextStyle.textShadowColor = NULL,
legend.pageTextStyle.textShadowBlur = NULL,
legend.pageTextStyle.textShadowOffsetX = NULL,
legend.pageTextStyle.textShadowOffsetY = NULL,
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legend.emphasis.selectorLabel.distance = NULL,
legend.emphasis.selectorLabel.rotate = NULL,
legend.emphasis.selectorLabel.color = NULL,
legend.emphasis.selectorLabel.fontStyle = NULL,
legend.emphasis.selectorLabel.fontWeight = NULL,
legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
legend.emphasis.selectorLabel.fontSize = NULL,
legend.emphasis.selectorLabel.align = NULL,
legend.emphasis.selectorLabel.verticalAlign = NULL,
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
```

```
  tooltip.borderWidth = NULL,
  tooltip.padding = NULL,
  tooltip.axisPointer.type = "cross",
  tooltip.axisPointer.lineStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
  tooltip.axisPointer.shadowStyle.opacity = NULL,
  tooltip.textStyle.color = NULL,
  tooltip.textStyle.fontStyle = NULL,
  tooltip.textStyle.fontWeight = NULL,
  tooltip.textStyle.fontFamily = "Segoe UI",
  tooltip.textStyle.lineHeight = NULL,
  tooltip.textStyle.width = NULL,
  tooltip.textStyle.height = NULL,
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
DualYVar	Secondary Y-Axis variables. Leave NULL for no secondary axis. Only one variable is allowed and when this is set only one YVar is allowed. An error will be thrown if those conditions are not met
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
DualYVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	NULL
Width	NULL
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
Smooth	= TRUE
ShowSymbol	= FALSE
DarkMode	FALSE
lineStyle.color	hex or name
lineStyle.width	numeric

`lineStyle.type` 'solid' 'dashed' 'dotted'

`lineStyle.shadowColor`
: hex or color

`lineStyle.shadowBlur`
: numeric

`lineStyle.shadowOffsetX`
: numeric

`lineStyle.shadowOffsetY`
: numeric

`title.text` Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
: hex or name

`title.borderColor`
: hex or name

`title.borderWidth`
: numeric

`title.borderRadius`
: numeric

`title.shadowColor`
: hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

title.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.textStyle.fontSize
: numeric

title.textStyle.lineHeight
: numeric

title.textStyle.width
: numeric

title.textStyle.height
: numeric

title.textStyle.textBorderColor
: hex or name

title.textStyle.textBorderWidth
: numeric

title.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.textStyle.textBorderDashOffset
: numeric

title.textStyle.textShadowColor
: hex or name

title.textStyle.textShadowBlur
: numeric

title.textStyle.textShadowOffsetX
: numeric

title.textStyle.textShadowOffsetY
: numeric

title.subtextStyle.color
: hex or name

title.subtextStyle.align
: 'auto' 'left' 'right' 'center'

title.subtextStyle.fontStyle
: 'normal' 'italic' 'oblique'

title.subtextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

title.subtextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.subtextStyle.fontSize
: numeric

title.subtextStyle.lineHeight
: numeric

title.subtextStyle.width
: numeric

title.subtextStyle.height
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

`xAxis.axisLabel.padding`
: numeric

`xAxis.axisLabel.shadowColor`
: hex or named

`xAxis.axisLabel.shadowBlur`
: numeric

`xAxis.axisLabel.shadowOffsetX`
: numeric

`xAxis.axisLabel.shadowOffsetY`
: numeric

`xAxis.axisLabel.textBorderColor`
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

xAxis.axisLabel.overflow
: 'truncate'

yAxis.title
: Axis title

yAxis.min
: Min value

yAxis.max
: Max value

yAxis.position
: 'bottom', 'top'

yAxis.nameLocation
: 'center', 'start', 'middle'

yAxis.axisTick.customValues
: Custom values for the y-axis

yAxis.nameTextStyle.color
: hex or named color

yAxis.nameTextStyle.padding
: numeric

yAxis.nameTextStyle.align
: 'center', 'left', 'right'

yAxis.nameTextStyle.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.nameTextStyle.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.nameTextStyle.fontSize
: numeric

yAxis.nameTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.nameTextStyle.textShadowColor
: hex or named color

yAxis.nameTextStyle.textShadowBlur
: numeric

yAxis.nameTextStyle.textShadowOffsetX
: numeric

yAxis.nameTextStyle.textShadowOffsetY
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

legend.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.textStyle.fontSize
: numeric

legend.textStyle.backgroundColor
: hex or color name

legend.textStyle.borderColor
: hex or color name

legend.textStyle.borderWidth
: numeric

legend.textStyle.borderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.borderRadius
: numeric

legend.textStyle.padding
: numeric

legend.textStyle.shadowColor
: hex or color name

legend.textStyle.shadowBlur
: numeric

legend.textStyle.shadowOffsetX
: numeric

legend.textStyle.shadowOffsetY
: numeric

legend.textStyle.width
: numeric

legend.textStyle.height
: numeric

legend.textStyle.textBorderColor
: hex or color name

legend.textStyle.textBorderWidth
: numeric

legend.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.textShadowColor
: hex or color name

legend.textStyle.textShadowBlur
: numeric

legend.textStyle.textShadowOffsetX
: numeric

legend.textStyle.textShadowOffsetY
: numeric

legend.pageTextStyle.color
: hex or color name

legend.pageTextStyle.fontStyle
: 'normal' 'italic' 'oblique'

legend.pageTextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.pageTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.pageTextStyle.fontSize
: numeric

legend.pageTextStyle.lineHeight
: numeric

legend.pageTextStyle.width
: numeric

legend.pageTextStyle.height
: numeric

legend.pageTextStyle.textBorderColor
: hex or color name

legend.pageTextStyle.textBorderWidth
: numeric

legend.pageTextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.pageTextStyle.textShadowColor
: hex or color name

legend.pageTextStyle.textShadowBlur
: numeric

legend.pageTextStyle.textShadowOffsetX
: numeric

legend.pageTextStyle.textShadowOffsetY
: numeric

legend.emphasis.selectorLabel.show
: logical

legend.emphasis.selectorLabel.distance
: numeric

legend.emphasis.selectorLabel.rotate
: numeric

legend.emphasis.selectorLabel.color
: hex or color name

legend.emphasis.selectorLabel.fontStyle
: 'normal' 'italic' 'oblique'

legend.emphasis.selectorLabel.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
Default 15

`toolbox.itemGap`
Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 1000)

# Build Line plot
AutoPlots::Line(
  dt = data,
  PreAgg = TRUE,
  AggMethod = "mean",
  XVar = "DateTime",
  YVar = "Independent_Variable3",
  YVarTrans = "LogPlus1",
  DualYVar = "Independent_Variable6",
  DualYVarTrans = "LogPlus1",
  GroupVar = NULL,
  Theme = "macarons")
```

PACF *PACF*

Description

Build a partial autocorrelation plot by simply passing arguments to a single function

Usage

```
PACF(
  dt = NULL,
  YVar = NULL,
  DateVar = NULL,
  TimeUnit = NULL,
  MaxLags = 50,
```

```
YVarTrans = "Identity",
AggMethod = "sum",
Height = NULL,
Width = NULL,
Theme = "dark",
title.text = "Partial Autocorrelation Plot",
title.subtext = NULL,
title.link = NULL,
title.sublink = NULL,
title.Align = "left",
title.top = NULL,
title.left = "left",
title.right = NULL,
title.bottom = NULL,
title.padding = NULL,
title.itemGap = NULL,
title.backgroundColor = NULL,
title.borderColor = NULL,
title.borderWidth = NULL,
title.borderRadius = NULL,
title.shadowColor = NULL,
title.shadowBlur = NULL,
title.shadowOffsetX = NULL,
title.shadowOffsetY = NULL,
title.textStyle.color = NULL,
title.textStyle.fontStyle = NULL,
title.textStyle.fontWeight = NULL,
title.textStyle.fontFamily = "Segoe UI",
title.textStyle.fontSize = NULL,
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
title.subtextStyle.lineHeight = NULL,
title.subtextStyle.width = NULL,
```

```
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    xAxis.title = NULL,
    xAxis.min = NULL,
    xAxis.max = NULL,
    xAxis.position = "bottom",
    xAxis.nameLocation = "center",
    xAxis.axisTick.customValues = NULL,
    xAxis.nameTextStyle.color = NULL,
    xAxis.nameTextStyle.padding = 25,
    xAxis.nameTextStyle.align = NULL,
    xAxis.nameTextStyle.fontStyle = NULL,
    xAxis.nameTextStyle.fontWeight = "bolder",
    xAxis.nameTextStyle.fontSize = NULL,
    xAxis.nameTextStyle.fontFamily = "Segoe UI",
    xAxis.nameTextStyle.textShadowColor = NULL,
    xAxis.nameTextStyle.textShadowBlur = NULL,
    xAxis.nameTextStyle.textShadowOffsetX = NULL,
    xAxis.nameTextStyle.textShadowOffsetY = NULL,
    xAxis.splitNumber = NULL,
    xAxis.axisLabel.rotate = NULL,
    xAxis.axisLabel.margin = NULL,
    xAxis.axisLabel.color = NULL,
    xAxis.axisLabel.fontStyle = NULL,
    xAxis.axisLabel.fontWeight = NULL,
    xAxis.axisLabel.fontFamily = "Segoe UI",
    xAxis.axisLabel.fontSize = 14,
    xAxis.axisLabel.align = NULL,
    xAxis.axisLabel.verticalAlign = NULL,
    xAxis.axisLabel.backgroundColor = NULL,
    xAxis.axisLabel.borderColor = NULL,
    xAxis.axisLabel.borderWidth = NULL,
    xAxis.axisLabel.borderType = NULL,
    xAxis.axisLabel.borderRadius = NULL,
    xAxis.axisLabel.padding = NULL,
    xAxis.axisLabel.shadowColor = NULL,
    xAxis.axisLabel.shadowBlur = NULL,
    xAxis.axisLabel.shadowOffsetX = NULL,
    xAxis.axisLabel.shadowOffsetY = NULL,
    xAxis.axisLabel.textBorderColor = NULL,
    xAxis.axisLabel.textBorderWidth = NULL,
```

```
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
```

```
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
legend.lineStyle.shadowBlur = NULL,
legend.lineStyle.shadowColor = NULL,
legend.lineStyle.shadowOffsetX = NULL,
legend.lineStyle.shadowOffsetY = NULL,
legend.lineStyle.opacity = NULL,
legend.lineStyle.inactiveColor = NULL,
legend.lineStyle.inactiveWidth = NULL,
legend.textStyle.color = NULL,
legend.textStyle.fontStyle = NULL,
legend.textStyle.fontWeight = NULL,
```

```
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
```

```
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = "cross",
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
    tooltip.textStyle.fontFamily = "Segoe UI",
    tooltip.textStyle.lineHeight = NULL,
    tooltip.textStyle.width = NULL,
    tooltip.textStyle.height = NULL,
    tooltip.textStyle.textBorderColor = NULL,
    tooltip.textStyle.textBorderWidth = NULL,
    tooltip.textStyle.textBorderType = NULL,
    tooltip.textStyle.textShadowColor = NULL,
    tooltip.textStyle.textShadowBlur = NULL,
    tooltip.textStyle.textShadowOffsetX = NULL,
    tooltip.textStyle.textShadowOffsetY = NULL,
    toolbox.show = TRUE,
    toolbox.orient = "horizontal",
    toolbox.itemSize = 15,
```

```
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
YVar	Y-Axis variable name
DateVar	Date column in data
TimeUnit	Select from "hour", "day", "week", "month", "quarter", "year"
MaxLags	Max value for lags to test
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

`title.textStyle.textBorderColor`
hex or name

title.textStyle.textBorderWidth
: numeric

title.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.textStyle.textBorderDashOffset
: numeric

title.textStyle.textShadowColor
: hex or name

title.textStyle.textShadowBlur
: numeric

title.textStyle.textShadowOffsetX
: numeric

title.textStyle.textShadowOffsetY
: numeric

title.subtextStyle.color
: hex or name

title.subtextStyle.align
: 'auto' 'left' 'right' 'center'

title.subtextStyle.fontStyle
: 'normal' 'italic' 'oblique'

title.subtextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

title.subtextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.subtextStyle.fontSize
: numeric

title.subtextStyle.lineHeight
: numeric

title.subtextStyle.width
: numeric

title.subtextStyle.height
: numeric

title.subtextStyle.textBorderColor
: hex or name

title.subtextStyle.textBorderWidth
: numeric

title.subtextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.subtextStyle.textBorderDashOffset
: numeric

title.subtextStyle.textShadowColor
: numeric

title.subtextStyle.textShadowBlur
: numeric

title.subtextStyle.textShadowOffsetX
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

xAxis.axisLabel.overflow
: 'truncate'

yAxis.title
: Axis title

`yAxis.min` Min value

`yAxis.max` Max value

`yAxis.position` 'bottom', 'top'

`yAxis.nameLocation`
'center', 'start', 'middle'

`yAxis.axisTick.customValues`
Custom values for the y-axis

`yAxis.nameTextStyle.color`
hex or named color

`yAxis.nameTextStyle.padding`
numeric

`yAxis.nameTextStyle.align`
'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
numeric

`yAxis.nameTextStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
hex or named color

`yAxis.nameTextStyle.textShadowBlur`
numeric

`yAxis.nameTextStyle.textShadowOffsetX`
numeric

`yAxis.nameTextStyle.textShadowOffsetY`
numeric

`yAxis.splitNumber`
numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
numeric

`yAxis.axisLabel.margin`
numeric

`yAxis.axisLabel.color`
hex or named

`yAxis.axisLabel.fontStyle`
'italic', 'normal' 'oblique'

`yAxis.axisLabel.fontWeight`
'normal', 'bold', 'bolder', 'lighter'

`yAxis.axisLabel.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

`legend.icon` 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`legend.align` 'auto' 'left' 'right'

`legend.padding` numeric

`legend.itemGap` numeric

`legend.itemWidth`
numeric

`legend.orient` 'vertical' 'horizontal'

`legend.width` numeric

`legend.height` numeric

`legend.left` numeric

`legend.right` numeric

`legend.top` numeric

`legend.bottom` numeric

`legend.backgroundColor`
hex or color name

`legend.borderColor`
hex or color name

`legend.borderWidth`
numeric

`legend.borderRadius`
numeric

`legend.shadowBlur`
numeric

`legend.shadowColor`
hex or color name

`legend.shadowOffsetX`
numeric

`legend.shadowOffsetY`
numeric

`legend.itemStyle.color`
hex or color name

`legend.itemStyle.borderColor`
hex or color name

`legend.itemStyle.borderWidth`
numeric

`legend.itemStyle.borderType`
'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
numeric

`legend.itemStyle.shadowColor`
hex or color name

`legend.itemStyle.shadowOffsetX`
numeric

`legend.itemStyle.shadowOffsetY`
numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

`legend.emphasis.selectorLabel.borderWidth`
: numeric

`legend.emphasis.selectorLabel.borderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
: numeric

`legend.emphasis.selectorLabel.padding`
: numeric

`legend.emphasis.selectorLabel.shadowColor`
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.shadowBlur
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetX
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetY
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

`toolbox.feature.dataZoom.show`
: logical

`toolbox.feature.magicType.show`
: logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

`toolbox.emphasis.iconStyle.borderColor`
: hex

`toolbox.iconStyle.shadowBlur`
: numeric

`toolbox.iconStyle.shadowColor`
: hex

`toolbox.iconStyle.shadowOffsetX`
: numeric

`toolbox.iconStyle.shadowOffsetY`
: numeric

`Debug`
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: `ACF()`, `Area()`, `Bar()`, `BarPlot3D()`, `Box()`, `Copula()`, `Copula3D()`, `CorrMatrix()`, `Density()`, `Donut()`, `HeatMap()`, `Histogram()`, `Line()`, `Parallel()`, `Pie()`, `Plot.ACF()`, `Plot.Area()`, `Plot.Bar()`, `Plot.BarPlot3D()`, `Plot.Box()`, `Plot.Copula()`, `Plot.Copula3D()`, `Plot.CorrMatrix()`, `Plot.Density()`, `Plot.Donut()`, `Plot.HeatMap()`, `Plot.Histogram()`, `Plot.Line()`, `Plot.PACF()`, `Plot.Parallel()`, `Plot.Pie()`, `Plot.ProbabilityPlot()`, `Plot.Radar()`, `Plot.River()`, `Plot.Rosetype()`, `Plot.Scatter()`, `Plot.Scatter3D()`, `Plot.StackedBar()`, `Plot.Step()`, `Plot.WordCloud()`, `ProbabilityPlot()`, `Radar()`, `River()`, `Rosetype()`, `Scatter()`, `Scatter3D()`, `StackedBar()`, `Step()`, `WordCloud()`

Parallel *Parallel*

Description

Build a parallel plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Parallel(
  dt = NULL,
  SampleSize = 50000,
  CorrVars = NULL,
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  rm_x = TRUE,
  rm_y = TRUE,
  lineStyle.color = NULL,
  lineStyle.width = NULL,
  lineStyle.type = NULL,
  lineStyle.shadowBlur = NULL,
  lineStyle.shadowColor = NULL,
  lineStyle.shadowOffsetX = NULL,
  lineStyle.shadowOffsetY = NULL,
  lineStyle.opacity = NULL,
  lineStyle.emphasis.color = "red",
  lineStyle.emphasis.width = 5,
  lineStyle.emphasis.type = NULL,
  lineStyle.emphasis.shadowBlur = 5,
  lineStyle.emphasis.shadowColor = "black",
  lineStyle.emphasis.shadowOffsetX = NULL,
  lineStyle.emphasis.shadowOffsetY = NULL,
  lineStyle.emphasis.opacity = NULL,
  title.text = "Parallel Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
```

```
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  xAxis.title = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
```

```
xAxis.position = "bottom",
xAxis.nameLocation = "center",
xAxis.axisTick.customValues = NULL,
xAxis.nameTextStyle.color = NULL,
xAxis.nameTextStyle.padding = 25,
xAxis.nameTextStyle.align = NULL,
xAxis.nameTextStyle.fontStyle = NULL,
xAxis.nameTextStyle.fontWeight = "bolder",
xAxis.nameTextStyle.fontSize = NULL,
xAxis.nameTextStyle.fontFamily = "Segoe UI",
xAxis.nameTextStyle.textShadowColor = NULL,
xAxis.nameTextStyle.textShadowBlur = NULL,
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
```

```
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
```

```
    legend.width = NULL,
    legend.height = NULL,
    legend.left = NULL,
    legend.right = 10,
    legend.top = 30,
    legend.bottom = NULL,
    legend.backgroundColor = NULL,
    legend.borderColor = NULL,
    legend.borderWidth = NULL,
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
```

```
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
```

```
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
toolbox.feature.saveAsImage.show = TRUE,
toolbox.feature.restore.show = TRUE,
toolbox.feature.dataZoom.show = TRUE,
toolbox.feature.magicType.show = FALSE,
toolbox.feature.magicType.type = NULL,
```

```
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	Sample size
CorrVars	vector of variable names
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
rm_x	logical. Remove x-axis
rm_y	logical. Remove y-axis
lineStyle.color	hex or color
lineStyle.width	number
lineStyle.type	'solid' 'dashed' 'dotted'
lineStyle.shadowBlur	number
lineStyle.shadowColor	hex or color

`lineStyle.shadowOffsetX`
: number

`lineStyle.shadowOffsetY`
: number

`lineStyle.opacity`
: decimal

`lineStyle.emphasis.color`
: hex or color

`lineStyle.emphasis.width`
: number

`lineStyle.emphasis.type`
: 'solid' 'dashed' 'dotted'

`lineStyle.emphasis.shadowBlur`
: number

`lineStyle.emphasis.shadowColor`
: hex or color

`lineStyle.emphasis.shadowOffsetX`
: number

`lineStyle.emphasis.shadowOffsetY`
: number

`lineStyle.emphasis.opacity`
: decimal

`title.text` Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
: hex or name

`title.borderColor`
: hex or name

`title.borderWidth`
: numeric

`title.borderRadius`
: numeric

`title.shadowColor`
: hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.axisLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.axisLabel.fontSize`
: numeric

`xAxis.axisLabel.align`
: 'center', 'left', 'right'

`xAxis.axisLabel.verticalAlign`
: 'top', 'bottom'

`xAxis.axisLabel.backgroundColor`
: hex or named

`xAxis.axisLabel.borderColor`
: hex or named

`xAxis.axisLabel.borderWidth`
: numeric

`xAxis.axisLabel.borderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.borderRadius`
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

xAxis.axisLabel.overflow
: 'truncate'

yAxis.title
: Axis title

yAxis.min
: Min value

yAxis.max
: Max value

yAxis.position
: 'bottom', 'top'

yAxis.nameLocation
: 'center', 'start', 'middle'

yAxis.axisTick.customValues
: Custom values for the y-axis

yAxis.nameTextStyle.color
: hex or named color

yAxis.nameTextStyle.padding
: numeric

yAxis.nameTextStyle.align
: 'center', 'left', 'right'

yAxis.nameTextStyle.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.nameTextStyle.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.nameTextStyle.fontSize
: numeric

yAxis.nameTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.nameTextStyle.textShadowColor
: hex or named color

yAxis.nameTextStyle.textShadowBlur
: numeric

yAxis.nameTextStyle.textShadowOffsetX
: numeric

yAxis.nameTextStyle.textShadowOffsetY
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

legend.emphasis.selectorLabel.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show`
: logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

tooltip.textStyle.textBorderType
: "solid" "dashed" "dotted"

tooltip.textStyle.textShadowColor
: hex or name

tooltip.textStyle.textShadowBlur
: numeric

tooltip.textStyle.textShadowOffsetX
: numeric

tooltip.textStyle.textShadowOffsetY
: numeric

toolbox.show
: logical

toolbox.orient
: "horizontal" or "vertical"

toolbox.itemSize
: Default 15

toolbox.itemGap
: Default 8

toolbox.top
: numeric

toolbox.left
: numeric

toolbox.right
: numeric

toolbox.bottom
: numeric

toolbox.width
: numeric

toolbox.heigth
: numeric

toolbox.feature.saveAsImage.show
: logical

toolbox.feature.restore.show
: logical

toolbox.feature.dataZoom.show
: logical

toolbox.feature.magicType.show
: logical

toolbox.feature.magicType.type
: 'bar' 'line' 'stack'

toolbox.feature.dataView.show
: logical

toolbox.iconStyle.color
: hex

toolbox.iconStyle.borderColor
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create data
dt = AutoPlots::FakeDataGenerator(N = 100000)

# Create plot
AutoPlots::Parallel(
  dt = dt,
  SampleSize = 1000,
  CorrVars = c("Independent_Variable3",
               "Independent_Variable4",
               "Independent_Variable5",
               "Independent_Variable6",
               "Independent_Variable7"),
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  Debug = FALSE)
```

PartialDependence.Box *PartialDependence.Box*

Description

This function automatically builds partial dependence calibration plots

Usage

```
PartialDependence.Box(
  dt = NULL,
  PreAgg = TRUE,
  SampleSize = 100000L,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  EchartsLabels = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name

ZVar	character
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
AggMethod	character
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
EchartsLabels	character
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.HeatMap(), PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

`PartialDependence.HeatMap`

PartialDependence.HeatMap

Description

This function automatically builds partial dependence calibration plots

Usage

```
PartialDependence.HeatMap(
  dt = NULL,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  MouseScroll = FALSE,
  Theme = "dark",
  EchartsLabels = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
AggMethod	character
Height	"400px"
Width	"200px"
ShowLabels	character
MouseScroll	logical, zoom via mouse scroll
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
EchartsLabels	character
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

`PartialDependence.Line`

PartialDependence.Line

Description

This function automatically builds partial dependence calibration plots

Usage

```
PartialDependence.Line(
  dt = NULL,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  NumberBins = 20,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  EchartsLabels = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
GroupVar	Character variable
NumberBins	numeric
AggMethod	character
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
EchartsLabels	character
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: `BinaryMetricsPlot()`, `Calibration.Box()`, `Calibration.Line()`, `ConfusionMatrix()`, `Gains()`, `ImportancePareto()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMa` `Plot.BinaryMetrics()`, `Plot.Calibration.Box()`, `Plot.Calibration.Line()`, `Plot.ConfusionMatrix()`, `Plot.Gains()`, `Plot.Lift()`, `Plot.PartialDependence.Box()`, `Plot.PartialDependence.HeatMap()`, `Plot.PartialDependence.Line()`, `Plot.ROC()`, `Plot.Residuals.Histogram()`, `Plot.Residuals.Scatter()`, `Plot.ShapImportance()`, `Plot.VariableImportance()`, `Plot.prROC()`, `ROC()`, `Residuals.Histogram()`, `Residuals.Scatter()`, `ShapImportance()`, `VariableImportance()`

`Pie` *Pie*

Description

Build a pie chart by simply passing arguments to a single function

Usage

```
Pie(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  ShowLabels = TRUE,
  Theme = "dark",
  TimeLine = FALSE,
  title.text = "Pie Chart",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
```

```
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  legend.show = TRUE,
  legend.type = "scroll",
  legend.selector = NULL,
  legend.icon = NULL,
  legend.align = NULL,
  legend.padding = NULL,
  legend.itemGap = NULL,
  legend.itemWidth = NULL,
```

```
  legend.orient = "vertical",
  legend.width = NULL,
  legend.height = NULL,
  legend.left = NULL,
  legend.right = 10,
  legend.top = 30,
  legend.bottom = NULL,
  legend.backgroundColor = NULL,
  legend.borderColor = NULL,
  legend.borderWidth = NULL,
  legend.borderRadius = NULL,
  legend.shadowBlur = NULL,
  legend.shadowColor = NULL,
  legend.shadowOffsetX = NULL,
  legend.shadowOffsetY = NULL,
  legend.itemStyle.color = NULL,
  legend.itemStyle.borderColor = NULL,
  legend.itemStyle.borderWidth = NULL,
  legend.itemStyle.borderType = NULL,
  legend.itemStyle.shadowBlur = NULL,
  legend.itemStyle.shadowColor = NULL,
  legend.itemStyle.shadowOffsetX = NULL,
  legend.itemStyle.shadowOffsetY = NULL,
  legend.itemStyle.opacity = NULL,
  legend.lineStyle.color = NULL,
  legend.lineStyle.width = NULL,
  legend.lineStyle.type = NULL,
  legend.lineStyle.shadowBlur = NULL,
  legend.lineStyle.shadowColor = NULL,
  legend.lineStyle.shadowOffsetX = NULL,
  legend.lineStyle.shadowOffsetY = NULL,
  legend.lineStyle.opacity = NULL,
  legend.lineStyle.inactiveColor = NULL,
  legend.lineStyle.inactiveWidth = NULL,
  legend.textStyle.color = NULL,
  legend.textStyle.fontStyle = NULL,
  legend.textStyle.fontWeight = NULL,
  legend.textStyle.fontFamily = "Segoe UI",
  legend.textStyle.fontSize = NULL,
  legend.textStyle.backgroundColor = NULL,
  legend.textStyle.borderColor = NULL,
  legend.textStyle.borderWidth = NULL,
  legend.textStyle.borderType = NULL,
  legend.textStyle.borderRadius = NULL,
  legend.textStyle.padding = NULL,
  legend.textStyle.shadowColor = NULL,
  legend.textStyle.shadowBlur = NULL,
  legend.textStyle.shadowOffsetX = NULL,
```

```
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
```

```
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "item",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
toolbox.feature.saveAsImage.show = TRUE,
toolbox.feature.restore.show = TRUE,
toolbox.feature.dataZoom.show = TRUE,
toolbox.feature.magicType.show = TRUE,
```

```
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo","ess cut","fruit","gray","green","halloween","helianthus","infographic","inspired","jazz","london","dark","ma passion","red-velvet","red","roma","royal","sakura","shine","tech-blue","vintage","walden","wef","wefo
TimeLine	logical
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

`title.textStyle.textBorderColor`
hex or name

`title.textStyle.textBorderWidth`
numeric

`title.textStyle.textBorderType`
'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`legend.show` logical

legend.type 'scroll' 'plain'

legend.selector
logical

legend.icon 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align 'auto' 'left' 'right'

legend.padding numeric

legend.itemGap numeric

legend.itemWidth
numeric

legend.orient 'vertical' 'horizontal'

legend.width numeric

legend.height numeric

legend.left numeric

legend.right numeric

legend.top numeric

legend.bottom numeric

legend.backgroundColor
hex or color name

legend.borderColor
hex or color name

legend.borderWidth
numeric

legend.borderRadius
numeric

legend.shadowBlur
numeric

legend.shadowColor
hex or color name

legend.shadowOffsetX
numeric

legend.shadowOffsetY
numeric

legend.itemStyle.color
hex or color name

legend.itemStyle.borderColor
hex or color name

legend.itemStyle.borderWidth
numeric

legend.itemStyle.borderType
'solid' 'dashed' 'dotted'

legend.itemStyle.shadowBlur
numeric

legend.itemStyle.shadowColor
hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

legend.textStyle.padding
: numeric

legend.textStyle.shadowColor
: hex or color name

legend.textStyle.shadowBlur
: numeric

legend.textStyle.shadowOffsetX
: numeric

legend.textStyle.shadowOffsetY
: numeric

legend.textStyle.width
: numeric

legend.textStyle.height
: numeric

legend.textStyle.textBorderColor
: hex or color name

legend.textStyle.textBorderWidth
: numeric

legend.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.textShadowColor
: hex or color name

legend.textStyle.textShadowBlur
: numeric

legend.textStyle.textShadowOffsetX
: numeric

legend.textStyle.textShadowOffsetY
: numeric

legend.pageTextStyle.color
: hex or color name

legend.pageTextStyle.fontStyle
: 'normal' 'italic' 'oblique'

legend.pageTextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.pageTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.pageTextStyle.fontSize
: numeric

legend.pageTextStyle.lineHeight
: numeric

legend.pageTextStyle.width
: numeric

legend.pageTextStyle.height
: numeric

legend.pageTextStyle.textBorderColor
: hex or color name

`legend.pageTextStyle.textBorderWidth`
numeric
`legend.pageTextStyle.textBorderType`
'solid' 'dashed' 'dotted'
`legend.pageTextStyle.textShadowColor`
hex or color name
`legend.pageTextStyle.textShadowBlur`
numeric
`legend.pageTextStyle.textShadowOffsetX`
numeric
`legend.pageTextStyle.textShadowOffsetY`
numeric
`legend.emphasis.selectorLabel.show`
logical
`legend.emphasis.selectorLabel.distance`
numeric
`legend.emphasis.selectorLabel.rotate`
numeric
`legend.emphasis.selectorLabel.color`
hex or color name
`legend.emphasis.selectorLabel.fontStyle`
'normal' 'italic' 'oblique'
`legend.emphasis.selectorLabel.fontWeight`
'normal' 'bold' 'bolder' 'lighter'
`legend.emphasis.selectorLabel.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
`legend.emphasis.selectorLabel.fontSize`
numeric
`legend.emphasis.selectorLabel.align`
'left' 'center' 'right'
`legend.emphasis.selectorLabel.verticalAlign`
'top' 'middle' 'bottom'
`legend.emphasis.selectorLabel.lineHeight`
numeric
`legend.emphasis.selectorLabel.backgroundColor`
hex or color name
`legend.emphasis.selectorLabel.borderColor`
hex or color name
`legend.emphasis.selectorLabel.borderWidth`
numeric
`legend.emphasis.selectorLabel.borderType`
'solid' 'dashed' 'dotted'
`legend.emphasis.selectorLabel.borderRadius`
numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.shadowBlur
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: `ACF()`, `Area()`, `Bar()`, `BarPlot3D()`, `Box()`, `Copula()`, `Copula3D()`, `CorrMatrix()`, `Density()`, `Donut()`, `HeatMap()`, `Histogram()`, `Line()`, `PACF()`, `Parallel()`, `Plot.ACF()`, `Plot.Area()`, `Plot.Bar()`, `Plot.BarPlot3D()`, `Plot.Box()`, `Plot.Copula()`, `Plot.Copula3D()`, `Plot.CorrMatrix()`, `Plot.Density()`, `Plot.Donut()`, `Plot.HeatMap()`, `Plot.Histogram()`, `Plot.Line()`, `Plot.PACF()`, `Plot.Parallel()`, `Plot.Pie()`, `Plot.ProbabilityPlot()`, `Plot.Radar()`, `Plot.River()`, `Plot.Rosetype()`, `Plot.Scatter()`, `Plot.Scatter3D()`, `Plot.StackedBar()`, `Plot.Step()`, `Plot.WordCloud()`, `ProbabilityPlot()`, `Radar()`, `River()`, `Rosetype()`, `Scatter()`, `Scatter3D()`, `StackedBar()`, `Step()`, `WordCloud()`

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = runif(10000)), GV = sample(LETTERS, 1000, TRUE))

# Create plot
AutoPlots::Pie(
  dt = dt,
  PreAgg = TRUE,
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,
  Debug = FALSE)
```

Plot.ACF *Plot.ACF*

Description

Build an autocorrelation plot by simply passing arguments to a single function

Usage

```
Plot.ACF(
  dt = NULL,
  YVar = NULL,
  DateVar = NULL,
  TimeUnit = NULL,
  MaxLags = 50,
  YVarTrans = "Identity",
  AggMethod = "sum",
  Height = NULL,
  Width = NULL,
  Title = "Autocorrelation Plot",
  EchartsTheme = "macarons",
  TextColor = "white",
  title.fontSize = 22,
```

```
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
YVar	Y-Axis variable name
DateVar	Date column in data
TimeUnit	Select from "hour", "day", "week", "month", "quarter", "year"
MaxLags	Max lag values to test
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Title	title
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
TextColor	'darkblue'
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14

xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Plot.AnomalyScores *Plot anomaly-score distribution*

Description

Plot anomaly-score distribution

Usage

```
Plot.AnomalyScores(
  scores,
  flags = NULL,
  Title = "Anomaly-score distribution",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

scores	Numeric anomaly scores.
flags	Optional logical flagged-observation indicator.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Histogram()].

Value

An ‘echarts4r‘ htmlwidget.

`Plot.Area` *Plot.Area*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Plot.Area(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  DualYVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  DualYVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Line Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  Alpha = 0.5,
  Smooth = TRUE,
  ShowSymbol = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
```

```
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
DualYVar	Secondary Y-Axis variables. Leave NULL for no secondary axis. Only one variable is allowed and when this is set only one YVar is allowed. An error will be thrown if those conditions are not met
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
DualYVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
Title	"Title"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	Provide an "Echarts" theme
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
Alpha	0 to 1 for setting transparency
Smooth	= TRUE

ShowSymbol	= FALSE
TextColor	"Not Implemented"
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes
Area	logical

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 1000)

# Build plot
AutoPlots::Plot.Area(
```

```
  dt = data,
  PreAgg = FALSE,
  AggMethod = "mean",
  XVar = "DateTime",
  YVar = "Independent_Variable3",
  YVarTrans = "Identity",
  DualYVar = "Independent_Variable6",
  DualYVarTrans = "Identity",
  GroupVar = NULL,
  EchartsTheme = "macarons")
```

Plot.Bar *Plot.Bar*

Description

Build a bar plot by simply passing arguments to a single function

Usage

```
Plot.Bar(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  LabelValues = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Bar Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
```

```
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
LabelValues	A vector of values. Requires PreAgg to be set to TRUE and you'll need to ensure LabelValues are ordered the same as dt. If NULL and ShowLabels is TRUE, then bar values will be displayed
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Title	title
ShowLabels	logical
Title.YAxis	NULL. If NULL, YVar name will be used
Title.XAxis	NULL. If NULL, XVar name will be used
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical

TextColor	'darkblue'
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts Bar Chart
AutoPlots::Plot.Bar(
  dt = data,
  PreAgg = FALSE,
  XVar = "Factor_1",
```

```
  YVar = "Adrian",
  GroupVar = NULL,
  LabelValues = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  Title = 'Bar Plot',
  ShowLabels = FALSE,
  Title.YAxis = "Adrian",
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

`Plot.BarPlot3D` *Plot.BarPlot3D*

Description

Build a 3D Bar Plot

Usage

```
Plot.BarPlot3D(
  dt,
  PreAgg = FALSE,
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
```

```
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_Y = 33,
  NumLevels_X = 33,
  Height = NULL,
  Width = NULL,
  Title = "3D Bar Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "dark",
  MouseScroll = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  zaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical. Is your data pre aggregated
AggMethod	'mean', 'median', 'sum', 'sd', 'coeffvar', 'count'
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21
NumLevels_Y	= 20
NumLevels_X	= 20
Height	"400px"
Width	"200px"
Title	"Heatmap"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"dark-blue"
MouseScroll	logical, zoom via mouse scroll
TextColor	character
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
yaxis.fontSize	14
xaxis.fontSize	14
zaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts 3D Bar Chart
AutoPlots::Plot.BarPlot3D(
  dt = data,
  PreAgg = FALSE,
  AggMethod = 'mean',
  XVar = "Factor_1",
  YVar = "Factor_2",
  ZVar = "Adrian",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_Y = 33,
  NumLevels_X = 33,
  Height = NULL,
  Width = NULL,
  Title = "3D Bar Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
```

```
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  zaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

Plot.BinaryMetrics *Plot.BinaryMetrics*

Description

Line plot of evaluation metrics across thresholds

Usage

```
Plot.BinaryMetrics(
  dt = NULL,
  PreAgg = FALSE,
  AggMethod = "mean",
  SampleSize = 100000L,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  Metrics = c("Utility", "MCC", "Accuracy", "F1_Score", "F2_Score", "F0.5_Score",
    "ThreatScore", "TPR", "TNR", "FNR", "FPR", "FDR", "FOR"),
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  CostMatrixWeights = c(0, 1, 1, 0),
  NumberBins = 20,
  Height = NULL,
  Width = NULL,
  Title = "Binary Metrics",
  MouseScroll = TRUE,
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  EchartsLabels = FALSE,
  TimeLine = TRUE,
  TextColor = "white",
```

```
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
AggMethod	character
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
Metrics	Multiple selection "Utility","MCC","Accuracy","F1_Score","F2_Score","F0.5_Score","ThreatScore","Tl
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
CostMatrixWeights	vector length 4. FP, FP, FN, TP
NumberBins	numeric
Height	"400px"
Width	"200px"
Title	character
MouseScroll	logical, zoom via mouse scroll
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
EchartsLabels	character
TimeLine	logical
TextColor	hex character
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: `BinaryMetricsPlot()`, `Calibration.Box()`, `Calibration.Line()`, `ConfusionMatrix()`, `Gains()`, `ImportancePareto()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMa` `PartialDependence.Line()`, `Plot.Calibration.Box()`, `Plot.Calibration.Line()`, `Plot.ConfusionMatrix()`, `Plot.Gains()`, `Plot.Lift()`, `Plot.PartialDependence.Box()`, `Plot.PartialDependence.HeatMap()`, `Plot.PartialDependence.Line()`, `Plot.ROC()`, `Plot.Residuals.Histogram()`, `Plot.Residuals.Scatter()`, `Plot.ShapImportance()`, `Plot.VariableImportance()`, `Plot.prROC()`, `ROC()`, `Residuals.Histogram()`, `Residuals.Scatter()`, `ShapImportance()`, `VariableImportance()`

Plot.Box *Plot.Box*

Description

Build a box plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.Box(
  dt = NULL,
  SampleSize = 100000L,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Box Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
```

```
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll

TimeLine	Logical
TextColor	character hex
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = stats::runif(10000)), GV = sample(LETTERS, 1000, TRUE))

AutoPlots::Plot.Box(
  dt = dt,
  SampleSize = 100000L,
```

```
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = 'Box Plot',
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

`Plot.Calibration.Box` *Plot.Calibration.Box*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Plot.Calibration.Box(
  dt = NULL,
  SampleSize = 100000L,
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
```

```
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  Height = NULL,
  Width = NULL,
  Title = "Calibration Box",
  MouseScroll = TRUE,
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = FALSE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
AggMethod	character
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
Title	character
MouseScroll	logical, zoom via mouse scroll
ShowLabels	character
Title.YAxis	character

Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
TimeLine	logical
TextColor	"Not Implemented"
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.Calibration.Line *Plot.Calibration.Line*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Plot.Calibration.Line(
  dt = NULL,
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
```

```
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  Height = NULL,
  Width = NULL,
  Title = "Calibration Line",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = FALSE,
  MouseScroll = TRUE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west

TimeLine	logical
MouseScroll	logical, zoom via mouse scroll
TextColor	"Not Implemented"
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.ClusterEmbedding *Plot an unsupervised embedding*

Description

Reusable visualization for PCA scores, manifold embeddings, and other two-dimensional fitted representations. Model fitting remains the caller's responsibility.

Usage

```
Plot.ClusterEmbedding(
  dt,
  XVar,
  YVar,
  ClusterVar = NULL,
  Title = "Cluster embedding",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

dt	Tabular embedding output.
XVar, YVar	Numeric embedding columns.
ClusterVar	Optional cluster/segment column.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Scatter()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.ClusterSizes *Plot cluster sizes*

Description

Plot cluster sizes

Usage

```
Plot.ClusterSizes(
  cluster_sizes,
  Title = "Cluster sizes",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

cluster_sizes	Named or unnamed cluster counts.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Bar()].

Value

An ‘echarts4r‘ htmlwidget.

`Plot.ConfusionMatrix` *Plot.ConfusionMatrix*

Description

Generate variable importance plots

Usage

```
Plot.ConfusionMatrix(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  ZVar = "N",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_X = 50,
  NumLevels_Y = 50,
  Height = NULL,
  Width = NULL,
  Title = "Confusion Matrix",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  TextColor = "white",
  AggMethod = "count",
  GroupVar = NULL,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	FALSE

XVar	Column name of X-Axis variable. If NULL then ignored
YVar	Column name of Y-Axis variable. If NULL then ignored
ZVar	= "N"
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21,
NumLevels_X	= NumLevels_Y,
NumLevels_Y	= NumLevels_X,
Height	"400px"
Width	"200px"
Title	title
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
TextColor	'darkblue'
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
GroupVar	= NULL
xaxis.rotate	numeric
yaxis.rotate	numeric
ContainLabel	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.Copula *Plot.Copula*

Description

Build a copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.Copula(
  dt = NULL,
  SampleSize = 30000L,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Copula Plot",
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "white",
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
```

```
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Requires an XVar and YVar already be defined
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
Title	'Copula Plot'
ShowLabels	character
AddGLM	logical
Title.YAxis	character
Title.XAxis	character
EchartsTheme	= "dark-blue",
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
TextColor	'darkblue'
yaxis.fontSize	14

xaxis.fontSize	14
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts Copula Plot Chart
AutoPlots::Plot.Copula(
  dt = data,
  SampleSize = 10000,
  XVar = "Independent_Variable8",
  YVar = "Adrian",
  GroupVar = NULL,
```

```
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = 'Copula Plot',
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "black",
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

`Plot.Copula3D` *Plot.Copula3D*

Description

Build a 3D-copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.Copula3D(
  dt = NULL,
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
```

```
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Copula 3D",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "dark-blue",
  TimeLine = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  zaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  zaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns

FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
GroupVar	Requires an XVar and YVar already be defined
Height	"400px"
Width	"200px"
Title	'Copula3D Plot'
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	= "dark-blue"
TimeLine	Logical
TextColor	'darkblue'
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
yaxis.fontSize	14
xaxis.fontSize	14
zaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
zaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)
data[, Independent_Variable9 := Independent_Variable9 * stats::runif(.N)]

# Echarts Copula Plot Chart
AutoPlots::Plot.Copula3D(
  dt = data,
  SampleSize = 10000,
  XVar = "Adrian",
  YVar = "Independent_Variable9",
  ZVar = "Independent_Variable6",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  Height = NULL,
  Width = NULL,
  Title = 'Copula 3D',
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = FALSE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  zaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  zaxis.rotate = 0,
```

```
  ContainLabel = TRUE,
  Debug = FALSE)
```

Plot.CorrMatrix *Plot.CorrMatrix*

Description

Build a correlation matrix plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.CorrMatrix(
  dt = NULL,
  CorrVars = NULL,
  CorrVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Method = "spearman",
  PreAgg = FALSE,
  MaxNAPercent = 0.05,
  Height = NULL,
  Width = NULL,
  Title = "Correlation Matrix",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table

CorrVars	vector of variable names
CorrVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Method	character
PreAgg	logical
MaxNAPercent	numeric
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TextColor	character hex
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
yaxis.fontSize	14
xaxis.fontSize	14
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts CorrMatrix Plot Chart
AutoPlots::Plot.CorrMatrix(
  dt = data,
  CorrVars = c(
    "Adrian",
    "Independent_Variable1",
    "Independent_Variable2",
    "Independent_Variable3",
    "Independent_Variable4",
    "Independent_Variable5"),
  CorrVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Method = 'pearson',
  PreAgg = FALSE,
  MaxNAPercent = 0.05,
  Height = NULL,
  Width = NULL,
  Title = "Correlation Matrix",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
```

```
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  Debug = FALSE)
```

`Plot.Density` *Plot.Density*

Description

Density plots, by groups, with transparent continuous plots

Usage

```
Plot.Density(
  dt = NULL,
  SampleSize = 100000L,
  YVar = NULL,
  XVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  MouseScroll = TRUE,
  Title = "Density Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	= 100000L
YVar	Y-Axis variable name
XVar	X-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
MouseScroll	logical, zoom via mouse scroll
Title	= "Density Plot"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
TimeLine	logical
TextColor	"white"
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14

yaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = stats::runif(10000)))

# Create plot
AutoPlots::Plot.Density(
  dt = dt,
  SampleSize = 30000L,
  XVar = NULL,
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  EchartsTheme = "macarons",
  Title = "Histogram",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
```

```
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE)
```

Plot.Donut *Plot.Donut*

Description

Build a donut plot by simply passing arguments to a single function

Usage

```
Plot.Donut(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Donut Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Title	title
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo","ess cut","fruit","gray","green","halloween","helianthus","infographic","inspired","jazz","london","dark","ma passion","red-velvet","red","roma","royal","sakura","shine","tech-blue","vintage","walden","wef","wefo
TimeLine	logical
TextColor	'darkblue'
title.fontSize	Defaults to size 22. Numeric. This changes the size of the title.
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = stats::runif(10000)), GV = sample(LETTERS, 1000, TRUE))

# Create plot
AutoPlots::Plot.Donut(
  dt = dt,
  PreAgg = FALSE,
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  Title = 'Pie Chart',
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
```

```
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE)
```

`Plot.ExplainedVariance` *Plot component explained variance*

Description

Plot component explained variance

Usage

```
Plot.ExplainedVariance(
  explained_variance,
  cumulative = NULL,
  Title = "Explained variance",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

`explained_variance`	Numeric explained-variance proportions.
`cumulative`	Optional cumulative proportions.
`Title`	Plot title.
`EchartsTheme`	AutoPlots theme.
`...`	Additional arguments passed to [Bar()].

Value

An ‘echarts4r‘ htmlwidget.

`Plot.Forecast` *Plot governed history, forecasts, and interval bounds*

Description

Plot governed history, forecasts, and interval bounds

Usage

```
Plot.Forecast(
  dt,
  DateVar = "forecast_date",
  ActualVar = "actual",
  ForecastVar = "forecast",
  LowerVar = "lower_interval",
  UpperVar = "upper_interval",
  GroupVar = NULL,
  Title = "History and forecast",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

`dt`	Tabular forecast evidence.
`DateVar`	Ordered date/time column.
`ActualVar`	Optional observed-value column.
`ForecastVar`	Forecast column.
`LowerVar`, `UpperVar`	Optional predictive interval-bound columns.
`GroupVar`	Optional series/entity column.
`Title`	Plot title.
`EchartsTheme`	AutoPlots theme.
`...`	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.ForecastBacktest *Plot rolling-origin forecast errors by horizon*

Description

Plot rolling-origin forecast errors by horizon

Usage

```
Plot.ForecastBacktest(
  dt,
  HorizonVar = "horizon",
  ValueVar = "value",
  MetricVar = "metric",
  Title = "Rolling-origin error by horizon",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

dt	Rolling-origin metrics containing horizon and metric values.
HorizonVar	Horizon column.
ValueVar	Metric-value column.
MetricVar	Optional metric-name column.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.ForecastCalibration *Plot nominal and empirical forecast coverage*

Description

Plot nominal and empirical forecast coverage

Usage

```
Plot.ForecastCalibration(
  dt,
  NominalVar = "nominal_coverage",
  EmpiricalVar = "empirical_coverage",
  HorizonVar = NULL,
  Title = "Forecast interval calibration",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

`dt`	Calibration evidence.
`NominalVar`, `EmpiricalVar`	Nominal and empirical coverage columns.
`HorizonVar`	Optional horizon column.
`Title`	Plot title.
`EchartsTheme`	AutoPlots theme.
`...`	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

`Plot.ForecastCombination` *Plot component forecasts and their governed combination*

Description

Plot component forecasts and their governed combination

Usage

```
Plot.ForecastCombination(
  dt,
  HorizonVar = "horizon",
  ForecastVar = "forecast",
  ComponentVar = "component_id",
  Title = "Forecast components and combination",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

dt	Long component/combination forecast evidence.
HorizonVar, ForecastVar, ComponentVar	Column names.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.ForecastDecomposition

Plot MSTL decomposition components

Description

Plot MSTL decomposition components

Usage

```
Plot.ForecastDecomposition(
  dt,
  ObservationVar = "observation",
  ComponentVars = NULL,
  Title = "MSTL decomposition",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

dt	Wide MSTL component evidence.
ObservationVar	Observation index column.
ComponentVars	Optional component columns.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

`Plot.ForecastReconciliation` *Compare base and reconciled forecasts*

Description

Compare base and reconciled forecasts

Usage

```
Plot.ForecastReconciliation(
  dt,
  DateVar = "forecast_date",
  BaseVar = "base_forecast",
  ReconciledVar = "reconciled_forecast",
  GroupVar = NULL,
  Title = "Base and reconciled forecast",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

`dt`	Reconciliation evidence.
`DateVar`	Ordered date/time column.
`BaseVar`	Base forecast column.
`ReconciledVar`	Reconciled forecast column.
`GroupVar`	Optional hierarchy/entity column.
`Title`	Plot title.
`EchartsTheme`	AutoPlots theme.
`...`	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.Gains *Plot.Gains*

Description

Create a cumulative gains chart

Usage

```
Plot.Gains(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  ZVar = "N",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
  Height = NULL,
  Width = NULL,
  Title = "Gains Plot",
  ShowLabels = FALSE,
  Title.YAxis = "Gain",
  Title.XAxis = "Population",
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	NULL
Width	NULL
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
TextColor	character hex
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.HeatMap *Plot.HeatMap*

Description

Create heat maps with numeric or categorical dt

Usage

```
Plot.HeatMap(
  dt,
  PreAgg = FALSE,
  AggMethod = "mean",
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_Y = 33,
  NumLevels_X = 33,
  Height = NULL,
  Width = NULL,
  Title = "Heatmap",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "dark",
  MouseScroll = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
AggMethod	'mean', 'median', 'sum', 'sd', 'coeffvar', 'count'
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21
NumLevels_Y	= 20
NumLevels_X	= 20.
Height	"400px"
Width	"200px"
Title	"Heatmap"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"dark-blue"
MouseScroll	logical, zoom via mouse scroll
TextColor	color
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1

title.textShadowOffsetX	-1
yaxis.fontSize	14
xaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging parameter

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts Heatmap Plot Chart
AutoPlots::Plot.HeatMap(
  dt = data,
  PreAgg = FALSE,
  XVar = "Factor_1",
  YVar = "Factor_2",
  ZVar = "Independent_Variable6",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_Y = 33,
  NumLevels_X = 33,
  Height = NULL,
```

```
  Width = NULL,
  Title = "Heatmap",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

`Plot.Histogram` *Plot.Histogram*

Description

Build a histogram plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.Histogram(
  dt = NULL,
  SampleSize = 30000L,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 30,
  Height = NULL,
  Width = NULL,
  EchartsTheme = "macarons",
  Title = "Histogram",
  MouseScroll = TRUE,
```

```
  TimeLine = FALSE,
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 30
Height	"400px"
Width	"200px"
EchartsTheme	= EchartsTheme,
Title	character
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
ShowLabels	FALSE
Title.YAxis	NULL

Title.XAxis NULL

TextColor "white"

title.fontSize 22

title.fontWeight "bold"

title.textShadowColor '#63aeff'

title.textShadowBlur 3

title.textShadowOffsetY 1

title.textShadowOffsetX -1

xaxis.fontSize 14

yaxis.fontSize 14

Debug Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = stats::runif(10000)))

# Create plot
AutoPlots::Plot.Histogram(
  dt = dt,
  SampleSize = 30000L,
  XVar = NULL,
  YVar = "Y",
  GroupVar = NULL,
```

```
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 30,
  Height = NULL,
  Width = NULL,
  EchartsTheme = "macarons",
  Title = "Histogram",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE)
```

`Plot.Lift` *Plot.Lift*

Description

Create a cumulative gains chart

Usage

```
Plot.Lift(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  ZVar = "N",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
```

```
  Height = NULL,
  Width = NULL,
  Title = "Confusion Matrix",
  ShowLabels = FALSE,
  Title.YAxis = "Lift",
  Title.XAxis = "Population",
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west

MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
TextColor	character hex
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.PartialDependence.Box(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.Line *Plot.Line*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Plot.Line(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  DualYVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  DualYVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
```

```
  Height = NULL,
  Width = NULL,
  Title = "Line Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  Area = FALSE,
  Alpha = 0.5,
  Smooth = TRUE,
  ShowSymbol = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  DarkMode = FALSE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
DualYVar	Secondary Y-Axis variables. Leave NULL for no secondary axis. Only one variable is allowed and when this is set only one YVar is allowed. An error will be thrown if those conditions are not met
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
DualYVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	NULL
Width	NULL
Title	"Title"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	Provide an "Echarts" theme
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
Area	logical
Alpha	0 to 1 for setting transparency
Smooth	= TRUE
ShowSymbol	= FALSE
TextColor	"Not Implemented"
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
DarkMode	FALSE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 1000)

# Build Line plot
AutoPlots::Plot.Line(
  dt = data,
  PreAgg = FALSE,
  AggMethod = "mean",
  XVar = "DateTime",
  YVar = "Independent_Variable3",
  YVarTrans = "LogPlus1",
  DualYVar = "Independent_Variable6",
  DualYVarTrans = "LogPlus1",
  GroupVar = NULL,
  EchartsTheme = "macarons")
```

Plot.MissingnessRates *Plot modeled-field missingness rates*

Description

Plot modeled-field missingness rates

Usage

```
Plot.MissingnessRates(
  missing_rates,
  Title = "Missingness by field",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

missing_rates	Named numeric proportions.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Bar()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.NeighborDistances

Plot ordered nearest-neighbor distances

Description

Plot ordered nearest-neighbor distances

Usage

```
Plot.NeighborDistances(
  distances,
  Title = "Neighbor distances",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

distances	Numeric neighbor distances.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.PACF *Plot.PACF*

Description

Build a partial autocorrelation plot by simply passing arguments to a single function

Usage

```
Plot.PACF(
  dt = NULL,
  YVar = NULL,
  DateVar = NULL,
  TimeUnit = NULL,
  MaxLags = 50,
  YVarTrans = "Identity",
  AggMethod = "sum",
  Height = NULL,
  Width = NULL,
  Title = "Partial Autocorrelation Plot",
  EchartsTheme = "macarons",
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
YVar	Y-Axis variable name
DateVar	Date column in data
TimeUnit	Select from "hour", "day", "week", "month", "quarter", "year"
MaxLags	Max value for lags to test
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Title	title
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
TextColor	'darkblue'
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Plot.Parallel *Plot.Parallel*

Description

Build a parallel plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.Parallel(
  dt = NULL,
  SampleSize = 50000,
  CorrVars = NULL,
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  PreAgg = FALSE,
  Height = NULL,
  Width = NULL,
  Title = "Parallel Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	Sample size
CorrVars	vector of variable names
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows

FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
PreAgg	logical
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TextColor	character hex
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
yaxis.fontSize	14
xaxis.fontSize	14
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create data
dt = AutoPlots::FakeDataGenerator(N = 100000)

# Create plot
AutoPlots::Plot.Parallel(
  dt = dt,
  SampleSize = 1000,
  CorrVars = c("Independent_Variable3",
               "Independent_Variable4",
               "Independent_Variable5",
               "Independent_Variable6",
               "Independent_Variable7"),
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Parallel Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  Debug = FALSE)
```

Plot.PartialDependence.Box

Plot.PartialDependence.Box

Description

This function automatically builds partial dependence calibration plots

Usage

```
Plot.PartialDependence.Box(
  dt = NULL,
  PreAgg = FALSE,
  SampleSize = 100000L,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Partial Dependence Box",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  EchartsLabels = FALSE,
  TimeLine = TRUE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
AggMethod	character
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
EchartsLabels	character
TimeLine	logical
TextColor	hex character
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.HeatMap(), Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.PartialDependence.HeatMap
Plot.PartialDependence.HeatMap

Description

This function automatically builds partial dependence calibration plots

Usage

```
Plot.PartialDependence.HeatMap(
  dt = NULL,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Partial Dependence Heatmap",
  ShowLabels = FALSE,
  MouseScroll = TRUE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  EchartsLabels = FALSE,
  TimeLine = TRUE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
GroupVar	Character variable

YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
AggMethod	character
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
MouseScroll	logical, zoom via mouse scroll
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
EchartsLabels	character
TimeLine	logical
TextColor	hex character
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

`Plot.PartialDependence.Line`

Plot.PartialDependence.Line

Description

This function automatically builds partial dependence calibration plots

Usage

```
Plot.PartialDependence.Line(
  dt = NULL,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  NumberBins = 20,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Partial Dependence Line",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  EchartsLabels = FALSE,
  TimeLine = TRUE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	character
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
GroupVar	Character variable
NumberBins	numeric
AggMethod	character
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
EchartsLabels	character
TimeLine	logical
TextColor	hex character
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.Pie *Plot.Pie*

Description

Build a pie chart by simply passing arguments to a single function

Usage

```
Plot.Pie(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Pie Chart",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
```

```
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Title	title
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo","essacut","fruit","gray","green","halloween","helianthus","infographic","inspired","jazz","london","dark","mapassion","red-velvet","red","roma","royal","sakura","shine","tech-blue","vintage","walden","wef","wefo
TimeLine	logical
TextColor	'darkblue'
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3

title.textShadowOffsetY
: 1

title.textShadowOffsetX
: -1

xaxis.fontSize
: 14

yaxis.fontSize
: 14

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = stats::runif(10000)), GV = sample(LETTERS, 1000, TRUE))

# Create plot
AutoPlots::Plot.Pie(
  dt = dt,
  PreAgg = FALSE,
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  Title = 'Pie Chart',
  ShowLabels = FALSE,
  Title.YAxis = NULL,
```

```
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE)
```

`Plot.ProbabilityPlot` *Plot.ProbabilityPlot*

Description

Build a normal probability plot

Usage

```
Plot.ProbabilityPlot(
  dt = NULL,
  SampleSize = 1000L,
  YVar = NULL,
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  Title = "Normal Probability Plot",
  ShowLabels = FALSE,
  EchartsTheme = "macarons",
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  tooltip.trigger = "axis",
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
YVar	Y-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
Height	"400px"
Width	"200px"
Title	'Violin Plot'
ShowLabels	character
EchartsTheme	"macaron"
TextColor	'darkblue'
title.fontSize	Default 22
title.fontWeight	Default "bold"
title.textShadowColor	Default '#63aeff'
title.textShadowBlur	Default 3
title.textShadowOffsetY	Default 1
title.textShadowOffsetX	Default -1
yaxis.fontSize	Default 14
yaxis.rotate	Default 0
ContainLabel	Default TRUE
tooltip.trigger	Default "axis"
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = stats::runif(10000)))

# Create plot
AutoPlots::Plot.ProbabilityPlot(
  dt = dt,
  SampleSize = 1000L,
  YVar = "Y",
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  Title = 'Normal Probability Plot',
  ShowLabels = FALSE,
  EchartsTheme = "blue",
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  tooltip.trigger = "axis",
  Debug = FALSE)
```

`Plot.prROC` *Plot.prROC*

Description

ROC Plot

Usage

```
Plot.prROC(
  dt = NULL,
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "ROC Plot",
  ShowLabels = FALSE,
  Title.YAxis = "True Positive Rate",
  Title.XAxis = "1 - False Positive Rate",
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	character
Height	"400px"

Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
TextColor	character hex
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.Radar *Plot.Radar*

Description

Plot.Radar

Usage

```
Plot.Radar(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  Title = "Radar Plot",
  ShowLabels = FALSE,
  EchartsTheme = "macarons",
  ShowSymbol = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  ContainLabel = TRUE,
  DarkMode = FALSE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
YVar	Y-Axis variable name. You can supply multiple YVars
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
Height	"400px"
Width	"200px"
Title	"Title"
ShowLabels	character
EchartsTheme	Provide an "Echarts" theme
ShowSymbol	= FALSE
TextColor	"Not Implemented"
title.fontSize	22
title.fontWeight	"bold"

title.textShadowColor
: '#63aeff'

title.textShadowBlur
: 3

title.textShadowOffsetY
: 1

title.textShadowOffsetX
: -1

ContainLabel
: TRUE

DarkMode
: FALSE

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create Data
dt <- data.table::data.table(Y = pnorm(q = stats::runif(8)), GV = sample(LETTERS[1:4], 8, TRUE))

# Create plot
AutoPlots::Plot.Radar(
  dt = dt,
  AggMethod = "mean",
  PreAgg = FALSE,
  YVar = "Y",
  GroupVar = "GV",
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  Title = 'Radar Plot',
  ShowLabels = FALSE,
  EchartsTheme = "macarons",
  ShowSymbol = FALSE,
```

```
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  ContainLabel = TRUE,
  DarkMode = FALSE,
  Debug = FALSE)
```

`Plot.Residuals.Histogram`

Plot.Residuals.Histogram

Description

Residuals Plot

Usage

```
Plot.Residuals.Histogram(
  dt = NULL,
  AggMethod = "mean",
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
  Height = NULL,
  Width = NULL,
  Title = "Residuals Histogram",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = "Target - Predicted",
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
```

```
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical

TextColor	Not Implemented
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.Residuals.Scatter

Plot.Residuals.Scatter

Description

Residuals_2 Plot

Usage

```
Plot.Residuals.Scatter(
  dt = NULL,
  AggMethod = "mean",
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  MouseScroll = TRUE,
  Title = "Residual Scatterplot",
  ShowLabels = FALSE,
  Title.YAxis = "Target - Predicted",
  Title.XAxis = "Predicted",
  EchartsTheme = "macarons",
  TimeLine = FALSE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"

Width	"200px"
MouseScroll	logical, zoom via mouse scroll
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
TimeLine	logical
TextColor	"Not Implemented"
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.River *Plot.River*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Plot.River(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "River Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  ShowSymbol = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
Title	"Title"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	Provide an "Echarts" theme
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
ShowSymbol	= FALSE
TextColor	"Not Implemented"
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 1000)

# Build plot
AutoPlots::Plot.River(
  dt = data,
  PreAgg = FALSE,
  AggMethod = "mean",
  XVar = "DateTime",
  YVar = c(
    "Independent_Variable1",
    "Independent_Variable2",
    "Independent_Variable3",
    "Independent_Variable4",
    "Independent_Variable5"),
  YVarTrans = "Identity",
  TextColor = "black",
  EchartsTheme = "macarons")
```

Plot.ROC *Plot.ROC*

Description

ROC Plot

Usage

```
Plot.ROC(
  dt = NULL,
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
```

```
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "ROC Plot",
  ShowLabels = FALSE,
  Title.YAxis = "True Positive Rate",
  Title.XAxis = "1 - False Positive Rate",
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	character
Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character

EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
TextColor	character hex
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.Rosetype *Plot.Rosetype*

Description

Build a donut plot by simply passing arguments to a single function

Usage

```
Plot.Rosetype(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
```

```
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Donut Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Title	title
ShowLabels	character

Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo","ess cut","fruit","gray","green","halloween","helianthus","infographic","inspired","jazz","london","dark","ma passion","red-velvet","red","roma","royal","sakura","shine","tech-blue","vintage","walden","wef","wefo
TimeLine	logical
TextColor	'darkblue'
title.fontSize	Defaults to size 22. Numeric. This changes the size of the title.
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = stats::runif(10000)), GV = sample(LETTERS, 1000, TRUE))

# Create plot
```

```
AutoPlots::Plot.Rosetype(
  dt = dt,
  PreAgg = FALSE,
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  Title = 'Pie Chart',
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE)
```

`Plot.Scatter` *Plot.Scatter*

Description

Build a copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.Scatter(
  dt = NULL,
  SampleSize = 30000L,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
```

```
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Scatter Plot",
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  tooltip.trigger = "axis",
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.

Height	"400px"
Width	"200px"
Title	character
ShowLabels	character
AddGLM	logical
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
TextColor	character hex
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
yaxis.fontSize	14
xaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
ContainLabel	TRUE
tooltip.trigger	"axis"
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)
data[, Independent_Variable8 := Independent_Variable8 * stats::runif(.N)]

# Echarts Scatter Plot Chart
AutoPlots::Plot.Scatter(
  dt = data,
  SampleSize = 10000,
  XVar = "Independent_Variable10",
  YVar = "Independent_Variable8",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = 'Scatter Plot',
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "blue",
  MouseScroll = TRUE,
  TimeLine = FALSE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  tooltip.trigger = "axis",
```

```
  Debug = FALSE)
```

`Plot.Scatter3D` *Plot.Scatter3D*

Description

Build a 3D-copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Plot.Scatter3D(
  dt = NULL,
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "3D Scatter",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  zaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  zaxis.rotate = 0,
```

```
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
GroupVar	Requires an XVar and YVar already be defined
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
Title	'Violin Plot'
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	= "macaron"
TimeLine	Logical
TextColor	'darkblue'
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3

title.textShadowOffsetY	1
title.textShadowOffsetX	-1
yaxis.fontSize	14
xaxis.fontSize	14
zaxis.fontSize	14
xaxis.rotate	0
yaxis.rotate	0
zaxis.rotate	0
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)
data[, Independent_Variable9 := Independent_Variable9 * stats::runif(.N)]

# Echarts Copula Plot Chart
AutoPlots::Plot.Scatter3D(
  dt = data,
  SampleSize = 10000,
  XVar = "Adrian",
  YVar = "Independent_Variable9",
  ZVar = "Independent_Variable6",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
```

```
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  Height = NULL,
  Width = NULL,
  Title = 'Copula 3D',
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = FALSE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  zaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  zaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

`Plot.ShapImportance` *Plot.ShapImportance*

Description

Plot.ShapImportance variable importance

Usage

```
Plot.ShapImportance(
  dt,
  PreAgg = FALSE,
  AggMethod = "meanabs",
  YVar = NULL,
  GroupVar = NULL,
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_X = 33,
```

```
  NumLevels_Y = 33,
  Height = NULL,
  Width = NULL,
  Title = "Shap Importance",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "dark",
  TextColor = "white",
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
AggMethod	"mean", "median", "sum", "sd", "skewness","kurtosis", "coeffvar", "meanabs", "medianabs", "sumabs", "sdabs", "skewnessabs", "kurtosisabs", "CoeffVarabs"
YVar	Names of shap columns
GroupVar	Name of by variable
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21
NumLevels_X	= 20
NumLevels_Y	= 20
Height	"400px"
Width	"200px"
Title	"Heatmap"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"dark-blue"
TextColor	character
Debug	= FALSE

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.StackedBar *Plot.StackedBar*

Description

Build a stacked bar plot vs a grouped bar plot

Usage

```
Plot.StackedBar(
  dt = NULL,
  PreAgg = FALSE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Stacked Bar",
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  ShowLabels = FALSE,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
```

```
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	NULL
Width	NULL
Title	title
Title.YAxis	NULL. If NULL, YVar name will be used
Title.XAxis	NULL. If NULL, XVar name will be used
ShowLabels	logical
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
TextColor	'darkblue'

title.fontSize 22
title.fontWeight
"bold"
title.textShadowColor
'#63aeff'
title.textShadowBlur
3
title.textShadowOffsetY
1
title.textShadowOffsetX
-1
yaxis.fontSize 14
xaxis.fontSize 14
xaxis.rotate 0
yaxis.rotate 0
ContainLabel TRUE
Debug Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)

# Echarts Stacked Bar Chart
AutoPlots::Plot.StackedBar(
  dt = data,
  PreAgg = FALSE,
  XVar = "Factor_1",
  YVar = "Adrian",
```

```
  GroupVar = "Factor_2",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  Title = "Stacked Bar",
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  ShowLabels = FALSE,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  yaxis.fontSize = 14,
  xaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

`Plot.StandardPlots` *Plot.StandardPlots*

Description

Helper for standard plots

Usage

```
Plot.StandardPlots(
  dt = NULL,
  PreAgg = FALSE,
  PlotType = "Scatter",
  SampleSize = 100000L,
  AggMethod = "mean",
  NumberBins = 30,
  YVar = NULL,
  DualYVar = NULL,
  XVar = NULL,
```

```
  ZVar = NULL,
  GroupVar = NULL,
  YVarTrans = NULL,
  DualYVarTrans = NULL,
  XVarTrans = NULL,
  ZVarTrans = NULL,
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  EchartsTheme = "dark-blue",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  Title = NULL,
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  NumLevels_Y = 75,
  NumLevels_X = 40,
  TextColor = "white",
  FontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	FALSE
PlotType	character
SampleSize	character
AggMethod	character
NumberBins	For histograms
YVar	Y-Axis variable name
DualYVar	Secondary Axis for Line, Step, and Area plots
XVar	X-Axis variable name
ZVar	Z-Axis variable name
GroupVar	Character variable variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
DualYVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	NULL or valid css unit
Width	NULL or valid css unit
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
MouseScroll	logical, zoom via mouse scroll
TimeLine	character
Title	character
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
NumLevels_Y	Numeric
NumLevels_X	Numeric
TextColor	character
FontSize	numeric
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Auto Plotting: `Plots.ModelEvaluation()`

Plot.Step *Plot.Step*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Plot.Step(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  DualYVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  DualYVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Line Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  MouseScroll = TRUE,
  TimeLine = TRUE,
  ShowSymbol = FALSE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
```

)

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
DualYVar	Secondary Y-Axis variables. Leave NULL for no secondary axis. Only one variable is allowed and when this is set only one YVar is allowed. An error will be thrown if those conditions are not met
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
DualYVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
Title	"Title"
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	Provide an "Echarts" theme
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
ShowSymbol	= FALSE
TextColor	"Not Implemented"
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'

title.textShadowBlur
: 3

title.textShadowOffsetY
: 1

title.textShadowOffsetX
: -1

xaxis.fontSize
: 14

yaxis.fontSize
: 14

xaxis.rotate
: 0

yaxis.rotate
: 0

ContainLabel
: TRUE

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 1000)

# Build plot
AutoPlots::Plot.Step(
  dt = data,
  PreAgg = FALSE,
  AggMethod = "mean",
  XVar = "DateTime",
  YVar = "Independent_Variable3",
  YVarTrans = "Identity",
  DualYVar = "Independent_Variable6",
  DualYVarTrans = "Identity",
  GroupVar = NULL,
  EchartsTheme = "macarons")
```

Plot.TemporalEvents *Plot a temporal signal with governed event markers*

Description

Plot a temporal signal with governed event markers

Usage

```
Plot.TemporalEvents(
  time,
  value,
  events = integer(),
  event_label = "Detected event",
  Title = "Temporal diagnostics",
  EchartsTheme = "macarons",
  ...
)
```

Arguments

time, value	Ordered time and numeric values.
events	Optional positions marking motifs, discords, anomalies, or changes.
event_label	Legend label for event markers.
Title	Plot title.
EchartsTheme	AutoPlots theme.
...	Additional arguments passed to [Line()].

Value

An ‘echarts4r‘ htmlwidget.

Plot.VariableImportance *Plot.VariableImportance*

Description

Generate variable importance plots

Usage

```
Plot.VariableImportance(
  dt = NULL,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  Title = "Variable Importance Plot",
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "macarons",
  TimeLine = TRUE,
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  Debug = FALSE
)
```

Arguments

dt	source data.table
XVar	Column name of X-Axis variable. If NULL then ignored
YVar	Column name of Y-Axis variable. If NULL then ignored
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns

FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
Title	title
ShowLabels	character
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west
TimeLine	logical
TextColor	'darkblue'
title.fontSize	22
title.fontWeight	"bold"
title.textShadowColor	'#63aeff'
title.textShadowBlur	3
title.textShadowOffsetY	1
title.textShadowOffsetX	-1
xaxis.fontSize	14
yaxis.fontSize	14
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance(), VariableImportance()

Plot.WordCloud *Plot.WordCloud*

Description

WordCloud plots

Usage

```
Plot.WordCloud(
  dt = NULL,
  YVar = NULL,
  Height = NULL,
  Width = NULL,
  Title = "Word Cloud",
  EchartsTheme = "macarons",
  TextColor = "white",
  title.fontSize = 22,
  title.fontWeight = "bold",
  title.textShadowColor = "#63aeff",
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE
)
```

Arguments

dt	source data.table
YVar	Y-Axis variable name
Height	"400px"
Width	"200px"
Title	= "Density Plot"
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","roy "sakura","shine","tech-blue","vintage","walden","wef","weforum","westeros","wonderland"
TextColor	"white",
title.fontSize	22

title.fontWeight
: "bold"

title.textShadowColor
: '#63aeff'

title.textShadowBlur
: 3

title.textShadowOffsetY
: 1

title.textShadowOffsetX
: -1

xaxis.fontSize
: 14

yaxis.fontSize
: 14

xaxis.rotate
: 0

yaxis.rotate
: 0

ContainLabel
: TRUE

Debug
: Debugging purposes

Value

plot

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- FakeDataGenerator(AddComment = TRUE)

# Create plot
AutoPlots::Plot.WordCloud(
  dt = dt,
  YVar = "Comment",
  Height = NULL,
  Width = NULL,
  Title = "Word Cloud",
  EchartsTheme = "macarons",
  TextColor = "black",
  title.fontSize = 22,
  title.fontWeight = "bold",
```

```
  title.textShadowColor = '#63aeff',
  title.textShadowBlur = 3,
  title.textShadowOffsetY = 1,
  title.textShadowOffsetX = -1,
  xaxis.fontSize = 14,
  yaxis.fontSize = 14,
  xaxis.rotate = 0,
  yaxis.rotate = 0,
  ContainLabel = TRUE,
  Debug = FALSE)
```

`Plots.ModelEvaluation` *Plots.ModelEvaluation*

Description

Plot helper for model evaluation plot types

Usage

```
Plots.ModelEvaluation(
  dt = NULL,
  AggMethod = "mean",
  SampleSize = 100000L,
  PlotType = NULL,
  YVar = NULL,
  TargetLevel = NULL,
  ZVar = NULL,
  XVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumLevels_Y = 75,
  NumLevels_X = 40,
  MouseScroll = FALSE,
  Height = NULL,
  Width = NULL,
  Title = NULL,
  ShowLabels = FALSE,
  Title.YAxis = NULL,
  Title.XAxis = NULL,
  EchartsTheme = "dark-blue",
  TimeLine = FALSE,
```

```
  TextColor = "white",
  FontSize = 14L,
  NumberBins = 20,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
SampleSize	100000L
PlotType	character
YVar	Y-Axis variable name
TargetLevel	character
ZVar	Z-Axis variable name
XVar	X-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumLevels_Y	= 75
NumLevels_X	= 40
MouseScroll	logical, zoom via mouse scroll
Height	"400px"
Width	"200px"
Title	character
ShowLabels	logical
Title.YAxis	character
Title.XAxis	character
EchartsTheme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo", #' "essos","forest","fresh-cut","fruit","gray","green","halloween","helianthus","infographic","inspired", #' "jazz","london","dark","macarons","macarons2","mint","purple-passion","red-velvet","red","roma","royal", #' "sakura","shine","tech-blue","vintage","walden","wef","weforum","west

TimeLine	logical
TextColor	hex
FontSize	numeric
NumberBins	numeric
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Auto Plotting: Plot.StandardPlots()

ProbabilityPlot *ProbabilityPlot*

Description

Build a normal probability plot

Usage

```
ProbabilityPlot(
  dt = NULL,
  SampleSize = 1000L,
  YVar = NULL,
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  title.text = "Probability Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
```

```
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table

SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
YVar	Y-Axis variable name
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.subtextStyle.fontSize
: numeric

title.subtextStyle.lineHeight
: numeric

title.subtextStyle.width
: numeric

title.subtextStyle.height
: numeric

title.subtextStyle.textBorderColor
: hex or name

title.subtextStyle.textBorderWidth
: numeric

title.subtextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.subtextStyle.textBorderDashOffset
: numeric

title.subtextStyle.textShadowColor
: numeric

title.subtextStyle.textShadowBlur
: numeric

title.subtextStyle.textShadowOffsetX
: numeric

title.subtextStyle.textShadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = runif(10000)))

# Create plot
AutoPlots::ProbabilityPlot(
  dt = dt,
  SampleSize = 1000L,
  YVar = "Y",
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "blue",
  Debug = FALSE)
```

---

qa_autoplots_package *Run AutoPlots installed-package QA*

Description

Runs the stable installed-package QA contract for AutoPlots. This public entry point validates representative rendering and layout contracts while keeping implementation-specific QA helpers internal.

Usage

```
qa_autoplots_package()
```

Value

A data.table with QA check rows and normalized status values.

Examples

```
## Not run:
qa_autoplots_package()

## End(Not run)
```

Radar *Radar*

Description

Radar

Usage

```
Radar(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  ShowSymbol = FALSE,
  DarkMode = FALSE,
  lineStyle.color = NULL,
  title.text = "Radar Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
```

```
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
title.subtextStyle.lineHeight = NULL,
title.subtextStyle.width = NULL,
title.subtextStyle.height = NULL,
title.subtextStyle.textBorderColor = NULL,
title.subtextStyle.textBorderWidth = NULL,
title.subtextStyle.textBorderType = NULL,
title.subtextStyle.textBorderDashOffset = NULL,
title.subtextStyle.textShadowColor = NULL,
title.subtextStyle.textShadowBlur = NULL,
title.subtextStyle.textShadowOffsetX = NULL,
title.subtextStyle.textShadowOffsetY = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
```

```
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
```

```
legend.pageTextStyle.fontWeight = NULL,
legend.pageTextStyle.fontFamily = "Segoe UI",
legend.pageTextStyle.fontSize = NULL,
legend.pageTextStyle.lineHeight = NULL,
legend.pageTextStyle.width = NULL,
legend.pageTextStyle.height = NULL,
legend.pageTextStyle.textBorderColor = NULL,
legend.pageTextStyle.textBorderWidth = NULL,
legend.pageTextStyle.textBorderType = NULL,
legend.pageTextStyle.textShadowColor = NULL,
legend.pageTextStyle.textShadowBlur = NULL,
legend.pageTextStyle.textShadowOffsetX = NULL,
legend.pageTextStyle.textShadowOffsetY = NULL,
legend.emphasis.selectorLabel.show = NULL,
legend.emphasis.selectorLabel.distance = NULL,
legend.emphasis.selectorLabel.rotate = NULL,
legend.emphasis.selectorLabel.color = NULL,
legend.emphasis.selectorLabel.fontStyle = NULL,
legend.emphasis.selectorLabel.fontWeight = NULL,
legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
legend.emphasis.selectorLabel.fontSize = NULL,
legend.emphasis.selectorLabel.align = NULL,
legend.emphasis.selectorLabel.verticalAlign = NULL,
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "item",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
```

```
  tooltip.padding = NULL,
  tooltip.axisPointer.type = "cross",
  tooltip.axisPointer.lineStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
  tooltip.axisPointer.shadowStyle.opacity = NULL,
  tooltip.textStyle.color = NULL,
  tooltip.textStyle.fontStyle = NULL,
  tooltip.textStyle.fontWeight = NULL,
  tooltip.textStyle.fontFamily = "Segoe UI",
  tooltip.textStyle.lineHeight = NULL,
  tooltip.textStyle.width = NULL,
  tooltip.textStyle.height = NULL,
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
YVar	Y-Axis variable name. You can supply multiple YVars
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
ShowSymbol	= FALSE
DarkMode	FALSE
lineStyle.color	hex or name for radar lines
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric

`title.shadowColor`
: hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`legend.show` logical

`legend.type` 'scroll' 'plain'

`legend.selector`
: logical

`legend.icon` 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`legend.align` 'auto' 'left' 'right'

`legend.padding` numeric

`legend.itemGap` numeric

`legend.itemWidth`
: numeric

`legend.orient` 'vertical' 'horizontal'

`legend.width` numeric

`legend.height` numeric

`legend.left` numeric

legend.right numeric

legend.top numeric

legend.bottom numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

legend.shadowOffsetY
: numeric

legend.itemStyle.color
: hex or color name

legend.itemStyle.borderColor
: hex or color name

legend.itemStyle.borderWidth
: numeric

legend.itemStyle.borderType
: 'solid' 'dashed' 'dotted'

legend.itemStyle.shadowBlur
: numeric

legend.itemStyle.shadowColor
: hex or color name

legend.itemStyle.shadowOffsetX
: numeric

legend.itemStyle.shadowOffsetY
: numeric

legend.itemStyle.opacity
: numeric 0 to 1

legend.lineStyle.color
: hex or color name

legend.lineStyle.width
: numeric

legend.lineStyle.type
: 'solid' 'dashed' 'dotted'

legend.lineStyle.shadowBlur
: numeric

legend.lineStyle.shadowColor
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

legend.textStyle.textBorderWidth
: numeric

legend.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.textShadowColor
: hex or color name

legend.textStyle.textShadowBlur
: numeric

legend.textStyle.textShadowOffsetX
: numeric

legend.textStyle.textShadowOffsetY
: numeric

legend.pageTextStyle.color
: hex or color name

legend.pageTextStyle.fontStyle
: 'normal' 'italic' 'oblique'

legend.pageTextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.pageTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.pageTextStyle.fontSize
: numeric

legend.pageTextStyle.lineHeight
: numeric

legend.pageTextStyle.width
: numeric

legend.pageTextStyle.height
: numeric

legend.pageTextStyle.textBorderColor
: hex or color name

legend.pageTextStyle.textBorderWidth
: numeric

legend.pageTextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.pageTextStyle.textShadowColor
: hex or color name

legend.pageTextStyle.textShadowBlur
: numeric

legend.pageTextStyle.textShadowOffsetX
: numeric

legend.pageTextStyle.textShadowOffsetY
: numeric

legend.emphasis.selectorLabel.show
: logical

legend.emphasis.selectorLabel.distance
: numeric

legend.emphasis.selectorLabel.rotate
numeric
legend.emphasis.selectorLabel.color
hex or color name
legend.emphasis.selectorLabel.fontStyle
'normal' 'italic' 'oblique'
legend.emphasis.selectorLabel.fontWeight
'normal' 'bold' 'bolder' 'lighter'
legend.emphasis.selectorLabel.fontFamily
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
legend.emphasis.selectorLabel.fontSize
numeric
legend.emphasis.selectorLabel.align
'left' 'center' 'right'
legend.emphasis.selectorLabel.verticalAlign
'top' 'middle' 'bottom'
legend.emphasis.selectorLabel.lineHeight
numeric
legend.emphasis.selectorLabel.backgroundColor
hex or color name
legend.emphasis.selectorLabel.borderColor
hex or color name
legend.emphasis.selectorLabel.borderWidth
numeric
legend.emphasis.selectorLabel.borderType
'solid' 'dashed' 'dotted'
legend.emphasis.selectorLabel.borderRadius
numeric
legend.emphasis.selectorLabel.padding
numeric
legend.emphasis.selectorLabel.shadowColor
hex or color name
legend.emphasis.selectorLabel.shadowBlur
numeric
legend.emphasis.selectorLabel.shadowOffsetX
numeric
legend.emphasis.selectorLabel.shadowOffsetY
numeric
legend.emphasis.selectorLabel.width
numeric
legend.emphasis.selectorLabel.height
numeric
legend.emphasis.selectorLabel.textBorderColor
hex or color name
legend.emphasis.selectorLabel.textBorderWidth
numeric

`legend.emphasis.selectorLabel.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.textShadowColor`
: hex or color name

`legend.emphasis.selectorLabel.textShadowBlur`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show`
: logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

`toolbox.feature.dataZoom.show`
: logical

`toolbox.feature.magicType.show`
: logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create Data
dt <- data.table::data.table(Y = pnorm(q = runif(8)), GV = sample(LETTERS[1:4], 8, TRUE))

# Create plot
AutoPlots::Radar(
  dt = dt,
  AggMethod = "mean",
  PreAgg = TRUE,
  YVar = "Y",
  GroupVar = "GV",
  YVarTrans = "Identity",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  ShowSymbol = FALSE,

  DarkMode = FALSE,
```

```
  Debug = FALSE)
```

`Residuals.Histogram` *Residuals.Histogram*

Description

Residuals Plot

Usage

```
Residuals.Histogram(
  dt = NULL,
  AggMethod = "mean",
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 20,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

`dt`	source data.table
`AggMethod`	character
`SampleSize`	numeric
`XVar`	X-Axis variable name
`YVar`	Y-Axis variable name
`GroupVar`	Character variable

YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	numeric
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: `BinaryMetricsPlot()`, `Calibration.Box()`, `Calibration.Line()`, `ConfusionMatrix()`, `Gains()`, `ImportancePareto()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMa`
`PartialDependence.Line()`, `Plot.BinaryMetrics()`, `Plot.Calibration.Box()`, `Plot.Calibration.Line()`, `Plot.ConfusionMatrix()`, `Plot.Gains()`, `Plot.Lift()`, `Plot.PartialDependence.Box()`, `Plot.PartialDependence.`
`Plot.PartialDependence.Line()`, `Plot.ROC()`, `Plot.Residuals.Histogram()`, `Plot.Residuals.Scatter()`, `Plot.ShapImportance()`, `Plot.VariableImportance()`, `Plot.prROC()`, `ROC()`, `Residuals.Scatter()`, `ShapImportance()`, `VariableImportance()`

`Residuals.Scatter` *Residuals.Scatter*

Description

Residuals_2 Plot

Usage

```
Residuals.Scatter(
  dt = NULL,
  AggMethod = "mean",
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  MouseScroll = FALSE,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

`dt`	source data.table
`AggMethod`	character
`SampleSize`	numeric
`XVar`	X-Axis variable name
`YVar`	Y-Axis variable name
`GroupVar`	Character variable
`YVarTrans`	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
`XVarTrans`	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"

FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
MouseScroll	logical, zoom via mouse scroll
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), ShapImportance(), VariableImportance()

River *River*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
River(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  ShowSymbol = FALSE,
  itemStyle.color = NULL,
  title.text = "River Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
```

```
    title.shadowOffsetX = NULL,
    title.shadowOffsetY = NULL,
    title.textStyle.color = NULL,
    title.textStyle.fontStyle = NULL,
    title.textStyle.fontWeight = NULL,
    title.textStyle.fontFamily = "Segoe UI",
    title.textStyle.fontSize = NULL,
    title.textStyle.lineHeight = NULL,
    title.textStyle.width = NULL,
    title.textStyle.height = NULL,
    title.textStyle.textBorderColor = NULL,
    title.textStyle.textBorderWidth = NULL,
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    legend.show = TRUE,
    legend.type = "scroll",
    legend.selector = NULL,
    legend.icon = NULL,
    legend.align = NULL,
    legend.padding = NULL,
    legend.itemGap = NULL,
    legend.itemWidth = NULL,
    legend.orient = "vertical",
    legend.width = NULL,
    legend.height = NULL,
    legend.left = NULL,
    legend.right = 30,
```

```
legend.top = 45,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
legend.lineStyle.shadowBlur = NULL,
legend.lineStyle.shadowColor = NULL,
legend.lineStyle.shadowOffsetX = NULL,
legend.lineStyle.shadowOffsetY = NULL,
legend.lineStyle.opacity = NULL,
legend.lineStyle.inactiveColor = NULL,
legend.lineStyle.inactiveWidth = NULL,
legend.textStyle.color = NULL,
legend.textStyle.fontStyle = NULL,
legend.textStyle.fontWeight = NULL,
legend.textStyle.fontFamily = "Segoe UI",
legend.textStyle.fontSize = NULL,
legend.textStyle.backgroundColor = NULL,
legend.textStyle.borderColor = NULL,
legend.textStyle.borderWidth = NULL,
legend.textStyle.borderType = NULL,
legend.textStyle.borderRadius = NULL,
legend.textStyle.padding = NULL,
legend.textStyle.shadowColor = NULL,
legend.textStyle.shadowBlur = NULL,
legend.textStyle.shadowOffsetX = NULL,
legend.textStyle.shadowOffsetY = NULL,
legend.textStyle.width = NULL,
legend.textStyle.height = NULL,
legend.textStyle.textBorderColor = NULL,
legend.textStyle.textBorderWidth = NULL,
```

```
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
```

```
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.heigth = NULL,
toolbox.feature.saveAsImage.show = TRUE,
toolbox.feature.restore.show = FALSE,
toolbox.feature.dataZoom.show = FALSE,
toolbox.feature.magicType.show = FALSE,
toolbox.feature.magicType.type = NULL,
toolbox.feature.dataView.show = TRUE,
toolbox.iconStyle.color = NULL,
toolbox.iconStyle.borderColor = NULL,
toolbox.emphasis.iconStyle.borderColor = NULL,
```

```
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
ShowSymbol	= FALSE
itemStyle.color	color or hex
title.text	Title name
title.subtext	Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

`title.textStyle.textBorderColor`
hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`legend.show`
: logical

`legend.type`
: 'scroll' 'plain'

`legend.selector`
: logical

`legend.icon`
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`legend.align`
: 'auto' 'left' 'right'

`legend.padding`
: numeric

`legend.itemGap`
: numeric

`legend.itemWidth`
: numeric

`legend.orient`
: 'vertical' 'horizontal'

`legend.width`
: numeric

`legend.height`
: numeric

`legend.left`
: numeric

`legend.right`
: numeric

`legend.top`
: numeric

`legend.bottom`
: numeric

`legend.backgroundColor`
: hex or color name

`legend.borderColor`
: hex or color name

`legend.borderWidth`
: numeric

`legend.borderRadius`
: numeric

`legend.shadowBlur`
: numeric

`legend.shadowColor`
: hex or color name

`legend.shadowOffsetX`
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

legend.itemStyle.shadowBlur
: numeric

legend.itemStyle.shadowColor
: hex or color name

legend.itemStyle.shadowOffsetX
: numeric

legend.itemStyle.shadowOffsetY
: numeric

legend.itemStyle.opacity
: numeric 0 to 1

legend.lineStyle.color
: hex or color name

legend.lineStyle.width
: numeric

legend.lineStyle.type
: 'solid' 'dashed' 'dotted'

legend.lineStyle.shadowBlur
: numeric

legend.lineStyle.shadowColor
: hex or color name

legend.lineStyle.shadowOffsetX
: numeric

legend.lineStyle.shadowOffsetY
: numeric

legend.lineStyle.opacity
: numeric 0 to 1

legend.lineStyle.inactiveColor
: hex or color name

legend.lineStyle.inactiveWidth
: numeric

legend.textStyle.color
: hex or color name

legend.textStyle.fontStyle
: 'normal' 'italic' 'oblique'

legend.textStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.textStyle.fontSize
: numeric

legend.textStyle.backgroundColor
: hex or color name

legend.textStyle.borderColor
: hex or color name

legend.textStyle.borderWidth
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

legend.pageTextStyle.height
: numeric

legend.pageTextStyle.textBorderColor
: hex or color name

legend.pageTextStyle.textBorderWidth
: numeric

legend.pageTextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.pageTextStyle.textShadowColor
: hex or color name

legend.pageTextStyle.textShadowBlur
: numeric

legend.pageTextStyle.textShadowOffsetX
: numeric

legend.pageTextStyle.textShadowOffsetY
: numeric

legend.emphasis.selectorLabel.show
: logical

legend.emphasis.selectorLabel.distance
: numeric

legend.emphasis.selectorLabel.rotate
: numeric

legend.emphasis.selectorLabel.color
: hex or color name

legend.emphasis.selectorLabel.fontStyle
: 'normal' 'italic' 'oblique'

legend.emphasis.selectorLabel.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show` logical

`toolbox.feature.restore.show` logical

`toolbox.feature.dataZoom.show` logical

`toolbox.feature.magicType.show` logical

`toolbox.feature.magicType.type` 'bar' 'line' 'stack'

`toolbox.feature.dataView.show` logical

`toolbox.iconStyle.color` hex

`toolbox.iconStyle.borderColor` hex

`toolbox.emphasis.iconStyle.borderColor` hex

`toolbox.iconStyle.shadowBlur` numeric

`toolbox.iconStyle.shadowColor` hex

`toolbox.iconStyle.shadowOffsetX` numeric

`toolbox.iconStyle.shadowOffsetY` numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: `ACF()`, `Area()`, `Bar()`, `BarPlot3D()`, `Box()`, `Copula()`, `Copula3D()`, `CorrMatrix()`, `Density()`, `Donut()`, `HeatMap()`, `Histogram()`, `Line()`, `PACF()`, `Parallel()`, `Pie()`, `Plot.ACF()`, `Plot.Area()`, `Plot.Bar()`, `Plot.BarPlot3D()`, `Plot.Box()`, `Plot.Copula()`, `Plot.Copula3D()`, `Plot.CorrMatrix()`, `Plot.Density()`, `Plot.Donut()`, `Plot.HeatMap()`, `Plot.Histogram()`,

Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
dates <- seq.Date(Sys.Date() - 30, Sys.Date(), by = "day")
grps <- lapply(LETTERS[1:5], rep, 31) |> unlist()
dt <- data.table::data.table(
  dates = rep(dates, 5),
  groups = grps,
  values = runif(length(grps), 1, 50)
)

# Build Plot
AutoPlots::River(
  dt = dt,
  PreAgg = TRUE,
  XVar = "dates",
  YVar = "values",
  GroupVar = "groups",
  legend.orient = "horizontal",
  itemStyle.color = c("#FF4C4C", "#00BFFF", "#FFD700", "#32CD32", "#FF69B4")
)
```

ROC *ROC*

Description

ROC Plot

Usage

```
ROC(
  dt = NULL,
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
```

```
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  title.text = NULL,
  yAxis.title = NULL,
  xAxis.title = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	character
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: `BinaryMetricsPlot()`, `Calibration.Box()`, `Calibration.Line()`, `ConfusionMatrix()`, `Gains()`, `ImportancePareto()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMa`
`PartialDependence.Line()`, `Plot.BinaryMetrics()`, `Plot.Calibration.Box()`, `Plot.Calibration.Line()`, `Plot.ConfusionMatrix()`, `Plot.Gains()`, `Plot.Lift()`, `Plot.PartialDependence.Box()`, `Plot.PartialDependence.`
`Plot.PartialDependence.Line()`, `Plot.ROC()`, `Plot.Residuals.Histogram()`, `Plot.Residuals.Scatter()`, `Plot.ShapImportance()`, `Plot.VariableImportance()`, `Plot.prROC()`, `Residuals.Histogram()`, `Residuals.Scatter()`, `ShapImportance()`, `VariableImportance()`

`Rosetype` *Rosetype*

Description

Build a donut plot by simply passing arguments to a single function

Usage

```
Rosetype(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  ShowLabels = TRUE,
  Theme = "dark",
  TimeLine = FALSE,
  title.text = "Rosetype Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
```

```
    title.Align = "left",
    title.top = NULL,
    title.left = "left",
    title.right = NULL,
    title.bottom = NULL,
    title.padding = NULL,
    title.itemGap = NULL,
    title.backgroundColor = NULL,
    title.borderColor = NULL,
    title.borderWidth = NULL,
    title.borderRadius = NULL,
    title.shadowColor = NULL,
    title.shadowBlur = NULL,
    title.shadowOffsetX = NULL,
    title.shadowOffsetY = NULL,
    title.textStyle.color = NULL,
    title.textStyle.fontStyle = NULL,
    title.textStyle.fontWeight = NULL,
    title.textStyle.fontFamily = "Segoe UI",
    title.textStyle.fontSize = NULL,
    title.textStyle.lineHeight = NULL,
    title.textStyle.width = NULL,
    title.textStyle.height = NULL,
    title.textStyle.textBorderColor = NULL,
    title.textStyle.textBorderWidth = NULL,
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
```

```
    legend.show = TRUE,
    legend.type = "scroll",
    legend.selector = NULL,
    legend.icon = NULL,
    legend.align = NULL,
    legend.padding = NULL,
    legend.itemGap = NULL,
    legend.itemWidth = NULL,
    legend.orient = "vertical",
    legend.width = NULL,
    legend.height = NULL,
    legend.left = NULL,
    legend.right = 10,
    legend.top = 30,
    legend.bottom = NULL,
    legend.backgroundColor = NULL,
    legend.borderColor = NULL,
    legend.borderWidth = NULL,
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
```

```
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
    legend.emphasis.selectorLabel.lineHeight = NULL,
    legend.emphasis.selectorLabel.backgroundColor = NULL,
    legend.emphasis.selectorLabel.borderColor = NULL,
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
```

```
  legend.emphasis.selectorLabel.borderRadius = NULL,
  legend.emphasis.selectorLabel.padding = NULL,
  legend.emphasis.selectorLabel.shadowColor = NULL,
  legend.emphasis.selectorLabel.shadowBlur = NULL,
  legend.emphasis.selectorLabel.shadowOffsetX = NULL,
  legend.emphasis.selectorLabel.shadowOffsetY = NULL,
  legend.emphasis.selectorLabel.width = NULL,
  legend.emphasis.selectorLabel.height = NULL,
  legend.emphasis.selectorLabel.textBorderColor = NULL,
  legend.emphasis.selectorLabel.textBorderWidth = NULL,
  legend.emphasis.selectorLabel.textBorderType = NULL,
  legend.emphasis.selectorLabel.textShadowColor = NULL,
  legend.emphasis.selectorLabel.textShadowBlur = NULL,
  legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
  legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
  tooltip.show = TRUE,
  tooltip.trigger = "item",
  tooltip.backgroundColor = NULL,
  tooltip.borderColor = NULL,
  tooltip.borderWidth = NULL,
  tooltip.padding = NULL,
  tooltip.axisPointer.type = "cross",
  tooltip.axisPointer.lineStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.color = NULL,
  tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
  tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
  tooltip.axisPointer.shadowStyle.opacity = NULL,
  tooltip.textStyle.color = NULL,
  tooltip.textStyle.fontStyle = NULL,
  tooltip.textStyle.fontWeight = NULL,
  tooltip.textStyle.fontFamily = "Segoe UI",
  tooltip.textStyle.lineHeight = NULL,
  tooltip.textStyle.width = NULL,
  tooltip.textStyle.height = NULL,
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
```

```
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = FALSE,
  toolbox.feature.magicType.show = FALSE,
  toolbox.feature.magicType.type = NULL,
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus","azul","bee-inspired","blue","caravan","carp","chalk","cool","dark-bold","dark","eduardo","ess cut","fruit","gray","green","halloween","helianthus","infographic","inspired","jazz","london","dark","ma passion","red-velvet","red","roma","royal","sakura","shine","tech-blue","vintage","walden","wef","wefo

`TimeLine` logical

`title.text` Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
numeric
`title.subtextStyle.textShadowOffsetX`
numeric
`title.subtextStyle.textShadowOffsetY`
numeric
`legend.show` logical
`legend.type` 'scroll' 'plain'
`legend.selector`
logical
`legend.icon` 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'
`legend.align` 'auto' 'left' 'right'
`legend.padding` numeric
`legend.itemGap` numeric
`legend.itemWidth`
numeric
`legend.orient` 'vertical' 'horizontal'
`legend.width` numeric
`legend.height` numeric
`legend.left` numeric
`legend.right` numeric
`legend.top` numeric
`legend.bottom` numeric
`legend.backgroundColor`
hex or color name
`legend.borderColor`
hex or color name
`legend.borderWidth`
numeric
`legend.borderRadius`
numeric
`legend.shadowBlur`
numeric
`legend.shadowColor`
hex or color name
`legend.shadowOffsetX`
numeric
`legend.shadowOffsetY`
numeric
`legend.itemStyle.color`
hex or color name
`legend.itemStyle.borderColor`
hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

legend.textStyle.borderColor
: hex or color name

legend.textStyle.borderWidth
: numeric

legend.textStyle.borderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.borderRadius
: numeric

legend.textStyle.padding
: numeric

legend.textStyle.shadowColor
: hex or color name

legend.textStyle.shadowBlur
: numeric

legend.textStyle.shadowOffsetX
: numeric

legend.textStyle.shadowOffsetY
: numeric

legend.textStyle.width
: numeric

legend.textStyle.height
: numeric

legend.textStyle.textBorderColor
: hex or color name

legend.textStyle.textBorderWidth
: numeric

legend.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.textShadowColor
: hex or color name

legend.textStyle.textShadowBlur
: numeric

legend.textStyle.textShadowOffsetX
: numeric

legend.textStyle.textShadowOffsetY
: numeric

legend.pageTextStyle.color
: hex or color name

legend.pageTextStyle.fontStyle
: 'normal' 'italic' 'oblique'

legend.pageTextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.pageTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.pageTextStyle.fontSize
: numeric

`legend.pageTextStyle.lineHeight`
numeric
`legend.pageTextStyle.width`
numeric
`legend.pageTextStyle.height`
numeric
`legend.pageTextStyle.textBorderColor`
hex or color name
`legend.pageTextStyle.textBorderWidth`
numeric
`legend.pageTextStyle.textBorderType`
'solid' 'dashed' 'dotted'
`legend.pageTextStyle.textShadowColor`
hex or color name
`legend.pageTextStyle.textShadowBlur`
numeric
`legend.pageTextStyle.textShadowOffsetX`
numeric
`legend.pageTextStyle.textShadowOffsetY`
numeric
`legend.emphasis.selectorLabel.show`
logical
`legend.emphasis.selectorLabel.distance`
numeric
`legend.emphasis.selectorLabel.rotate`
numeric
`legend.emphasis.selectorLabel.color`
hex or color name
`legend.emphasis.selectorLabel.fontStyle`
'normal' 'italic' 'oblique'
`legend.emphasis.selectorLabel.fontWeight`
'normal' 'bold' 'bolder' 'lighter'
`legend.emphasis.selectorLabel.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
`legend.emphasis.selectorLabel.fontSize`
numeric
`legend.emphasis.selectorLabel.align`
'left' 'center' 'right'
`legend.emphasis.selectorLabel.verticalAlign`
'top' 'middle' 'bottom'
`legend.emphasis.selectorLabel.lineHeight`
numeric
`legend.emphasis.selectorLabel.backgroundColor`
hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top`
: numeric

`toolbox.left`
: numeric

`toolbox.right`
: numeric

`toolbox.bottom`
: numeric

`toolbox.width`
: numeric

`toolbox.heigth`
: numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

`toolbox.feature.dataZoom.show`
: logical

`toolbox.feature.magicType.show`
: logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

`toolbox.emphasis.iconStyle.borderColor`
: hex

`toolbox.iconStyle.shadowBlur`
: numeric

`toolbox.iconStyle.shadowColor`
: hex

`toolbox.iconStyle.shadowOffsetX`
: numeric

`toolbox.iconStyle.shadowOffsetY`
: numeric

`Debug`
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Scatter(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
dt <- data.table::data.table(Y = qnorm(p = runif(10000)), GV = sample(LETTERS, 1000, TRUE))

# Create plot
AutoPlots::Rosetype(
  dt = dt,
  PreAgg = TRUE,
  XVar = "GV",
  YVar = "Y",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,
  Debug = FALSE)
```

---

save_image *Save plot as image*

Description

Save plot as image

Usage

```
save_image(plot, path, name, height = 1027, width = 1500, delay = 1, zoom = 2)
```

Arguments

plot	A plot object or display_plot_grid object
path	Directory to save image
name	name of output image. name only
height	Default 1027 good for PowerPoint
width	Default 1500 good for PowerPoint
delay	Default 1 good for PowerPoint
zoom	Default 2 good for PowerPoint

Value

A browsable HTML grid for use in Rmarkdown, Shiny, or viewer pane.

Scatter *Scatter*

Description

Build a copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Scatter(
  dt = NULL,
  SampleSize = 30000L,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  title.text = "Scatter Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
```

```
    title.Align = "left",
    title.top = NULL,
    title.left = "left",
    title.right = NULL,
    title.bottom = NULL,
    title.padding = NULL,
    title.itemGap = NULL,
    title.backgroundColor = NULL,
    title.borderColor = NULL,
    title.borderWidth = NULL,
    title.borderRadius = NULL,
    title.shadowColor = NULL,
    title.shadowBlur = NULL,
    title.shadowOffsetX = NULL,
    title.shadowOffsetY = NULL,
    title.textStyle.color = NULL,
    title.textStyle.fontStyle = NULL,
    title.textStyle.fontWeight = NULL,
    title.textStyle.fontFamily = "Segoe UI",
    title.textStyle.fontSize = NULL,
    title.textStyle.lineHeight = NULL,
    title.textStyle.width = NULL,
    title.textStyle.height = NULL,
    title.textStyle.textBorderColor = NULL,
    title.textStyle.textBorderWidth = NULL,
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
```

```
  xAxis.title = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
  xAxis.position = "bottom",
  xAxis.nameLocation = "center",
  xAxis.axisTick.customValues = NULL,
  xAxis.nameTextStyle.color = NULL,
  xAxis.nameTextStyle.padding = 25,
  xAxis.nameTextStyle.align = NULL,
  xAxis.nameTextStyle.fontStyle = NULL,
  xAxis.nameTextStyle.fontWeight = "bolder",
  xAxis.nameTextStyle.fontSize = NULL,
  xAxis.nameTextStyle.fontFamily = "Segoe UI",
  xAxis.nameTextStyle.textShadowColor = NULL,
  xAxis.nameTextStyle.textShadowBlur = NULL,
  xAxis.nameTextStyle.textShadowOffsetX = NULL,
  xAxis.nameTextStyle.textShadowOffsetY = NULL,
  xAxis.splitNumber = NULL,
  xAxis.axisLabel.rotate = NULL,
  xAxis.axisLabel.margin = NULL,
  xAxis.axisLabel.color = NULL,
  xAxis.axisLabel.fontStyle = NULL,
  xAxis.axisLabel.fontWeight = NULL,
  xAxis.axisLabel.fontFamily = "Segoe UI",
  xAxis.axisLabel.fontSize = 14,
  xAxis.axisLabel.align = NULL,
  xAxis.axisLabel.verticalAlign = NULL,
  xAxis.axisLabel.backgroundColor = NULL,
  xAxis.axisLabel.borderColor = NULL,
  xAxis.axisLabel.borderWidth = NULL,
  xAxis.axisLabel.borderType = NULL,
  xAxis.axisLabel.borderRadius = NULL,
  xAxis.axisLabel.padding = NULL,
  xAxis.axisLabel.shadowColor = NULL,
  xAxis.axisLabel.shadowBlur = NULL,
  xAxis.axisLabel.shadowOffsetX = NULL,
  xAxis.axisLabel.shadowOffsetY = NULL,
  xAxis.axisLabel.textBorderColor = NULL,
  xAxis.axisLabel.textBorderWidth = NULL,
  xAxis.axisLabel.textBorderType = NULL,
  xAxis.axisLabel.textShadowColor = NULL,
  xAxis.axisLabel.textShadowBlur = NULL,
  xAxis.axisLabel.textShadowOffsetX = NULL,
  xAxis.axisLabel.textShadowOffsetY = NULL,
  xAxis.axisLabel.overflow = NULL,
  yAxis.title = NULL,
  yAxis.min = NULL,
  yAxis.max = NULL,
```

```
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
```

```
    legend.itemGap = NULL,
    legend.itemWidth = NULL,
    legend.orient = "vertical",
    legend.width = NULL,
    legend.height = NULL,
    legend.left = NULL,
    legend.right = 10,
    legend.top = 30,
    legend.bottom = NULL,
    legend.backgroundColor = NULL,
    legend.borderColor = NULL,
    legend.borderWidth = NULL,
    legend.borderRadius = NULL,
    legend.shadowBlur = NULL,
    legend.shadowColor = NULL,
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
```

```
legend.textStyle.shadowBlur = NULL,
legend.textStyle.shadowOffsetX = NULL,
legend.textStyle.shadowOffsetY = NULL,
legend.textStyle.width = NULL,
legend.textStyle.height = NULL,
legend.textStyle.textBorderColor = NULL,
legend.textStyle.textBorderWidth = NULL,
legend.textStyle.textBorderType = NULL,
legend.textStyle.textShadowColor = NULL,
legend.textStyle.textShadowBlur = NULL,
legend.textStyle.textShadowOffsetX = NULL,
legend.textStyle.textShadowOffsetY = NULL,
legend.pageTextStyle.color = NULL,
legend.pageTextStyle.fontStyle = NULL,
legend.pageTextStyle.fontWeight = NULL,
legend.pageTextStyle.fontFamily = "Segoe UI",
legend.pageTextStyle.fontSize = NULL,
legend.pageTextStyle.lineHeight = NULL,
legend.pageTextStyle.width = NULL,
legend.pageTextStyle.height = NULL,
legend.pageTextStyle.textBorderColor = NULL,
legend.pageTextStyle.textBorderWidth = NULL,
legend.pageTextStyle.textBorderType = NULL,
legend.pageTextStyle.textShadowColor = NULL,
legend.pageTextStyle.textShadowBlur = NULL,
legend.pageTextStyle.textShadowOffsetX = NULL,
legend.pageTextStyle.textShadowOffsetY = NULL,
legend.emphasis.selectorLabel.show = NULL,
legend.emphasis.selectorLabel.distance = NULL,
legend.emphasis.selectorLabel.rotate = NULL,
legend.emphasis.selectorLabel.color = NULL,
legend.emphasis.selectorLabel.fontStyle = NULL,
legend.emphasis.selectorLabel.fontWeight = NULL,
legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
legend.emphasis.selectorLabel.fontSize = NULL,
legend.emphasis.selectorLabel.align = NULL,
legend.emphasis.selectorLabel.verticalAlign = NULL,
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
```

```
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = "cross",
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
    tooltip.textStyle.fontFamily = "Segoe UI",
    tooltip.textStyle.lineHeight = NULL,
    tooltip.textStyle.width = NULL,
    tooltip.textStyle.height = NULL,
    tooltip.textStyle.textBorderColor = NULL,
    tooltip.textStyle.textBorderWidth = NULL,
    tooltip.textStyle.textBorderType = NULL,
    tooltip.textStyle.textShadowColor = NULL,
    tooltip.textStyle.textShadowBlur = NULL,
    tooltip.textStyle.textShadowOffsetX = NULL,
    tooltip.textStyle.textShadowOffsetY = NULL,
    toolbox.show = TRUE,
    toolbox.orient = "horizontal",
    toolbox.itemSize = 15,
    toolbox.itemGap = 8,
    toolbox.top = NULL,
    toolbox.left = NULL,
    toolbox.right = NULL,
    toolbox.bottom = NULL,
    toolbox.width = NULL,
    toolbox.heigth = NULL,
    toolbox.feature.saveAsImage.show = TRUE,
    toolbox.feature.restore.show = TRUE,
```

```
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = FALSE,
  toolbox.feature.magicType.type = NULL,
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	numeric
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
ShowLabels	character
AddGLM	logical
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical

`title.text` Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

title.textStyle.textBorderColor
: hex or name

title.textStyle.textBorderWidth
: numeric

title.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.textStyle.textBorderDashOffset
: numeric

title.textStyle.textShadowColor
: hex or name

title.textStyle.textShadowBlur
: numeric

title.textStyle.textShadowOffsetX
: numeric

title.textStyle.textShadowOffsetY
: numeric

title.subtextStyle.color
: hex or name

title.subtextStyle.align
: 'auto' 'left' 'right' 'center'

title.subtextStyle.fontStyle
: 'normal' 'italic' 'oblique'

title.subtextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

title.subtextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.subtextStyle.fontSize
: numeric

title.subtextStyle.lineHeight
: numeric

title.subtextStyle.width
: numeric

title.subtextStyle.height
: numeric

title.subtextStyle.textBorderColor
: hex or name

title.subtextStyle.textBorderWidth
: numeric

title.subtextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.subtextStyle.textBorderDashOffset
: numeric

title.subtextStyle.textShadowColor
: numeric

title.subtextStyle.textShadowBlur
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

`xAxis.axisLabel.rotate`
: numeric

`xAxis.axisLabel.margin`
: numeric

`xAxis.axisLabel.color`
: hex or named

`xAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

xAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.textShadowColor
: hex or named

xAxis.axisLabel.textShadowBlur
: numeric

xAxis.axisLabel.textShadowOffsetX
: numeric

xAxis.axisLabel.textShadowOffsetY
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

`yAxis.splitNumber`
: numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
: numeric

`yAxis.axisLabel.margin`
: numeric

`yAxis.axisLabel.color`
: hex or named

`yAxis.axisLabel.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.axisLabel.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

`legend.type` 'scroll' 'plain'

`legend.selector`
logical

`legend.icon` 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

`legend.align` 'auto' 'left' 'right'

`legend.padding` numeric

`legend.itemGap` numeric

`legend.itemWidth`
numeric

`legend.orient` 'vertical' 'horizontal'

`legend.width` numeric

`legend.height` numeric

`legend.left` numeric

`legend.right` numeric

`legend.top` numeric

`legend.bottom` numeric

`legend.backgroundColor`
hex or color name

`legend.borderColor`
hex or color name

`legend.borderWidth`
numeric

`legend.borderRadius`
numeric

`legend.shadowBlur`
numeric

`legend.shadowColor`
hex or color name

`legend.shadowOffsetX`
numeric

`legend.shadowOffsetY`
numeric

`legend.itemStyle.color`
hex or color name

`legend.itemStyle.borderColor`
hex or color name

`legend.itemStyle.borderWidth`
numeric

`legend.itemStyle.borderType`
'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
numeric

`legend.itemStyle.shadowColor`
hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

legend.textStyle.padding
: numeric

legend.textStyle.shadowColor
: hex or color name

legend.textStyle.shadowBlur
: numeric

legend.textStyle.shadowOffsetX
: numeric

legend.textStyle.shadowOffsetY
: numeric

legend.textStyle.width
: numeric

legend.textStyle.height
: numeric

legend.textStyle.textBorderColor
: hex or color name

legend.textStyle.textBorderWidth
: numeric

legend.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.textShadowColor
: hex or color name

legend.textStyle.textShadowBlur
: numeric

legend.textStyle.textShadowOffsetX
: numeric

legend.textStyle.textShadowOffsetY
: numeric

legend.pageTextStyle.color
: hex or color name

legend.pageTextStyle.fontStyle
: 'normal' 'italic' 'oblique'

legend.pageTextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.pageTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.pageTextStyle.fontSize
: numeric

legend.pageTextStyle.lineHeight
: numeric

legend.pageTextStyle.width
: numeric

legend.pageTextStyle.height
: numeric

legend.pageTextStyle.textBorderColor
: hex or color name

legend.pageTextStyle.textBorderWidth
: numeric

legend.pageTextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.pageTextStyle.textShadowColor
: hex or color name

legend.pageTextStyle.textShadowBlur
: numeric

legend.pageTextStyle.textShadowOffsetX
: numeric

legend.pageTextStyle.textShadowOffsetY
: numeric

legend.emphasis.selectorLabel.show
: logical

legend.emphasis.selectorLabel.distance
: numeric

legend.emphasis.selectorLabel.rotate
: numeric

legend.emphasis.selectorLabel.color
: hex or color name

legend.emphasis.selectorLabel.fontStyle
: 'normal' 'italic' 'oblique'

legend.emphasis.selectorLabel.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.shadowBlur
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

toolbox.heigth numeric

toolbox.feature.saveAsImage.show
: logical

toolbox.feature.restore.show
: logical

toolbox.feature.dataZoom.show
: logical

toolbox.feature.magicType.show
: logical

toolbox.feature.magicType.type
: 'bar' 'line' 'stack'

toolbox.feature.dataView.show
: logical

toolbox.iconStyle.color
: hex

toolbox.iconStyle.borderColor
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter3D(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)
data[, Independent_Variable8 := Independent_Variable8 * runif(.N)]

# Echarts Scatter Plot Chart
AutoPlots::Scatter(
  dt = data,
  SampleSize = 10000,
  XVar = "Independent_Variable10",
  YVar = "Independent_Variable8",
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  AddGLM = FALSE,
  Theme = "blue",
  MouseScroll = FALSE,
  TimeLine = FALSE,

  Debug = FALSE)
```

Scatter3D *Scatter3D*

Description

Build a 3D-copula plot by simply passing arguments to a single function. It will sample your data using SampleSize number of rows. Sampled data is randomized.

Usage

```
Scatter3D(
  dt = NULL,
  SampleSize = 1e+05,
  XVar = NULL,
  YVar = NULL,
  ZVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
```

```
FacetCols = 1,
FacetLevels = NULL,
Height = NULL,
Width = NULL,
ShowLabels = FALSE,
Theme = "dark",
TimeLine = FALSE,
title.text = "3D Scatter Plot",
title.subtext = NULL,
title.link = NULL,
title.sublink = NULL,
title.Align = "left",
title.top = NULL,
title.left = "left",
title.right = NULL,
title.bottom = NULL,
title.padding = NULL,
title.itemGap = NULL,
title.backgroundColor = NULL,
title.borderColor = NULL,
title.borderWidth = NULL,
title.borderRadius = NULL,
title.shadowColor = NULL,
title.shadowBlur = NULL,
title.shadowOffsetX = NULL,
title.shadowOffsetY = NULL,
title.textStyle.color = NULL,
title.textStyle.fontStyle = NULL,
title.textStyle.fontWeight = NULL,
title.textStyle.fontFamily = "Segoe UI",
title.textStyle.fontSize = NULL,
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
```

```
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    xAxis.title = NULL,
    xAxis.min = NULL,
    xAxis.max = NULL,
    xAxis.position = "bottom",
    xAxis.nameLocation = "center",
    xAxis.axisTick.customValues = NULL,
    xAxis.nameTextStyle.color = NULL,
    xAxis.nameTextStyle.padding = 25,
    xAxis.nameTextStyle.align = NULL,
    xAxis.nameTextStyle.fontStyle = NULL,
    xAxis.nameTextStyle.fontWeight = "bolder",
    xAxis.nameTextStyle.fontSize = NULL,
    xAxis.nameTextStyle.fontFamily = "Segoe UI",
    xAxis.nameTextStyle.textShadowColor = NULL,
    xAxis.nameTextStyle.textShadowBlur = NULL,
    xAxis.nameTextStyle.textShadowOffsetX = NULL,
    xAxis.nameTextStyle.textShadowOffsetY = NULL,
    xAxis.splitNumber = NULL,
    xAxis.axisLabel.rotate = NULL,
    xAxis.axisLabel.margin = NULL,
    xAxis.axisLabel.color = NULL,
    xAxis.axisLabel.fontStyle = NULL,
    xAxis.axisLabel.fontWeight = NULL,
    xAxis.axisLabel.fontFamily = "Segoe UI",
    xAxis.axisLabel.fontSize = 14,
    xAxis.axisLabel.align = NULL,
    xAxis.axisLabel.verticalAlign = NULL,
    xAxis.axisLabel.backgroundColor = NULL,
    xAxis.axisLabel.borderColor = NULL,
    xAxis.axisLabel.borderWidth = NULL,
    xAxis.axisLabel.borderType = NULL,
    xAxis.axisLabel.borderRadius = NULL,
    xAxis.axisLabel.padding = NULL,
    xAxis.axisLabel.shadowColor = NULL,
    xAxis.axisLabel.shadowBlur = NULL,
    xAxis.axisLabel.shadowOffsetX = NULL,
    xAxis.axisLabel.shadowOffsetY = NULL,
```

```
    xAxis.axisLabel.textBorderColor = NULL,
    xAxis.axisLabel.textBorderWidth = NULL,
    xAxis.axisLabel.textBorderType = NULL,
    xAxis.axisLabel.textShadowColor = NULL,
    xAxis.axisLabel.textShadowBlur = NULL,
    xAxis.axisLabel.textShadowOffsetX = NULL,
    xAxis.axisLabel.textShadowOffsetY = NULL,
    xAxis.axisLabel.overflow = NULL,
    yAxis.title = NULL,
    yAxis.min = NULL,
    yAxis.max = NULL,
    yAxis.position = "center",
    yAxis.nameLocation = "center",
    yAxis.axisTick.customValues = NULL,
    yAxis.nameTextStyle.color = NULL,
    yAxis.nameTextStyle.padding = 25,
    yAxis.nameTextStyle.align = NULL,
    yAxis.nameTextStyle.fontStyle = NULL,
    yAxis.nameTextStyle.fontWeight = "bolder",
    yAxis.nameTextStyle.fontSize = NULL,
    yAxis.nameTextStyle.fontFamily = "Segoe UI",
    yAxis.nameTextStyle.textShadowColor = NULL,
    yAxis.nameTextStyle.textShadowBlur = NULL,
    yAxis.nameTextStyle.textShadowOffsetX = NULL,
    yAxis.nameTextStyle.textShadowOffsetY = NULL,
    yAxis.splitNumber = NULL,
    yAxis.axisLabel.rotate = NULL,
    yAxis.axisLabel.margin = NULL,
    yAxis.axisLabel.color = NULL,
    yAxis.axisLabel.fontStyle = NULL,
    yAxis.axisLabel.fontWeight = NULL,
    yAxis.axisLabel.fontFamily = "Segoe UI",
    yAxis.axisLabel.fontSize = 14,
    yAxis.axisLabel.align = NULL,
    yAxis.axisLabel.verticalAlign = NULL,
    yAxis.axisLabel.backgroundColor = NULL,
    yAxis.axisLabel.borderColor = NULL,
    yAxis.axisLabel.borderWidth = NULL,
    yAxis.axisLabel.borderType = NULL,
    yAxis.axisLabel.borderRadius = NULL,
    yAxis.axisLabel.padding = NULL,
    yAxis.axisLabel.shadowColor = NULL,
    yAxis.axisLabel.shadowBlur = NULL,
    yAxis.axisLabel.shadowOffsetX = NULL,
    yAxis.axisLabel.shadowOffsetY = NULL,
    yAxis.axisLabel.textBorderColor = NULL,
    yAxis.axisLabel.textBorderWidth = NULL,
    yAxis.axisLabel.textBorderType = NULL,
```

```
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
legend.lineStyle.shadowBlur = NULL,
legend.lineStyle.shadowColor = NULL,
legend.lineStyle.shadowOffsetX = NULL,
legend.lineStyle.shadowOffsetY = NULL,
legend.lineStyle.opacity = NULL,
legend.lineStyle.inactiveColor = NULL,
legend.lineStyle.inactiveWidth = NULL,
legend.textStyle.color = NULL,
```

```
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
    legend.pageTextStyle.fontFamily = "Segoe UI",
    legend.pageTextStyle.fontSize = NULL,
    legend.pageTextStyle.lineHeight = NULL,
    legend.pageTextStyle.width = NULL,
    legend.pageTextStyle.height = NULL,
    legend.pageTextStyle.textBorderColor = NULL,
    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
    legend.pageTextStyle.textShadowBlur = NULL,
    legend.pageTextStyle.textShadowOffsetX = NULL,
    legend.pageTextStyle.textShadowOffsetY = NULL,
    legend.emphasis.selectorLabel.show = NULL,
    legend.emphasis.selectorLabel.distance = NULL,
    legend.emphasis.selectorLabel.rotate = NULL,
    legend.emphasis.selectorLabel.color = NULL,
    legend.emphasis.selectorLabel.fontStyle = NULL,
    legend.emphasis.selectorLabel.fontWeight = NULL,
    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
```

```
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
legend.emphasis.selectorLabel.textBorderColor = NULL,
legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
tooltip.axisPointer.type = "cross",
tooltip.axisPointer.lineStyle.color = NULL,
tooltip.axisPointer.shadowStyle.color = NULL,
tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
tooltip.axisPointer.shadowStyle.opacity = NULL,
tooltip.textStyle.color = NULL,
tooltip.textStyle.fontStyle = NULL,
tooltip.textStyle.fontWeight = NULL,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
tooltip.textStyle.textBorderColor = NULL,
tooltip.textStyle.textBorderWidth = NULL,
tooltip.textStyle.textBorderType = NULL,
tooltip.textStyle.textShadowColor = NULL,
tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
```

```
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
SampleSize	An integer for the number of rows to use. Sampled data is randomized. If NULL then ignored
XVar	X-Axis variable name
YVar	Y-Axis variable name
ZVar	Z-Axis variable name
GroupVar	Requires an XVar and YVar already be defined
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.

Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
TimeLine	Logical
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric
title.textStyle.color	hex or name
title.textStyle.fontStyle	'normal' 'italic' 'oblique'
title.textStyle.fontWeight	'normal' 'bold' 'bolder' 'lighter'

title.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.textStyle.fontSize
: numeric

title.textStyle.lineHeight
: numeric

title.textStyle.width
: numeric

title.textStyle.height
: numeric

title.textStyle.textBorderColor
: hex or name

title.textStyle.textBorderWidth
: numeric

title.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.textStyle.textBorderDashOffset
: numeric

title.textStyle.textShadowColor
: hex or name

title.textStyle.textShadowBlur
: numeric

title.textStyle.textShadowOffsetX
: numeric

title.textStyle.textShadowOffsetY
: numeric

title.subtextStyle.color
: hex or name

title.subtextStyle.align
: 'auto' 'left' 'right' 'center'

title.subtextStyle.fontStyle
: 'normal' 'italic' 'oblique'

title.subtextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

title.subtextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.subtextStyle.fontSize
: numeric

title.subtextStyle.lineHeight
: numeric

title.subtextStyle.width
: numeric

title.subtextStyle.height
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

xAxis.nameTextStyle.textShadowOffsetY
: numeric

xAxis.splitNumber
: numeric. Increments for numeric axis labels

xAxis.axisLabel.rotate
: numeric

xAxis.axisLabel.margin
: numeric

xAxis.axisLabel.color
: hex or named

xAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

xAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title` Axis title

`yAxis.min` Min value

`yAxis.max` Max value

`yAxis.position` 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

legend.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.textStyle.fontSize
: numeric

legend.textStyle.backgroundColor
: hex or color name

legend.textStyle.borderColor
: hex or color name

legend.textStyle.borderWidth
: numeric

legend.textStyle.borderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.borderRadius
: numeric

legend.textStyle.padding
: numeric

legend.textStyle.shadowColor
: hex or color name

legend.textStyle.shadowBlur
: numeric

legend.textStyle.shadowOffsetX
: numeric

legend.textStyle.shadowOffsetY
: numeric

legend.textStyle.width
: numeric

legend.textStyle.height
: numeric

legend.textStyle.textBorderColor
: hex or color name

legend.textStyle.textBorderWidth
: numeric

legend.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.textStyle.textShadowColor
: hex or color name

legend.textStyle.textShadowBlur
: numeric

legend.textStyle.textShadowOffsetX
: numeric

legend.textStyle.textShadowOffsetY
: numeric

legend.pageTextStyle.color
: hex or color name

legend.pageTextStyle.fontStyle
: 'normal' 'italic' 'oblique'

legend.pageTextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.pageTextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.pageTextStyle.fontSize
: numeric

legend.pageTextStyle.lineHeight
: numeric

legend.pageTextStyle.width
: numeric

legend.pageTextStyle.height
: numeric

legend.pageTextStyle.textBorderColor
: hex or color name

legend.pageTextStyle.textBorderWidth
: numeric

legend.pageTextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

legend.pageTextStyle.textShadowColor
: hex or color name

legend.pageTextStyle.textShadowBlur
: numeric

legend.pageTextStyle.textShadowOffsetX
: numeric

legend.pageTextStyle.textShadowOffsetY
: numeric

legend.emphasis.selectorLabel.show
: logical

legend.emphasis.selectorLabel.distance
: numeric

legend.emphasis.selectorLabel.rotate
: numeric

legend.emphasis.selectorLabel.color
: hex or color name

legend.emphasis.selectorLabel.fontStyle
: 'normal' 'italic' 'oblique'

legend.emphasis.selectorLabel.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

legend.emphasis.selectorLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

legend.emphasis.selectorLabel.fontSize
: numeric

legend.emphasis.selectorLabel.align
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

`legend.emphasis.selectorLabel.backgroundColor`
: hex or color name

`legend.emphasis.selectorLabel.borderColor`
: hex or color name

`legend.emphasis.selectorLabel.borderWidth`
: numeric

`legend.emphasis.selectorLabel.borderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.borderRadius`
: numeric

`legend.emphasis.selectorLabel.padding`
: numeric

`legend.emphasis.selectorLabel.shadowColor`
: hex or color name

`legend.emphasis.selectorLabel.shadowBlur`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.shadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.width`
: numeric

`legend.emphasis.selectorLabel.height`
: numeric

`legend.emphasis.selectorLabel.textBorderColor`
: hex or color name

`legend.emphasis.selectorLabel.textBorderWidth`
: numeric

`legend.emphasis.selectorLabel.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.emphasis.selectorLabel.textShadowColor`
: hex or color name

`legend.emphasis.selectorLabel.textShadowBlur`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetX`
: numeric

`legend.emphasis.selectorLabel.textShadowOffsetY`
: numeric

`tooltip.show` logical

`tooltip.trigger`
: "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

tooltip.padding
: numeric

tooltip.axisPointer.type
: "line" or "shadow"

tooltip.axisPointer.lineStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.color
: hex or name

tooltip.axisPointer.shadowStyle.shadowBlur
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetX
: numeric

tooltip.axisPointer.shadowStyle.shadowOffsetY
: numeric

tooltip.axisPointer.shadowStyle.opacity
: numeric between 0 and 1

tooltip.textStyle.color
: hex or name

tooltip.textStyle.fontStyle
: "normal" "italic" "oblique"

tooltip.textStyle.fontWeight
: "normal" "bold" "bolder" "lighter"

tooltip.textStyle.fontFamily
: valid family name

tooltip.textStyle.lineHeight
: numeric

tooltip.textStyle.width
: numeric

tooltip.textStyle.height
: numeric

tooltip.textStyle.textBorderColor
: hex or name

tooltip.textStyle.textBorderWidth
: numeric

tooltip.textStyle.textBorderType
: "solid" "dashed" "dotted"

tooltip.textStyle.textShadowColor
: hex or name

tooltip.textStyle.textShadowBlur
: numeric

tooltip.textStyle.textShadowOffsetX
: numeric

tooltip.textStyle.textShadowOffsetY
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
Default 15

`toolbox.itemGap`
Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), StackedBar(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 100000)
data[, Independent_Variable9 := Independent_Variable9 * runif(.N)]

# Echarts Copula Plot Chart
AutoPlots::Scatter3D(
  dt = data,
  SampleSize = 10000,
  XVar = "Adrian",
  YVar = "Independent_Variable9",
  ZVar = "Independent_Variable6",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  ZVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  GroupVar = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,

  Debug = FALSE)
```

ShapImportance *ShapImportance*

Description

ShapImportance variable importance

Usage

```
ShapImportance(
  dt,
  PreAgg = TRUE,
  AggMethod = "meanabs",
  YVar = NULL,
  GroupVar = NULL,
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  NumberBins = 21,
  NumLevels_X = 33,
  NumLevels_Y = 33,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
AggMethod	"mean", "median", "sum", "sd", "skewness","kurtosis", "coeffvar", "meanabs", "medianabs", "sumabs", "sdabs", "skewnessabs", "kurtosisabs", "CoeffVarabs"
YVar	Names of shap columns
GroupVar	Name of by variable
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
NumberBins	= 21
NumLevels_X	= 20
NumLevels_Y	= 20
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween",

"helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"

Debug = FALSE

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), VariableImportance()

StackedBar *StackedBar*

Description

Build a stacked bar plot vs a grouped bar plot

Usage

```
StackedBar(
  dt = NULL,
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
```

```
ShowLabels = FALSE,
Theme = "dark",
MouseScroll = FALSE,
TimeLine = FALSE,
title.text = "Stacked Bar Plot",
title.subtext = NULL,
title.link = NULL,
title.sublink = NULL,
title.Align = "left",
title.top = NULL,
title.left = "left",
title.right = NULL,
title.bottom = NULL,
title.padding = NULL,
title.itemGap = NULL,
title.backgroundColor = NULL,
title.borderColor = NULL,
title.borderWidth = NULL,
title.borderRadius = NULL,
title.shadowColor = NULL,
title.shadowBlur = NULL,
title.shadowOffsetX = NULL,
title.shadowOffsetY = NULL,
title.textStyle.color = NULL,
title.textStyle.fontStyle = NULL,
title.textStyle.fontWeight = NULL,
title.textStyle.fontFamily = "Segoe UI",
title.textStyle.fontSize = NULL,
title.textStyle.lineHeight = NULL,
title.textStyle.width = NULL,
title.textStyle.height = NULL,
title.textStyle.textBorderColor = NULL,
title.textStyle.textBorderWidth = NULL,
title.textStyle.textBorderType = NULL,
title.textStyle.textBorderDashOffset = NULL,
title.textStyle.textShadowColor = NULL,
title.textStyle.textShadowBlur = NULL,
title.textStyle.textShadowOffsetX = NULL,
title.textStyle.textShadowOffsetY = NULL,
title.subtextStyle.color = NULL,
title.subtextStyle.align = NULL,
title.subtextStyle.fontStyle = NULL,
title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
title.subtextStyle.fontSize = NULL,
title.subtextStyle.lineHeight = NULL,
title.subtextStyle.width = NULL,
title.subtextStyle.height = NULL,
```

```
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    xAxis.title = NULL,
    xAxis.min = NULL,
    xAxis.max = NULL,
    xAxis.position = "bottom",
    xAxis.nameLocation = "center",
    xAxis.axisTick.customValues = NULL,
    xAxis.nameTextStyle.color = NULL,
    xAxis.nameTextStyle.padding = 25,
    xAxis.nameTextStyle.align = NULL,
    xAxis.nameTextStyle.fontStyle = NULL,
    xAxis.nameTextStyle.fontWeight = "bolder",
    xAxis.nameTextStyle.fontSize = NULL,
    xAxis.nameTextStyle.fontFamily = "Segoe UI",
    xAxis.nameTextStyle.textShadowColor = NULL,
    xAxis.nameTextStyle.textShadowBlur = NULL,
    xAxis.nameTextStyle.textShadowOffsetX = NULL,
    xAxis.nameTextStyle.textShadowOffsetY = NULL,
    xAxis.splitNumber = NULL,
    xAxis.axisLabel.rotate = NULL,
    xAxis.axisLabel.margin = NULL,
    xAxis.axisLabel.color = NULL,
    xAxis.axisLabel.fontStyle = NULL,
    xAxis.axisLabel.fontWeight = NULL,
    xAxis.axisLabel.fontFamily = "Segoe UI",
    xAxis.axisLabel.fontSize = 14,
    xAxis.axisLabel.align = NULL,
    xAxis.axisLabel.verticalAlign = NULL,
    xAxis.axisLabel.backgroundColor = NULL,
    xAxis.axisLabel.borderColor = NULL,
    xAxis.axisLabel.borderWidth = NULL,
    xAxis.axisLabel.borderType = NULL,
    xAxis.axisLabel.borderRadius = NULL,
    xAxis.axisLabel.padding = NULL,
    xAxis.axisLabel.shadowColor = NULL,
    xAxis.axisLabel.shadowBlur = NULL,
    xAxis.axisLabel.shadowOffsetX = NULL,
    xAxis.axisLabel.shadowOffsetY = NULL,
    xAxis.axisLabel.textBorderColor = NULL,
    xAxis.axisLabel.textBorderWidth = NULL,
    xAxis.axisLabel.textBorderType = NULL,
```

```
xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.nameTextStyle.textShadowColor = NULL,
yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
```

```
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
legend.shadowOffsetX = NULL,
legend.shadowOffsetY = NULL,
legend.itemStyle.color = NULL,
legend.itemStyle.borderColor = NULL,
legend.itemStyle.borderWidth = NULL,
legend.itemStyle.borderType = NULL,
legend.itemStyle.shadowBlur = NULL,
legend.itemStyle.shadowColor = NULL,
legend.itemStyle.shadowOffsetX = NULL,
legend.itemStyle.shadowOffsetY = NULL,
legend.itemStyle.opacity = NULL,
legend.lineStyle.color = NULL,
legend.lineStyle.width = NULL,
legend.lineStyle.type = NULL,
legend.lineStyle.shadowBlur = NULL,
legend.lineStyle.shadowColor = NULL,
legend.lineStyle.shadowOffsetX = NULL,
legend.lineStyle.shadowOffsetY = NULL,
legend.lineStyle.opacity = NULL,
legend.lineStyle.inactiveColor = NULL,
legend.lineStyle.inactiveWidth = NULL,
legend.textStyle.color = NULL,
legend.textStyle.fontStyle = NULL,
legend.textStyle.fontWeight = NULL,
legend.textStyle.fontFamily = "Segoe UI",
```

```
legend.textStyle.fontSize = NULL,
legend.textStyle.backgroundColor = NULL,
legend.textStyle.borderColor = NULL,
legend.textStyle.borderWidth = NULL,
legend.textStyle.borderType = NULL,
legend.textStyle.borderRadius = NULL,
legend.textStyle.padding = NULL,
legend.textStyle.shadowColor = NULL,
legend.textStyle.shadowBlur = NULL,
legend.textStyle.shadowOffsetX = NULL,
legend.textStyle.shadowOffsetY = NULL,
legend.textStyle.width = NULL,
legend.textStyle.height = NULL,
legend.textStyle.textBorderColor = NULL,
legend.textStyle.textBorderWidth = NULL,
legend.textStyle.textBorderType = NULL,
legend.textStyle.textShadowColor = NULL,
legend.textStyle.textShadowBlur = NULL,
legend.textStyle.textShadowOffsetX = NULL,
legend.textStyle.textShadowOffsetY = NULL,
legend.pageTextStyle.color = NULL,
legend.pageTextStyle.fontStyle = NULL,
legend.pageTextStyle.fontWeight = NULL,
legend.pageTextStyle.fontFamily = "Segoe UI",
legend.pageTextStyle.fontSize = NULL,
legend.pageTextStyle.lineHeight = NULL,
legend.pageTextStyle.width = NULL,
legend.pageTextStyle.height = NULL,
legend.pageTextStyle.textBorderColor = NULL,
legend.pageTextStyle.textBorderWidth = NULL,
legend.pageTextStyle.textBorderType = NULL,
legend.pageTextStyle.textShadowColor = NULL,
legend.pageTextStyle.textShadowBlur = NULL,
legend.pageTextStyle.textShadowOffsetX = NULL,
legend.pageTextStyle.textShadowOffsetY = NULL,
legend.emphasis.selectorLabel.show = NULL,
legend.emphasis.selectorLabel.distance = NULL,
legend.emphasis.selectorLabel.rotate = NULL,
legend.emphasis.selectorLabel.color = NULL,
legend.emphasis.selectorLabel.fontStyle = NULL,
legend.emphasis.selectorLabel.fontWeight = NULL,
legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
legend.emphasis.selectorLabel.fontSize = NULL,
legend.emphasis.selectorLabel.align = NULL,
legend.emphasis.selectorLabel.verticalAlign = NULL,
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
```

```
    legend.emphasis.selectorLabel.borderWidth = NULL,
    legend.emphasis.selectorLabel.borderType = NULL,
    legend.emphasis.selectorLabel.borderRadius = NULL,
    legend.emphasis.selectorLabel.padding = NULL,
    legend.emphasis.selectorLabel.shadowColor = NULL,
    legend.emphasis.selectorLabel.shadowBlur = NULL,
    legend.emphasis.selectorLabel.shadowOffsetX = NULL,
    legend.emphasis.selectorLabel.shadowOffsetY = NULL,
    legend.emphasis.selectorLabel.width = NULL,
    legend.emphasis.selectorLabel.height = NULL,
    legend.emphasis.selectorLabel.textBorderColor = NULL,
    legend.emphasis.selectorLabel.textBorderWidth = NULL,
    legend.emphasis.selectorLabel.textBorderType = NULL,
    legend.emphasis.selectorLabel.textShadowColor = NULL,
    legend.emphasis.selectorLabel.textShadowBlur = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
    legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "axis",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = "cross",
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
    tooltip.textStyle.fontFamily = "Segoe UI",
    tooltip.textStyle.lineHeight = NULL,
    tooltip.textStyle.width = NULL,
    tooltip.textStyle.height = NULL,
    tooltip.textStyle.textBorderColor = NULL,
    tooltip.textStyle.textBorderWidth = NULL,
    tooltip.textStyle.textBorderType = NULL,
    tooltip.textStyle.textShadowColor = NULL,
    tooltip.textStyle.textShadowBlur = NULL,
    tooltip.textStyle.textShadowOffsetX = NULL,
    tooltip.textStyle.textShadowOffsetY = NULL,
    toolbox.show = TRUE,
    toolbox.orient = "horizontal",
    toolbox.itemSize = 15,
    toolbox.itemGap = 8,
```

```
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = TRUE,
  toolbox.feature.dataZoom.show = TRUE,
  toolbox.feature.magicType.show = TRUE,
  toolbox.feature.magicType.type = c("line", "bar", "stack"),
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	source data.table
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	NULL
Width	NULL
ShowLabels	logical

Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	logical
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric
title.textStyle.color	hex or name
title.textStyle.fontStyle	'normal' 'italic' 'oblique'
title.textStyle.fontWeight	'normal' 'bold' 'bolder' 'lighter'

title.textStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.textStyle.fontSize
: numeric

title.textStyle.lineHeight
: numeric

title.textStyle.width
: numeric

title.textStyle.height
: numeric

title.textStyle.textBorderColor
: hex or name

title.textStyle.textBorderWidth
: numeric

title.textStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.textStyle.textBorderDashOffset
: numeric

title.textStyle.textShadowColor
: hex or name

title.textStyle.textShadowBlur
: numeric

title.textStyle.textShadowOffsetX
: numeric

title.textStyle.textShadowOffsetY
: numeric

title.subtextStyle.color
: hex or name

title.subtextStyle.align
: 'auto' 'left' 'right' 'center'

title.subtextStyle.fontStyle
: 'normal' 'italic' 'oblique'

title.subtextStyle.fontWeight
: 'normal' 'bold' 'bolder' 'lighter'

title.subtextStyle.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.subtextStyle.fontSize
: numeric

title.subtextStyle.lineHeight
: numeric

title.subtextStyle.width
: numeric

title.subtextStyle.height
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title` Axis title

`xAxis.min` Min value

`xAxis.max` Max value

`xAxis.position` 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

xAxis.nameTextStyle.textShadowOffsetY
: numeric

xAxis.splitNumber
: numeric. Increments for numeric axis labels

xAxis.axisLabel.rotate
: numeric

xAxis.axisLabel.margin
: numeric

xAxis.axisLabel.color
: hex or named

xAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

xAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

`xAxis.axisLabel.textBorderWidth`
: numeric

`xAxis.axisLabel.textBorderType`
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

yAxis.splitNumber
: numeric. Increments for numeric axis labels

yAxis.axisLabel.rotate
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

`legend.shadowOffsetY`
: numeric

`legend.itemStyle.color`
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

legend.emphasis.selectorLabel.verticalAlign
: 'top' 'middle' 'bottom'

legend.emphasis.selectorLabel.lineHeight
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

`toolbox.itemSize`
Default 15

`toolbox.itemGap`
Default 8

`toolbox.top` numeric

`toolbox.left` numeric

`toolbox.right` numeric

`toolbox.bottom` numeric

`toolbox.width` numeric

`toolbox.heigth` numeric

`toolbox.feature.saveAsImage.show`
logical

`toolbox.feature.restore.show`
logical

`toolbox.feature.dataZoom.show`
logical

`toolbox.feature.magicType.show`
logical

`toolbox.feature.magicType.type`
'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
logical

`toolbox.iconStyle.color`
hex

`toolbox.iconStyle.borderColor`
hex

`toolbox.emphasis.iconStyle.borderColor`
hex

`toolbox.iconStyle.shadowBlur`
numeric

`toolbox.iconStyle.shadowColor`
hex

`toolbox.iconStyle.shadowOffsetX`
numeric

`toolbox.iconStyle.shadowOffsetY`
numeric

`Debug` Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), Step(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 10000)

# Echarts Stacked Bar Chart
AutoPlots::StackedBar(
  dt = data,
  PreAgg = TRUE,
  XVar = "Factor_1",
  YVar = "Adrian",
  GroupVar = "Factor_2",
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = 'mean',
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,

  Debug = FALSE)
```

Step *Step*

Description

This function automatically builds calibration plots and calibration boxplots for model evaluation using regression, stats::quantile regression, and binary and multinomial classification

Usage

```
Step(
  dt = NULL,
  AggMethod = "mean",
  PreAgg = TRUE,
  XVar = NULL,
  YVar = NULL,
  DualYVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  DualYVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  MouseScroll = FALSE,
  TimeLine = FALSE,
  ShowSymbol = FALSE,
  lineStyle.color = NULL,
  lineStyle.width = NULL,
  lineStyle.type = NULL,
  lineStyle.shadowColor = NULL,
  lineStyle.shadowBlur = NULL,
  lineStyle.shadowOffsetX = NULL,
  lineStyle.shadowOffsetY = NULL,
  title.text = "Step Plot",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
```

```
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
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  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
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  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
  xAxis.title = NULL,
  xAxis.min = NULL,
  xAxis.max = NULL,
  xAxis.position = "bottom",
  xAxis.nameLocation = "center",
  xAxis.axisTick.customValues = NULL,
  xAxis.nameTextStyle.color = NULL,
  xAxis.nameTextStyle.padding = 25,
  xAxis.nameTextStyle.align = NULL,
  xAxis.nameTextStyle.fontStyle = NULL,
  xAxis.nameTextStyle.fontWeight = "bolder",
  xAxis.nameTextStyle.fontSize = NULL,
  xAxis.nameTextStyle.fontFamily = "Segoe UI",
  xAxis.nameTextStyle.textShadowColor = NULL,
  xAxis.nameTextStyle.textShadowBlur = NULL,
```

```
xAxis.nameTextStyle.textShadowOffsetX = NULL,
xAxis.nameTextStyle.textShadowOffsetY = NULL,
xAxis.splitNumber = NULL,
xAxis.axisLabel.rotate = NULL,
xAxis.axisLabel.margin = NULL,
xAxis.axisLabel.color = NULL,
xAxis.axisLabel.fontStyle = NULL,
xAxis.axisLabel.fontWeight = NULL,
xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
xAxis.axisLabel.borderColor = NULL,
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xAxis.axisLabel.padding = NULL,
xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
xAxis.axisLabel.textBorderColor = NULL,
xAxis.axisLabel.textBorderWidth = NULL,
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xAxis.axisLabel.textShadowColor = NULL,
xAxis.axisLabel.textShadowBlur = NULL,
xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
yAxis.nameLocation = "center",
yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
yAxis.nameTextStyle.padding = 25,
yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
yAxis.nameTextStyle.fontWeight = "bolder",
yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
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yAxis.nameTextStyle.textShadowBlur = NULL,
yAxis.nameTextStyle.textShadowOffsetX = NULL,
yAxis.nameTextStyle.textShadowOffsetY = NULL,
yAxis.splitNumber = NULL,
```

```
yAxis.axisLabel.rotate = NULL,
yAxis.axisLabel.margin = NULL,
yAxis.axisLabel.color = NULL,
yAxis.axisLabel.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
yAxis.axisLabel.align = NULL,
yAxis.axisLabel.verticalAlign = NULL,
yAxis.axisLabel.backgroundColor = NULL,
yAxis.axisLabel.borderColor = NULL,
yAxis.axisLabel.borderWidth = NULL,
yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
yAxis.axisLabel.shadowOffsetX = NULL,
yAxis.axisLabel.shadowOffsetY = NULL,
yAxis.axisLabel.textBorderColor = NULL,
yAxis.axisLabel.textBorderWidth = NULL,
yAxis.axisLabel.textBorderType = NULL,
yAxis.axisLabel.textShadowColor = NULL,
yAxis.axisLabel.textShadowBlur = NULL,
yAxis.axisLabel.textShadowOffsetX = NULL,
yAxis.axisLabel.textShadowOffsetY = NULL,
yAxis.axisLabel.overflow = NULL,
legend.show = TRUE,
legend.type = "scroll",
legend.selector = NULL,
legend.icon = NULL,
legend.align = NULL,
legend.padding = NULL,
legend.itemGap = NULL,
legend.itemWidth = NULL,
legend.orient = "vertical",
legend.width = NULL,
legend.height = NULL,
legend.left = NULL,
legend.right = 10,
legend.top = 30,
legend.bottom = NULL,
legend.backgroundColor = NULL,
legend.borderColor = NULL,
legend.borderWidth = NULL,
legend.borderRadius = NULL,
legend.shadowBlur = NULL,
legend.shadowColor = NULL,
```

```
    legend.shadowOffsetX = NULL,
    legend.shadowOffsetY = NULL,
    legend.itemStyle.color = NULL,
    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
    legend.itemStyle.shadowOffsetY = NULL,
    legend.itemStyle.opacity = NULL,
    legend.lineStyle.color = NULL,
    legend.lineStyle.width = NULL,
    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
    legend.lineStyle.shadowOffsetY = NULL,
    legend.lineStyle.opacity = NULL,
    legend.lineStyle.inactiveColor = NULL,
    legend.lineStyle.inactiveWidth = NULL,
    legend.textStyle.color = NULL,
    legend.textStyle.fontStyle = NULL,
    legend.textStyle.fontWeight = NULL,
    legend.textStyle.fontFamily = "Segoe UI",
    legend.textStyle.fontSize = NULL,
    legend.textStyle.backgroundColor = NULL,
    legend.textStyle.borderColor = NULL,
    legend.textStyle.borderWidth = NULL,
    legend.textStyle.borderType = NULL,
    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
    legend.textStyle.shadowOffsetX = NULL,
    legend.textStyle.shadowOffsetY = NULL,
    legend.textStyle.width = NULL,
    legend.textStyle.height = NULL,
    legend.textStyle.textBorderColor = NULL,
    legend.textStyle.textBorderWidth = NULL,
    legend.textStyle.textBorderType = NULL,
    legend.textStyle.textShadowColor = NULL,
    legend.textStyle.textShadowBlur = NULL,
    legend.textStyle.textShadowOffsetX = NULL,
    legend.textStyle.textShadowOffsetY = NULL,
    legend.pageTextStyle.color = NULL,
    legend.pageTextStyle.fontStyle = NULL,
    legend.pageTextStyle.fontWeight = NULL,
```

```
legend.pageTextStyle.fontFamily = "Segoe UI",
legend.pageTextStyle.fontSize = NULL,
legend.pageTextStyle.lineHeight = NULL,
legend.pageTextStyle.width = NULL,
legend.pageTextStyle.height = NULL,
legend.pageTextStyle.textBorderColor = NULL,
legend.pageTextStyle.textBorderWidth = NULL,
legend.pageTextStyle.textBorderType = NULL,
legend.pageTextStyle.textShadowColor = NULL,
legend.pageTextStyle.textShadowBlur = NULL,
legend.pageTextStyle.textShadowOffsetX = NULL,
legend.pageTextStyle.textShadowOffsetY = NULL,
legend.emphasis.selectorLabel.show = NULL,
legend.emphasis.selectorLabel.distance = NULL,
legend.emphasis.selectorLabel.rotate = NULL,
legend.emphasis.selectorLabel.color = NULL,
legend.emphasis.selectorLabel.fontStyle = NULL,
legend.emphasis.selectorLabel.fontWeight = NULL,
legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
legend.emphasis.selectorLabel.fontSize = NULL,
legend.emphasis.selectorLabel.align = NULL,
legend.emphasis.selectorLabel.verticalAlign = NULL,
legend.emphasis.selectorLabel.lineHeight = NULL,
legend.emphasis.selectorLabel.backgroundColor = NULL,
legend.emphasis.selectorLabel.borderColor = NULL,
legend.emphasis.selectorLabel.borderWidth = NULL,
legend.emphasis.selectorLabel.borderType = NULL,
legend.emphasis.selectorLabel.borderRadius = NULL,
legend.emphasis.selectorLabel.padding = NULL,
legend.emphasis.selectorLabel.shadowColor = NULL,
legend.emphasis.selectorLabel.shadowBlur = NULL,
legend.emphasis.selectorLabel.shadowOffsetX = NULL,
legend.emphasis.selectorLabel.shadowOffsetY = NULL,
legend.emphasis.selectorLabel.width = NULL,
legend.emphasis.selectorLabel.height = NULL,
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legend.emphasis.selectorLabel.textBorderWidth = NULL,
legend.emphasis.selectorLabel.textBorderType = NULL,
legend.emphasis.selectorLabel.textShadowColor = NULL,
legend.emphasis.selectorLabel.textShadowBlur = NULL,
legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
legend.emphasis.selectorLabel.textShadowOffsetY = NULL,
tooltip.show = TRUE,
tooltip.trigger = "axis",
tooltip.backgroundColor = NULL,
tooltip.borderColor = NULL,
tooltip.borderWidth = NULL,
tooltip.padding = NULL,
```

```
    tooltip.axisPointer.type = "cross",
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
    tooltip.textStyle.fontFamily = "Segoe UI",
    tooltip.textStyle.lineHeight = NULL,
    tooltip.textStyle.width = NULL,
    tooltip.textStyle.height = NULL,
    tooltip.textStyle.textBorderColor = NULL,
    tooltip.textStyle.textBorderWidth = NULL,
    tooltip.textStyle.textBorderType = NULL,
    tooltip.textStyle.textShadowColor = NULL,
    tooltip.textStyle.textShadowBlur = NULL,
    tooltip.textStyle.textShadowOffsetX = NULL,
    tooltip.textStyle.textShadowOffsetY = NULL,
    toolbox.show = TRUE,
    toolbox.orient = "horizontal",
    toolbox.itemSize = 15,
    toolbox.itemGap = 8,
    toolbox.top = NULL,
    toolbox.left = NULL,
    toolbox.right = NULL,
    toolbox.bottom = NULL,
    toolbox.width = NULL,
    toolbox.heigth = NULL,
    toolbox.feature.saveAsImage.show = TRUE,
    toolbox.feature.restore.show = TRUE,
    toolbox.feature.dataZoom.show = TRUE,
    toolbox.feature.magicType.show = TRUE,
    toolbox.feature.magicType.type = c("line", "bar", "stack"),
    toolbox.feature.dataView.show = TRUE,
    toolbox.iconStyle.color = NULL,
    toolbox.iconStyle.borderColor = NULL,
    toolbox.emphasis.iconStyle.borderColor = NULL,
    toolbox.iconStyle.shadowBlur = NULL,
    toolbox.iconStyle.shadowColor = NULL,
    toolbox.iconStyle.shadowOffsetX = NULL,
    toolbox.iconStyle.shadowOffsetY = NULL,
    Debug = FALSE
)
```

Arguments

dt	source data.table
AggMethod	character
PreAgg	logical
XVar	X-Axis variable name
YVar	Y-Axis variable name. You can supply multiple YVars
DualYVar	Secondary Y-Axis variables. Leave NULL for no secondary axis. Only one variable is allowed and when this is set only one YVar is allowed. An error will be thrown if those conditions are not met
GroupVar	One Grouping Variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
DualYVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
Height	"400px"
Width	"200px"
ShowLabels	character
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
ShowSymbol	= FALSE
lineStyle.color	hex or name
lineStyle.width	numeric
lineStyle.type	'solid' 'dashed' 'dotted'
lineStyle.shadowColor	hex or color

`lineStyle.shadowBlur`
: numeric

`lineStyle.shadowOffsetX`
: numeric

`lineStyle.shadowOffsetY`
: numeric

`title.text`
: Title name

`title.subtext`
: Subtitle name

`title.link`
: Title as a link

`title.sublink`
: Subtitle as a link

`title.Align`
: 'auto' 'left' 'right' 'center'

`title.top`
: 'auto' '20' 'top' 'middle' 'bottom'

`title.left`
: distance between title and left side of container

`title.right`
: distance between title and right side of container

`title.bottom`
: 'auto' '20' 'top' 'middle' 'bottom'

`title.padding`
: numeric

`title.itemGap`
: space between title and subtitle

`title.backgroundColor`
: hex or name

`title.borderColor`
: hex or name

`title.borderWidth`
: numeric

`title.borderRadius`
: numeric

`title.shadowColor`
: hex or name

`title.shadowBlur`
: numeric

`title.shadowOffsetX`
: numeric

`title.shadowOffsetY`
: numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`xAxis.title`
: Axis title

`xAxis.min`
: Min value

`xAxis.max`
: Max value

`xAxis.position`
: 'bottom', 'top'

`xAxis.nameLocation`
: 'center', 'start', 'middle'

`xAxis.axisTick.customValues`
: Custom values for the x-axis

`xAxis.nameTextStyle.color`
: hex or named color

`xAxis.nameTextStyle.padding`
: numeric

`xAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`xAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`xAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`xAxis.nameTextStyle.fontSize`
: numeric

`xAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`xAxis.nameTextStyle.textShadowColor`
: hex or named color

`xAxis.nameTextStyle.textShadowBlur`
: numeric

`xAxis.nameTextStyle.textShadowOffsetX`
: numeric

`xAxis.nameTextStyle.textShadowOffsetY`
: numeric

`xAxis.splitNumber`
: numeric. Increments for numeric axis labels

xAxis.axisLabel.rotate
: numeric

xAxis.axisLabel.margin
: numeric

xAxis.axisLabel.color
: hex or named

xAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

xAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

xAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

xAxis.axisLabel.fontSize
: numeric

xAxis.axisLabel.align
: 'center', 'left', 'right'

xAxis.axisLabel.verticalAlign
: 'top', 'bottom'

xAxis.axisLabel.backgroundColor
: hex or named

xAxis.axisLabel.borderColor
: hex or named

xAxis.axisLabel.borderWidth
: numeric

xAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

xAxis.axisLabel.borderRadius
: numeric

xAxis.axisLabel.padding
: numeric

xAxis.axisLabel.shadowColor
: hex or named

xAxis.axisLabel.shadowBlur
: numeric

xAxis.axisLabel.shadowOffsetX
: numeric

xAxis.axisLabel.shadowOffsetY
: numeric

xAxis.axisLabel.textBorderColor
: hex or named

xAxis.axisLabel.textBorderWidth
: numeric

xAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

`xAxis.axisLabel.textShadowColor`
: hex or named

`xAxis.axisLabel.textShadowBlur`
: numeric

`xAxis.axisLabel.textShadowOffsetX`
: numeric

`xAxis.axisLabel.textShadowOffsetY`
: numeric

`xAxis.axisLabel.overflow`
: 'truncate'

`yAxis.title`
: Axis title

`yAxis.min`
: Min value

`yAxis.max`
: Max value

`yAxis.position`
: 'bottom', 'top'

`yAxis.nameLocation`
: 'center', 'start', 'middle'

`yAxis.axisTick.customValues`
: Custom values for the y-axis

`yAxis.nameTextStyle.color`
: hex or named color

`yAxis.nameTextStyle.padding`
: numeric

`yAxis.nameTextStyle.align`
: 'center', 'left', 'right'

`yAxis.nameTextStyle.fontStyle`
: 'italic', 'normal' 'oblique'

`yAxis.nameTextStyle.fontWeight`
: 'normal', 'bold', 'bolder', 'lighter'

`yAxis.nameTextStyle.fontSize`
: numeric

`yAxis.nameTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`yAxis.nameTextStyle.textShadowColor`
: hex or named color

`yAxis.nameTextStyle.textShadowBlur`
: numeric

`yAxis.nameTextStyle.textShadowOffsetX`
: numeric

`yAxis.nameTextStyle.textShadowOffsetY`
: numeric

`yAxis.splitNumber`
: numeric. Increments for numeric axis labels

`yAxis.axisLabel.rotate`
: numeric

yAxis.axisLabel.margin
: numeric

yAxis.axisLabel.color
: hex or named

yAxis.axisLabel.fontStyle
: 'italic', 'normal' 'oblique'

yAxis.axisLabel.fontWeight
: 'normal', 'bold', 'bolder', 'lighter'

yAxis.axisLabel.fontFamily
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

yAxis.axisLabel.fontSize
: numeric

yAxis.axisLabel.align
: 'center', 'left', 'right'

yAxis.axisLabel.verticalAlign
: 'top', 'bottom'

yAxis.axisLabel.backgroundColor
: hex or named

yAxis.axisLabel.borderColor
: hex or named

yAxis.axisLabel.borderWidth
: numeric

yAxis.axisLabel.borderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.borderRadius
: numeric

yAxis.axisLabel.padding
: numeric

yAxis.axisLabel.shadowColor
: hex or named

yAxis.axisLabel.shadowBlur
: numeric

yAxis.axisLabel.shadowOffsetX
: numeric

yAxis.axisLabel.shadowOffsetY
: numeric

yAxis.axisLabel.textBorderColor
: hex or named

yAxis.axisLabel.textBorderWidth
: numeric

yAxis.axisLabel.textBorderType
: 'solid', 'dashed', 'dotted'

yAxis.axisLabel.textShadowColor
: hex or named

yAxis.axisLabel.textShadowBlur
: numeric

yAxis.axisLabel.textShadowOffsetX
: numeric

yAxis.axisLabel.textShadowOffsetY
: numeric

yAxis.axisLabel.overflow
: 'truncate'

legend.show
: logical

legend.type
: 'scroll' 'plain'

legend.selector
: logical

legend.icon
: 'circle', 'rect', 'roundRect', 'triangle', 'diamond', 'pin', 'arrow', 'none'

legend.align
: 'auto' 'left' 'right'

legend.padding
: numeric

legend.itemGap
: numeric

legend.itemWidth
: numeric

legend.orient
: 'vertical' 'horizontal'

legend.width
: numeric

legend.height
: numeric

legend.left
: numeric

legend.right
: numeric

legend.top
: numeric

legend.bottom
: numeric

legend.backgroundColor
: hex or color name

legend.borderColor
: hex or color name

legend.borderWidth
: numeric

legend.borderRadius
: numeric

legend.shadowBlur
: numeric

legend.shadowColor
: hex or color name

legend.shadowOffsetX
: numeric

legend.shadowOffsetY
: numeric

legend.itemStyle.color
: hex or color name

`legend.itemStyle.borderColor`
: hex or color name

`legend.itemStyle.borderWidth`
: numeric

`legend.itemStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.itemStyle.shadowBlur`
: numeric

`legend.itemStyle.shadowColor`
: hex or color name

`legend.itemStyle.shadowOffsetX`
: numeric

`legend.itemStyle.shadowOffsetY`
: numeric

`legend.itemStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.color`
: hex or color name

`legend.lineStyle.width`
: numeric

`legend.lineStyle.type`
: 'solid' 'dashed' 'dotted'

`legend.lineStyle.shadowBlur`
: numeric

`legend.lineStyle.shadowColor`
: hex or color name

`legend.lineStyle.shadowOffsetX`
: numeric

`legend.lineStyle.shadowOffsetY`
: numeric

`legend.lineStyle.opacity`
: numeric 0 to 1

`legend.lineStyle.inactiveColor`
: hex or color name

`legend.lineStyle.inactiveWidth`
: numeric

`legend.textStyle.color`
: hex or color name

`legend.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.textStyle.fontSize`
: numeric

`legend.textStyle.backgroundColor`
: hex or color name

`legend.textStyle.borderColor`
: hex or color name

`legend.textStyle.borderWidth`
: numeric

`legend.textStyle.borderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.borderRadius`
: numeric

`legend.textStyle.padding`
: numeric

`legend.textStyle.shadowColor`
: hex or color name

`legend.textStyle.shadowBlur`
: numeric

`legend.textStyle.shadowOffsetX`
: numeric

`legend.textStyle.shadowOffsetY`
: numeric

`legend.textStyle.width`
: numeric

`legend.textStyle.height`
: numeric

`legend.textStyle.textBorderColor`
: hex or color name

`legend.textStyle.textBorderWidth`
: numeric

`legend.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.textStyle.textShadowColor`
: hex or color name

`legend.textStyle.textShadowBlur`
: numeric

`legend.textStyle.textShadowOffsetX`
: numeric

`legend.textStyle.textShadowOffsetY`
: numeric

`legend.pageTextStyle.color`
: hex or color name

`legend.pageTextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.pageTextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.pageTextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.pageTextStyle.fontSize`
: numeric

`legend.pageTextStyle.lineHeight`
: numeric

`legend.pageTextStyle.width`
: numeric

`legend.pageTextStyle.height`
: numeric

`legend.pageTextStyle.textBorderColor`
: hex or color name

`legend.pageTextStyle.textBorderWidth`
: numeric

`legend.pageTextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`legend.pageTextStyle.textShadowColor`
: hex or color name

`legend.pageTextStyle.textShadowBlur`
: numeric

`legend.pageTextStyle.textShadowOffsetX`
: numeric

`legend.pageTextStyle.textShadowOffsetY`
: numeric

`legend.emphasis.selectorLabel.show`
: logical

`legend.emphasis.selectorLabel.distance`
: numeric

`legend.emphasis.selectorLabel.rotate`
: numeric

`legend.emphasis.selectorLabel.color`
: hex or color name

`legend.emphasis.selectorLabel.fontStyle`
: 'normal' 'italic' 'oblique'

`legend.emphasis.selectorLabel.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`legend.emphasis.selectorLabel.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`legend.emphasis.selectorLabel.fontSize`
: numeric

`legend.emphasis.selectorLabel.align`
: 'left' 'center' 'right'

`legend.emphasis.selectorLabel.verticalAlign`
: 'top' 'middle' 'bottom'

`legend.emphasis.selectorLabel.lineHeight`
: numeric

legend.emphasis.selectorLabel.backgroundColor
: hex or color name

legend.emphasis.selectorLabel.borderColor
: hex or color name

legend.emphasis.selectorLabel.borderWidth
: numeric

legend.emphasis.selectorLabel.borderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.borderRadius
: numeric

legend.emphasis.selectorLabel.padding
: numeric

legend.emphasis.selectorLabel.shadowColor
: hex or color name

legend.emphasis.selectorLabel.shadowBlur
: numeric

legend.emphasis.selectorLabel.shadowOffsetX
: numeric

legend.emphasis.selectorLabel.shadowOffsetY
: numeric

legend.emphasis.selectorLabel.width
: numeric

legend.emphasis.selectorLabel.height
: numeric

legend.emphasis.selectorLabel.textBorderColor
: hex or color name

legend.emphasis.selectorLabel.textBorderWidth
: numeric

legend.emphasis.selectorLabel.textBorderType
: 'solid' 'dashed' 'dotted'

legend.emphasis.selectorLabel.textShadowColor
: hex or color name

legend.emphasis.selectorLabel.textShadowBlur
: numeric

legend.emphasis.selectorLabel.textShadowOffsetX
: numeric

legend.emphasis.selectorLabel.textShadowOffsetY
: numeric

tooltip.show
: logical

tooltip.trigger
: "axis" "item" "none"

tooltip.backgroundColor
: hex or name

tooltip.borderColor
: numeric

tooltip.borderWidth
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: valid family name

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show` logical

`toolbox.orient` "horizontal" or "vertical"

toolbox.itemSize
: Default 15

toolbox.itemGap
: Default 8

toolbox.top
: numeric

toolbox.left
: numeric

toolbox.right
: numeric

toolbox.bottom
: numeric

toolbox.width
: numeric

toolbox.heigth
: numeric

toolbox.feature.saveAsImage.show
: logical

toolbox.feature.restore.show
: logical

toolbox.feature.dataZoom.show
: logical

toolbox.feature.magicType.show
: logical

toolbox.feature.magicType.type
: 'bar' 'line' 'stack'

toolbox.feature.dataView.show
: logical

toolbox.iconStyle.color
: hex

toolbox.iconStyle.borderColor
: hex

toolbox.emphasis.iconStyle.borderColor
: hex

toolbox.iconStyle.shadowBlur
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), WordCloud()

Examples

```
# Create fake data
data <- AutoPlots::FakeDataGenerator(N = 1000)

# Build plot
AutoPlots::Step(
  dt = data,
  PreAgg = TRUE,
  AggMethod = "mean",
  XVar = "DateTime",
  YVar = "Independent_Variable3",
  YVarTrans = "Identity",
  DualYVar = "Independent_Variable6",
  DualYVarTrans = "Identity",
  GroupVar = NULL,
  Theme = "macarons")
```

Treemap *Treemap chart*

Description

High-level wrapper for building treemap charts with **echarts4r** from data in wide/tabular form. This function handles optional aggregation, transformation of the value variable, construction of a hierarchical structure from GroupVar, and then delegates all visual options to the extended helpers such as e_treemap_full, e_title_full, e_legend_full, e_tooltip_full, and e_toolbox_full.

Usage

```
Treemap(
  dt = NULL,
  PreAgg = TRUE,
  YVar = NULL,
  GroupVar = NULL,
  RateNumer = NULL,
  RateDenom = NULL,
```

```
  AreaMetric = NULL,
  YVarTrans = "Identity",
  AggMethod = "sum",
  Height = NULL,
  Width = NULL,
  Theme = "dark",
  ShowLabels = TRUE,
  MouseScroll = FALSE,
  squareRatio = NULL,
  leafDepth = 1,
  drillDownIcon = "<U+25B6>",
  roam = NULL,
  scaleLimit.min = NULL,
  scaleLimit.max = NULL,
  nodeClick = "zoomToNode",
  zoomToNodeRatio = 0.32 * 0.32,
  visualDimension = NULL,
  visualMin = NULL,
  visualMax = NULL,
  colorAlpha = NULL,
  colorSaturation = NULL,
  colorMappingBy = "value",
  visibleMin = 10,
  childrenVisibleMin = NULL,
  silent = FALSE,
  animationDuration = 1500,
  animationEasing = "quinticInOut",
  animationDelay = 0,
  tooltip = NULL,
  cursor = "pointer",
  label.show = TRUE,
  label.position = NULL,
  label.distance = NULL,
  label.rotate = NULL,
  label.offset = NULL,
  label.textMargin = NULL,
  label.minMargin = NULL,
  label.formatter = NULL,
  label.color = "black",
  label.fontStyle = NULL,
  label.fontWeight = NULL,
  label.fontFamily = NULL,
  label.fontSize = NULL,
  label.align = NULL,
  label.verticalAlign = NULL,
  label.lineHeight = NULL,
  label.backgroundColor = NULL,
  label.borderColor = NULL,
```

```
label.borderWidth = NULL,
label.borderType = NULL,
label.borderDashOffset = NULL,
label.borderRadius = NULL,
label.padding = NULL,
label.shadowColor = NULL,
label.shadowBlur = NULL,
label.shadowOffsetX = NULL,
label.shadowOffsetY = NULL,
label.width = NULL,
label.height = NULL,
label.textBorderColor = NULL,
label.textBorderWidth = NULL,
label.textBorderType = NULL,
label.textBorderDashOffset = NULL,
label.textShadowColor = NULL,
label.textShadowBlur = NULL,
label.textShadowOffsetX = NULL,
label.textShadowOffsetY = NULL,
label.overflow = NULL,
label.ellipsis = NULL,
label.rich = NULL,
label.richInheritPlainLabel = NULL,
upperLabel.show = FALSE,
upperLabel.position = NULL,
upperLabel.distance = NULL,
upperLabel.rotate = NULL,
upperLabel.offset = NULL,
upperLabel.formatter = NULL,
upperLabel.color = NULL,
upperLabel.fontStyle = NULL,
upperLabel.fontWeight = NULL,
upperLabel.fontFamily = NULL,
upperLabel.fontSize = NULL,
upperLabel.align = NULL,
upperLabel.verticalAlign = NULL,
upperLabel.lineHeight = NULL,
upperLabel.backgroundColor = NULL,
upperLabel.borderColor = NULL,
upperLabel.borderWidth = NULL,
upperLabel.borderType = NULL,
upperLabel.borderDashOffset = NULL,
upperLabel.borderRadius = NULL,
upperLabel.padding = NULL,
upperLabel.shadowColor = NULL,
upperLabel.shadowBlur = NULL,
upperLabel.shadowOffsetX = NULL,
upperLabel.shadowOffsetY = NULL,
```

```
    upperLabel.width = NULL,
    upperLabel.height = NULL,
    upperLabel.textBorderColor = NULL,
    upperLabel.textBorderWidth = NULL,
    upperLabel.textBorderType = NULL,
    upperLabel.textBorderDashOffset = NULL,
    upperLabel.textShadowColor = NULL,
    upperLabel.textShadowBlur = NULL,
    upperLabel.textShadowOffsetX = NULL,
    upperLabel.textShadowOffsetY = NULL,
    upperLabel.overflow = NULL,
    upperLabel.ellipsis = NULL,
    upperLabel.rich = NULL,
    upperLabel.richInheritPlainLabel = NULL,
    itemStyle.color = NULL,
    itemStyle.borderRadius = 20,
    itemStyle.borderWidth = 2,
    itemStyle.gapWidth = 5,
    itemStyle.borderColor = "black",
    itemStyle.borderColorSaturation = NULL,
    itemStyle.shadowBlur = NULL,
    itemStyle.shadowColor = NULL,
    itemStyle.shadowOffsetX = NULL,
    itemStyle.shadowOffsetY = NULL,
    itemStyle.opacity = NULL,
    itemStyle.decal = NULL,
    emphasis.disabled = FALSE,
    emphasis.focus = NULL,
    emphasis.blurScope = "coordinateSystem",
    emphasis.label = NULL,
    emphasis.labelLine = NULL,
    emphasis.upperLabel = NULL,
    emphasis.itemStyle.color = NULL,
    emphasis.itemStyle.borderColor = "#FFFFFFFF",
    emphasis.itemStyle.borderWidth = 2,
    emphasis.itemStyle.shadowBlur = 25,
    emphasis.itemStyle.shadowColor = "#FFFFFF77",
    emphasis.itemStyle.shadowOffsetX = 0,
    emphasis.itemStyle.shadowOffsetY = 0,
    emphasis.itemStyle.opacity = 1,
    blur.label = NULL,
    blur.labelLine = NULL,
    blur.upperLabel = NULL,
    blur.itemStyle.color = NULL,
    blur.itemStyle.borderColor = NULL,
    blur.itemStyle.borderWidth = NULL,
    blur.itemStyle.shadowBlur = NULL,
    blur.itemStyle.shadowColor = NULL,
```

```
blur.itemStyle.shadowOffsetX = NULL,
blur.itemStyle.shadowOffsetY = NULL,
blur.itemStyle.opacity = 0.35,
breadcrumb.show = TRUE,
breadcrumb.left = NULL,
breadcrumb.top = NULL,
breadcrumb.right = NULL,
breadcrumb.bottom = NULL,
breadcrumb.height = 22,
breadcrumb.emptyItemWidth = 20,
breadcrumb.itemStyle.color = "#FFFFFF0F",
breadcrumb.itemStyle.borderColor = "#FFFFFF22",
breadcrumb.itemStyle.borderWidth = 1,
breadcrumb.itemStyle.borderRadius = 3,
breadcrumb.itemStyle.shadowBlur = 7,
breadcrumb.itemStyle.shadowColor = "darkblue",
breadcrumb.itemStyle.shadowOffsetX = 3,
breadcrumb.itemStyle.shadowOffsetY = 4,
breadcrumb.itemStyle.textStyle.color = "#FFFFFFCC",
breadcrumb.itemStyle.textStyle.fontSize = 12,
breadcrumb.itemStyle.textStyle.fontFamily = "Segoe UI",
breadcrumb.emphasis.borderColor = "#FFFFFF55",
breadcrumb.emphasis.borderWidth = 1,
breadcrumb.emphasis.shadowBlur = NULL,
breadcrumb.emphasis.shadowColor = NULL,
breadcrumb.emphasis.shadowOffsetX = NULL,
breadcrumb.emphasis.shadowOffsetY = NULL,
breadcrumb.emphasis.textStyle.color = "#FFFFFFAF",
breadcrumb.emphasis.textStyle.fontSize = 12,
breadcrumb.emphasis.textStyle.fontFamily = "Segoe UI",
title.text = NULL,
title.subtext = NULL,
title.link = NULL,
title.sublink = NULL,
title.Align = "left",
title.top = NULL,
title.left = "left",
title.right = NULL,
title.bottom = NULL,
title.padding = NULL,
title.itemGap = NULL,
title.backgroundColor = NULL,
title.borderColor = NULL,
title.borderWidth = NULL,
title.borderRadius = NULL,
title.shadowColor = NULL,
title.shadowBlur = NULL,
title.shadowOffsetX = NULL,
```

```
    title.shadowOffsetY = NULL,
    title.textStyle.color = NULL,
    title.textStyle.fontStyle = NULL,
    title.textStyle.fontWeight = NULL,
    title.textStyle.fontFamily = "Segoe UI",
    title.textStyle.fontSize = NULL,
    title.textStyle.lineHeight = NULL,
    title.textStyle.width = NULL,
    title.textStyle.height = NULL,
    title.textStyle.textBorderColor = NULL,
    title.textStyle.textBorderWidth = NULL,
    title.textStyle.textBorderType = NULL,
    title.textStyle.textBorderDashOffset = NULL,
    title.textStyle.textShadowColor = NULL,
    title.textStyle.textShadowBlur = NULL,
    title.textStyle.textShadowOffsetX = NULL,
    title.textStyle.textShadowOffsetY = NULL,
    title.subtextStyle.color = NULL,
    title.subtextStyle.align = NULL,
    title.subtextStyle.fontStyle = NULL,
    title.subtextStyle.fontWeight = NULL,
    title.subtextStyle.fontFamily = "Segoe UI",
    title.subtextStyle.fontSize = NULL,
    title.subtextStyle.lineHeight = NULL,
    title.subtextStyle.width = NULL,
    title.subtextStyle.height = NULL,
    title.subtextStyle.textBorderColor = NULL,
    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = NULL,
    title.subtextStyle.textShadowColor = NULL,
    title.subtextStyle.textShadowBlur = NULL,
    title.subtextStyle.textShadowOffsetX = NULL,
    title.subtextStyle.textShadowOffsetY = NULL,
    tooltip.show = TRUE,
    tooltip.trigger = "item",
    tooltip.backgroundColor = NULL,
    tooltip.borderColor = NULL,
    tooltip.borderWidth = NULL,
    tooltip.padding = NULL,
    tooltip.axisPointer.type = NULL,
    tooltip.axisPointer.lineStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.color = NULL,
    tooltip.axisPointer.shadowStyle.shadowBlur = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetX = NULL,
    tooltip.axisPointer.shadowStyle.shadowOffsetY = NULL,
    tooltip.axisPointer.shadowStyle.opacity = NULL,
    tooltip.textStyle.color = NULL,
```

```
  tooltip.textStyle.fontStyle = NULL,
  tooltip.textStyle.fontWeight = NULL,
  tooltip.textStyle.fontFamily = "Segoe UI",
  tooltip.textStyle.lineHeight = NULL,
  tooltip.textStyle.width = NULL,
  tooltip.textStyle.height = NULL,
  tooltip.textStyle.textBorderColor = NULL,
  tooltip.textStyle.textBorderWidth = NULL,
  tooltip.textStyle.textBorderType = NULL,
  tooltip.textStyle.textShadowColor = NULL,
  tooltip.textStyle.textShadowBlur = NULL,
  tooltip.textStyle.textShadowOffsetX = NULL,
  tooltip.textStyle.textShadowOffsetY = NULL,
  toolbox.show = TRUE,
  toolbox.orient = "horizontal",
  toolbox.itemSize = 15,
  toolbox.itemGap = 8,
  toolbox.top = NULL,
  toolbox.left = NULL,
  toolbox.right = NULL,
  toolbox.bottom = NULL,
  toolbox.width = NULL,
  toolbox.heigth = NULL,
  toolbox.feature.saveAsImage.show = TRUE,
  toolbox.feature.restore.show = FALSE,
  toolbox.feature.dataZoom.show = FALSE,
  toolbox.feature.magicType.show = FALSE,
  toolbox.feature.magicType.type = NULL,
  toolbox.feature.dataView.show = TRUE,
  toolbox.iconStyle.color = NULL,
  toolbox.iconStyle.borderColor = NULL,
  toolbox.emphasis.iconStyle.borderColor = NULL,
  toolbox.iconStyle.shadowBlur = NULL,
  toolbox.iconStyle.shadowColor = NULL,
  toolbox.iconStyle.shadowOffsetX = NULL,
  toolbox.iconStyle.shadowOffsetY = NULL,
  Debug = FALSE
)
```

Arguments

dt	A data.table or data.frame containing the data to plot. If not already a data.table, it will be coerced internally.
PreAgg	Logical; if FALSE, the function aggregates YVar over GroupVar using AggMethod. If TRUE, the input dt is assumed to already be aggregated at the desired level.
YVar	Character scalar; name of the column in dt that provides the numeric values used for treemap tile sizes.
GroupVar	Character vector; names of one or more columns in dt that define the grouping

	hierarchy. The first element is treated as the top-level group, the last element as the leaf level.
RateNumer	numerator columns for rolling up rates
RateDenom	denominator columns for rolling up rates
AreaMetric	choice metric for area determination c("main", "rate", "numerator", "denominator")
YVarTrans	Character scalar specifying an optional transformation to apply to YVar after aggregation (e.g. "Identity", "Log", etc.), passed through to AutoTransformationCreate().
AggMethod	Character scalar specifying the aggregation function used when PreAgg = FALSE, e.g. "sum", "mean", etc. This is resolved via SummaryFunction().
Height, Width	Optional numeric or character dimensions passed to echarts4r::e_charts_() as chart size (e.g. 400 or
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
ShowLabels	Logical, currently used as a convenience flag for whether node labels should be visible. This typically maps to label.show and/or upperLabel.show.
MouseScroll	Logical; if TRUE, mouse wheel scrolling can be used for zooming/panning. This typically influences roam or related options.
squareRatio	Numeric squarify aspect ratio for the treemap layout.
leafDepth	Integer maximum depth of nodes to display; when NULL, a default based on length(GroupVar) may be used.
drillDownIcon	Character string for the drill-down icon.
roam	Logical or character; controls whether panning/zooming is enabled for the treemap.
scaleLimit.min, scaleLimit.max	Optional numeric minimum/maximum zoom scale for the treemap.
nodeClick	Character specifying the behaviour when a node is clicked, e.g. "zoomToNode" or "link".
zoomToNodeRatio	Numeric zoom ratio when using nodeClick = "zoomToNode".
visualDimension	Integer or character specifying which dimension is used for visual mapping.
visualMin, visualMax	Numeric visual mapping range for the selected visualDimension.
colorAlpha	Optional numeric range for alpha channel mapping.
colorSaturation	Optional numeric range for color saturation mapping.
colorMappingBy	Character specifying how colors are mapped ("index", "value", etc.).

`visibleMin` Numeric threshold that hides nodes whose area is smaller than this value.

`childrenVisibleMin`
Numeric threshold that hides children nodes whose area is smaller than this value.

`silent` Logical indicating whether mouse events are disabled for the treemap series.

`animationDuration`
Numeric animation duration in milliseconds.

`animationEasing`
Character name of the easing function used for the treemap animation.

`animationDelay` Numeric delay (in milliseconds) before animation starts.

`tooltip` Optional list of series-level tooltip options. If `NULL`, a default formatter is constructed internally.

`cursor` Character CSS cursor to use when hovering over nodes.

`label.show` Logical; whether node labels are shown (ECharts `label.show`).

`label.position` Character; position of the label relative to the node. Common values: `"top"`, `"left"`, `"right"`, `"bottom"`, `"inside"`, `"insideLeft"`, `"insideRight"`, etc.

`label.distance` Numeric or integer; distance to the element when label is outside the node (ECharts `label.distance`).

`label.rotate` Numeric or character; rotation of label text in degrees or `"radial"`, `"tangential"` depending on context.

`label.offset` Numeric/integer vector or list; x/y offset of label from its default position (ECharts `label.offset`).

`label.textMargin`
Numeric/integer; extra margin around label text box.

`label.minMargin`
Numeric/integer; minimum margin between label and node edge.

`label.formatter`
Character or list; text formatter for labels (string template or JS function).

`label.color` Character; text color of labels.

`label.fontStyle`
Character; label font style. Common values: `"normal"`, `"italic"`, `"oblique"`.

`label.fontWeight`
Character or numeric; label font weight. E.g. `"normal"`, `"bold"`, `"bolder"`, `"lighter"`, or numeric weights like `400`, `700`.

`label.fontFamily`
Character; label font family name.

`label.fontSize` Numeric/integer; label font size (px).

`label.align` Character; horizontal alignment of label text. One of `"left"`, `"center"`, `"right"`.

`label.verticalAlign`
Character; vertical alignment of label text. One of `"top"`, `"middle"`, `"bottom"`.

`label.lineHeight`
Numeric/integer; line height of label text.

label.backgroundColor
: Character or list; background color for label (or style object).

label.borderColor
: Character; label border color.

label.borderWidth
: Numeric/integer; label border width (px).

label.borderType
: Character or numeric; border type for label. E.g. "solid", "dashed", "dotted" or numeric pattern.

label.borderDashOffset
: Numeric; dash offset for dashed label border.

label.borderRadius
: Numeric/integer or vector; corner radius for label background.

label.padding
: Numeric/integer or vector; padding inside label box.

label.shadowColor
: Character; shadow color of label box.

label.shadowBlur
: Numeric/integer; shadow blur radius for label.

label.shadowOffsetX
: Numeric/integer; horizontal shadow offset.

label.shadowOffsetY
: Numeric/integer; vertical shadow offset.

label.width
: Numeric/integer or character; forced label width.

label.height
: Numeric/integer or character; forced label height.

label.textBorderColor
: Character; color of text stroke (outline).

label.textBorderWidth
: Numeric/integer; width of text stroke.

label.textBorderType
: Character or numeric; border type of text stroke ("solid", "dashed", etc.).

label.textBorderDashOffset
: Numeric; dash offset for text stroke.

label.textShadowColor
: Character; color of text shadow.

label.textShadowBlur
: Numeric/integer; blur radius of text shadow.

label.textShadowOffsetX
: Numeric/integer; horizontal text shadow offset.

label.textShadowOffsetY
: Numeric/integer; vertical text shadow offset.

label.overflow
: Character; how to handle text overflow. Common values: "truncate", "break", "breakAll".

label.ellipsis
: Character; string used as ellipsis when truncating text.

label.rich
: List; rich text styles object for label rich text.

`label.richInheritPlainLabel`
: Logical; whether rich text inherits plain label styles.

`upperLabel.show`
: Logical; whether upper-level labels are shown (ECharts `upperLabel.show`).

`upperLabel.position`
: Character; position of the upper-level label. Same options as `label.position`.

`upperLabel.distance`
: Numeric/integer; distance to element when upper label is outside the node.

`upperLabel.rotate`
: Numeric or character; rotation of upper-level label.

`upperLabel.offset`
: Numeric/integer vector or list; offset for upper-level label position.

`upperLabel.formatter`
: Character or list; formatter for upper-level labels (string template or JS function).

`upperLabel.color`
: Character; text color of upper-level labels.

`upperLabel.fontStyle`
: Character; font style for upper-level labels (`"normal"`, `"italic"`, etc.).

`upperLabel.fontWeight`
: Character or numeric; font weight for upper-level labels.

`upperLabel.fontFamily`
: Character; font family for upper-level labels.

`upperLabel.fontSize`
: Numeric/integer; font size for upper-level labels.

`upperLabel.align`
: Character; horizontal alignment of upper-level text.

`upperLabel.verticalAlign`
: Character; vertical alignment of upper-level text.

`upperLabel.lineHeight`
: Numeric/integer; line height of upper-level text.

`upperLabel.backgroundColor`
: Character or list; background color for upper-level label box.

`upperLabel.borderColor`
: Character; border color for upper-level label.

`upperLabel.borderWidth`
: Numeric/integer; border width for upper-level label.

`upperLabel.borderType`
: Character or numeric; border type for upper-level label.

`upperLabel.borderDashOffset`
: Numeric; dash offset for upper-level label border.

`upperLabel.borderRadius`
: Numeric/integer or vector; border radius for upper-level label box.

`upperLabel.padding`
: Numeric/integer or vector; padding for upper-level label box.

upperLabel.shadowColor
: Character; shadow color for upper-level label.

upperLabel.shadowBlur
: Numeric/integer; shadow blur for upper-level label.

upperLabel.shadowOffsetX
: Numeric/integer; horizontal shadow offset for upper-level label.

upperLabel.shadowOffsetY
: Numeric/integer; vertical shadow offset for upper-level label.

upperLabel.width
: Numeric/integer or character; forced width for upper-level label.

upperLabel.height
: Numeric/integer or character; forced height for upper-level label.

upperLabel.textBorderColor
: Character; text stroke color for upper-level label.

upperLabel.textBorderWidth
: Numeric/integer; text stroke width for upper-level label.

upperLabel.textBorderType
: Character or numeric; text stroke type for upper-level label.

upperLabel.textBorderDashOffset
: Numeric; dash offset for upper-level text stroke.

upperLabel.textShadowColor
: Character; text shadow color for upper-level label.

upperLabel.textShadowBlur
: Numeric/integer; text shadow blur for upper-level label.

upperLabel.textShadowOffsetX
: Numeric/integer; horizontal text shadow offset for upper-level label.

upperLabel.textShadowOffsetY
: Numeric/integer; vertical text shadow offset for upper-level label.

upperLabel.overflow
: Character; overflow behaviour for upper-level text ("truncate", "break", etc.).

upperLabel.ellipsis
: Character; ellipsis string for upper-level text.

upperLabel.rich
: List; rich text styles object for upper-level labels.

upperLabel.richInheritPlainLabel
: Logical; whether rich text styles for upper-level labels inherit plain label styles.

itemStyle.color
: Character or list; node color or style object for itemStyle.color.

itemStyle.borderRadius
: Numeric/integer or vector; border radius for node rectangles.

itemStyle.borderWidth
: Numeric/integer; border width of node rectangles.

itemStyle.gapWidth
: Numeric/integer; gap width between nodes.

itemStyle.borderColor
: Character; border color of node rectangles.

itemStyle.borderColorSaturation
: Numeric; saturation adjustment of border color when colorSaturation is used.

itemStyle.shadowBlur
: Numeric/integer; blur radius for node shadow.

itemStyle.shadowColor
: Character; shadow color for nodes.

itemStyle.shadowOffsetX
: Numeric/integer; horizontal node shadow offset.

itemStyle.shadowOffsetY
: Numeric/integer; vertical node shadow offset.

itemStyle.opacity
: Numeric in [0, 1]; opacity of nodes.

itemStyle.decal
: List; decal pattern options for nodes.

emphasis.disabled
: Logical; whether emphasis (hover) is disabled for this series.

emphasis.focus
: Character; focus mode when hovering. Typical values: "none", "self", "ancestor", "descendant".

emphasis.blurScope
: Character; blur scope of non-focused elements. Common values: "coordinateSystem", "series", "global".

emphasis.label
: List; label options applied in emphasis state (overrides label when hovered).

emphasis.labelLine
: List; label line options in emphasis state.

emphasis.upperLabel
: List; upper-level label options in emphasis state.

emphasis.itemStyle.color
: Character or NULL; fill color for treemap nodes in the emphasis (hover) state. Maps to emphasis.itemStyle.color.

emphasis.itemStyle.borderColor
: Character or NULL; border color for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.borderColor.

emphasis.itemStyle.borderWidth
: Numeric or NULL; border width (in pixels) for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.borderWidth.

emphasis.itemStyle.shadowBlur
: Numeric or NULL; blur radius for the drop shadow of treemap nodes in the emphasis state. Maps to emphasis.itemStyle.shadowBlur.

emphasis.itemStyle.shadowColor
: Character or NULL; shadow color for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.shadowColor.

emphasis.itemStyle.shadowOffsetX
: Numeric or NULL; horizontal offset (in pixels) of the shadow for treemap nodes in the emphasis state. Maps to emphasis.itemStyle.shadowOffsetX.

emphasis.itemStyle.shadowOffsetY
: Numeric or NULL; vertical offset (in pixels) of the shadow for treemap nodes in the emphasis state. Maps to `emphasis.itemStyle.shadowOffsetY`.

emphasis.itemStyle.opacity
: Numeric or NULL; opacity of treemap nodes in the emphasis state, typically a value in [0, 1]. Maps to `emphasis.itemStyle.opacity`.

blur.label
: List; label options in blur state (when other items are focused).

blur.labelLine
: List; label line options in blur state.

blur.upperLabel
: List; upper-level label options in blur state.

blur.itemStyle.color
: Character or NULL; fill color for treemap nodes in the blur (de-emphasized) state when other nodes are highlighted. Maps to `blur.itemStyle.color`.

blur.itemStyle.borderColor
: Character or NULL; border color for treemap nodes in the blur state. Maps to `blur.itemStyle.borderColor`.

blur.itemStyle.borderWidth
: Numeric or NULL; border width (in pixels) for treemap nodes in the blur state. Maps to `blur.itemStyle.borderWidth`.

blur.itemStyle.shadowBlur
: Numeric or NULL; blur radius for the drop shadow of treemap nodes in the blur state. Maps to `blur.itemStyle.shadowBlur`.

blur.itemStyle.shadowColor
: Character or NULL; shadow color for treemap nodes in the blur state. Maps to `blur.itemStyle.shadowColor`.

blur.itemStyle.shadowOffsetX
: Numeric or NULL; horizontal shadow offset (in pixels) for treemap nodes in the blur state. Maps to `blur.itemStyle.shadowOffsetX`.

blur.itemStyle.shadowOffsetY
: Numeric or NULL; vertical shadow offset (in pixels) for treemap nodes in the blur state. Maps to `blur.itemStyle.shadowOffsetY`.

blur.itemStyle.opacity
: Numeric or NULL; opacity of treemap nodes in the blur state, typically a value in [0, 1]. Maps to `blur.itemStyle.opacity`.

breadcrumb.show
: Logical; whether to display the treemap breadcrumb navigation bar.

breadcrumb.left
: Position of the breadcrumb container from the left; numeric (px) or character e.g. `"center"`

breadcrumb.top
: Position of the breadcrumb container from the top; numeric (px) or character.

breadcrumb.right
: Position of the breadcrumb container from the right; numeric (px) or character.

breadcrumb.bottom
: Position of the breadcrumb container from the bottom; numeric (px) or character.

`breadcrumb.height`
: Height of the breadcrumb bar.

`breadcrumb.emptyItemWidth`
: Width of a breadcrumb node when it has no name (placeholder width).

`breadcrumb.itemStyle.color`
: Background color of breadcrumb nodes.

`breadcrumb.itemStyle.borderColor`
: Border color for breadcrumb nodes.

`breadcrumb.itemStyle.borderWidth`
: Border width for breadcrumb nodes.

`breadcrumb.itemStyle.borderRadius`
: Corner radius for breadcrumb nodes.

`breadcrumb.itemStyle.shadowBlur`
: Shadow blur radius for breadcrumb nodes.

`breadcrumb.itemStyle.shadowColor`
: Shadow color for breadcrumb nodes.

`breadcrumb.itemStyle.shadowOffsetX`
: Horizontal shadow offset (in px) for breadcrumb nodes.

`breadcrumb.itemStyle.shadowOffsetY`
: Vertical shadow offset (in px) for breadcrumb nodes.

`breadcrumb.itemStyle.textStyle.color`
: Text color for breadcrumb labels.

`breadcrumb.itemStyle.textStyle.fontSize`
: Font size for breadcrumb labels.

`breadcrumb.itemStyle.textStyle.fontFamily`
: Font family for breadcrumb labels.

`breadcrumb.emphasis.borderColor`
: Border color when a breadcrumb node is emphasized (hover/active).

`breadcrumb.emphasis.borderWidth`
: Border width when a breadcrumb node is emphasized.

`breadcrumb.emphasis.shadowBlur`
: Shadow blur radius when a breadcrumb node is emphasized.

`breadcrumb.emphasis.shadowColor`
: Shadow color when a breadcrumb node is emphasized.

`breadcrumb.emphasis.shadowOffsetX`
: Horizontal shadow offset (in px) when a breadcrumb node is emphasized.

`breadcrumb.emphasis.shadowOffsetY`
: Vertical shadow offset (in px) when a breadcrumb node is emphasized.

`breadcrumb.emphasis.textStyle.color`
: Text color when a breadcrumb node is emphasized.

`breadcrumb.emphasis.textStyle.fontSize`
: Font size when a breadcrumb node is emphasized.

`breadcrumb.emphasis.textStyle.fontFamily`
: Font family when a breadcrumb node is emphasized.

`title.text`
: Title name

`title.subtext` Subtitle name

`title.link` Title as a link

`title.sublink` Subtitle as a link

`title.Align` 'auto' 'left' 'right' 'center'

`title.top` 'auto' '20' 'top' 'middle' 'bottom'

`title.left` distance between title and left side of container

`title.right` distance between title and right side of container

`title.bottom` 'auto' '20' 'top' 'middle' 'bottom'

`title.padding` numeric

`title.itemGap` space between title and subtitle

`title.backgroundColor`
hex or name

`title.borderColor`
hex or name

`title.borderWidth`
numeric

`title.borderRadius`
numeric

`title.shadowColor`
hex or name

`title.shadowBlur`
numeric

`title.shadowOffsetX`
numeric

`title.shadowOffsetY`
numeric

`title.textStyle.color`
hex or name

`title.textStyle.fontStyle`
'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
numeric

`title.textStyle.lineHeight`
numeric

`title.textStyle.width`
numeric

`title.textStyle.height`
numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.subtextStyle.fontSize`
: numeric

`title.subtextStyle.lineHeight`
: numeric

`title.subtextStyle.width`
: numeric

`title.subtextStyle.height`
: numeric

`title.subtextStyle.textBorderColor`
: hex or name

`title.subtextStyle.textBorderWidth`
: numeric

`title.subtextStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.subtextStyle.textBorderDashOffset`
: numeric

`title.subtextStyle.textShadowColor`
: numeric

`title.subtextStyle.textShadowBlur`
: numeric

`title.subtextStyle.textShadowOffsetX`
: numeric

`title.subtextStyle.textShadowOffsetY`
: numeric

`tooltip.show`
: logical

`tooltip.trigger`
: "cross" "axis" "item" "none"

`tooltip.backgroundColor`
: hex or name

`tooltip.borderColor`
: numeric

`tooltip.borderWidth`
: numeric

`tooltip.padding`
: numeric

`tooltip.axisPointer.type`
: "line" or "shadow"

`tooltip.axisPointer.lineStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.color`
: hex or name

`tooltip.axisPointer.shadowStyle.shadowBlur`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetX`
: numeric

`tooltip.axisPointer.shadowStyle.shadowOffsetY`
: numeric

`tooltip.axisPointer.shadowStyle.opacity`
: numeric between 0 and 1

`tooltip.textStyle.color`
: hex or name

`tooltip.textStyle.fontStyle`
: "normal" "italic" "oblique"

`tooltip.textStyle.fontWeight`
: "normal" "bold" "bolder" "lighter"

`tooltip.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`tooltip.textStyle.lineHeight`
: numeric

`tooltip.textStyle.width`
: numeric

`tooltip.textStyle.height`
: numeric

`tooltip.textStyle.textBorderColor`
: hex or name

`tooltip.textStyle.textBorderWidth`
: numeric

`tooltip.textStyle.textBorderType`
: "solid" "dashed" "dotted"

`tooltip.textStyle.textShadowColor`
: hex or name

`tooltip.textStyle.textShadowBlur`
: numeric

`tooltip.textStyle.textShadowOffsetX`
: numeric

`tooltip.textStyle.textShadowOffsetY`
: numeric

`toolbox.show`
: logical

`toolbox.orient`
: "horizontal" or "vertical"

`toolbox.itemSize`
: Default 15

`toolbox.itemGap`
: Default 8

`toolbox.top`
: numeric

`toolbox.left`
: numeric

`toolbox.right`
: numeric

`toolbox.bottom`
: numeric

`toolbox.width`
: numeric

`toolbox.heigth`
: numeric

`toolbox.feature.saveAsImage.show`
: logical

`toolbox.feature.restore.show`
: logical

`toolbox.feature.dataZoom.show`
: logical

`toolbox.feature.magicType.show`
: logical

`toolbox.feature.magicType.type`
: 'bar' 'line' 'stack'

`toolbox.feature.dataView.show`
: logical

`toolbox.iconStyle.color`
: hex

`toolbox.iconStyle.borderColor`
: hex

`toolbox.emphasis.iconStyle.borderColor`
: hex

`toolbox.iconStyle.shadowBlur`
: numeric

toolbox.iconStyle.shadowColor
: hex

toolbox.iconStyle.shadowOffsetX
: numeric

toolbox.iconStyle.shadowOffsetY
: numeric

Debug
: Logical; if TRUE, additional diagnostic information may be printed or returned for debugging purposes.

Details

The treemap hierarchy is driven by GroupVar: when multiple grouping variables are supplied, they are treated as ordered levels from the top of the hierarchy down to the leaves, and YVar is used as the size measure for the tiles.

Value

An echarts4r object representing a treemap chart.

Examples

```
## Not run:
library(data.table)
library(AutoPlots)

dt <- data.table(
  region = rep(c("North", "South"), each = 4),
  category = rep(c("A", "B"), times = 4),
  value = c(10, 20, 15, 5, 8, 12, 18, 7)
)

Treemap(
  dt       = dt,
  PreAgg   = FALSE,
  YVar     = "value",
  GroupVar = c("region", "category"),
  Theme    = "dark",
  title.text = "Example treemap"
)

## End(Not run)
```

VariableImportance *VariableImportance*

Description

Generate variable importance plots

Usage

```
VariableImportance(
  dt = NULL,
  XVar = NULL,
  YVar = NULL,
  GroupVar = NULL,
  YVarTrans = "Identity",
  XVarTrans = "Identity",
  FacetRows = 1,
  FacetCols = 1,
  FacetLevels = NULL,
  AggMethod = "mean",
  Height = NULL,
  Width = NULL,
  ShowLabels = FALSE,
  Theme = "dark",
  TimeLine = FALSE,
  title.text = "Variable Importance",
  yAxis.title = "",
  xAxis.title = "",
  Debug = FALSE
)
```

Arguments

dt	source data.table
XVar	Column name of X-Axis variable. If NULL then ignored
YVar	Column name of Y-Axis variable. If NULL then ignored
GroupVar	Column name of Group Variable for distinct colored histograms by group levels
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
FacetRows	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
FacetCols	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
FacetLevels	Faceting rows x columns is the max number of levels allowed in a grid. If your GroupVar has more you can supply the levels to display.
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
Height	"400px"
Width	"200px"
ShowLabels	character

Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
TimeLine	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), ImportancePareto(), Lift(), PartialDependence.Box(), PartialDependence.HeatMa PartialDependence.Line(), Plot.BinaryMetrics(), Plot.Calibration.Box(), Plot.Calibration.Line(), Plot.ConfusionMatrix(), Plot.Gains(), Plot.Lift(), Plot.PartialDependence.Box(), Plot.PartialDependence. Plot.PartialDependence.Line(), Plot.ROC(), Plot.Residuals.Histogram(), Plot.Residuals.Scatter(), Plot.ShapImportance(), Plot.VariableImportance(), Plot.prROC(), ROC(), Residuals.Histogram(), Residuals.Scatter(), ShapImportance()

WordCloud *WordCloud*

Description

WordCloud plots

Usage

```
WordCloud(
  dt = NULL,
  YVar = NULL,
  Height = NULL,
  Width = NULL,
  Theme = "dark",
  title.text = "Word Cloud",
  title.subtext = NULL,
  title.link = NULL,
  title.sublink = NULL,
```

```
  title.Align = "left",
  title.top = NULL,
  title.left = "left",
  title.right = NULL,
  title.bottom = NULL,
  title.padding = NULL,
  title.itemGap = NULL,
  title.backgroundColor = NULL,
  title.borderColor = NULL,
  title.borderWidth = NULL,
  title.borderRadius = NULL,
  title.shadowColor = NULL,
  title.shadowBlur = NULL,
  title.shadowOffsetX = NULL,
  title.shadowOffsetY = NULL,
  title.textStyle.color = NULL,
  title.textStyle.fontStyle = NULL,
  title.textStyle.fontWeight = NULL,
  title.textStyle.fontFamily = "Segoe UI",
  title.textStyle.fontSize = NULL,
  title.textStyle.lineHeight = NULL,
  title.textStyle.width = NULL,
  title.textStyle.height = NULL,
  title.textStyle.textBorderColor = NULL,
  title.textStyle.textBorderWidth = NULL,
  title.textStyle.textBorderType = NULL,
  title.textStyle.textBorderDashOffset = NULL,
  title.textStyle.textShadowColor = NULL,
  title.textStyle.textShadowBlur = NULL,
  title.textStyle.textShadowOffsetX = NULL,
  title.textStyle.textShadowOffsetY = NULL,
  title.subtextStyle.color = NULL,
  title.subtextStyle.align = NULL,
  title.subtextStyle.fontStyle = NULL,
  title.subtextStyle.fontWeight = NULL,
  title.subtextStyle.fontFamily = "Segoe UI",
  title.subtextStyle.fontSize = NULL,
  title.subtextStyle.lineHeight = NULL,
  title.subtextStyle.width = NULL,
  title.subtextStyle.height = NULL,
  title.subtextStyle.textBorderColor = NULL,
  title.subtextStyle.textBorderWidth = NULL,
  title.subtextStyle.textBorderType = NULL,
  title.subtextStyle.textBorderDashOffset = NULL,
  title.subtextStyle.textShadowColor = NULL,
  title.subtextStyle.textShadowBlur = NULL,
  title.subtextStyle.textShadowOffsetX = NULL,
  title.subtextStyle.textShadowOffsetY = NULL,
```

```
  Debug = FALSE
)
```

Arguments

dt	source data.table
YVar	Y-Axis variable name
Height	"400px"
Width	"200px"
Theme	"auritus", "azul", "bee-inspired", "blue", "caravan", "carp", "chalk", "cool", "dark", "dark-blue", "dark-bold", "dark-digerati", "dark-fresh-cut", "dark-mushroom", "eduardo", "essos", "forest", "fresh-cut", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "macarons", "macarons2", "mint", "purple-passion", "rainbow", "red", "red-velvet", "roma", "royal", "sakura", "shine", "tech-blue", "v5", "vintage", "walden", "wef", "weforum", "westeros", "wonderland"
title.text	Title name
title.subtext	Subtitle name
title.link	Title as a link
title.sublink	Subtitle as a link
title.Align	'auto' 'left' 'right' 'center'
title.top	'auto' '20' 'top' 'middle' 'bottom'
title.left	distance between title and left side of container
title.right	distance between title and right side of container
title.bottom	'auto' '20' 'top' 'middle' 'bottom'
title.padding	numeric
title.itemGap	space between title and subtitle
title.backgroundColor	hex or name
title.borderColor	hex or name
title.borderWidth	numeric
title.borderRadius	numeric
title.shadowColor	hex or name
title.shadowBlur	numeric
title.shadowOffsetX	numeric
title.shadowOffsetY	numeric

`title.textStyle.color`
: hex or name

`title.textStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.textStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.textStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

`title.textStyle.fontSize`
: numeric

`title.textStyle.lineHeight`
: numeric

`title.textStyle.width`
: numeric

`title.textStyle.height`
: numeric

`title.textStyle.textBorderColor`
: hex or name

`title.textStyle.textBorderWidth`
: numeric

`title.textStyle.textBorderType`
: 'solid' 'dashed' 'dotted'

`title.textStyle.textBorderDashOffset`
: numeric

`title.textStyle.textShadowColor`
: hex or name

`title.textStyle.textShadowBlur`
: numeric

`title.textStyle.textShadowOffsetX`
: numeric

`title.textStyle.textShadowOffsetY`
: numeric

`title.subtextStyle.color`
: hex or name

`title.subtextStyle.align`
: 'auto' 'left' 'right' 'center'

`title.subtextStyle.fontStyle`
: 'normal' 'italic' 'oblique'

`title.subtextStyle.fontWeight`
: 'normal' 'bold' 'bolder' 'lighter'

`title.subtextStyle.fontFamily`
: 'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'

title.subtextStyle.fontSize
: numeric

title.subtextStyle.lineHeight
: numeric

title.subtextStyle.width
: numeric

title.subtextStyle.height
: numeric

title.subtextStyle.textBorderColor
: hex or name

title.subtextStyle.textBorderWidth
: numeric

title.subtextStyle.textBorderType
: 'solid' 'dashed' 'dotted'

title.subtextStyle.textBorderDashOffset
: numeric

title.subtextStyle.textShadowColor
: numeric

title.subtextStyle.textShadowBlur
: numeric

title.subtextStyle.textShadowOffsetX
: numeric

title.subtextStyle.textShadowOffsetY
: numeric

Debug
: Debugging purposes

Value

plot

See Also

Other Standard Plots: ACF(), Area(), Bar(), BarPlot3D(), Box(), Copula(), Copula3D(), CorrMatrix(), Density(), Donut(), HeatMap(), Histogram(), Line(), PACF(), Parallel(), Pie(), Plot.ACF(), Plot.Area(), Plot.Bar(), Plot.BarPlot3D(), Plot.Box(), Plot.Copula(), Plot.Copula3D(), Plot.CorrMatrix(), Plot.Density(), Plot.Donut(), Plot.HeatMap(), Plot.Histogram(), Plot.Line(), Plot.PACF(), Plot.Parallel(), Plot.Pie(), Plot.ProbabilityPlot(), Plot.Radar(), Plot.River(), Plot.Rosetype(), Plot.Scatter(), Plot.Scatter3D(), Plot.StackedBar(), Plot.Step(), Plot.WordCloud(), ProbabilityPlot(), Radar(), River(), Rosetype(), Scatter(), Scatter3D(), StackedBar(), Step()

Examples

```
# Create fake data
dt <- FakeDataGenerator(AddComment = TRUE)

# Create plot
AutoPlots::WordCloud(
  dt = dt,
```

```
YVar = "Comment",
Height = NULL,
Width = NULL,
Theme = "dark",
Debug = FALSE)
```

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488, *491*, *500*, *503*, *507*, *515*, *519*,
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