

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
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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,  
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  title.left = NULL,  
  title.right = NULL,  
  title.bottom = 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,  
  title.textStyle.color = NULL,  
  title.textStyle.fontStyle = NULL,
```

```
title.textStyle.fontWeight = NULL,
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xAxis.nameLocation = "center",
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xAxis.nameTextStyle.align = NULL,
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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.fontSize = 14,  
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```

```
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tooltip.axisPointer.shadowStyle.shadowBlur = NULL,  
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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,
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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.height = 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.textBorderStyle
    '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.textBorderStyle
    '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.height  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,
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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,
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title.subtextStyle.fontWeight = NULL,
title.subtextStyle.fontFamily = "Segoe UI",
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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,
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xAxis.axisLabel.borderType = NULL,
xAxis.axisLabel.borderRadius = NULL,
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xAxis.axisLabel.shadowColor = NULL,
xAxis.axisLabel.shadowBlur = NULL,
xAxis.axisLabel.shadowOffsetX = NULL,
xAxis.axisLabel.shadowOffsetY = NULL,
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xAxis.axisLabel.textBorderType = NULL,
xAxis.axisLabel.textShadowColor = 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",
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,  
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yAxis.axisLabel.verticalAlign = NULL,  
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yAxis.axisLabel.borderType = NULL,  
yAxis.axisLabel.borderRadius = NULL,  
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yAxis.axisLabel.shadowBlur = NULL,  
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yAxis.axisLabel.textBorderWidth = NULL,  
yAxis.axisLabel.textBorderType = NULL,  
yAxis.axisLabel.textShadowColor = NULL,  
yAxis.axisLabel.textShadowBlur = NULL,  
yAxis.axisLabel.textShadowOffsetX = NULL,  
yAxis.axisLabel.textShadowOffsetY = NULL,  
yAxis.axisLabel.overflow = NULL,  
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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,  
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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,  
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legend.textStyle.textBorderWidth = NULL,  
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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,  
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legend.emphasis.selectorLabel.borderColor = NULL,  
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legend.emphasis.selectorLabel.borderRadius = NULL,  
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legend.emphasis.selectorLabel.shadowOffsetX = NULL,  
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legend.emphasis.selectorLabel.textShadowBlur = NULL,  
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,
tooltip.textStyle.fontFamily = "Segoe UI",
tooltip.textStyle.lineHeight = NULL,
tooltip.textStyle.width = NULL,
tooltip.textStyle.height = NULL,
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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.height = 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.textBorderStyle
                  '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.textBorderStyle
    '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.textBorderStyle
    '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.height  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.textBorderStyle = 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.height = 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.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    '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.height  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.textBorderStyle = 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.textBorderStyle = 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.textBorderStyle = 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.height = 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.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    "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.height  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)
```

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","T
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.height = 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

<code>dt</code>	source data.table
<code>SampleSize</code>	numeric
<code>XVar</code>	X-Axis variable name
<code>YVar</code>	Y-Axis variable name
<code>GroupVar</code>	Character variable
<code>YVarTrans</code>	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
<code>XVarTrans</code>	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
<code>FacetRows</code>	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
<code>FacetCols</code>	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
<code>FacetLevels</code>	Faceting rows x columns is the max number of levels allowed in a grid. If your <code>GroupVar</code> has more you can supply the levels to display.
<code>Height</code>	"400px"
<code>Width</code>	"200px"
<code>ShowLabels</code>	character
<code>Theme</code>	"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"
<code>MouseScroll</code>	logical, zoom via mouse scroll
<code>TimeLine</code>	Logical
<code>ContainLabel</code>	TRUE
<code>itemStyle.color</code>	Fill color. Can be a single color or vector of multiple colors for gradient.
<code>itemStyle.opacity</code>	transparency
<code>itemStyle.borderColor</code>	hex or color name
<code>itemStyle.borderWidth</code>	numeric
<code>itemStyle.borderType</code>	'solid' 'dashed' 'dotted'
<code>itemStyle.borderCap</code>	'butt' 'round' 'square'
<code>itemStyle.shadowBlur</code>	numeric
<code>itemStyle.shadowColor</code>	hex or name

<code>itemStyle.shadowOffsetX</code>	numeric
<code>itemStyle.shadowOffsetY</code>	numeric
<code>title.text</code>	Title name
<code>title.subtext</code>	Subtitle name
<code>title.link</code>	Title as a link
<code>title.sublink</code>	Subtitle as a link
<code>title.Align</code>	'auto' 'left' 'right' 'center'
<code>title.top</code>	'auto' '20' 'top' 'middle' 'bottom'
<code>title.left</code>	distance between title and left side of container
<code>title.right</code>	distance between title and right side of container
<code>title.bottom</code>	'auto' '20' 'top' 'middle' 'bottom'
<code>title.padding</code>	numeric
<code>title.itemGap</code>	space between title and subtitle
<code>title.backgroundColor</code>	hex or name
<code>title.borderColor</code>	hex or name
<code>title.borderWidth</code>	numeric
<code>title.borderRadius</code>	numeric
<code>title.shadowColor</code>	hex or name
<code>title.shadowBlur</code>	numeric
<code>title.shadowOffsetX</code>	numeric
<code>title.shadowOffsetY</code>	numeric
<code>title.textStyle.color</code>	hex or name
<code>title.textStyle.fontStyle</code>	'normal' 'italic' 'oblique'
<code>title.textStyle.fontWeight</code>	'normal' 'bold' 'bolder' 'lighter'
<code>title.textStyle.fontFamily</code>	'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
<code>title.textStyle.fontSize</code>	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.textBorderStyle
    "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.height  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	<i>Calibration.Line</i>
------------------	-------------------------

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,
  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,
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title.textStyle.textBorderDashOffset = NULL,
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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,
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title.subtextStyle.textBorderDashOffset = NULL,
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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,
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xAxis.axisLabel.textBorderType = NULL,
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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,
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yAxis.nameTextStyle.padding = 25,
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.fontStyle = NULL,
yAxis.axisLabel.fontWeight = NULL,
yAxis.axisLabel.fontFamily = "Segoe UI",
yAxis.axisLabel.fontSize = 14,
```

```
yAxis.axisLabel.align = NULL,  
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yAxis.axisLabel.borderWidth = NULL,  
yAxis.axisLabel.borderType = NULL,  
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yAxis.axisLabel.padding = NULL,  
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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.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,  
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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,  
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legend.lineStyle.type = NULL,  
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legend.lineStyle.shadowColor = NULL,  
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legend.lineStyle.shadowOffsetY = NULL,  
legend.lineStyle.opacity = NULL,  
legend.lineStyle.inactiveColor = NULL,  
legend.lineStyle.inactiveWidth = NULL,  
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legend.textStyle.fontStyle = NULL,  
legend.textStyle.fontWeight = NULL,  
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legend.textStyle.fontSize = NULL,  
legend.textStyle.backgroundColor = NULL,  
legend.textStyle.borderColor = NULL,  
legend.textStyle.borderWidth = 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,  
legend.emphasis.selectorLabel.fontWeight = NULL,  
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legend.emphasis.selectorLabel.fontSize = NULL,  
legend.emphasis.selectorLabel.align = NULL,  
legend.emphasis.selectorLabel.verticalAlign = NULL,  
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legend.emphasis.selectorLabel.shadowBlur = NULL,  
legend.emphasis.selectorLabel.shadowOffsetX = NULL,  
legend.emphasis.selectorLabel.shadowOffsetY = NULL,  
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legend.emphasis.selectorLabel.height = NULL,  
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legend.emphasis.selectorLabel.textBorderWidth = NULL,  
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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.height = 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.textBorderStyle
    '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.textBorderStyle
    "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.height	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,
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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,
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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,
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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.textBorderStyle = 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,  
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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.height = 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.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    "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.height 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",
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title.subtextStyle.lineHeight = NULL,
title.subtextStyle.width = NULL,
title.subtextStyle.height = NULL,
title.subtextStyle.textBorderColor = NULL,
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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.height = 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

<code>dt</code>	source data.table
<code>CorrVars</code>	vector of variable names
<code>CorrVarTrans</code>	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standardize", "BoxCox", "YeoJohnson"
<code>FacetRows</code>	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
<code>FacetCols</code>	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
<code>FacetLevels</code>	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.
<code>Method</code>	character
<code>PreAgg</code>	logical
<code>MaxNAPercent</code>	numeric
<code>Height</code>	"400px"
<code>Width</code>	"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.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    '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.height  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,
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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,  
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,  
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legend.textStyle.shadowColor = NULL,  
legend.textStyle.shadowBlur = NULL,  
legend.textStyle.shadowOffsetX = NULL,  
legend.textStyle.shadowOffsetY = NULL,  
legend.textStyle.width = NULL,  
legend.textStyle.height = NULL,  
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legend.textStyle.textBorderWidth = NULL,  
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legend.textStyle.textShadowColor = NULL,  
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legend.textStyle.textShadowOffsetY = NULL,  
legend.pageTextStyle.color = NULL,  
legend.pageTextStyle.fontStyle = NULL,  
legend.pageTextStyle.fontWeight = NULL,  
legend.pageTextStyle.fontFamily = "Segoe UI",  
legend.pageTextStyle.fontSize = NULL,  
legend.pageTextStyle.lineHeight = NULL,  
legend.pageTextStyle.width = NULL,  
legend.pageTextStyle.height = NULL,  
legend.pageTextStyle.textBorderColor = NULL,  
legend.pageTextStyle.textBorderWidth = NULL,  
legend.pageTextStyle.textBorderType = NULL,
```

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

```

    tooltip.textStyle.fontStyle = NULL,
    tooltip.textStyle.fontWeight = NULL,
    tooltip.textStyle.fontFamily = "Segoe UI",
    tooltip.textStyle.lineHeight = NULL,
    tooltip.textStyle.width = NULL,
    tooltip.textStyle.height = NULL,
    tooltip.textStyle.textBorderColor = NULL,
    tooltip.textStyle.textBorderWidth = NULL,
    tooltip.textStyle.textBorderType = NULL,
    tooltip.textStyle.textShadowColor = NULL,
    tooltip.textStyle.textShadowBlur = NULL,
    tooltip.textStyle.textShadowOffsetX = NULL,
    tooltip.textStyle.textShadowOffsetY = NULL,
    toolbox.show = TRUE,
    toolbox.orient = "horizontal",
    toolbox.itemSize = 15,
    toolbox.itemGap = 8,
    toolbox.top = NULL,
    toolbox.left = NULL,
    toolbox.right = NULL,
    toolbox.bottom = NULL,
    toolbox.width = NULL,
    toolbox.height = 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
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    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.textBorderStyle
    '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.textBorderStyle
    "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.height  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	<i>Display a Series of Plots in a Styled HTML Grid with Columns</i>
--------------------	---

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	<i>Donut</i>
-------	--------------

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.textBorderStyle = 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.textBorderStyle = 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.height = 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", "esscut", "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
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.height   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	<i>Enhanced area Setter for echarts4r</i>
------------	---

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	<i>Enhanced area Setter for echarts4r</i>
----------------	---

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	<i>grid function</i>
-------------	----------------------

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	<i>Heatmap customization</i>
----------------	------------------------------

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	<i>Enhanced Legend Setter for echarts4r</i>
---------------	---

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	<i>Parallel customization</i>
-----------------	-------------------------------

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

<i>e_title_full</i>	<i>Enhanced Title Setter for echarts4r</i>
---------------------	--

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

<i>e_toolbox_full</i>	<i>toolbox function</i>
-----------------------	-------------------------

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.height = 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.height   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

<i>e_tooltip_full</i>	<i>Enhanced Tooltip Setter for echarts4r</i>
-----------------------	--

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	<i>Enhanced visual map</i>
-------------------	----------------------------

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	<i>Enhanced X-Axis Setter for echarts4r</i>
---------------	---

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	<i>FakeDataGenerator</i>
-------------------	--------------------------

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, stratified 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	<i>Gains</i>
-------	--------------

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)

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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	<i>HeatMap</i>
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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,  
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emphasis.shadowBlur = NULL,  
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itemStyle.emphasis.label.borderType = NULL,  
itemStyle.emphasis.label.borderRadius = NULL,  
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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.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,  
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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,
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title.subtextStyle.textShadowOffsetX = NULL,
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xAxis.min = NULL,
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xAxis.position = "bottom",
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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,
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xAxis.axisLabel.fontSize = 14,
xAxis.axisLabel.align = NULL,
xAxis.axisLabel.verticalAlign = NULL,
xAxis.axisLabel.backgroundColor = NULL,
```

```
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xAxis.axisLabel.overflow = NULL,  
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yAxis.nameTextStyle.fontFamily = "Segoe UI",  
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yAxis.axisLabel.shadowBlur = 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.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,  
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legend.borderWidth = NULL,  
legend.borderRadius = NULL,  
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legend.shadowColor = NULL,  
legend.shadowOffsetX = NULL,  
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legend.lineStyle.width = NULL,  
legend.lineStyle.type = NULL,  
legend.lineStyle.shadowBlur = NULL,  
legend.lineStyle.shadowColor = NULL,  
legend.lineStyle.shadowOffsetX = NULL,
```

```
legend.lineStyle.shadowOffsetY = NULL,
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legend.pageTextStyle.textShadowColor = NULL,
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legend.emphasis.selectorLabel.show = NULL,
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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,
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legend.emphasis.selectorLabel.borderColor = NULL,
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legend.emphasis.selectorLabel.borderType = NULL,
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legend.emphasis.selectorLabel.padding = NULL,
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legend.emphasis.selectorLabel.shadowOffsetY = NULL,
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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.height = 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.textBorderStyle
    '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.textBorderStyle
    '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.height	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,
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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,  
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yAxis.axisLabel.textBorderWidth = NULL,  
yAxis.axisLabel.textBorderStyle = NULL,  
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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,  
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legend.itemStyle.borderWidth = NULL,  
legend.itemStyle.borderType = NULL,  
legend.itemStyle.shadowBlur = NULL,  
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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,  
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legend.textStyle.padding = NULL,  
legend.textStyle.shadowColor = NULL,  
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legend.textStyle.shadowOffsetX = NULL,  
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legend.textStyle.textBorderWidth = NULL,  
legend.textStyle.textBorderType = NULL,  
legend.textStyle.textShadowColor = NULL,  
legend.textStyle.textShadowBlur = NULL,  
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legend.textStyle.textShadowOffsetY = NULL,  
legend.pageTextStyle.color = NULL,  
legend.pageTextStyle.fontStyle = NULL,  
legend.pageTextStyle.fontWeight = NULL,  
legend.pageTextStyle.fontFamily = "Segoe UI",  
legend.pageTextStyle.fontSize = NULL,  
legend.pageTextStyle.lineHeight = NULL,  
legend.pageTextStyle.width = NULL,  
legend.pageTextStyle.height = NULL,  
legend.pageTextStyle.textBorderColor = NULL,  
legend.pageTextStyle.textBorderWidth = NULL,  
legend.pageTextStyle.textBorderType = NULL,  
legend.pageTextStyle.textShadowColor = NULL,  
legend.pageTextStyle.textShadowBlur = NULL,  
legend.pageTextStyle.textShadowOffsetX = NULL,  
legend.pageTextStyle.textShadowOffsetY = NULL,  
legend.emphasis.selectorLabel.show = NULL,  
legend.emphasis.selectorLabel.distance = NULL,  
legend.emphasis.selectorLabel.rotate = NULL,  
legend.emphasis.selectorLabel.color = NULL,  
legend.emphasis.selectorLabel.fontStyle = NULL,  
legend.emphasis.selectorLabel.fontWeight = NULL,
```

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

```

tooltip.textStyle.textShadowBlur = NULL,
tooltip.textStyle.textShadowOffsetX = NULL,
tooltip.textStyle.textShadowOffsetY = NULL,
toolbox.show = TRUE,
toolbox.orient = "horizontal",
toolbox.itemSize = 15,
toolbox.itemGap = 8,
toolbox.top = NULL,
toolbox.left = NULL,
toolbox.right = NULL,
toolbox.bottom = NULL,
toolbox.width = NULL,
toolbox.height = 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.textBorderStyle
    '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.textBorderStyle
    "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.height  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	<i>Line</i>
------	-------------

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,  
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title.textStyle.textBorderWidth = NULL,  
title.textStyle.textBorderStyle = 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.textBorderStyle = 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,  
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yAxis.axisLabel.verticalAlign = NULL,  
yAxis.axisLabel.backgroundColor = NULL,  
yAxis.axisLabel.borderColor = NULL,  
yAxis.axisLabel.borderWidth = NULL,  
yAxis.axisLabel.borderType = NULL,  
yAxis.axisLabel.borderRadius = NULL,  
yAxis.axisLabel.padding = NULL,  
yAxis.axisLabel.shadowColor = NULL,  
yAxis.axisLabel.shadowBlur = NULL,  
yAxis.axisLabel.shadowOffsetX = NULL,  
yAxis.axisLabel.shadowOffsetY = NULL,  
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yAxis.axisLabel.textBorderWidth = NULL,  
yAxis.axisLabel.textBorderType = NULL,  
yAxis.axisLabel.textShadowColor = NULL,  
yAxis.axisLabel.textShadowBlur = NULL,  
yAxis.axisLabel.textShadowOffsetX = NULL,  
yAxis.axisLabel.textShadowOffsetY = NULL,  
yAxis.axisLabel.overflow = NULL,  
legend.show = TRUE,  
legend.type = "scroll",  
legend.selector = NULL,  
legend.icon = NULL,  
legend.align = NULL,  
legend.padding = NULL,  
legend.itemGap = NULL,  
legend.itemWidth = NULL,  
legend.orient = "vertical",
```

```
legend.width = NULL,  
legend.height = NULL,  
legend.left = NULL,  
legend.right = 10,  
legend.top = 30,  
legend.bottom = NULL,  
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legend.borderWidth = NULL,  
legend.borderRadius = NULL,  
legend.shadowBlur = NULL,  
legend.shadowColor = NULL,  
legend.shadowOffsetX = NULL,  
legend.shadowOffsetY = NULL,  
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legend.itemStyle.borderWidth = NULL,  
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legend.itemStyle.shadowBlur = NULL,  
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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,  
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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.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.height = 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.textBorderStyle
    '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.textBorderStyle
    '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
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legend.lineStyle.inactiveWidth
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    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
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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.textBorderStyle
    '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.textBorderStyle
    "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.height  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,
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title.subtextStyle.fontWeight = NULL,
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title.subtextStyle.lineHeight = NULL,
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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,  
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legend.textStyle.shadowColor = NULL,  
legend.textStyle.shadowBlur = NULL,  
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legend.textStyle.shadowOffsetY = NULL,  
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legend.textStyle.textBorderType = NULL,  
legend.textStyle.textShadowColor = NULL,  
legend.textStyle.textShadowBlur = NULL,  
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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.textBorderStyle = 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.height = 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.textBorderStyle
    "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.height 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,  
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title.shadowOffsetX = NULL,  
title.shadowOffsetY = NULL,  
title.textStyle.color = NULL,  
title.textStyle.fontStyle = NULL,  
title.textStyle.fontWeight = NULL,  
title.textStyle.fontFamily = "Segoe UI",  
title.textStyle.fontSize = NULL,  
title.textStyle.lineHeight = NULL,  
title.textStyle.width = NULL,  
title.textStyle.height = NULL,  
title.textStyle.textBorderColor = NULL,  
title.textStyle.textBorderWidth = NULL,  
title.textStyle.textBorderType = NULL,  
title.textStyle.textBorderDashOffset = NULL,  
title.textStyle.textShadowColor = NULL,  
title.textStyle.textShadowBlur = NULL,  
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,  
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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,
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,
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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",
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yAxis.axisLabel.verticalAlign = NULL,
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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,  
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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,  
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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,  
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legend.emphasis.selectorLabel.borderColor = NULL,  
legend.emphasis.selectorLabel.borderWidth = NULL,  
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legend.emphasis.selectorLabel.borderRadius = NULL,  
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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.height = 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

<code>dt</code>	source data.table
<code>SampleSize</code>	Sample size
<code>CorrVars</code>	vector of variable names
<code>FacetRows</code>	Defaults to 1 which causes no faceting to occur vertically. Otherwise, supply a numeric value for the number of output grid rows
<code>FacetCols</code>	Defaults to 1 which causes no faceting to occur horizontally. Otherwise, supply a numeric value for the number of output grid columns
<code>FacetLevels</code>	Faceting rows x columns is the max number of levels allowed in a grid. If your <code>GroupVar</code> has more you can supply the levels to display.
<code>Height</code>	"400px"
<code>Width</code>	"200px"
<code>ShowLabels</code>	character
<code>Theme</code>	"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"
<code>MouseScroll</code>	logical, zoom via mouse scroll
<code>rm_x</code>	logical. Remove x-axis
<code>rm_y</code>	logical. Remove y-axis
<code>lineStyle.color</code>	hex or color
<code>lineStyle.width</code>	number
<code>lineStyle.type</code>	'solid' 'dashed' 'dotted'
<code>lineStyle.shadowBlur</code>	number
<code>lineStyle.shadowColor</code>	hex or color
<code>lineStyle.shadowOffsetX</code>	number
<code>lineStyle.shadowOffsetY</code>	number
<code>lineStyle.opacity</code>	decimal
<code>lineStyle.emphasis.color</code>	hex or color
<code>lineStyle.emphasis.width</code>	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.textBorderStyle
    "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.height 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	<i>Pie</i>
-----	------------

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.height = 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", "esscut", "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
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.textBorderStyle
                '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.textBorderStyle
    "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.height 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	<i>Plot.Area</i>
-----------	------------------

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	<i>Plot.BinaryMetrics</i>
--------------------	---------------------------

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","T
GroupVar	Character variable
YVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standard- ize", "BoxCox", "YeoJohnson"
XVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standard- ize", "BoxCox", "YeoJohnson"
ZVarTrans	"Asinh", "Log", "LogPlus1", "Sqrt", "Asin", "Logit", "PercRank", "Standard- ize", "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	<i>Plot.Box</i>
----------	-----------------

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	<i>Plot.Copula</i>
-------------	--------------------

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", "essence", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "dark", "maroon", "passion", "red-velvet", "red", "roma", "royal", "sakura", "shine", "tech-blue", "vintage", "walden", "wef", "weford"
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	<i>Plot.HeatMap</i>
--------------	---------------------

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	<i>Plot.Lift</i>
-----------	------------------

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.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.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.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.Pie	<i>Plot.Pie</i>
----------	-----------------

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", "essence", "fruit", "gray", "green", "halloween", "helianthus", "infographic", "inspired", "jazz", "london", "dark", "maple", "passion", "red-velvet", "red", "roma", "royal", "sakura", "shine", "tech-blue", "vintage", "walden", "wef", "weford"
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.HeatMap\(\)](#), [Plot.PartialDependence.Line\(\)](#), [Plot.ROC\(\)](#), [Plot.Residuals.Histogram\(\)](#), [Plot.Residuals.Scatter\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.VariableImportance\(\)](#), [ROC\(\)](#), [Residuals.Histogram\(\)](#), [Residuals.Scatter\(\)](#), [ShapImportance\(\)](#), [VariableImportance\(\)](#)

Plot.Radar	<i>Plot.Radar</i>
------------	-------------------

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.HeatMap\(\)](#), [Plot.PartialDependence.Line\(\)](#), [Plot.ROC\(\)](#), [Plot.Residuals.Scatter\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.VariableImportance\(\)](#), [Plot.prROC\(\)](#), [ROC\(\)](#), [Residuals.Histogram\(\)](#), [Residuals.Scatter\(\)](#), [ShapImportance\(\)](#), [VariableImportance\(\)](#)

Plot.Residuals.Scatter
<i>Plot.Residuals.Scatter</i>

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.Line\(\)](#), [Plot.ROC\(\)](#), [Plot.Residuals.Histogram\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.VariableImportance\(\)](#), [Plot.prROC\(\)](#), [ROC\(\)](#), [Residuals.Histogram\(\)](#), [Residuals.Scatter\(\)](#), [ShapImportance\(\)](#), [VariableImportance\(\)](#)

Plot.River	<i>Plot.River</i>
------------	-------------------

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	<i>Plot.ROC</i>
----------	-----------------

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.Line\(\)](#), [Plot.Residuals.Histogram\(\)](#), [Plot.Residuals.Scatter\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.VariableImportance\(\)](#), [Plot.prROC\(\)](#), [ROC\(\)](#), [Residuals.Histogram\(\)](#), [Residuals.Scatter\(\)](#), [ShapImportance\(\)](#), [VariableImportance\(\)](#)

Plot.Rosetype	<i>Plot.Rosetype</i>
---------------	----------------------

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	<i>Plot.ShapImportance</i>
---------------------	----------------------------

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.HeatMap\(\)](#), [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	<i>Plot.StandardPlots</i>
--------------------	---------------------------

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 AlsoOther 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

<code>dt</code>	source data.table
<code>XVar</code>	Column name of X-Axis variable. If NULL then ignored
<code>YVar</code>	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.HeatMap\(\)](#), [Plot.PartialDependence.Line\(\)](#), [Plot.ROC\(\)](#), [Plot.Residuals.Histogram\(\)](#), [Plot.Residuals.Scatter\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.prROC\(\)](#), [ROC\(\)](#), [Residuals.Histogram\(\)](#), [Residuals.Scatter\(\)](#), [ShapImportance\(\)](#), [VariableImportance\(\)](#)

Plot.WordCloud	<i>Plot.WordCloud</i>
----------------	-----------------------

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	<i>ProbabilityPlot</i>
-----------------	------------------------

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.textBorderStyle = 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.textBorderStyle
    '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	<i>Radar</i>
-------	--------------

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.height = 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

<code>lineStyle.color</code>	hex or name for radar lines
<code>title.text</code>	Title name
<code>title.subtext</code>	Subtitle name
<code>title.link</code>	Title as a link
<code>title.sublink</code>	Subtitle as a link
<code>title.Align</code>	'auto' 'left' 'right' 'center'
<code>title.top</code>	'auto' '20' 'top' 'middle' 'bottom'
<code>title.left</code>	distance between title and left side of container
<code>title.right</code>	distance between title and right side of container
<code>title.bottom</code>	'auto' '20' 'top' 'middle' 'bottom'
<code>title.padding</code>	numeric
<code>title.itemGap</code>	space between title and subtitle
<code>title.backgroundColor</code>	hex or name
<code>title.borderColor</code>	hex or name
<code>title.borderWidth</code>	numeric
<code>title.borderRadius</code>	numeric
<code>title.shadowColor</code>	hex or name
<code>title.shadowBlur</code>	numeric
<code>title.shadowOffsetX</code>	numeric
<code>title.shadowOffsetY</code>	numeric
<code>title.textStyle.color</code>	hex or name
<code>title.textStyle.fontStyle</code>	'normal' 'italic' 'oblique'
<code>title.textStyle.fontWeight</code>	'normal' 'bold' 'bolder' 'lighter'
<code>title.textStyle.fontFamily</code>	'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
<code>title.textStyle.fontSize</code>	numeric
<code>title.textStyle.lineHeight</code>	numeric

```
title.textStyle.width
    numeric
title.textStyle.height
    numeric
title.textStyle.textBorderColor
    hex or name
title.textStyle.textBorderWidth
    numeric
title.textStyle.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    "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.height	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.HeatMap\(\)](#), [Plot.PartialDependence.Line\(\)](#), [Plot.ROC\(\)](#), [Plot.Residuals.Histogram\(\)](#), [Plot.Residuals.Scatter\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.VariableImportance\(\)](#), [Plot.prROC\(\)](#), [ROC\(\)](#), [Residuals.Scatter\(\)](#), [ShapImportance\(\)](#), [VariableImportance\(\)](#)

Residuals.Scatter	<i>Residuals.Scatter</i>
-------------------	--------------------------

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.HeatMap\(\)](#), [Plot.PartialDependence.Line\(\)](#), [Plot.ROC\(\)](#), [Plot.Residuals.Histogram\(\)](#), [Plot.Residuals.Scatter\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.VariableImportance\(\)](#), [Plot.prROC\(\)](#), [ROC\(\)](#), [Residuals.Histogram\(\)](#), [ShapImportance\(\)](#), [VariableImportance\(\)](#)

River	<i>River</i>
-------	--------------

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,  
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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.textBorderStyle = 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.textBorderStyle = 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.height = 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

<code>title.text</code>	Title name
<code>title.subtext</code>	Subtitle name
<code>title.link</code>	Title as a link
<code>title.sublink</code>	Subtitle as a link
<code>title.Align</code>	'auto' 'left' 'right' 'center'
<code>title.top</code>	'auto' '20' 'top' 'middle' 'bottom'
<code>title.left</code>	distance between title and left side of container
<code>title.right</code>	distance between title and right side of container
<code>title.bottom</code>	'auto' '20' 'top' 'middle' 'bottom'
<code>title.padding</code>	numeric
<code>title.itemGap</code>	space between title and subtitle
<code>title.backgroundColor</code>	hex or name
<code>title.borderColor</code>	hex or name
<code>title.borderWidth</code>	numeric
<code>title.borderRadius</code>	numeric
<code>title.shadowColor</code>	hex or name
<code>title.shadowBlur</code>	numeric
<code>title.shadowOffsetX</code>	numeric
<code>title.shadowOffsetY</code>	numeric
<code>title.textStyle.color</code>	hex or name
<code>title.textStyle.fontStyle</code>	'normal' 'italic' 'oblique'
<code>title.textStyle.fontWeight</code>	'normal' 'bold' 'bolder' 'lighter'
<code>title.textStyle.fontFamily</code>	'sans-serif', 'serif', 'monospace', 'Arial', 'Times New Roman', 'Roboto', 'Open Sans', 'Lato', 'Helvetica', 'Georgia', 'Verdana', 'Arial', 'Tahoma', 'Courier New'
<code>title.textStyle.fontSize</code>	numeric
<code>title.textStyle.lineHeight</code>	numeric
<code>title.textStyle.width</code>	numeric
<code>title.textStyle.height</code>	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.borderColor
    '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.height	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	<i>ROC</i>
-----	------------

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


```
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.textBorderStyle = 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.textBorderStyle = 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.height = 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.textBorderStyle
    "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.height	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	<i>Scatter</i>
---------	----------------

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.textBorderStyle = 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.height = 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.textBorderStyle
    "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.height  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",  
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yAxis.nameTextStyle.color = NULL,  
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yAxis.nameTextStyle.fontSize = NULL,  
yAxis.nameTextStyle.fontFamily = "Segoe UI",  
yAxis.splitNumber = NULL,  
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yAxis.axisLabel.fontWeight = NULL,  
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yAxis.axisLabel.borderType = NULL,  
yAxis.axisLabel.borderRadius = NULL,  
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yAxis.axisLabel.shadowOffsetY = NULL,  
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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,  
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legend.borderRadius = NULL,  
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legend.shadowColor = NULL,  
legend.shadowOffsetX = NULL,  
legend.shadowOffsetY = NULL,  
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legend.lineStyle.shadowBlur = NULL,  
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legend.lineStyle.shadowOffsetX = NULL,  
legend.lineStyle.shadowOffsetY = NULL,  
legend.lineStyle.opacity = NULL,  
legend.lineStyle.inactiveColor = NULL,  
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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,  
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legend.textStyle.padding = NULL,  
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legend.textStyle.textShadowBlur = NULL,  
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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,  
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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.textBorderStyle = 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.textBorderStyle = 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.height = 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.textBorderStyle
    "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.height 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	<i>ShapImportance</i>
----------------	-----------------------

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.Line\(\)](#), [Plot.ROC\(\)](#), [Plot.Residuals.Histogram\(\)](#), [Plot.Residuals.Scatter\(\)](#), [Plot.ShapImportance\(\)](#), [Plot.VariableImportance\(\)](#), [Plot.prROC\(\)](#), [ROC\(\)](#), [Residuals.Histogram\(\)](#), [Residuals.Scatter\(\)](#), [VariableImportance\(\)](#)

StackedBar	<i>StackedBar</i>
------------	-------------------

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.textBorderStyle = 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.height = 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.textBorderStyle
    '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.textBorderStyle
    "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.height 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,
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.height = 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.textBorderStyle
    '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.textBorderStyle
    '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.textBorderStyle
    "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.height 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	<i>VariableImportance</i>
--------------------	---------------------------

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.HeatMap\(\)](#), [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.textBorderStyle = 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.textBorderStyle
    '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.textBorderStyle
    '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, 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, 518,

- 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, 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