Package 'AutoPlots'

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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

Contact Adrian Antico

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Contents

ACF . . . 4
Area . . . 24
Bar . . . 45
BarPlot3D . . . 66
BinaryMetricsPlot . . . 86
Box . . . 89
Calibration.Box . . . 110
Calibration.Line . . . 112
ConfusionMatrix . . . 113
Copula . . . 116
Copula3D . . . 136
CorrMatrix . . . 157
Density . . . 179
display_plots_grid . . . 199
Donut . . . 200
e_area_full . . . 215
e_bar_full . . . 216
e_boxplot_full . . . 217
e_density_full . . . 218
e_grid_full . . . 219
e_heatmap_full . . . 220
e_legend_full . . . 224
e_parallel_full . . . 232
e_title_full . . . 233
e_toolbox_full . . . 237
e_tooltip_full . . . 239
e_visual_map_full . . . 241
e_x_axis_full . . . 242
e_y_axis_full . . . 246
FakeDataGenerator . . . 249
Gains . . . 250
HeatMap . . . 252
Histogram . . . 277
Lift . . . 298
Line . . . 300
PACF . . . 321
Parallel . . . 341
PartialDependence.Box . . . 362
PartialDependence.HeatMap . . . 364
PartialDependence.Line . . . 366
Pie . . . 368
Plot.ACF . . . 383
Plot.Area . . . 385
Plot.Bar . . . 388
Plot.BarPlot3D . . . 392
Plot.BinaryMetrics . . . 395

Plot.Box . . . 398
Plot.Calibration.Box . . . 401
Plot.Calibration.Line . . . 403
Plot.ConfusionMatrix . . . 405
Plot.Copula . . . 407
Plot.Copula3D . . . 410
Plot.CorrMatrix . . . 414
Plot.Density . . . 417
Plot.Donut . . . 420
Plot.Gains . . . 423
Plot.HeatMap . . . 425
Plot.Histogram . . . 428
Plot.Lift . . . 432
Plot.Line . . . 434
Plot.PACF . . . 437
Plot.Parallel . . . 439
Plot.PartialDependence.Box . . . 442
Plot.PartialDependence.HeatMap . . . 444
Plot.PartialDependence.Line . . . 446
Plot.Pie . . . 448
Plot.ProbabilityPlot . . . 451
Plot.prROC . . . 453
Plot.Radar . . . 455
Plot.Residuals.Histogram . . . 458
Plot.Residuals.Scatter . . . 460
Plot.River . . . 462
Plot.ROC . . . 465
Plot.Rosetype . . . 467
Plot.Scatter . . . 470
Plot.Scatter3D . . . 474
Plot.ShapImportance . . . 477
Plot.StackedBar . . . 479
Plot.StandardPlots . . . 482
Plot.Step . . . 485
Plot.VariableImportance . . . 488
Plot.WordCloud . . . 490
Plots.ModelEvaluation . . . 492
ProbabilityPlot . . . 494
Radar . . . 499
Residuals.Histogram . . . 514
Residuals.Scatter . . . 516
River . . . 518
ROC . . . 533
Rosetype . . . 535
Scatter . . . 550
Scatter3D . . . 571
ShapImportance . . . 592
StackedBar . . . 593

Step 614
VariableImportance 635
WordCloud 637

Index **642**

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",
  ContainLabel = TRUE,
  title.text = "Autocorrelation Plot",
  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,
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  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,
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  title.textStyle.textBorderWidth = NULL,
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  title.subtextStyle.width = NULL,
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  xAxis.nameTextStyle.fontSize = NULL,
  xAxis.nameTextStyle.fontFamily = "Segoe UI",
  xAxis.splitNumber = NULL,
  xAxis.axisLabel.rotate = NULL,
  xAxis.axisLabel.margin = NULL,
  xAxis.axisLabel.color = NULL,
```

```
xAxis.axisLabel.fontStyle = NULL,
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xAxis.axisLabel.fontFamily = "Segoe UI",
xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
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yAxis.axisLabel.fontStyle = NULL,
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  yAxis.axisLabel.textShadowOffsetY = NULL,
  yAxis.axisLabel.overflow = NULL,
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  legend.itemGap = NULL,
  legend.itemWidth = NULL,
  legend.orient = "vertical",
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  legend.right = 10,
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  legend.borderWidth = NULL,
  legend.borderRadius = NULL,
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  legend.itemStyle.shadowBlur = NULL,
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  legend.itemStyle.shadowOffsetX = NULL,
  legend.itemStyle.shadowOffsetY = NULL,
```

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    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
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    legend.lineStyle.inactiveColor = NULL,
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    legend.textStyle.borderColor = NULL,
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    legend.pageTextStyle.textBorderWidth = NULL,
    legend.pageTextStyle.textBorderType = NULL,
    legend.pageTextStyle.textShadowColor = NULL,
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```

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legend.emphasis.selectorLabel.height = NULL,
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legend.emphasis.selectorLabel.textShadowColor = NULL,
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legend.emphasis.selectorLabel.textShadowOffsetX = NULL,
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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,
```

```
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  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 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-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
ContainLabel	TRUE
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.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.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()`

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,
  ContainLabel = TRUE,
  title.text = "Area Plot",
  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 = "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.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.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	Provide an "Echarts" theme
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  backgroundStyle.color = NULL,
  backgroundStyle.opacity = NULL,
  title.text = "Bar Plot",
  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 = "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.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.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-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
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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,
  ContainLabel = TRUE,
  title.text = "3D Bar Plot",
  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 = "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.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.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	"dark-blue"
MouseScroll	logical, zoom via mouse scroll
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: 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.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,
  ContainLabel = TRUE,
  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 = 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 = "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.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.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	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-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
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), 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.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()

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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), 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.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,
  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"
ShowLabels	character
Theme	"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
AggMethod	Choose from 'mean', 'sum', 'sd', and 'median'
GroupVar	= NULL
ContainLabel	logical
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), 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.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()

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,
  ContainLabel = TRUE,
  title.text = "Copula Plot",
  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,
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  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,
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    title.subtextStyle.align = NULL,
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    title.subtextStyle.fontWeight = NULL,
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    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.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.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",
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yAxis.nameTextStyle.color = NULL,
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yAxis.nameTextStyle.align = NULL,
yAxis.nameTextStyle.fontStyle = NULL,
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yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
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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,
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yAxis.axisLabel.borderType = NULL,
yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
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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,
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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,
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    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,
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    legend.textStyle.borderRadius = NULL,
    legend.textStyle.padding = NULL,
    legend.textStyle.shadowColor = NULL,
    legend.textStyle.shadowBlur = NULL,
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    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,
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    legend.textStyle.textShadowOffsetY = NULL,
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    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	= "dark-blue",
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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,
  ContainLabel = TRUE,
  title.text = "3D Copula Plot",
  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 = "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.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.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	= "dark-blue"
TimeLine	Logical
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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 = FALSE,
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 = 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 = "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.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.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-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
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.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.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",
  ContainLabel = TRUE,
  title.text = "Density Plot",
  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 = "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.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.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-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
ContainLabel	TRUE
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.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.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 with Columns*

Description

Display a Series of Plots in a Styled HTML Grid with Columns

Usage

```
display_plots_grid(
  plots,
  cols = NULL,
  container_class = "plot-card",
  grid_class = "plot-grid"
)
```

Arguments

plots	A list of echarts4r plots (or htmlwidgets).
cols	Number of columns (positive integer) or NULL for auto-fit.
container_class	CSS class for each plot container.
grid_class	CSS class for the grid layout container.

Value

A browsable HTML grid for use in Rmarkdown, Shiny, or viewer pane.

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 = 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 = "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_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_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_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_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_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.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.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.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.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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), 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()

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,
  ContainLabel = TRUE,
  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,
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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 = 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,
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title.textStyle.fontWeight = NULL,
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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.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.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,
```

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xAxis.axisLabel.borderColor = NULL,
xAxis.axisLabel.borderWidth = NULL,
xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
xAxis.axisLabel.padding = NULL,
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xAxis.axisLabel.textShadowOffsetX = NULL,
xAxis.axisLabel.textShadowOffsetY = NULL,
xAxis.axisLabel.overflow = NULL,
yAxis.title = NULL,
yAxis.min = NULL,
yAxis.max = NULL,
yAxis.position = "center",
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yAxis.axisTick.customValues = NULL,
yAxis.nameTextStyle.color = NULL,
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yAxis.nameTextStyle.fontStyle = NULL,
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yAxis.nameTextStyle.fontSize = NULL,
yAxis.nameTextStyle.fontFamily = "Segoe UI",
yAxis.splitNumber = NULL,
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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,
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yAxis.axisLabel.borderWidth = NULL,
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yAxis.axisLabel.borderRadius = NULL,
yAxis.axisLabel.padding = NULL,
yAxis.axisLabel.shadowColor = NULL,
yAxis.axisLabel.shadowBlur = NULL,
```

```
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    yAxis.axisLabel.shadowOffsetY = NULL,
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    yAxis.axisLabel.textBorderWidth = NULL,
    yAxis.axisLabel.textBorderType = 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.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,
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    legend.itemStyle.borderColor = NULL,
    legend.itemStyle.borderWidth = NULL,
    legend.itemStyle.borderType = NULL,
    legend.itemStyle.shadowBlur = NULL,
    legend.itemStyle.shadowColor = NULL,
    legend.itemStyle.shadowOffsetX = NULL,
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    legend.lineStyle.type = NULL,
    legend.lineStyle.shadowBlur = NULL,
    legend.lineStyle.shadowColor = NULL,
    legend.lineStyle.shadowOffsetX = NULL,
```

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    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,
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    legend.textStyle.textShadowOffsetY = NULL,
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    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,
```

```
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    legend.emphasis.selectorLabel.fontFamily = "Segoe UI",
    legend.emphasis.selectorLabel.fontSize = NULL,
    legend.emphasis.selectorLabel.align = NULL,
    legend.emphasis.selectorLabel.verticalAlign = NULL,
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    legend.emphasis.selectorLabel.backgroundColor = NULL,
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    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,
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    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` "dark-blue"

`MouseScroll` logical, zoom via mouse scroll

`ContainLabel` TRUE

`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.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.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,
  ContainLabel = TRUE,
  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 = 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 = "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.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.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,
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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,
    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	= Theme,
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.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.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)
```

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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), 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()

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,
  ContainLabel = TRUE,
  DarkMode = FALSE,
```

```
    lineStyle.color = NULL,
    title.text = "Line Plot",
    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 = "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.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.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	NULL
Width	NULL
ShowLabels	character
Theme	Provide an "Echarts" theme
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
Smooth	= TRUE
ShowSymbol	= FALSE

`ContainLabel` TRUE

`DarkMode` FALSE

`lineStyle.color`
hex or name

`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.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.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",
  ContainLabel = TRUE,
  title.text = "Partial Autocorrelation Plot",
  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 = "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.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.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-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
ContainLabel	TRUE
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.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.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 = 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 = "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,
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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,
  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.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.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,
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yAxis.axisLabel.borderType = NULL,
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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,
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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,
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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,
  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-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
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.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.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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), Lift(), 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()

`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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: BinaryMetricsPlot(), Calibration.Box(), Calibration.Line(), ConfusionMatrix(), Gains(), 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,
  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-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
Debug	Debugging purposes

Value

plot

Author(s)

Adrian Antico

See Also

Other Model Evaluation: `BinaryMetricsPlot()`, `Calibration.Box()`, `Calibration.Line()`, `ConfusionMatrix()`, `Gains()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMap()`, `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 = 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 = "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.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(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), 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()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMap()`, `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()`, `Lift()`, `PartialDependence.Box()`, `PartialDependence.HeatMap()`, `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.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(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), 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","essos","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","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.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(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), 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(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), 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.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(), Lift(), PartialDependence.Box(), PartialDependence.HeatMap(), 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(), 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.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(), 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.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(), 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(), 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(), 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.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(), 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.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(), 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.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()`, `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.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.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(), 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.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",
  ContainLabel = TRUE,
  title.text = "Probability Plot",
  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 = "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	"macaron"
ContainLabel	Default TRUE
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",
  ContainLabel = TRUE,
  Debug = FALSE)
```

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,
ContainLabel = TRUE,
DarkMode = FALSE,
lineStyle.color = NULL,
title.text = "Radar Plot",
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 = "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	Provide an "Echarts" theme
ShowSymbol	= FALSE
ContainLabel	TRUE
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,
  ContainLabel = TRUE,
  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,
  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"
ShowLabels	character
Theme	"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
ContainLabel	TRUE
Debug	Debugging purposes

Value

plot

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.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,
  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-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
Debug	Debugging purposes

Value

plot

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(), 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 = 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 = "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 = "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	Provide an "Echarts" theme
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,
  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-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
Debug	Debugging purposes

Value

plot

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(), 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 = 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 = "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)
```

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,
ContainLabel = TRUE,
title.text = "Scatter Plot",
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 = "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.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.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-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
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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,
ContainLabel = TRUE,
title.text = "3D Scatter Plot",
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 = "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.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.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	= "macaron"
TimeLine	Logical

ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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	"dark-blue"
Debug	= FALSE

Value

plot

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(), 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,
  ContainLabel = TRUE,
  title.text = "Stacked Bar Plot",
  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 = "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.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.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-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
ContainLabel	TRUE
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.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.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,
  ContainLabel = TRUE,
  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,
    ContainLabel = TRUE,
    lineStyle.color = NULL,
    title.text = "Step Plot",
    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,
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    title.borderColor = NULL,
    title.borderWidth = NULL,
    title.borderRadius = NULL,
    title.shadowColor = NULL,
    title.shadowBlur = NULL,
    title.shadowOffsetX = NULL,
    title.shadowOffsetY = NULL,
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    title.textStyle.fontStyle = NULL,
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    title.textStyle.height = NULL,
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    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,
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    title.subtextStyle.textBorderWidth = NULL,
    title.subtextStyle.textBorderType = NULL,
    title.subtextStyle.textBorderDashOffset = 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.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.splitNumber = NULL,
    yAxis.axisLabel.rotate = NULL,
    yAxis.axisLabel.margin = NULL,
    yAxis.axisLabel.color = NULL,
    yAxis.axisLabel.fontStyle = NULL,
    yAxis.axisLabel.fontWeight = NULL,
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    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",
```

```
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    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
Theme	Provide an "Echarts" theme
MouseScroll	logical, zoom via mouse scroll
TimeLine	Logical
ShowSymbol	= FALSE
ContainLabel	TRUE
lineStyle.color	hex or name
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.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.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")
```

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,
  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-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
Debug	Debugging purposes

Value

plot

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()

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 = 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 = "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-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"
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)
```

Index

∗ **Auto Plotting**
  Plot.StandardPlots, 482
  Plots.ModelEvaluation, 492
∗ **Data Wrangling**
  FakeDataGenerator, 249
∗ **Model Evaluation**
  BinaryMetricsPlot, 86
  Calibration.Box, 110
  Calibration.Line, 112
  ConfusionMatrix, 113
  Gains, 250
  Lift, 298
  PartialDependence.Box, 362
  PartialDependence.HeatMap, 364
  PartialDependence.Line, 366
  Plot.BinaryMetrics, 395
  Plot.Calibration.Box, 401
  Plot.Calibration.Line, 403
  Plot.ConfusionMatrix, 405
  Plot.Gains, 423
  Plot.Lift, 432
  Plot.PartialDependence.Box, 442
  Plot.PartialDependence.HeatMap, 444
  Plot.PartialDependence.Line, 446
  Plot.prROC, 453
  Plot.Residuals.Histogram, 458
  Plot.Residuals.Scatter, 460
  Plot.ROC, 465
  Plot.ShapImportance, 477
  Plot.VariableImportance, 488
  Residuals.Histogram, 514
  Residuals.Scatter, 516
  ROC, 533
  ShapImportance, 592
  VariableImportance, 635
∗ **Standard Plots**
  ACF, 4
  Area, 24
  Bar, 45
  BarPlot3D, 66
  Box, 89
  Copula, 116
  Copula3D, 136
  CorrMatrix, 157
  Density, 179
  Donut, 200
  HeatMap, 252
  Histogram, 277
  Line, 300
  PACF, 321
  Parallel, 341
  Pie, 368
  Plot.ACF, 383
  Plot.Area, 385
  Plot.Bar, 388
  Plot.BarPlot3D, 392
  Plot.Box, 398
  Plot.Copula, 407
  Plot.Copula3D, 410
  Plot.CorrMatrix, 414
  Plot.Density, 417
  Plot.Donut, 420
  Plot.HeatMap, 425
  Plot.Histogram, 428
  Plot.Line, 434
  Plot.PACF, 437
  Plot.Parallel, 439
  Plot.Pie, 448
  Plot.ProbabilityPlot, 451
  Plot.Radar, 455
  Plot.River, 462
  Plot.Rosetype, 467
  Plot.Scatter, 470
  Plot.Scatter3D, 474
  Plot.StackedBar, 479
  Plot.Step, 485
  Plot.WordCloud, 490

ProbabilityPlot, 494
Radar, 499
River, 518
Rosetype, 535
Scatter, 550
Scatter3D, 571
StackedBar, 593
Step, 614
WordCloud, 637

ACF, 4, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
Area, *23*, 24, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Bar, *23*, *44*, 45, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
BarPlot3D, *23*, *44*, *65*, 66, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
BinaryMetricsPlot, 86, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*
Box, *23*, *44*, *65*, *86*, 89, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Calibration.Box, *88*, 110, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*
Calibration.Line, *88*, *111*, 112, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*
ConfusionMatrix, *88*, *111*, *113*, 113, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*
Copula, *23*, *44*, *65*, *86*, *109*, 116, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
Copula3D, *23*, *44*, *65*, *86*, *109*, *136*, 136, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
CorrMatrix, *23*, *44*, *65*, *86*, *109*, *136*, *156*, 157, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Density, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, 179, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
display_plots_grid, 199

Donut, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, 200, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

e_area_full, 215
e_bar_full, 216
e_boxplot_full, 217
e_density_full, 218
e_grid_full, 219
e_heatmap_full, 220
e_legend_full, 224
e_parallel_full, 232
e_title_full, 233
e_toolbox_full, 237
e_tooltip_full, 239
e_visual_map_full, 241
e_x_axis_full, 242
e_y_axis_full, 246

FakeDataGenerator, 249

Gains, *88*, *111*, *113*, *115*, 250, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

HeatMap, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, 252, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
Histogram, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, 277, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Lift, *88*, *111*, *113*, *115*, *252*, 298, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Line, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, 300, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

PACF, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, 321, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
Parallel, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, 341, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
PartialDependence.Box, *88*, *111*, *113*, *115*, *252*, *300*, 362, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*
PartialDependence.HeatMap, *88*, *111*, *113*, *115*, *252*, *300*, *364*, 364, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*
PartialDependence.Line, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, 366, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*
Pie, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, 368, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*
Plot.ACF, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, 383, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*,

473, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Area, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, 385, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Bar, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, 388, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.BarPlot3D, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, 392, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.BinaryMetrics, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, 395, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.Box, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, 398, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Calibration.Box, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, 401, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.Calibration.Line, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, 403, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.ConfusionMatrix, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, 405, *425*, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.Copula, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, 407, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Copula3D, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, 410, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.CorrMatrix, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, 414, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Density, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, 417, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Donut, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, 420, *427*, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Gains, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, 423, *433*, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.HeatMap, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, 425, *431*, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Histogram, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, 428, *436*, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Lift, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, 432, *444*, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.Line, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, 434, *439*, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.PACF, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *214*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, 437, *441*, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Parallel, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *215*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, 439, *450*, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.PartialDependence.Box, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, 442, *446*, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.PartialDependence.HeatMap, *88*, *111*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, 444, *448*, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.PartialDependence.Line, *88*, *112*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, 446, *455*, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.Pie, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *215*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, 448, *453*, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.ProbabilityPlot, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *215*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, 451, *457*, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.prROC, *88*, *112*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, 453, *460*, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.Radar, *23*, *44*, *65*, *86*, *109*, *136*, *156*, *178*, *199*, *215*, *277*, *297*, *320*, *340*, *361*, *382*, *385*, *388*, *391*, *394*, *400*, *409*, *413*, *416*, *419*, *422*, *427*, *431*, *436*, *439*, *441*, *450*, *453*, 455, *465*, *469*, *473*, *476*, *481*, *487*, *491*, *499*, *514*, *533*, *550*, *570*, *591*, *613*, *634*, *641*

Plot.Residuals.Histogram, *88*, *112*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, 458, *462*, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.Residuals.Scatter, *88*, *112*, *113*, *115*, *252*, *300*, *364*, *366*, *368*, *397*, *403*, *405*, *407*, *425*, *433*, *444*, *446*, *448*, *455*, *460*, 460, *467*, *479*, *490*, *516*, *518*, *535*, *593*, *636*

Plot.River, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 462, 469, 473, 476, 481, 487, 491, 499, 514, 533, 550, 570, 591, 613, 634, 641
Plot.ROC, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 465, 479, 490, 516, 518, 535, 593, 636
Plot.Rosetype, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 467, 473, 476, 481, 487, 491, 499, 514, 533, 550, 570, 591, 613, 634, 641
Plot.Scatter, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 470, 476, 481, 487, 491, 499, 514, 533, 550, 570, 591, 613, 634, 641
Plot.Scatter3D, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 474, 481, 487, 491, 499, 514, 533, 550, 570, 591, 613, 634, 641
Plot.ShapImportance, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 467, 477, 490, 516, 518, 535, 593, 636
Plot.StackedBar, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 479, 487, 491, 499, 514, 533, 550, 570, 591, 613, 634, 641
Plot.StandardPlots, 482, 494
Plot.Step, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 485, 491, 499, 514, 533, 550, 570, 591, 613, 634, 641
Plot.VariableImportance, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 467, 479, 488, 516, 518, 535, 593, 636
Plot.WordCloud, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 490, 499, 514, 533, 550, 570, 591, 613, 634, 641
Plots.ModelEvaluation, 484, 492
ProbabilityPlot, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 494, 514, 533, 550, 570, 591, 613, 634, 641

Radar, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 499, 533, 550, 570, 591, 613, 634, 641
Residuals.Histogram, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 467, 479, 490, 514, 518, 535, 593, 636
Residuals.Scatter, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 467, 479, 490, 516, 516,

535, 593, 636
River, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 514, 518, 550, 570, 591, 613, 634, 641
ROC, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 467, 479, 490, 516, 518, 533, 593, 636
Rosetype, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 514, 533, 535, 570, 591, 613, 634, 641

Scatter, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 514, 533, 550, 550, 591, 613, 634, 641
Scatter3D, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 514, 533, 550, 570, 571, 613, 634, 641
ShapImportance, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 467, 479, 490, 516, 518, 535, 592, 636
StackedBar, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 514, 533, 550, 570, 591, 593, 634, 641
Step, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 514, 533, 550, 570, 591, 613, 614, 641

VariableImportance, 88, 112, 113, 115, 252, 300, 364, 366, 368, 397, 403, 405, 407, 425, 433, 444, 446, 448, 455, 460, 462, 467, 479, 490, 516, 518, 535, 593, 635

WordCloud, 23, 44, 65, 86, 109, 136, 156, 178, 199, 215, 277, 297, 320, 340, 361, 382, 385, 388, 391, 394, 400, 409, 413, 416, 419, 422, 427, 431, 436, 439, 441, 450, 453, 457, 465, 469, 473, 476, 481, 487, 491, 499, 514, 533, 550, 570, 591, 613, 634, 637