

Package ‘rAmCharts’

August 28, 2019

Title JavaScript Charts Tool

Description Provides an R interface for using 'AmCharts' Library. Based on 'htmlwidgets', it provides a global architecture to generate 'JavaScript' source code for charts. Most of classes in the library have their equivalent in R with S4 classes; for those classes, not all properties have been referenced but can easily be added in the constructors. Complex properties (e.g. 'JavaScript' object) can be passed as named list. See examples at http://datastorm-open.github.io/introduction_ramcharts/ and <http://www.amcharts.com/> for more information about the library. The package includes the free version of 'AmCharts' Library. Its only limitation is a small link to the web site displayed on your charts. If you enjoy this library, do not hesitate to refer to this page <http://www.amcharts.com/online-store/> to purchase a licence, and thus support its creators and get a period of Priority Support. See also <http://www.amcharts.com/about/> for more information about 'AmCharts' company.

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License GPL (>= 2)

URL http://datastorm-open.github.io/introduction_ramcharts/

BugReports <https://github.com/datastorm-open/rAmCharts/issues/>

Depends R (>= 3.2.0)

Collate 'amChartsAPI.R' 'base_data.R' 'base_startupMessage.R'
'chart_amBarplot.R' 'chart_amBoxplot.R' 'chart_amBullet.R'
'chart_amCandlestick.R' 'chart_amDataset.R'
'chart_amFloatingBar.R' 'chart_amFunnel.R' 'chart_amGauge.R'
'chart_amHist.R' 'chart_amMekko.R' 'chart_amOHLC.R'
'chart_amPie.R' 'chart_amPlot.R' 'chart_amRadar.R'
'chart_amTimeSeries.R' 'chart_amWaterfall.R' 'chart_amWind.R'
'utils_sharedGenerics.R' 'class_AmObject.R' 'class_AxisBase.R'
'class_ValueAxis.R' 'utils_basicClassUnions.R'
'class_TrendLine.R' 'class_Title.R' 'class_AmChart.R'
'class_StockPanel.R' 'class_StockEvent.R'
'class_PeriodSelector.R' 'class_Label.R' 'class_Guide.R'

'class_GaugeAxis.R' 'class_GaugeBand.R' 'class_GaugeArrow.R'
 'class_DataSet.R' 'class_ChartScrollbar.R'
 'class_ChartCursor.R' 'class_AmLegend.R' 'class_AmGraph.R'
 'class_AmBalloon.R' 'classUnions.R'
 'class_AmChart_constructors.R' 'class_CategoryAxis.R'
 'class_AmChart_setters.R' 'class_AmChart_shinyUtils.R'
 'class_AmStockChart.R' 'class_AmStockChart_setters.R'
 'class_AxisBase_setters.R' 'class_ChartCursor_setters.R'
 'class_ChartScrollbar_setters.R' 'class_DataSetSelector.R'
 'class_DataSet_setters.R' 'class_GaugeArrow_setters.R'
 'class_GaugeAxis_setters.R' 'class_Guide_setters.R'
 'class_StockEvent_setters.R' 'class_StockPanel_setters.R'
 'class_TrendLine_setters.R' 'shiny_examples.R'
 'shiny_modules_export.R' 'shiny_modules_timeSeries.R'
 'union_AmCharts.R' 'utils.R' 'utils_amOptions.R'
 'utils_amTests.R'

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R topics documented:

addGuide,AxisBase,GuideOrMissing-method	5
addListener	5
add_animate_dependency	7
add_dataloader_dependency	8
add_export_dependency	8
add_responsive_dependency	9
add_theme_dependency	9
amAngularGauge	10
AmBalloon-class	11
amBarplot	12
amBoxplot	14

amBullet	17
amCandlestick	18
AmChart-class	20
amChartsAPI	22
amChartsOutput	22
amFloatingBar	23
amFunnel	25
AmGraph-class	27
amHist	27
AmLegend-class	29
amLines	30
amMekko	31
AmObject-class	32
amOHLC	32
amOptions	34
amPie	36
amPlot	37
amRadar	40
amSolidGauge	42
AmStockChart-class	43
amStockMultiSet	44
amTimeSeries	45
amWaterfall	48
amWind	50
api	51
AxisBase-class	51
CategoryAxis-class	52
ChartCursor-class	52
ChartScrollbar-class	53
controlShinyPlot	54
DataSet-class	54
DataSetSelector-class	55
data_AirPassengers	55
data_bar	56
data_candleStick1	56
data_candleStick2	57
data_fbar	57
data_funnel	58
data_gantt	58
data_gbar	59
data_gdp	59
data_mekko	60
data_pie	60
data_radar	61
data_stock1	61
data_stock_2	62
data_stock_3	62
data_waterfall	63

data_wind	63
GaugeArrow-class	64
GaugeAxis-class	64
GaugeBand-class	65
Generics functions	65
getCurrentStockData	67
getTransformTS	68
Guide-class	69
initialize,AmBalloon-method	69
initialize,AmChart-method	71
initialize,AmGraph-method	82
initialize,AmLegend-method	84
initialize,AmStockChart-method	85
initialize,CategoryAxis-method	90
initialize,ChartCursor-method	91
initialize,ChartScrollbar-method	92
initialize,DataSet-method	94
initialize,DataSetSelector-method	95
initialize,GaugeArrow-method	96
initialize,GaugeAxis-method	97
initialize,GaugeBand-method	98
initialize,Guide-method	99
initialize,Label-method	100
initialize,PeriodSelector-method	102
initialize,StockEvent-method	103
initialize,StockPanel-method	104
initialize,Title-method	107
initialize,TrendLine-method	108
initialize,ValueAxis-method	110
Label-class	111
listProperties	111
PeriodSelector-class	112
plot,AmCharts-method	113
print,AmObject-method	113
rAmCharts-shinymodules	114
rAmCharts-shinymodules-ts	115
renderAmCharts	119
runExamples	119
setExport	120
show,AmChart-method	121
show,AmObject-method	121
show,AmStockChart-method	122
StockEvent-class	122
stockGraph	123
stockLegend	124
StockPanel-class	124
Title-class	126
TrendLine-class	127

addGuide,AxisBase,GuideOrMissing-method 5

ValueAxis-class 127

Index 129

addGuide,AxisBase,GuideOrMissing-method
Add a Guide for AxisBase

Description

Update an object of inherited class [AxisBase](#).

Usage

```
## S4 method for signature 'AxisBase,GuideOrMissing'  
addGuide(.Object, guide = NULL, ...)
```

Arguments

.Object children class of [AxisBase](#).
guide (optional) [Guide](#).
... properties of [Guide](#) Argument for method addGuide.

Value

(possibly updated) .Object of class [AxisBase](#).

Examples

```
addGuide(.Object = valueAxis(), fillAlpha = .4, adjustBorderColor = TRUE, gridThickness = 1)  
# equivalent to:  
guide_obj <- guide(fillAlpha = .4, adjustBorderColor = TRUE, gridThickness = 1)  
addGuide(.Object = valueAxis(), guide = guide_obj)
```

addListener *AmObject methods*

Description

Methods for inherited classes.

Usage

```

addListener(.Object, name, expression)

## S4 method for signature 'AmObject,character,character'
addListener(.Object, name,
  expression)

resetProperties(.Object, ...)

## S4 method for signature 'AmObject'
resetProperties(.Object, ...)

setProperties(.Object, list_prop, ...)

## S4 method for signature 'AmObject'
setProperties(.Object, list_prop, ...)

```

Arguments

.Object	AmObject .
name	character, name of the listener.
expression	character, associated function event.
...	other properties
list_prop	(Optional) list containing properties to set. The former properties will be overwritten.

Details

Former properties will be overwritten.

Former properties will be overwritten.

Value

The updated object.

Examples

```

addListener(.Object = amPieChart(),
  name = "clickSlice" ,
  expression = "function(event){ alert('ok !'); }")

addListener(.Object = amLegend(),
  name = "select",
  expression = paste0("function onSelect (properties) {",
    "alert('selected nodes: ' + properties.nodes);",
    "}"))

library(pipeR)
amPlot(runif(10)) %>>% resetProperties("categoryAxis") %>>% print(withDetail = FALSE)

```

```
library(pipeR)
# either you can set a list
ls <- list(categoryAxis = list(gridPosition = "start"), fontSize = 15)
amSerialChart() %>>% setProperties(list = ls) %>>% print()

# or you can set one or more properties
amPieChart() %>>% setProperties(handDrawn = TRUE, fontSize = 15) %>>% print()

# overwrite a property
amPieChart() %>>% setProperties(fontSize = 15) %>>% setProperties(fontSize = 12) %>>% print()

# Carefull if you try to set a property which is a slot...
# in that case, use the setter methods 'setXX' or 'addXX' which check the validity
## Not run:
amPieChart() %>>% setProperties(type = "serial") %>>% print()

## End(Not run)

amPieChart() %>>% setExport()
```

add_animate_dependency

Add animate dependency

Description

Add the 'animate' dependency to an htmlwidget. You can only manipulate the htmlwidget if you call the method 'plot' with an rAmChart.

Usage

```
add_animate_dependency(widget)
```

Arguments

widget An htmlwidget.

Value

Return an updated htmlwidget with the dependency.

add_dataloader_dependency

Add dataloader dependency

Description

Add the 'dataloader' dependency to an htmlwidget. You can only manipulate the htmlwidget if you call the method 'plot' with an rAmChart.

Usage

```
add_dataloader_dependency(widget)
```

Arguments

widget An htmlwidget

Value

Return the updated htmlwidget.

add_export_dependency *Add the export dependency to an htmlwidget*

Description

Add the 'export' dependency to an htmlwidget. You can only manipulate the htmlwidget if you call the method 'plot' with an rAmChart.

Usage

```
add_export_dependency(widget)
```

Arguments

widget An htmlwidget.

Value

Return the updated widget with the 'export' dependency.

add_responsive_dependency
Add responsive dependency

Description

Add the 'responsive' dependency to an htmlwidget. You can only manipulate the htmlwidget if you call the method 'plot' with an rAmChart.

Usage

```
add_responsive_dependency(widget)
```

Arguments

widget An htmlwidget.

Value

Return an updated htmlwidget with the dependency.

add_theme_dependency *Add theme dependency*

Description

Add the 'theme' dependency to an htmlwidget. You can only manipulate the htmlwidget if you call the method 'plot' with an rAmChart.

Usage

```
add_theme_dependency(widget, theme_js = c("light.js", "patterns.js",  
    "dark.js", "chalk.js"))
```

Arguments

widget An htmlwidget.
theme_js A character indicating the JS file dependency.

Value

Return the updated htmlwidget.

Examples

```
library(pipeR)
amPlot(1:10, theme = "dark") %>% plot() %>% add_theme_dependency("light.js")
```

amAngularGauge

Plotting gauge using rAmCharts

Description

amAngularGauge computes a gauge of the given value.

Usage

```
amAngularGauge(x, start = 0, end = 100, step = 20,
  bands = data.frame(start = numeric(), end = numeric(), color =
  character(), width = numeric(), stringsAsFactors = FALSE), text = "",
  textSize = 25, secondAxe = FALSE, start2 = 0, end2 = 100,
  step2 = 20, bands2 = data.frame(start = numeric(), end = numeric(),
  color = character(), stringsAsFactors = FALSE), ...)
```

Arguments

x	numeric, value for which the angular gauge is desired.
start	numeric, minimum value allowed.
end	numeric, maximum value allowed.
step	numeric, intervals size.
bands	data.frame with 4 columns : start (numeric, minimal value for the band), end (numeric, maximal value for the band), color (character, color of the band, in hexadecimal) and width (numeric, width of the band). If the last column is not defined, it is automatically set to 10.
text	character, text legend.
textSize	numeric, text size.
secondAxe	logical, TRUE if two axes are desired. Default is set to FALSE.
start2	numeric, minimum value allowed for the second axe if secondAxe is TRUE.
end2	numeric, maximum value allowed for the second axe if secondAxe is TRUE.
step2	numeric, intervals size for the second axe if secondAxe is TRUE.
bands2	data.frame with 4 columns : start (numeric, minimal value for the band), end (numeric, maximal value for the band), color (character, color of the band, in hexadecimal) and width (numeric, width of the band). If the last column is not defined, it is automatically set to 10.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
amAngularGauge(10)
```

AmBalloon-class

AmBalloon class

Description

Creates the balloons (tooltips) of the chart. It follows the mouse cursor when you roll-over the data items. The framework generates the instances automatically, you just have to adjust the appearance to your needs.

Details

Run `api("AmBalloon")` for more information and all available properties.

Slots

`adjustBorderColor` *logical*. If TRUE, border color will be changed when user rolls-over the slice, graph, etc, instead of background color.

`color` *character*. Balloon text color.

`cornerRadius` *numeric*. Balloon corner radius.

`fillColor` *character*. Balloon background color. It is usually defined by the chart itself. If "adjustBorderColor" is set to TRUE, the balloon background color will be equal to "fillColor".

`listeners` *list* containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. See examples for details. Inherited from [AmObject](#).

`otherProperties` *list* containing other available properties not yet implemented in the package. Inherited from [AmObject](#).

`value` *numeric*. Inherited from [AmObject](#).

amBarplot

*Plotting bar chart using rAmCharts***Description**

amBarplot computes a bar chart of the given values.

Usage

```
amBarplot(x, y, data, xlab = "", ylab = "", ylim = NULL,
  groups_color = NULL, horiz = FALSE, stack_type = c("none",
  "regular", "100"), layered = FALSE, show_values = FALSE, depth = 0,
  dataDateFormat = NULL, minPeriod = ifelse(!is.null(dataDateFormat),
  "DD", ""), ...)
```

Arguments

x	character, column name for x-axis or numeric, value of the corresponding column. It is optional if argument data has row names.
y	character, column name for y-axis or numeric vector of the corresponding column. If you want to display a grouped barchart or a stacked barchart, y is a vector of characters or numerics.
data	data.frame, dataframe with values to display. You can add a column "color" (character, colors in hexadecimal). You can also add a column "description" (character) containing the text you want to display when mouse is on the graphic (' ' for a new line). See data_bar and data_gbar .
xlab	character, label for x-axis.
ylab	character, label for y-axis.
ylim	limits for the y axis.
groups_color	character, vector of colors in hexadecimal, same length as y.
horiz	logical, TRUE for an horizontal chart, FALSE for a vertical one. If 'horiz' is set to TRUE, the setting 'labelRotation' will be ignored.
stack_type	character, "regular" if you wish stacked bars, "100" if you want 100 percent stacked bars. Default is set to "none".
layered	logical, TRUE for layered bars. If TRUE, stack_type must be set to "none".
show_values	logical, TRUE to display values.
depth	numeric, if > 0, chart is displayed in 3D. Value between 0 and 100.
dataDateFormat	character, default set to NULL. Even if your chart parses dates, you can pass them as strings in your dataframe - all you need to do is to set data date format and the chart will parse dates to date objects. Check this page for available formats. Please note that two-digit years (YY) as well as literal month names (MMM) are NOT supported in this setting.

`minPeriod` Specifies the shortest period of your data. This should be set only if `dataDateFormat` is not 'NULL'. Possible period values: `fff` - milliseconds, `ss` - seconds, `mm` - minutes, `hh` - hours, `DD` - days, `MM` - months, `YYYY` - years. It's also possible to supply a number for increments, i.e. '15mm' which will instruct the chart that your data is supplied in 15 minute increments.

... see [amOptions](#) for more options.

Details

Notice about labels: if the chart has many columns, several labels might be hidden. It depends on the width of the container where the chart is displayed. Zoom on the chart to see if the chart can contain all labels. If not, use the parameter `labelRotation`. You can also add a cursor to your chart...

Value

An object of class [AmChart](#).

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
# Data
data(data_bar)
data(data_gbar)

amBarplot(x = "country", y = "visits", data = data_bar, main = "example")

# Other examples available which can be time consuming depending on your configuration.

# fixed value axis
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar, ylim = c(0, 26))
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar, stack_type = "100")

# Test with label rotation
amBarplot(x = "country", y = "visits", data = data_bar, labelRotation = -45)

# Horizontal bar
amBarplot(x = "country", y = "visits", data = data_bar, horiz = TRUE, labelRotation = -45)

# 3D bar
```

```

amBarplot(x = "country", y = "visits", data = data_bar, depth = 15, labelRotation = -45)

# Display values
amBarplot(x = "country", y = "visits", data = data_bar, show_values = TRUE, labelRotation = -45)

# Grouped columns
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar)

# Parse dates
# Default label: first day of each year
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar,
          dataDateFormat = "YYYY", minPeriod = "YYYY")

# Default label: first day of each month
amBarplot(x = "month", y = c("income", "expenses"), data = data_gbar,
          dataDateFormat = "MM/YYYY", minPeriod = "MM")

amBarplot(x = "day", y = c("income", "expenses"), data = data_gbar,
          dataDateFormat = "DD/MM/YYYY")

# Change groups colors
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar,
          groups_color = c("#87cefa", "#c7158"))

# Regular stacked bars
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar, stack_type = "regular")

# 100% stacked bars
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar, stack_type = "100")

# Layered bars
amBarplot(x = "year", y = c("income", "expenses"), data = data_gbar, layered = TRUE)

# Data with row names
dataset <- data.frame(get(x = "USArrests", pos = "package:datssets"))
amBarplot(y = c("Murder", "Assault", "UrbanPop", "Rape"), data = dataset, stack_type = "regular")

# Round values
amBarplot(x = "year", y = c("in", "ex"), data = data_gbar, precision = 0)

```

amBoxplot

Plotting boxplot using rAmCharts

Description

amBoxplot computes a boxplot of the given data values. Can be a vector, a data.frame, or a matrix.

Usage

```

amBoxplot(object, ...)

## Default S3 method:
amBoxplot(object, xlab = NULL, ylab = NULL,
  ylim = NULL, names = NULL, col = "#1e90ff", horiz = FALSE, ...)

## S3 method for class 'data.frame'
amBoxplot(object, id = NULL, xlab = NULL,
  ylab = NULL, ylim = NULL, col = NULL, horiz = FALSE, ...)

## S3 method for class 'matrix'
amBoxplot(object, use.cols = TRUE, xlab = NULL,
  ylab = NULL, ylim = NULL, col = NULL, horiz = FALSE, ...)

## S3 method for class 'formula'
amBoxplot(object, data = NULL, id = NULL,
  xlab = NULL, ylab = NULL, ylim = NULL, col = NULL,
  horiz = FALSE, ...)

```

Arguments

object	a vector, data.frame, a matrix, or a formula.
...	see amOptions for more options.
xlab, ylab	character, labels of the axis.
ylim	numeric, y values range with sensible defaults.
names	character, name on x-axis, if object is a vector.
col	character, color(s) to be used to fill the boxplot.
horiz	logical, TRUE to rotate chart.
id	character, column name of id to identify outliers, if object is a data.frame.
use.cols	logical, for matrix only. Set to TRUE to display boxplot based on columns.
data	data.frame, from which the variables in formula should be taken.

Value

An object of class [AmChart](#).

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```

## Not run:
# 'numeric' (default)
amBoxplot(rnorm(100))

# 'formula'
amBoxplot(count ~ spray, data = InsectSprays)

# 'formula', two group
data <- InsectSprays
data$group <- c("H", "F")
amBoxplot(count ~ spray + group, data = data, col = c("purple", "darkblue"))

# 'matrix'
x <- matrix(nrow = 10, ncol = 5, rnorm(50))
amBoxplot(x)

# 'data.frame'
amBoxplot(iris[, 1:4])

## End(Not run)
# Other examples available which can be time consuming depending on your configuration.

don <- data.frame(a = 1:10, b = 1:5)
amBoxplot(don, ylim = c(0,15))

# --- matrix
x <- matrix(nrow = 10, ncol = 5, rnorm(50))

amBoxplot(x) # on columns
colnames(x) <- LETTERS[1:5]
amBoxplot(x) # with names
amBoxplot(x, use.cols = FALSE, col = c("blue", "red"))

# Parameter for amOptions
amBoxplot(x, export = TRUE, exportFormat = "SVG")

# --- Formula
(obj <- amBoxplot(count ~ spray, data = InsectSprays))

# Adding parameters
amBoxplot(count ~ spray, data = InsectSprays, ylim = c(0,50),
          xlab = "spray", col = c("darkblue", "gray"))

# Transpose
amBoxplot(count ~ spray, data = InsectSprays, ylim = c(0,50), xlab = "spray", horiz = FALSE)

```

```
# Using a custom colum to identify outliers
InsectSprays$id <- paste0("ID : ", 1:nrow(InsectSprays))
amBoxplot(count ~ spray, data = InsectSprays, id = "id")

# Parameter for amOptions
amBoxplot(count ~ spray, data = InsectSprays, main = "amcharts")
```

amBullet

*Plotting bullet chart using rAmCharts***Description**

amBullet computes a bullet chart of the given value.

Usage

```
amBullet(value, min = 0, max = 100, val_color = "#000000",
  limit = 85, limit_color = "#000000", steps = TRUE, label = "",
  horiz = TRUE, rates, ...)
```

Arguments

value	numeric, value to display.
min	numeric, minimum value allowed.
max	numeric, maximum value allowed.
val_color	character, color of the bar value, in hexadecimal.
limit	numeric, target value.
limit_color	character, color of the target line.
steps	logical, default set to TRUE.
label	character, label of the bullet.
horiz	logical, TRUE (default) for an horizontal bullet chart, FALSE for a vertical one.
rates	data.frame with 4 columns: name (character), min (numeric), max (numeric), and color (character, color in hexadecimal).
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```

amBullet(value = 65)

# Other examples available which can be time consuming depending on your configuration.

# Remove steps for background
amBullet(value = 65, steps = FALSE)

# Tune the colors with name or HTML code
amBullet(value = 65, val_color = "purple", limit_color = "#3c8dbc")

# Change the orientation
amBullet(value = 65, steps = FALSE, horiz = FALSE)

# Add text
amBullet(value = 65, label = "Evaluation")

# Change min and max values
amBullet(value = 65, min = 20, max = 90)

```

amCandlestick

Plotting candlestick chart using rAmCharts

Description

amCandlestick computes a candlestick chart of the given value.

Usage

```

amCandlestick(data, xlab = "", ylab = "", horiz = FALSE,
  positiveColor = "#7f8da9", negativeColor = "#db4c3c",
  names = c("low", "open", "close", "high"), dataDateFormat = NULL,
  minPeriod = ifelse(!is.null(dataDateFormat), "DD", ""), ...)

```

Arguments

data	data.frame, dataframe with at least 5 columns: category, open (numeric), close (numeric), low (numeric), high (numeric). See data_candleStick1 and data_candleStick2 .
xlab	character, label for x-axis.
ylab	character, label for y-axis.
horiz	logical, TRUE for an horizontal chart, FALSE for a vertical one
positiveColor	character, color for positive values (in hexadecimal).

negativeColor	character, color for negative values (in hexadecimal).
names	character, names for the tooltip. Default set to c("low", "open", "close", "high").
dataDateFormat	character, default set to NULL. Even if your chart parses dates, you can pass them as strings in your dataframe - all you need to do is to set data date format and the chart will parse dates to date objects. Check this page for available formats. Please note that two-digit years (YY) as well as literal month names (MMM) are NOT supported in this setting.
minPeriod	character, minPeriod Specifies the shortest period of your data. This should be set only if dataDateFormat is not NULL. Possible period values: fff - milliseconds, ss - seconds, mm - minutes, hh - hours, DD - days, MM - months, YYYY - years. It's also possible to supply a number for increments, i.e. '15mm' which will instruct the chart that your data is supplied in 15 minute increments.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data("data_candleStick2")
amCandlestick(data = data_candleStick2)

# Change colors
amCandlestick(data = data_candleStick2, positiveColor = "black", negativeColor = "green")

# Naming the axes
amCandlestick(data = data_candleStick2, xlab = "categories", ylab = "values")

# Rotate the labels for x axis
amCandlestick(data = data_candleStick2, labelRotation = 90)

# Change names
amCandlestick(data = data_candleStick2, names = c("min", "begin", "end", "max"))

# Horizontal chart :
amCandlestick(data = data_candleStick2, horiz = TRUE)

# Parse date
amCandlestick(data = data_candleStick2, dataDateFormat = "YYYY-MM-DD")
```

```
# Datas over months
data_candleStick2$category <- c("2015-01-01", "2015-02-01", "2015-03-01",
                                "2015-04-01", "2015-05-01", "2015-06-01",
                                "2015-07-01", "2015-08-01", "2015-09-01",
                                "2015-10-01", "2015-11-01", "2015-12-01")

amCandlestick(data = data_candleStick2, dataDateFormat = "YYYY-MM-DD", minPeriod = "MM")

# Decimal precision
require(pipeR)
amCandlestick(data = data_candleStick2, horiz = TRUE) %>>%
  setProperties(precision = 2)
```

AmChart-class

AmChart

Description

Defines the AmChart properties.

Details

API for plotting AmChart with R.

Slots

`allLabels` list of [Label](#). Example of a label object, with all possible properties: `label(x = 20, y = 20, text = "this is a label", align = "left", size = 12, color = "#CC0000", alpha = 1, rotation = 0, bold = TRUE, url = "http://www.amcharts.com")`. Run `api("Label")` for more informations.

`arrows` list of [GaugeArrow](#). Only valid for gauge charts. Run `api("GaugeArrow")` for more informations.

`axes` list of [GaugeAxis](#) properties. Only valid for gauge charts. Run `api("GaugeAxis")` for more informations.

`balloon` [AmBalloon](#). Creates the balloons (tooltips) of the chart, It follows the mouse cursor when you roll-over the data items. The framework generates the instances automatically you just have to adjust the appearance to your needs. Run `api("AmBalloon")` for more informations.

`categoryAxis` [CategoryAxis](#). Read-only. Chart creates category axis itself. If you want to change some properties, you should get this axis from the chart and set properties to this object. Run `api("CategoryAxis")` for more informations.

`categoryField` character. Category field name indicates the name of the field in your `dataProvider` object which will be used for category axis values.

`ChartCursor` [ChartCursor](#). Chart's cursor. Run `api("ChartCursor")` for more informations.

`ChartScrollbar` [ChartScrollbar](#). Chart's scrollbar. Run `api("ChartScrollbar")` for more informations.

creditsPosition character, specifies position of the amCharts' website link. Allowed values are: "top-left", "top-right", "bottom-left" and "bottom-right".

dataProvider data.frame, containing the data.

graphs list of [AmGraph](#). Creates the visualization of the data in following types: line, column, step line, smoothed line, olhc and candlestick. Run `api("AmGraph")` for more informations.

graph [AmGraph](#). Only valid for Gantt charts. Gant chart actually creates multiple graphs (separate for each segment). Properties of this graph are passed to each of the created graphs - this allows you to control the look of segments. Run `api("AmGraph")` for more informations.

guides list of [Guide](#). Instead of adding guides to the axes, you can push all of them to this array. In case guide has category or date defined, it will automatically be assigned to the category axis, otherwise to the first value axis, unless you specify a different valueAxes for the guide. Run `api("Guide")` for more informations.

legend [AmLegend](#). Legend of a chart. Run `api("AmLegend")` for more informations.

segmentsField character. Segments field in your data provider. Only valid for Gantt Charts.

subChartProperties list. Only valid for Drilldown charts.

theme character. Theme of a chart. Config files of themes can be found in `amcharts/themes/` folder. See <http://www.amcharts.com/tutorials/working-with-themes/>.

titles list of [Title](#). Run `api("Title")` for more informations.

trendLines list of [TrendLine](#) objects added to a chart. You can add trend lines to a chart using this list or access already existing trend lines. Run `api("TrendLine")` for more informations.

type character. Possible types are: "serial", "pie", "radar", "xy", "radar", "funnel", "gauge", "stock". See details about using argument type. (type map is in development).

valueAxes list of [ValueAxis](#). Chart creates one value axis automatically, so if you need only one value axis, you don't need to create it. Run `api("ValueAxis")` for more informations.

valueAxis [ValueAxis](#). Only valid for Gantt Charts. Set it's type to "date" if your data is date or time based. Run `api("ValueAxis")` for more informations.

valueScrollbar [ChartScrollbar](#). Value scrollbar, enables scrolling value axes.

listeners list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. Run `runShinyExamples()` for examples.

otherProperties list containing other available properties not yet implemented in the package.

value numeric.

See Also

<http://docs.amcharts.com/3/javascriptcharts/>

Examples

```
# Run runShinyExamples() for examples.
```

amChartsAPI *View full API of amcharts.js*

Description

View full API of amcharts.js

Usage

```
amChartsAPI(viewer = getOption("viewer"))
```

Arguments

viewer : Set to NULL to open in a browser

References

See online documentation http://datastorm-open.github.io/introduction_ramcharts/

Examples

```
## Not run:
amChartsAPI()
amChartsAPI(NULL)

## End(Not run)
```

amChartsOutput *SHINY*

Description

Widget output function for use in Shiny

Usage

```
amChartsOutput(outputId, type = NULL, width = "100%",
  height = "400px")
```

Arguments

outputId character, output variable to read the chart from.
type character, indicating the chart type.
width character, the width of the chart container.
height character, the height of the chart container.

amFloatingBar *Plotting floating bar chart using rAmCharts*

Description

amFloatingBar computes a floating bar chart of the given values.

Usage

```
amFloatingBar(x, y_inf, y_sup, data, xlab = "", ylab = "",
  groups_color = NULL, horiz = FALSE, show_values = FALSE,
  depth = 0, dataDateFormat = NULL,
  minPeriod = ifelse(!is.null(dataDateFormat), "DD", ""), ...)
```

Arguments

x	character, column name for x-axis or numeric value of the corresponding column. It is optional if argument data has row names.
y_inf	character, column name for the lower value or numeric vector of the corresponding column.
y_sup	character, column name for the upper value or numeric vector of the corresponding column.
data	data.frame, dataframe with values to display. You can add a column "color" (character, colors in hexadecimal). You can also add a column "description" (character) containing the text you want to display when mouse is on the graphic (' ' for a new line). See data_fbar .
xlab	character, label for x-axis.
ylab	character, label for y-axis.
groups_color	character, vector of colors in hexadecimal, same length as y_inf or y_sup.
horiz	logical, TRUE for an horizontal chart, FALSE for a vertical one. If 'horiz' is set to TRUE, the setting 'labelRotation' will be ignored.
show_values	logical, TRUE to display values.
depth	numeric, if > 0, chart is displayed in 3D. Value between 0 and 100.
dataDateFormat	character, default set to NULL. Even if your chart parses dates, you can pass them as strings in your dataframe - all you need to do is to set data date format and the chart will parse dates to date objects. Check this page for available formats. Please note that two-digit years (YY) as well as literal month names (MMM) are NOT supported in this setting.
minPeriod	Specifies the shortest period of your data. This should be set only if dataDateFormat is not 'NULL'. Possible period values: fff - milliseconds, ss - seconds, mm - minutes, hh - hours, DD - days, MM - months, YYYY - years. It's also possible to supply a number for increments, i.e. '15mm' which will instruct the chart that your data is supplied in 15 minute increments.
...	see amOptions for more options.

Details

Notice about labels: if the chart has many columns, several labels might be hidden. It depends on the width of the container where the chart is displayed. Zoom on the chart to see if the chart can contain all labels. You can also add a cursor to your chart...

Value

An object of class [AmChart](#).

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
# Load data
data(data_fbar)
data(data_gbar)

amFloatingBar(x = "country", y_inf = "visits_inf", y_sup = "visits_sup",
              data = data_fbar, labelRotation = -45)

amFloatingBar(x = "year", y_inf = "expenses", y_sup = "income", data = data_gbar,
              dataDateFormat = "YYYY", minPeriod = "YYYY", zoom = TRUE)

# Other examples available which can be time consuming depending on your configuration.
library(pipeR)

# Reference example : column chart
amFloatingBar(x = "country", y_inf = "visits_inf", y_sup = "visits_sup",
              data = data_fbar, labelRotation = -45)

# Label rotation modification
amFloatingBar(x = "country", y_inf = "visits_inf", y_sup = "visits_sup",
              data = data_fbar, labelRotation = -90)

# Horizontal bar
amFloatingBar(x = "country", y_inf = "visits_inf", y_sup = "visits_sup",
              data = data_fbar, horiz = TRUE)

# 3D bar
amFloatingBar(x = "country", y_inf = "visits_inf", y_sup = "visits_sup",
              data = data_fbar, labelRotation = -45, depth = 15)
```

```

# Display values
amFloatingBar(x = "country", y_inf = "visits_inf", y_sup = "visits_sup",
              data = data_fbar, labelRotation = -90, show_values = TRUE)

# Change colors
amFloatingBar(x = "country", y_inf = "visits_inf", y_sup = "visits_sup",
              data = data_fbar[,1:3], labelRotation = -45, groups_color = "#67b7dc")

# Grouped columns
# Parse dates

# Default label: first day of each year

amFloatingBar(x = "year", y_inf = "expenses", y_sup = "income", data = data_gbar,
              dataDateFormat = "YYYY", minPeriod = "YYYY", zoom = TRUE)

# Default label: first day of each month

amFloatingBar(x = "month", y_inf = "expenses", y_sup = "income", data = data_gbar,
              dataDateFormat = "MM/YYYY", minPeriod = "MM", zoom = TRUE)

amFloatingBar(x = "day", y_inf = "expenses", y_sup = "income", data = data_gbar,
              dataDateFormat = "DD/MM/YYYY", zoom = TRUE)

```

amFunnel

Plotting funnel chart using rAmCharts

Description

amFunnel computes a funnel chart of the given value.

Usage

```

amFunnel(data, inverse = FALSE, neck_height = NULL,
          neck_width = NULL, depth = 0, label_side = "right",
          margin_right = 200, margin_left = 200, ...)

```

Arguments

data data.frame of at least 2 columns : value (numeric, positive), and description (character). You can add a third column "color" (character, colors in hexadecimal) see [data_funnel](#).

inverse	logical, if TRUE, the funnel chart will be inverted.
neck_height	numeric, value between 0 and 100 : if a bottleneck is desired, this value determines its height. Default to NULL.
neck_width	numeric, value between 0 and 100 : if a bottleneck is desired, this value determines its width. Default to NULL.
depth	numeric, if > 0, chart is displayed in 3D, only for pyramid chart (without a bottleneck). Value between 0 and 100.
label_side	character, label position : "right" or "left".
margin_right	numeric, margin at the right side.
margin_left	numeric, margin at the left side.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data(data_funnel)
amFunnel(data = data_funnel, inverse = TRUE)

# Other examples available which can be time consuming depending on your configuration.

# Change the orientation and legend side
amFunnel(data = data_funnel, inverse = FALSE,
          label_side = "left", margin_right = 15, margin_left = 160)

# Basic example : Funnel chart
amFunnel(data = data_funnel, neck_height = 30, neck_width = 40)

# 3D pyramid
amFunnel(data = data_funnel, depth = 50, inverse = TRUE)
```

AmGraph-class	<i>AmGraph class</i>
---------------	----------------------

Description

Creates the visualization of the data in following types: line, column, step line, smoothed line, ohlc and candlestick.

Details

Run `api("AmGraph")` for more details and all available properties.

Slots

`balloonText` character. Balloon text. You can use tags like `[[value]]`, `[[description]]`, `[[percents]]`, `[[open]]`, `[[category]]` or any other field name from your data provider. HTML tags can also be used.

`title` character. Graph title.

`type` character. Type of the graph. Possible values are: "line", "column", "step", "smoothed-Line", "candlestick", "ohlc". XY and Radar charts can only display "line" otherArguments graphs.

`valueField` character. Name of the value field in your dataProvider.

`listeners` "list" containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. See examples for details.

`otherProperties` "list" containing other available properties not yet implemented in the package.

`value` numeric.

amHist	<i>Plotting histogram</i>
--------	---------------------------

Description

`amHist` computes a histogram of the given data values.

Usage

```
amHist(x, ...)
```

```
## S3 method for class 'numeric'
amHist(x, col = "#1e90ff", border = "#1e90ff",
       freq = TRUE, plot = TRUE, labels = FALSE, xlab, ylab, ylim,
       control_hist, ...)
```

Arguments

x	numeric, a vector of values for which the histogram is desired.
...	see amOptions for more options.
col	character, a color to be used to fill the bars.
border	character, a color for the borders.
freq	logical, if TRUE, the histogram graphic is a representation of frequencies, the counts component of the result; if FALSE, probability densities, component density, are plotted (so that the histogram has a total area of one). Defaults to TRUE if and only if breaks are equidistant (and probability is not specified).
plot	logical, if TRUE (default), an histogram is plotted, otherwise a list of breaks and counts is returned. In the second case, a warning is used if (typically graphical) arguments are specified that only apply to the plot = TRUE case.
labels	logical, set to TRUE to display labels. Default set to FALSE. Additionally draw labels on top of bars. if TRUE, draw the counts or rounded densities; if labels is a character, draw itself.
xlab, ylab	character, labels of the axis.
ylim	numeric, the range of y values with sensible defaults.
control_hist	(optional) named list() containing parameters to compute the histogram.

Value

An object of class [AmChart](#).

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
amHist(x = rnorm(100))

# Other examples available which can be time consuming depending on your configuration.

x <- replicate(1000, {
  if (round(runif(1))) {
    rnorm(1)
  } else {
    rnorm(1, mean = 5)
  }
})
```

```
})

# Without plot
amHist(x = x, plot = FALSE)

# With options
amHist(x = x, border = "blue")
amHist(x = x, col = "lightblue", control_hist = list(breaks = 100))
amHist(x = x, col = "grey")
amHist(x = x, col = "gray")
amHist(x = x, main = "Histogram", ylab = "y-axis", xlab = "x-axis", col = "red")
amHist(x = x, main = "Histogram", ylab = "y-axis", xlab = "x-axis", ylim = c(10, 15))
amHist(x = x, main = "Histogram", ylab = "y-axis", xlab = "x-axis")

# Options for computing the histogram
amHist(x = x, control_hist = list(breaks = "Scott"))
```

AmLegend-class

AmLegend class

Description

Creates the legend for the chart, automatically adapts the color settings of the graphs.

Details

Run `api("AmLegend")` for more information and all available properties.

Slots

`useGraphSettings` logical. If TRUE, border color will be changed when user rolls-over the slice, graph, etc, instead of background color.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

amLines *amLines adds a serie to a graph.*

Description

amLines adds a new serie to an existing serial chart.

Usage

```
amLines(chart, x = NULL, y = NULL, type = c("points", "line",
      "smoothedLine", "both", "step"), col = "#0066cc", title,
      fill_alphas = 0, balloon = T)
```

Arguments

chart	AmChart . Chart you wish to add the new serie.
x	numeric, equivalent to y, deprecated.
y	numeric.
type	(optionnal) character. Possible values are : "l" for line, "p" for points, "b" for both, "sl" for smoothed line, "st" for step
col	character, color of the new serie.
title	character, name of the new serie, used when legend is enabled.
fill_alphas	a numeric between 0 and 1 for printed area.
balloon	logical, add balloon with value or not

Note

It is supposed here that x or y corresponds to the y-axis, and the x-axis is automatically linked to the x values of the chart "chart". That is why it makes sense to give the y argument.

Examples

```
require(pipeR)
amPlot(x = rnorm(100), type = 'sl') %>>%
  amLines(x = rnorm(100), type = "p")

amPlot(x = rnorm(100), type = 'sl') %>>%
  amLines(x = rnorm(100), col = "blue") %>>%
  amLines(x = rnorm(100), type = "sl") %>>%
  amLines(x = rnorm(100), type = "p")

# For an XY chart
x <- sort(rnorm(100))
y1 <- rnorm(100, sd = 10)
y2 <- rnorm(100, sd = 10)
```

```

y3 <- rnorm(100, sd = 10)
amPlot(x = x, y = y1) %>>%
  amLines(x = y2, col = "blue") %>>%
  amLines(x = y3, type = "p")

```

amMekko

Plotting mekko chart (quali vs quali)

Description

amMekko computes a mekko chart of the given values.

Usage

```

amMekko(x, y, data, xlab = "", ylab = "", groups_color = NULL,
        horiz = FALSE, show_values = FALSE, ...)

```

Arguments

x	character, column name for x-axis.
y	character, column name for y-axis.
data	data.frame, dataframe with values to display. See data_mekko
xlab	character, label for x-axis.
ylab	character, label for y-axis.
groups_color	character vector of colors in hexadecimal, same length as the number of y modalities.
horiz	logical, TRUE for an horizontal chart, FALSE for a vertical one.
show_values	logical, TRUE to display values.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```

data(data_mekko)
amMekko(x = "var1", y = "var2", data = data_mekko)

# Other examples available which can be time consuming depending on your configuration.
library(pipeR)

# Horizontal
amMekko(x = "var1", y = "var2", data = data_mekko, horiz = TRUE)

# Display values
amMekko(x = "var1", y = "var2", data = data_mekko, show_values = TRUE)

```

AmObject-class	<i>AmObject class</i>
----------------	-----------------------

Description

This is a virtual class for representing any Am** class

Slots

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric.

Author(s)

datastorm-open

amOHLC	<i>Plotting OHLC chart</i>
--------	----------------------------

Description

amOHLC computes an OHLC chart of the given value.

Usage

```

amOHLC(data, xlab = "", ylab = "", horiz = FALSE, zoom = TRUE,
        positiveColor = "#7f8da9", negativeColor = "#db4c3c",
        names = c("low", "open", "close", "high"), dataDateFormat = NULL,
        minPeriod = ifelse(!is.null(dataDateFormat), "DD", ""), ...)

```

Arguments

data	data.frame, dataframe with at least 5 columns : category, open (numeric), close (numeric), low (numeric), high (numeric).
xlab	character, label for x-axis.
ylab	character, label for y-axis.
horiz	logical, TRUE for an horizontal chart, FALSE for a vertical one
zoom	logical, default set to TRUE : a cursor is added to the chart.
positiveColor	character, color for positive values (in hexadecimal).
negativeColor	character, color for negative values (in hexadecimal).
names	character, names for the tooltip. Default to c("low", "open", "close", "high").
dataDateFormat	character, default set to NULL. Even if your chart parses dates, you can pass them as strings in your dataframe - all you need to do is to set data date format and the chart will parse dates to date objects. Check this page for available formats. Please note that two-digit years (YY) as well as literal month names (MMM) are NOT supported in this setting.
minPeriod	character, minPeriod Specifies the shortest period of your data. This should be set only if dataDateFormat is not 'NULL'. Possible period values: fff - milliseconds, ss - seconds, mm - minutes, hh - hours, DD - days, MM - months, YYYY - years. It's also possible to supply a number for increments, i.e. '15mm' which will instruct the chart that your data is supplied in 15 minute increments.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data("data_candleStick2")
amOHLC(data = data_candleStick2)

# Other examples available which can be time consuming depending on your configuration.
require(pipeR)

# Change colors
amOHLC(data = data_candleStick2, positiveColor = "green", negativeColor = "red")

# Naming the axes
```

```

amOHLC(data = data_candleStick2, xlab = "categories", ylab = "values") %>>% setChartCursor()

# Rotate the labels for x axis
amOHLC(data = data_candleStick2, labelRotation = 90)

# Change names
amOHLC(data = data_candleStick2, names = c("min", "begin", "end", "max")) %>>% setChartCursor()

# Use amOptions
amOHLC(data = data_candleStick2, zoom = FALSE)

```

amOptions

amOptions

Description

amOptions sets the most common options for chart customization. You can set other properties with the method [setProperties](#). See details for exception.

Usage

```

amOptions(chart, theme = c("none", "light", "dark", "patterns", "chalk"),
  legend = FALSE, legendPosition = "right", legendAlign = "left",
  export = FALSE, exportFormat = character(),
  creditsPosition = "top-left", main = character(),
  mainColor = "#000000", mainSize = 15, zoom = FALSE,
  scrollbar = FALSE, scrollbarHeight = 20, valuescrollbar = FALSE,
  valuescrollbarHeight = 20, labelRotation = 0, ...)

```

Arguments

chart	AmChart .
theme	character, possible values are : "none", "light", "dark", "patterns", "chalk", default set to "none".
legend	logical, default FALSE. TRUE to add a legend to the chart.
legendPosition	character, possible values are : "left", "right", "top" or "bottom", default set to "right".
legendAlign	character, controls the legend alignment. Possible values are : "left", "right" or "center", default set to "left". Only used if legend = TRUE.
export	logical, default set to FALSE. TRUE to display export feature.
exportFormat	character, desired export format. Possible values are : "JPG", "PNG", "SVG", "CSV", "JSON", "PDF", "XLSX", "PRINT".
creditsPosition	character, control credits position. Possible values are : "top-left", "top-right", "bottom-left" or "bottom-right", default set to "top-left".

main	character, chart's title.
mainColor	character, main color (in hexadecimal), default set to "#000000".
mainSize	numeric, main size, default set to 15.
zoom	logical, TRUE to add a chart cursor, default set to FALSE.
scrollbar	logical, default FALSE, TRUE to display scrollbar.
scrollbarHeight	numeric, height in pixels, must be > 0.
valuescrollbar	logical, default FALSE, TRUE to display valuescrollbar.
valuescrollbarHeight	numeric, height in pixels, must be > 0.
labelRotation	numeric, rotation angle of a label. Only horizontal axis' values can be rotated. Value must be between -90 and 90.
...	Other properties added to the chart using setProperties.

Details

Exception:

- It's not possible to export a gauge chart data as CSV.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
library(pipeR)
data(data_pie)

# Export
amPie(data = data_pie) %>>%
  amOptions(export = TRUE)

# Legend
amPie(data = data_pie) %>>%
  amOptions(legend = TRUE)

# Legend position
amPie(data = data_pie) %>>%
  amOptions(legend = TRUE, legendPosition = "bottom")
```

```

# Credits position
amPie(data = data_pie) %>>%
  amOptions(creditsPosition = "bottom-right")

# Theme
amPie(data = data_pie) %>>%
  amOptions(theme = "chalk")

# Title
amPie(data = data_pie) %>>%
  amOptions(main = "Social network", mainColor = "#FFFFFF", mainSize = 40, theme = "chalk")

# Custom exemple
amPie(data = data_pie) %>>%
  amOptions(main = "Social network", mainColor = "#FFFFFF", mainSize = 40,
            theme = "dark", legend = TRUE, legendPosition = "bottom",
            creditsPosition = "bottom-right" )

```

amPie

Plotting pie chart

Description

amPie computes a pie chart of the given value.

Usage

```
amPie(data, show_values = TRUE, depth = 0, inner_radius = 0, ...)
```

Arguments

data	data.frame, dataframe with at least 2 columns : label (character), value (numeric). See data_pie You can add a third column "color" (character, colors in hexadecimal).
show_values	logical, TRUE to display values.
depth	numeric, if > 0, chart is displayed in 3D, value between 0 and 100
inner_radius	numeric, value between 0 and 100
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data("data_pie")
amPie(data = data_pie)

# Other examples available which can be time consuming depending on your configuration.

# Don't display values
amPie(data = data_pie, show_values = FALSE)

# 3D pie
amPie(data = data_pie, depth = 10)

# Donut chart
amPie(data = data_pie, inner_radius = 50)

# All parameters
amPie(data = data_pie, inner_radius = 50, depth = 10, show_values = FALSE)
```

amPlot

Plot serial data

Description

amPlot computes a plot of the given data values (can be a vector, dataframe or formula).

Usage

```
amPlot(x, ...)

## Default S3 method:
amPlot(x, ...)

## S3 method for class 'numeric'
amPlot(x, y, bullet = c("round", "diamond", "square",
  "bubble", "yError", "xError", "triangleLeft", "triangleRight",
  "triangleUp", "triangleDown"), type = c("points", "line",
  "smoothedLine", "step", "both"), col = "#0066cc", fill_alphas = 0,
  weights = NULL, precision = 2, title = NULL, id, error, xlab, ylab,
  lty, cex, lwd, xlim, ylim, ...)
```

```

## S3 method for class 'character'
amPlot(x, y, bullet = c("round", "diamond", "square",
  "bubble", "yError", "xError", "triangleLeft", "triangleRight",
  "triangleUp", "triangleDown"), type = c("points", "line",
  "smoothedLine", "step", "both"), col = "#0066cc", fill_alphas = 0,
  weights = NULL, precision = 2, parseDates = FALSE, title = NULL,
  dataDateFormat, id, error, xlab, ylab, lty, cex, lwd, xlim, ylim, ...)

## S3 method for class 'factor'
amPlot(x, y, bullet = "round", type = "p",
  col = "gray", weights = NULL, precision = 2, parseDates = FALSE,
  dataDateFormat = NULL, id, error, xlab, ylab, lty, cex, lwd, xlim,
  ylim, ...)

## S3 method for class 'data.frame'
amPlot(x, columns, type = "l", precision = 2,
  xlab, ylab, fill_alphas = 0, ...)

## S3 method for class 'formula'
amPlot(x, data, type = "p", fill_alphas = 0, xlab,
  ylab, main = "", ...)

```

Arguments

x	the coordinates of points in the plot : numeric, data.frame, or formula.
...	see amOptions for more options.
y	numeric, the y coordinates of points in the plot, optional if x is an appropriate structure.
bullet	character, point shape. Possible values are : "diamond", "square", "bubble", "yError", "xError", "round", "triangleLeft", "triangleRight", "triangleUp", "triangleDown". Default set to "round".
type	character, type of plot. Possible values are : "l" for a line, "sl" for a smoothed line, "st" for step, "p" for points, and "b" for line and points. Default set to "p".
col	either a factor or a character, default set to "gray".
fill_alphas	a numeric between 0 and 1 for printed area.
weights	numeric, weights for x/y charts only. Small values are preferred for lisibility.
precision	numeric, precision you wish to display. Default set to 2.
title	character, name of the new serie, used when legend is enabled.
id	numeric, point id, for x/y charts only. Default 1:length(x).
error	numeric, only when type is "xError" "yError" default NULL,
xlab	character, label for x-axis.
ylab	character, label for y-axis.
lty	numeric, line type (dashes).
cex	numeric, bullet size.

lwd	numeric, line width
xlim	numeric, x range.
ylim	numeric, y range.
parseDates	logical, default set to FALSE, if TRUE argument dataDateFormat has to be provided.
dataDateFormat	character, default set to NULL. Even if your chart parses dates, you can pass them as strings in your dataframe - all you need to do is to set data date format and the chart will parse dates to date objects. Check this page for available formats. Please note that two-digit years (YY) as well as literal month names (MMM) are NOT supported in this setting.
columns	(optional) either a vector of character containing the names of the series to draw, or a numeric vector of indices. By default all numeric columns will be drawn.
data	dataset
main	title

Value

Return an Amchart.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
## Not run:
# 'numeric':
amPlot(x = rnorm(100))

# add line
amPlot(x = rnorm(100), type = 'sl', legend = T) %>>%
  amLines(x = rnorm(100), type = "p")

# 'character':
start <- as.POSIXct('01-01-2015', format = '%d-%m-%Y')
end <- as.POSIXct('31-12-2015', format = '%d-%m-%Y')
date <- seq.POSIXt(from = start, to = end, by = 'day')
date <- format(date, '%m-%d-%Y')

y <- rnorm(length(date))
```

```

amPlot(x = date, y = y, type = 'l', parseDates = TRUE, dataDateFormat = "MM-DD-YYYY")
# notice that by default 'parseDates = FALSE'

# 'data.frame'
amPlot(iris, col = colnames(iris)[1:2], type = c("l", "st"), zoom = TRUE, legend = TRUE)

# 'formula':
amPlot(Petal.Length + Sepal.Length ~ Sepal.Width, data = iris, legend = TRUE, zoom = TRUE)

## End(Not run)

# Other examples available which can be time consuming depending on your configuration.
library(data.table)

iris <- as.data.table(get("iris", "package:datasets"))
x <- rnorm(100)

# Simple scatter plot with title and color
# Also change type (set to "p" by default), available "l", "sl", "st", "p", "b"
amPlot(x = x, main = "Title", col = "lightblue", type = "b")

x <- sort(rnorm(100))
y <- runif(100)
weights <- runif(100, 0, 15)
amPlot(x = x, y = y, weights = weights)

```

amRadar

Plotting radar

Description

radar computes a radarplot of the given data values.

Usage

```
amRadar(data, col = NULL, backTransparency = 0.5, type = "polygons",
        pch = "round", xlim = NULL, ...)
```

Arguments

data	data.frame first column is named "label" (character), other columns are series of values, see data_radar .
col	character, color(s) of serie(s) hexadecimal like "#00FF00".
backTransparency	numeric, background transparency, between 0 and 1.
type	character, type of radar. Possible values are : "polygons" or "circle".

pch	character, points symbols. Possible values are : "round", "square", "triangleUp", "triangleDown", "triangleLeft", "triangleRight", "bubble", "diamond", "xError", "yError".
xlim	numeric, x range.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data("data_radar")
amRadar(data_radar)

# Other examples available which can be time consuming depending on your configuration.

require(pipeR)

# Change color
amRadar(data_radar, col = "#FF0000")
amRadar(data_radar, col = c("#0000FF", "#00FF00", "#FF0000"))

# Change backTransparency
amRadar(data_radar, backTransparency = 0.6)
amRadar(data_radar, backTransparency = c(0, 0.4, 0.6))

# Change type
amRadar(data_radar, type = "circles")

# Change pch
amRadar(data_radar, pch = "triangleRight")
amRadar(data_radar, pch = "triangleLeft")

# Min-Max
amRadar(data_radar, xlim = c(0, 8))
```

amSolidGauge

*Plotting solid gauge using rAmCharts***Description**

amSolidGauge computes a gauge of the given value.

Usage

```
amSolidGauge(x, min = 0, max = 100, type = "full", width = 20,
  color = "", text = "", textSize = 20, ...)
```

Arguments

x	numeric, value for which the angular gauge is desired.
min	numeric, minimal possible value.
max	numeric, maximal possible value.
type	character, type of gauge : "full" or "semi".
width	numeric, width of the gauge.
color	character, hexadecimal color value or a vector of colors.
text	character, text.
textSize	numeric, text size.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
amSolidGauge(x = 65)

# Other examples available which can be time consuming depending on your configuration.

require(pipeR)

# Change min and max values
amSolidGauge(x = 65, min = 0, max = 200)
```

```

# Semi solid gauge
amSolidGauge(x = 65, type = "semi")

# Change width
amSolidGauge(x = 65, width = 50)

# Change color
amSolidGauge(x = 65, color = "#2F4F4F")

# Put a color scale
amSolidGauge(x = 10, color = c("#00ff00", "#ffd700", "#ff0000"))
amSolidGauge(x = 35, color = c("#00ff00", "#ffd700", "#ff0000"))
amSolidGauge(x = 70, color = c("#00ff00", "#ffd700", "#ff0000"))
amSolidGauge(x = 90, color = c("#00ff00", "#ffd700", "#ff0000"))

# Add some text to the printed value
amSolidGauge(x = 65, text = "%")

# Modify textSize value
amSolidGauge(x = 65, text = "%", textSize = 50)

```

AmStockChart-class *AmStockChart*

Description

Class to draw stock charts

Slots

balloon [AmBalloon](#).

comparedDataSets list of [DataSet](#). Properties of data sets selected for comparison.

dataSets list of [DataSet](#). Each element must be a list of DataSet properties.

dataSetSelector list of [DataSetSelector](#). You can add it if you have more than one data set and want users to be able to select/compare them.

mainDataSet [DataSet](#). Data set selected as main.

panels list of [StockPanel](#).

periodSelector [PeriodSelector](#). You can add it if you want users to be able to enter date ranges or zoom chart with predefined period buttons.

theme character

type equals "stock"

group character for synchronization

is_ts_module logicalOrMissing. Don't use. For [rAmChartsTimeSeriesUI](#)

`listeners` list containing the listeners to add to the chart. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

See Also

<http://docs.amcharts.com/3/javascriptstockchart/AmStockChart>

amStockMultiSet

Plotting multi data-sets

Description

amStockMultiSet compute a stock of multi data-sets

Usage

```
amStockMultiSet(data, panelColumn = NULL,
  ZoomButtonPosition = "bottom", ZoomButton = data.frame(Unit = "MAX",
  multiple = 1, label = "All"), color = c("#2E2EFE", "#31B404",
  "#FF4000"), precision = 1, export = FALSE,
  percentHeightPanel = NULL, creditsPosition = "top-right", ...)
```

Arguments

<code>data</code>	list, list of data.frame (same structure) first column is date, others are values
<code>panelColumn</code>	numeric, numeric vector, controle panel adding for selected series
<code>ZoomButtonPosition</code>	character, zoom button position. Possible values are : "left", "right", "bottom", "top"
<code>ZoomButton</code>	data.frame, 3 columns : Unit, times unit multiple : multiple*unit label : button's label
<code>color</code>	character, color of data-sets (in hexadecimal).
<code>precision</code>	numeric, digits precision
<code>export</code>	logical, default set to FALSE. TRUE to display export feature.
<code>percentHeightPanel</code>	numeric, vector of size panel, same length than data
<code>creditsPosition</code>	character, credits position. Possible values are : "top-right", "top-left", "bottom-right", "bottom-left"
<code>...</code>	other first level attributes

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
## Not run:
data(data_stock_3)

amStockMultiSet(data = data_stock_3)
amStockMultiSet(data = data_stock_3, panelColumn = c(1,2,1,1))

amStockMultiSet(data = data_stock_3, panelColumn = c(1,2,3,4))

ZoomButton <- data.frame(Unit = c("DD", "DD", "MAX"), multiple = c(1, 10 ,1),
                          label = c("Day","10 days", "MAX"))
ZoomButtonPosition <- "bottom"
amStockMultiSet(data = data_stock_3, panelColumn = c(1,2,1,1), ZoomButton = ZoomButton,
ZoomButtonPosition = "top")

amStockMultiSet(data = data_stock_3, precision = 2)

amStockMultiSet(data = data_stock_3, panelColumn = c(1,2,1,1), percentHeightPanel = c(3,1))

## End(Not run)
```

amTimeSeries

Plotting times series (with or without aggregation)

Description

amTimeSeries computes a stock chart.

Usage

```
amTimeSeries(data, col_date, col_series, main = "", ylab = "",
             color = c("#2E2EFE", "#31B404", "#FF4000", "#AEB404"), bullet = NULL,
             bulletSize = 2, linetype = c(0, 5, 10, 15, 20), linewidth = c(1, 1,
             1, 1, 1, 1), fillAlphas = 0, precision = 1, export = FALSE,
             legend = TRUE, legendPosition = "bottom", legendHidden = FALSE,
```

```

aggregation = c("Average", "Low", "High", "Sum"), maxSeries = 300,
groupToPeriods = c("ss", "mm", "hh", "DD", "MM", "YYYY"),
ZoomButton = data.frame(Unit = "MAX", multiple = 1, label = "All"),
ZoomButtonPosition = "bottom", periodFieldsSelection = FALSE,
scrollbar = TRUE, scrollbarPosition = "bottom",
scrollbarHeight = 40, scrollbarGraph = NULL, cursor = TRUE,
cursorValueBalloonsEnabled = TRUE, creditsPosition = "top-right",
group = NULL, is_ts_module = FALSE, ...)

```

Arguments

data	data.frame, data of graph.
col_date	character name of date column
col_series	character names of series columns
main	character, title.
ylab	character, value axis label.
color	character, color of series (in hexadecimal).
bullet	character, point shape. Possible values are : "diamond", "square", "bubble", "yError", "xError", "round", "triangleLeft", "triangleRight", "triangleUp"
bulletSize	: numeric, size of bullet.
linetype	: numeric, line type, 0 : solid, number : dashed length
linewidth	: numeric, line width.
fillAlphas	: numeric, fill. Between 0 (no fill) to 1.
precision	numeric, default set to 1.
export	logical, default set to FALSE. TRUE to display export feature.
legend	logical, enabled or not legend ? Defaut to TRUE.
legendPosition	character, legend position. Possible values are : "left", "right", "bottom", "top"
legendHidden	logical hide some series on rendering ? Defaut to FALSE
aggregation	character, aggregation type. Possible values are : "Low", "High", "Average" and "Sum"
maxSeries	numeric Maximum series shown at a time. In case there are more data points in the selection than maxSeries, the chart will group data to longer periods, for example - you have 250 days in the selection, and maxSeries is 150 - the chart will group data to weeks.
groupToPeriods	character, Periods to which data will be grouped in case there are more data items in the selected period than specified in maxSeries property. Possible value are : 'ss', 'mm', 'hh', 'DD', 'MM', 'YYYY'. It's also possible to add multiple like "30mm". Or NULL to disable.
ZoomButton	data.frame, 3 or 4 columns : <ul style="list-style-type: none"> • "Unit" : Character. Times unit. 'ss', 'mm', 'hh', 'DD', 'MM', 'YYYY' • "multiple" : Numeric. multiple*unit • "label" : Character. button's label

- "selected" : Boolean. Optional. To set initial selection. (One TRUE, others FALSE)

ZoomButtonPosition	character, zoom button position. Possible values are : "left", "right", "bottom", "top"
periodFieldsSelection	boolean, using zoom button, add also two fields to select period ?
scrollbar	boolean, enabled or not scrollbar ? Default to TRUE.
scrollbarPosition	character, scrollbar position. Possible values are : "left", "right", "bottom", "top"
scrollbarHeight	numeric, height of scroll bar. Default : 40.
scrollbarGraph	character, name of serie (column) to print in scrollbar. Default to NULL.
cursor	boolean, enabled or not cursor ? Default to TRUE.
cursorValueBalloonsEnabled	boolean, if cursor, enabled or not balloons on cursor ? Default to TRUE.
creditsPosition	character, credits position. Possible values are : "top-right", "top-left", "bottom-right", "bottom-left"
group	character, like in dygraphs, for synchronization in shiny or rmarkdown.
is_ts_module	boolean. Don't use. For rAmChartsTimeSeriesUI
...	other first level attributes

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[rAmChartsTimeSeriesUI](#) for shiny module, [amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data("data_stock_2")
amTimeSeries(data_stock_2, "date", c("ts1", "ts2"))

## Not run:
# upper /lower
data <- data_stock_2[1:50, ]
data$ts1low <- data$ts1-100
data$ts1up <- data$ts1+100

amTimeSeries(data, "date", list(c("ts1low", "ts1", "ts1up"), "ts2"))
```

```

amTimeSeries(data, "date", list(c("ts1low", "ts1", "ts1up"), "ts2"),
  color = c("red", "blue"), bullet = c("round", "square"))

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round")
amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round",
  groupToPeriods = c('hh', 'DD', '10DD'))

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round",
  groupToPeriods = c('12hh', 'DD', '10DD'),
  maxSeries = 50)

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round",
  groupToPeriods = c('hh', 'DD', '10DD'),
  linewidth = c(3, 1))

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), aggregation = "Sum")

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round",
  groupToPeriods = c('12hh', 'DD', '10DD'),
  maxSeries = 50, precision = 5)

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = c("diamond", "square"),
  linetype = 0, bulletSize = c(5, 10),
  groupToPeriods = c('12hh', 'DD', '10DD'),
  maxSeries = 50, aggregation = "Sum")

ZoomButton <- data.frame(Unit = c("DD", "DD", "MAX"), multiple = c(1, 2 ,1),
  label = c("Day", "2 days", "MAX"))
amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round",
  ZoomButton = ZoomButton, main = "My title", ylab = "Interest")

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round",
  ZoomButton = ZoomButton, main = "My title", ylab = "Interest",
  export = TRUE, ZoomButtonPosition = "right",
  legendPosition = "bottom", scrollbarPosition = "top")

amTimeSeries(data_stock_2, "date", c("ts1", "ts2"), bullet = "round",
  ZoomButton = ZoomButton, main = "My title",
  ylab = "Interest", export = TRUE,
  creditsPosition = "bottom-left")

## End(Not run)

```

Description

amWaterfall computes a waterfall chart of the given value.

Usage

```
amWaterfall(data, start = 0, horiz = FALSE, show_values = FALSE, ...)
```

Arguments

data	data.frame, dataframe with at least 3 columns : label (character), value (numeric), operation (character : "plus", "minus", "total"). You can add a third column "color" (character, colors in hexadecimal). You can also add a column "description" (character) containing the text you want to display when mouse is on the graphic (' ' for a new line). See data_waterfall .
start	numeric, value from which to start.
horiz	logical, TRUE for an horizontal chart, FALSE for a vertical one.
show_values	logical, TRUE to display values on the chart.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data("data_waterfall")
amWaterfall(data = data_waterfall, show_values = TRUE)

# Other examples available which can be time consuming depending on your configuration.

# Change the orientation :
amWaterfall(data = data_waterfall, horiz = TRUE)
```

amWind

*Plotting wind***Description**

amWind computes a windplot of the given data values.

Usage

```
amWind(data, col = NULL, backTransparency = 0.5, ...)
```

Arguments

data	data.frame, a dataframe which columns are series of values, from weakest wind (first column) to stronger wind (last column). See data_wind .
col	character, color(s) of serie(s) hexadecimal like "#00FF00".
backTransparency	numeric, background transparency, between 0 and 1.
...	see amOptions for more options.

References

See online documentation https://datastorm-open.github.io/introduction_ramcharts/ and [amChartsAPI](#)

See Also

[amOptions](#), [amBarplot](#), [amBoxplot](#), [amHist](#), [amPie](#), [amPlot](#), [amTimeSeries](#), [amStockMultiSet](#), [amBullet](#), [amRadar](#), [amWind](#), [amFunnel](#), [amAngularGauge](#), [amSolidGauge](#), [amMekko](#), [amCandlestick](#), [amFloatingBar](#), [amOHLC](#), [amWaterfall](#)

Examples

```
data("data_wind")
amWind(data_wind)

# Other examples available which can be time consuming depending on your configuration.

# Change color
amWind(data = data_wind, col = "#0404B4")
amWind(data = data_wind, col = c("#0404B4", "#01DF01", "#FFBF00"))

# Change backTransparency
amWind(data = data_wind, col = c("#0404B4", "#01DF01", "#FFBF00"), backTransparency = 0.1)
amWind(data = data_wind, col = c("#0404B4", "#01DF01", "#FFBF00"), backTransparency = 1)
amWind(data = data_wind, col = c("#0404B4", "#01DF01", "#FFBF00"), backTransparency = c(0.1, 0.1, 1))
```

api

See AmCharts API

Description

Open a window in your browser at the referenced documentation under <http://docs.amcharts.com/3/javascriptstockchart/>.

Usage

```
api(class = NULL)
```

Arguments

`class` Object of class character. Name of the class to see documentation. Please respect lower and upper case.

Examples

```
api()  
api("AmChart")
```

AxisBase-class

AxisBase class

Description

Base class for ValueAxis and CategoryAxis. It can not be explicitly instantiated.

Slots

`guides` list.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric. Guides of this axis. Use `addGuide` method.

Author(s)

datastorm-open

CategoryAxis-class *CategoryAxis class*

Description

Children class of AxisBase. Automatically set.

Details

Run `api("CategoryAxis")` for more information and all available properties.

Slots

`gridPosition` character. Specifies if a grid line is placed on the center of a cell or on the beginning of a cell. Possible values are: "start" and "middle" This setting doesn't work if `parseDates` is set to TRUE.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

ChartCursor-class *ChartCursor class*

Description

Creates a cursor for the chart which follows the mouse movements. In case of AmSerialChart charts it shows the balloons of hovered data points.

Details

Run `api("ChartCursor")` for more information and all available properties.

Slots

`oneBalloonOnly` logical. If TRUE, border color will be changed when user rolls-over the slice, graph, etc, instead of background color.

`valueLineAxis` list. Properties of Axis of value line. If you set `valueLineBalloonEnabled` to true, but you have more than one axis, you can use this property to indicate which axis should display balloon.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric.

Author(s)

datastorm-open

ChartScrollbar-class *ChartScrollbar class*

Description

Creates a scrollbar for amSerialChart and amXYChart charts.

Details

Run `api("ChartScrollbar")` for more information and all available properties.

Slots

`enabled` logical. Specifies if the chart should be updated while dragging/resizing the scrollbar or only at the moment when user releases mouse button.

`graph` list. Specifies which graph properties will be displayed in the scrollbar. Only Serial chart's scrollbar can display a graph.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric.

Author(s)

datastorm-open

controlShinyPlot	<i>Tests the class of an expression.</i>
------------------	--

Description

Only used in 'renderAmCharts'.

Usage

```
controlShinyPlot(x)
```

Arguments

x expression passed to 'renderAmCharts'. Either an expression that generates an HTML widget, or an expression that generates an AmChart.

Details

This function has only an internal purpose. Never use it.

DataSet-class	<i>DataSet class</i>
---------------	----------------------

Description

DataSet is an object which holds all information about data for [AmStockChart](#)

Details

Run `api("DataSet")` for more information.

Slots

`dataProvider` list, the data set data. Important: the data sets need to come pre-ordered in ascending order. Data with incorrect order might result in visual and functional glitches on the chart.

`fieldMappings` list, field mappings. Field mapping is an object with `fromField` and `toField` properties. `fromField` is the name of your value field in `dataProvider`. `toField` might be chosen freely, it will be used to set value/open/close/high/low fields for the StockChart. Example: `fromField:"val1", toField:"value"`.

`stockEvents` list of [StockEvent](#).

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

DataSetSelector-class *DataSetSelector class*

Description

DataSetSelector is a tool used to select data sets as main and to compare to main data set.

Details

Run `api("DataSetSelector")` for more information and all available properties.

Slots

`position` character. Possible values: "right", "left", "top", "bottom". "top" and "bottom" positions has a limitation - only one data set can be selected for comparing.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

`data_AirPassengers` *Air passengers for example*

Description

Based on the dataset 'AirPassengers' from the package 'datasets'.

Usage

`data_AirPassengers`

Format

2 column, 144 rows :

AirPassengers numeric

Period character, MM/YYYY

data_bar

Random data for plotting bar chart examples

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage

data_bar

Format

Dataset of 3 columns and 12 rows

country character

visits numeric

color character

data_candleStick1

Random data for plotting candlestick chart examples

Description

This dataset is used in the tutorial, moreover if you notice a bug, use this dataset to give us an example.

Usage

data_candleStick1

Format

Dataset of 5 columns and 12 rows

category character, can be parsed as a date

open numeric

close numeric

low numeric

high numeric

data_candleStick2	<i>Random data for plotting candlestick chart examples</i>
-------------------	--

Description

This dataset is used in the tutorial, moreover if you notice a bug, use this dataset to give us an example.

Usage

data_candleStick2

Format

Dataset of 5 columns and 12 rows

category character, can be parsed as a date

open numeric

close numeric

low numeric

high numeric

data_fbar	<i>Random data for plotting floating bar chart examples</i>
-----------	---

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage

data_fbar

Format

Dataset of 2 columns and 1000 rows

country character

visits_inf numeric

visits_sup numeric

color character

`data_funnel`*Random data for plotting funnel chart examples*

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage`data_funnel`**Format**

Dataset of 2 columns and 7 rows

description character

value numeric

`data_gantt`*Random data for plotting gantt chart examples*

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage`data_gantt`**Format**

Dataset of 5 columns and 4 rows

category character

begin date

end date

color character

data_gbar	<i>Random data for plotting bar chart examples</i>
-----------	--

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage

data_gbar

Format

Dataset of 5 columns and 12 rows

year character

day character

month character

income numeric

expenses numeric

data_gdp	<i>10 Richest Countries in the World by 2015 GDP</i>
----------	--

Description

Value in \$ trillion

Usage

data_gdp

Format

Dataset of 2 columns and 10 rows

country character

gdp numeric

Source

<http://www.insidermonkey.com/blog/10-richest-countries-in-the-world-by-2015-gdp-344692/>

data_mekko

Random data for plotting mekko chart examples

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage

data_mekko

Format

Dataset of 2 columns and 1000 rows

var1 character

var2 numeric

data_pie

Random data for plotting pie chart examples

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage

data_pie

Format

Dataset of 2 columns and 5 rows

label character

value numeric

`data_radar`*Random data for plotting radar chart examples*

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage`data_radar`**Format**

Dataset of 4 columns and 5 rows

label character

Product1 numeric

Product2 numeric

Product3 numeric

`data_stock1`*Random data for example*

Description

A list containing 4 datasets.

Usage`data_stock1`**Format**

Each dataset is a `data.table` with 21 rows and 4 variables:

date vector of dates

a random vector of data

b random vector of data

data_stock_2	<i>Random data for example</i>
--------------	--------------------------------

Description

Times Series on 2015-2016, one data by hour

Usage

data_stock_2

Format

Each dataset is a data.table with 21 rows and 4 variables:

date vector of datesTimes

ts1 random vector of data

ts2 random vector of data

data_stock_3	<i>Random data for example</i>
--------------	--------------------------------

Description

Times Series on 2017, by months

Usage

data_stock_3

Format

List of 4 datasets, 4 variables in each

date vector of datesTimes

value random vector of data

volume random vector of data

value2 random vector of data

value3 random vector of data

data_waterfall	<i>Random data for plotting candlestick chart examples</i>
----------------	--

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage

```
data_waterfall
```

Format

Dataset of 3 columns and 15 rows

label character, can be parsed as a date

value numeric

operation numeric

data_wind	<i>Random data for plotting wind chart examples</i>
-----------	---

Description

This dataset is used in the examples, moreover it can be used as a reference if you notice a bug.

Usage

```
data_wind
```

Format

Dataset of 3 columns and 8 rows

weak numeric

middle numeric

strong numeric

GaugeArrow-class *GaugeArrow class*

Description

Creates an arrow for AmAngularGaugeChart, multiple can be assigned.

Details

Run `api("GaugeArrow")` for more information and all available properties.

Slots

`axis` list containing properties of [GaugeAxis](#). Axis of the arrow. You can use reference to the axis or id of the axis. If you don't set any axis, the first axis of the chart will be used.

`listeners` list containing the listeners to add to the chart. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

GaugeAxis-class *GaugeAxis class*

Description

Creates an axis for AmAngularGaugeChart, multiple can be assigned.

Details

Run `api("GaugeAxis")` for more information and all available properties.

Slots

`bands` list containing properties of one or several [GaugeBand](#) objects. Bands are used to draw color fills between specified values.

`listeners` list containing the listeners to add to the chart. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

GaugeBand-class	<i>GaugeBand class</i>
-----------------	------------------------

Description

Creates a band for a specified value range on the GaugeAxis. Multiple bands can be assigned to a single GaugeAxis.

Details

Run api("GaugeBand") for more information and all available properties.

Slots

`id` character. Unique id of a band.

`listeners` list containing the listeners to add to the chart. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

Generics functions	<i>General shared generic methods</i>
--------------------	---------------------------------------

Description

These methods are shared by at least two different classes

Usage

```
setBalloon(.Object, amBalloon = NULL, ...)
```

```
setDataProvider(.Object, dataProvider, keepNA = TRUE)
```

```
setTitle(.Object, title)
```

```
setType(.Object, type)
```

```
setGraph(.Object, graph = NULL, ...)
```

```
addGuide(.Object, guide = NULL, ...)
```

```
setText(.Object, text)
```

```
setValueAxis(.Object, valueAxis = NULL, ...)
```

Arguments

.Object	AmObject .
amBalloon	AmBalloon .
...	Other properties.
dataProvider	data.frame.
keepNA	logical, default set to TRUE. Indicates if NULL values have to be kept or ignored.
title	character.
type	character.
graph	AmGraph .
guide	Guide .
text	character.
valueAxis	ValueAxis .

Details

Be cautious when using one of these functions since they have several signatures (S4).

setBalloon is shared by AmChart and AmStockChart.

setDataProvider(..) is shared by AmGraph and DataSet.

setTitle(...) is Shared by AmGraph and ValueAxis.

setType(...) is shared by AmGraph and AmChart.

setGraph(...) is shared by AmChart and ChartScrollbar.

addGuide(...) is shared by AxisBase and AmChart.

setText(...) is shared by Title and Label.

setValueAxis(...) is shared by AmChart(type = "gantt"), TrendLine and Guide.

Value

An updated 'AmObject'.

getCurrentStockData *Get data in shiny module*

Description

Get data in shiny module

Usage

```
getCurrentStockData(data, col_date, col_series, zoom = NULL,
  maxPoints = 1000, tz = "UTC", ts = c("5 min", "10 min", "30 min",
  "hour", "3 hour", "12 hour", "day", "week", "month", "year"),
  fun_aggr = "mean", treat_missing = FALSE, maxgap = Inf,
  type_aggr = "first")
```

Arguments

data : data.frame to transform

col_date : Date column name, default to "date". Must be "POSIXct" or "CET24" column

col_series : Column name of quantitative variable(s) to be transformed. Default to `setdiff(colnames(data), "date")`

zoom : List for init subset. NULL to keep all

maxPoints : Maximal number of rows in results

tz : Timezone of result. Default to "UTC".

ts : Increment of the sequence. Default to "10 min". Can be a number, in seconds, or a character string containing one of "min", "hour", "day". This can optionally be preceded by a positive integer and a space

fun_aggr : Aggregation function to use ("min", "max", "sum", "mean", "first", "last"). Default to "mean".

treat_missing : Boolean. Default to FALSE Whether or not to interpolate missing values ? see `na.approx`

maxgap : When interpolate missing values with `na.approx`. Maximum number of consecutive NAs to fill. Default to Inf.

type_aggr : Character. Type of aggregation

- "first" : Date/Time result is equal to minimum of sequence, and this minimum is included in aggregation
- "last" : Date/Time result is equal to maximum of sequence, and this maximum is included in aggregation

getTransformTS *Transform quantitative variables.*

Description

Transform quantitative variables. Aggregate or interpolate time series data.

Usage

```
getTransformTS(data, col_date = "date",
               col_series = setdiff(colnames(data), col_date), ts = "10 min",
               tz = "UTC", fun_aggr = "mean", treat_missing = FALSE,
               control_date = TRUE, maxgap = Inf, keep_last = TRUE,
               type_aggr = "first", showwarn = FALSE)
```

Arguments

data	: data.frame to transform
col_date	: Date column name, default to "date". Must be "POSIXct"
col_series	: Column name of quantitative variable(s) to be transformed. Default to setdiff(colnames(data), "date")
ts	: Increment of the sequence. Default to "10 min". Can be a number, in seconds, or a character string containing one of "min", "hour", "day". This can optionally be preceded by a positive integer and a space
tz	: Timezone of result. Default to "UTC".
fun_aggr	: Aggregation function to use ("min", "max", "sum", "mean", "first", "last"). Default to "mean".
treat_missing	: Boolean. Default to FALSE Whether or not to interpolate missing values ? see na.approx
control_date	: Boolean. Control full data sequence ? Default to TRUE and set to TRUE if treat_missing
maxgap	: When interpolate missing values with na.approx. Maximum number of consecutive NAs to fill. Default to Inf.
keep_last	: Boolean. Keep last date/time value after interpolation ?
type_aggr	: Character. Type of aggregation <ul style="list-style-type: none"> • "first" : Date/Time result is equal to minimum of sequence, and this minimum is included in aggregation • "last" : Date/Time result is equal to maximum of sequence, and this maximum is included in aggregation
showwarn	: Boolean. Show warnings ?

Value

a data.frame

 Guide-class

Guide class

Description

Creates a horizontal/vertical guideline-/area for `amSerialChart`, `amXYChart` and `amRadarChart` charts, automatically adapts it's settings from the axes if none has been specified.

Details

Run `api("Guide")` for more information and all available properties.

Slots

`fillAlpha` numeric. Specifies if a grid line is placed on the center of a cell or on the beginning of a cell. Possible values are: "start" and "middle" This setting doesn't work if `parseDates` is set to `TRUE`.

`valueAxis` [ValueAxis](#). As you can add guides directly to the chart, you might need to specify which value axis should be used.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.
`value` numeric.

Author(s)

datastorm-open

 initialize,AmBalloon-method

Initializes an AmBalloon

Description

Initializes or updates an object [AmBalloon](#).

Usage

```
## S4 method for signature 'AmBalloon'
initialize(Object, adjustBorderColor, color,
  cornerRadius, fillColor, ...)
```

```
amBalloon(adjustBorderColor, color, cornerRadius, fillColor, ...)
```

```

setAdjustBorderColor(.Object, adjustBorderColor)

## S4 method for signature 'AmBalloon,logical'
setAdjustBorderColor(.Object,
  adjustBorderColor)

setColor(.Object, color)

## S4 method for signature 'AmBalloon,character'
setColor(.Object, color)

setCornerRadius(.Object, cornerRadius)

## S4 method for signature 'AmBalloon,numeric'
setCornerRadius(.Object, cornerRadius)

setFillColor(.Object, fillColor)

## S4 method for signature 'AmBalloon,character'
setFillColor(.Object, fillColor)

```

Arguments

.Object	AmBalloon .
adjustBorderColor	logical, if TRUE, border color will be changed when user rolls-over the slice, graph, etc, instead of background color.
color	character, balloon text color.
cornerRadius	numeric, balloon corner radius.
fillColor	character, balloon background color. It is usually defined by the chart itself. If "adjustBorderColor" is set to TRUE, the balloon background color will be equal to "fillColor".
...	other properties of AmBalloon. See http://docs.amcharts.com/3/javascriptcharts/AmBalloon .

Value

An object, possibly updated, of class [AmBalloon](#).

Examples

```

new("AmBalloon", cornerRadius = 10)

amBalloon(adjustBorderColor = TRUE, color = "#000000", other = TRUE)

setAdjustBorderColor(.Object = amBalloon(), adjustBorderColor = TRUE)

```

```
setColor(.Object = amBalloon(), color = "#000000")
setCornerRadius(.Object = amBalloon(), cornerRadius = 5)
setFillColor(.Object = amBalloon(), fillColor = "#FFFFFF")
```

initialize,AmChart-method

Creates an AmChart

Description

Method to initialize any S4 class provided by the package.

Usage

```
## S4 method for signature 'AmChart'
initialize(.Object, allLabels, arrows, axes, balloon,
  categoryAxis, categoryField, chartCursor, chartScrollbar,
  creditsPosition, dataProvider, graphs, graph, guides, legend,
  segmentsField, theme, titles, trendLines, type, valueAxes, valueAxis,
  valueScrollbar, ...)

amChart(allLabels, arrows, axes, balloon, categoryAxis, categoryField,
  chartCursor, chartScrollbar, creditsPosition, dataProvider, graph,
  graphs, guides, legend, segmentsField, theme, titles, trendLines, type,
  valueAxes, valueAxis, ...)

amAngularGaugeChart(arrows, titles, axes, ...)

amFunnelChart(dataProvider, marginLeft = 10, marginRight = 10, ...)

amRadarChart(allLabels, balloon, categoryField, creditsPosition,
  dataProvider, graphs, guides, legend, titles, valueAxes, ...)

amSerialChart(allLabels, balloon, categoryAxis, categoryField, chartCursor,
  chartScrollbar, creditsPosition, dataProvider, graphs, guides, legend,
  titles, trendLines, valueAxes, ...)

amPieChart(allLabels, balloon, creditsPosition, dataProvider, legend,
  titles, ...)

amGanttChart(categoryField, dataProvider, graph, segmentsField, valueAxis,
  ...)

amXYChart(creditsPosition, dataProvider, graphs, ...)
```

```
setAllLabels(.Object, allLabels)

## S4 method for signature 'AmChart,list'
setAllLabels(.Object, allLabels)

addLabel(.Object, label = NULL, ...)

## S4 method for signature 'AmChart,LabelOrMissing'
addLabel(.Object, label = NULL, ...)

setArrows(.Object, arrows = NULL)

## S4 method for signature 'AmChart'
setArrows(.Object, arrows = NULL)

addArrow(.Object, arrow = NULL, ...)

## S4 method for signature 'AmChart,GaugeArrowOrMissing'
addArrow(.Object, arrow = NULL,
  ...)

setAxes(.Object, axes, ...)

## S4 method for signature 'AmChart,list'
setAxes(.Object, axes)

addAxe(.Object, axe = NULL, ...)

## S4 method for signature 'AmChart,GaugeAxisOrMissing'
addAxe(.Object, axe = NULL, ...)

addAxis(.Object, axis = NULL, ...)

## S4 method for signature 'AmChart,GaugeAxisOrMissing'
addAxis(.Object, axis = NULL, ...)

## S4 method for signature 'AmChart,AmBalloonOrMissing'
setBalloon(.Object,
  amBalloon = NULL, ...)

setCategoryAxis(.Object, categoryAxis = NULL, ...)

## S4 method for signature 'AmChart'
setCategoryAxis(.Object, categoryAxis = NULL, ...)

setCategoryField(.Object, categoryField)
```

```
## S4 method for signature 'AmChart,character'  
setCategoryField(.Object, categoryField)  
  
setChartCursor(.Object, chartCursor = NULL, ...)  
  
## S4 method for signature 'AmChart,ChartCursorOrMissing'  
setChartCursor(.Object,  
  chartCursor = NULL, ...)  
  
setChartScrollbar(.Object, chartScrollbar = NULL, ...)  
  
## S4 method for signature 'AmChart,ChartScrollbarOrMissing'  
setChartScrollbar(.Object,  
  chartScrollbar = NULL, ...)  
  
setCreditsPosition(.Object, creditsPosition)  
  
## S4 method for signature 'AmChart,character'  
setCreditsPosition(.Object, creditsPosition)  
  
setDataLoader(.Object, url, format, ...)  
  
## S4 method for signature 'AmChart,character,character'  
setDataLoader(.Object, url, format,  
  ...)  
  
## S4 method for signature 'AmChart,ANY,logicalOrMissing'  
setDataProvider(.Object,  
  dataProvider, keepNA = TRUE)  
  
setGraphs(.Object, graphs)  
  
## S4 method for signature 'AmChart,list'  
setGraphs(.Object, graphs)  
  
addGraph(.Object, amGraph = NULL, ...)  
  
## S4 method for signature 'AmChart,AmGraphOrMissing'  
addGraph(.Object, amGraph = NULL,  
  ...)  
  
## S4 method for signature 'AmChart,AmGraphOrMissing'  
setGraph(.Object, graph = NULL, ...)  
  
setGuides(.Object, guides)  
  
## S4 method for signature 'AmChart,list'  
setGuides(.Object, guides)
```

```
## S4 method for signature 'AmChart,GuideOrMissing'
addGuide(.Object, guide = NULL, ...)

setLegend(.Object, amLegend = NULL, ...)

## S4 method for signature 'AmChart,AmLegendOrMissing'
setLegend(.Object, amLegend = NULL,
  ...)

addSegment(.Object, categoryIDs, sgts)

## S4 method for signature 'AmChart,numeric'
addSegment(.Object, categoryIDs, sgts)

addSubData(.Object, categoryIDs, data)

## S4 method for signature 'AmChart,numeric'
addSubData(.Object, categoryIDs, data)

setSubChartProperties(.Object, .subObject = NULL, ...)

## S4 method for signature 'AmChart'
setSubChartProperties(.Object, .subObject = NULL,
  ...)

setTheme(.Object, theme)

## S4 method for signature 'AmChart,character'
setTheme(.Object, theme)

setTitles(.Object, titles)

## S4 method for signature 'AmChart,list'
setTitles(.Object, titles)

addTitle(.Object, title = NULL, ...)

## S4 method for signature 'AmChart,TitleOrMissing'
addTitle(.Object, title = NULL, ...)

setTrendLines(.Object, trendLines)

## S4 method for signature 'AmChart,list'
setTrendLines(.Object, trendLines)

addTrendLine(.Object, trendLine = NULL, ...)
```

```

## S4 method for signature 'AmChart,TrendLineOrMissing'
addTrendLine(.Object,
  trendLine = NULL, ...)

## S4 method for signature 'AmChart,character'
setType(.Object, type)

setValueAxes(.Object, valueAxes)

## S4 method for signature 'AmChart,list'
setValueAxes(.Object, valueAxes)

addValueAxes(.Object, valueAxis = NULL, ...)

## S4 method for signature 'AmChart,ValueAxisOrMissing'
addValueAxes(.Object,
  valueAxis = NULL, ...)

addValueAxis(.Object, valueAxis = NULL, ...)

## S4 method for signature 'AmChart,ValueAxisOrMissing'
addValueAxis(.Object,
  valueAxis = NULL, ...)

## S4 method for signature 'AmChart,ValueAxisOrMissing'
setValueAxis(.Object,
  valueAxis = NULL, ...)

setValueScrollbar(.Object, valueScrollbar, ...)

## S4 method for signature 'AmChart,ChartScrollbarOrMissing'
setValueScrollbar(.Object,
  valueScrollbar, ...)

```

Arguments

.Object	AmChart .
allLabels	list of Label . Example of a label object, with all possible properties: label(x = 20, y = 20, text = "this is a label", align = "left", size = 12, color = "#CC0000", alpha = 1, rotation = 0, bold = TRUE, url = "http://www.amcharts.com"). Run <code>api("Label")</code> for more informations.
arrows	list of GaugeArrow . Only valid for gauge charts. Run <code>api("GaugeArrow")</code> for more informations.
axes	list of GaugeAxis properties. Only valid for gauge charts. Run <code>api("GaugeAxis")</code> for more informations.
balloon	AmBalloon . Creates the balloons (tooltips) of the chart. It follows the mouse cursor when you roll-over the data items. The framework automatically gen-

	erates the instances you just have to adjust the appearance to your needs. Run <code>api("AmBalloon")</code> for more informations.
categoryAxis	CategoryAxis . Read-only. Chart creates category axis itself. If you want to change some properties, you should get this axis from the chart and set properties to this object. Run <code>api("CategoryAxis")</code> for more informations.
categoryField	character, category field name indicates the name of the field in your <code>dataProvider</code> object which will be used for category axis values.
chartCursor	ChartCursor . Chart's cursor. Run <code>api("ChartCursor")</code> for more informations.
chartScrollbar	ChartScrollbar . Chart's scrollbar. Run <code>api("ChartScrollbar")</code> for more informations.
creditsPosition	character, specifies position of the <code>amCharts</code> ' website link. Allowed values are: "top-left", "top-right", "bottom-left" and "bottom-right".
dataProvider	<code>data.frame</code> , containing the data.
graphs	list of AmGraph . Creates the visualization of the data in following types: line, column, step line, smoothed line, olhc and candlestick. Run <code>api("AmGraph")</code> for more informations.
graph	AmGraph . Only valid for Gantt charts. Gant chart actually creates multiple graphs (separate for each segment). Properties of this graph are passed to each of the created graphs - this allows you to control the look of segments. Run <code>api("AmGraph")</code> for more informations.
guides	list of Guide . Instead of adding guides to the axes, you can push all of them to this array. In case guide has category or date defined, it will automatically be assigned to the category axis, otherwise to the first value axis, unless you specify a different <code>valueAxes</code> for the guide. Run <code>api("Guide")</code> for more informations.
legend	AmLegend . Legend of a chart. Run <code>api("AmLegend")</code> for more informations.
segmentsField	character, segments field in your data provider. Only valid for Gantt Charts.
theme	character, theme of a chart. Config files of themes can be found in <code>amcharts/themes/</code> folder. See http://www.amcharts.com/tutorials/working-with-themes/ .
titles	list of Title . Run <code>api("Title")</code> for more informations.
trendLines	list of TrendLine objects added to the chart. You can add trend lines to a chart using this list or access already existing trend lines. Run <code>api("TrendLine")</code> for more informations.
type	character, possible types are: "serial", "pie", "radar", "xy", "radar", "funnel", "gauge", "stock". See details about using argument type. (type map is in development).
valueAxes	list of ValueAxis . Chart creates one value axis automatically, so if you need only one value axis, you don't need to create it. Run <code>api("ValueAxis")</code> for more informations.
valueAxis	ValueAxis . Only valid for Gantt Charts. Set it's type to "date" if your data is date or time based. Run <code>api("ValueAxis")</code> for more informations.
valueScrollbar	ChartScrollbar . Value scrollbar, enables scrolling value axes.

...	In case of constructor <code>new("AmChart")</code> or <code>amChart()</code> Dots represent other properties to set to the AmChart object. See http://docs.amcharts.com/3/javascriptstockchart/AmChart . In case of setters, dots represent properties of the object to add. See examples.
<code>marginLeft</code>	character, left margin of the chart.
<code>marginRight</code>	character, right margin of the chart.
<code>label</code>	(optional) Label . Argument of method <code>addLabel</code> .
<code>arrow</code>	(optional) GaugeArrow . Argument of method <code>addArrow</code> .
<code>axe</code>	(optional) GaugeAxis . Argument of deprecated method <code>addAxe</code> .
<code>axis</code>	(optional) GaugeAxis . same as <code>axe</code> .
<code>amBalloon</code>	AmBalloon , argument of method <code>'setBalloon'</code> .
<code>url</code>	character.
<code>format</code>	character.
<code>keepNA</code>	object of class <code>logical</code> , default <code>TRUE</code> . Indicates if <code>NULL</code> values have to be kept or ignored.
<code>amGraph</code>	(optional) AmGraph .
<code>guide</code>	(optional) Guide . Argument of method <code>addGuide</code> .
<code>amLegend</code>	(optional) AmLegend .
<code>categoryIDs</code>	numeric, see details.
<code>sgts</code>	<code>data.frame</code> (or list of <code>data.frame</code> for multiple add).
<code>data</code>	<code>data.frame</code> . Data to draw at the second level, after clicking on the column.
<code>.subObject</code>	AmChart .
<code>title</code>	(optional) Title , argument of method <code>addTitle</code> .
<code>trendLine</code>	(optional) TrendLine . Argument of method <code>addTrendLine</code> .

Details

`amAngularGaugeChart` is a shortcut for instantiating `AmChart` of type `gauge`.

`amFunnelChart` is a shortcut for instantiating `AmChart` of type `funnel`.

`amRadarChart` is a shortcut for instantiating `AmChart` of type `radar`.

`amSerialChart` is a shortcut constructor for instantiating `AmChart` of type `serial`.

`amPieChart` is a shortcut constructor for instantiating `AmChart` of type `pie`.

`amGanttChart` is a constructor for instantiating `AmChart` of type `gantt`.

`amXYChart` is a shortcut constructor for instantiating `AmChart` of type `xy`.

Method `'addAxe'` is deprecated, use `'addAxis'`.

Method `setGraph` is only valid for Gantt Charts.

`'addSubData'` allows to add subdata for a chart with drilldown. In this case, `categoryIDs` indicates corresponding indice(s) of the `dataProvider` where to add the data.

For method `addValueAxis`: `valueAxis` is optional. Method `addValueAxes` is deprecated.

Method `setValueAxis` is only valid for Gantt charts.

Value

(updated) [AmChart](#) with given properties.

See Also

Refer to <http://docs.amcharts.com/3/javascriptcharts/>.

Examples

```
new("AmChart", valueField = "value", theme = "patterns")

amChart(type = "pie")

amAngularGaugeChart()

amFunnelChart(marginLeft = 15)

amRadarChart()

amSerialChart(creditsPosition = "top-right")

amPieChart()

amGanttChart(segmentsField = "segments")

amXYChart()

allLabels <- list(label(text = "balloonText"), label(text = "column"))
amSerialChart(allLabels = allLabels)

# ---

addLabel(.Object = amSerialChart(), text = "balloonText")
# equivalent to:
label_obj <- label(text = "balloonText")
addLabel(.Object = amSerialChart(), label = label_obj)

# ---

arrows_ls <- list(gaugeArrow(value = 130), gaugeArrow(value = 150))
amAngularGaugeChart(arrows = arrows_ls)

# ---
```

```

chart <- addArrow(.Object = amAngularGaugeChart(), value = 10); print(chart)
# equivalent to:
gaugeArrow_obj <- gaugeArrow(value = 10)
addArrow(.Object = amAngularGaugeChart(), arrow = gaugeArrow_obj)

# ---

axes_ls <- list(gaugeAxis(value = 130), gaugeAxis(value = 150))
setAxes(.Object = amAngularGaugeChart(), axes = axes_ls)
# If possible, simplify your code by using the constructor:
amAngularGaugeChart(axes = axes_ls)

# ---

addAxis(.Object = amAngularGaugeChart(), startValue = 0, endValue = 100, valueInterval = 10)
# equivalent to:
gaugeAxis_obj <- gaugeAxis(startValue = 0, enValue = 100, valueInterval = 10)
addAxis(.Object = amAngularGaugeChart(), axis = gaugeAxis_obj)

# ---

setBalloon(.Object = amSerialChart(), adjustBorderColor = TRUE, fillColor = "#FFFFFF",
           color = "#000000", cornerRadius = 5)
# equivalent to:
amBalloon_obj <- amBalloon(adjustBorderColor = TRUE, fillColor = "#FFFFFF",
                          color = "#000000", cornerRadius = 5)
setBalloon(.Object = amSerialChart(), amBalloon = amBalloon_obj)

# ---

setCategoryAxis(.Object = amSerialChart(), gridPosition = "start")
# equivalent to:
categoryAxis_obj <- categoryAxis(gridPosition = "start")
setCategoryAxis(.Object = amSerialChart(), categoryAxis = categoryAxis_obj)

# ---

setCategoryField(.Object = amSerialChart(), categoryField = "country")
# ---

# with default value, no argument needed
setChartCursor(.Object = amSerialChart())
# other example
setChartCursor(.Object = amSerialChart(), oneBallOnly = TRUE)
# equivalent to
chartCursor_obj <- chartCursor(oneBallOnly = TRUE)
setChartCursor(.Object = amSerialChart(), chartCursor = chartCursor_obj)

# ---

# Add the default scrollbar
setChartScrollbar(.Object = amSerialChart())
# equivalent to:

```

```

chartScrollbar_obj <- chartScrollbar(updateOnReleaseOnly = FALSE)
setChartScrollbar(.Object = amSerialChart(), chartScrollbar = chartScrollbar_obj)

# ---

setCreditsPosition(.Object = amPieChart(), creditsPosition = "top-right")

# ---

setDataLoader(.Object = amSerialChart(), url = "data.json", format = "json")

# ---

dataProvider_obj <- data.frame(key = c("FR", "US", "GER", "ENG", "IT" ),
                              value = round(runif(5, max = 100)))
setDataProvider(.Object = amPieChart(), dataProvider = dataProvider_obj)

# ---

graphs_ls <- list(graph(balloonText = "balloonText"), graph(type = "column"))
setGraphs(.Object = amSerialChart(), graphs = graphs_ls)

# ---

addGraph(.Object = amSerialChart(), balloonText = "balloonText", "type" = "column")
# equivalent to
amGraph_obj <- amGraph(balloonText = "balloonText", "type" = "column")
addGraph(.Object = amSerialChart(), amGraph = amGraph_obj)

# ---

print(setGraph(.Object = amGanttChart(), id = "amGraph-1"))
# equivalent to:
amGraph_obj <- amGraph(id = "amGraph-1")
setGraph(.Object = amGanttChart(), amGraph = amGraph_obj)

# ---

guides_ls <- list(guide(fillAlpha = .1), guide(fillAlpha = .5))
amSerialChart(guides = guides_ls)

# ---

chart <- addGuide(.Object = amSerialChart(), fillAlpha = .1, value = 0, toValue = 10)
print(chart)
# equivalent to
guide_obj <- guide(fillAlpha = .1, value = 0, toValue = 10, valueAxis = "1")
addGuide(.Object = amSerialChart(), guide = guide_obj)

setLegend(.Object = amChart(), amLegend = amLegend(useGraphSettings = TRUE))
# equivalent to:
setLegend(.Object = amChart(), useGraphSettings = TRUE)

```

```

# ---

pipeR::pipeline(
  amGanttChart(segmentsField = "segments"),
  setDataProvider(data.frame(category = c("John", "Julia"))),
  addSegment(1, data.frame(start = 7, duration = 2:3, task = c("Task #1", "Task #2"))),
  addSegment(2, data.frame(start = 10, duration = 2:3, task = c("Task #1", "Task #2")))
)
# ---
ls <- list(data.frame(start = 7, duration = 2:3, task = c("Task #1", "Task #2")),
           data.frame(start = 10, duration = 2:3, task = c("Task #1", "Task #2")))
pipeR::pipeline(
  amGanttChart(segmentsField = "segments"),
  setDataProvider(data.frame(category = c("John", "Julia"))),
  addSegment(1:2, ls)
)

# ---

amChart_obj <- amChart(dataProvider = data.frame(a = 1:5, b = 6:10))
addSubData(.Object = amChart_obj, categoryIDs = 3, data = data.frame(a = 1:10, b = 11:20))

# ---

setSubChartProperties(.Object = amSerialChart(), type = "serial")

# ---

setTheme(.Object = amPieChart(), theme = "dark")

# ---

titles_ls <- list(amTitle(text = "balloonText"), amTitle(text = "column"))
setTitles(.Object = amXYChart(), titles = titles_ls)
# or...
amXYChart(titles = titles_ls)

# ---

addTitle(.Object = amPieChart(), text = "balloonText", size = 15)
# equivalent to
title_obj <- amTitle(text = "balloonText", size = 15)
addTitle(.Object = amPieChart(), title = title_obj)

# ---

trendLines <- list(trendLine(initialValue = 1, finalValue = 5),
                  trendLine(initialValue = 7, finalValue = 19))
setTrendLines(.Object = amSerialChart(), trendLines = trendLines)
# or...
amSerialChart(trendLines = trendLines) # Equivalent

```

```

# ---

addTrendLine(.Object = amSerialChart(), initialValue = 1, initialXValue = 1,
             finalValue = 11, finalXValue = 12)
# equivalent to:
trendLine_obj <- trendLine(initialValue = 1, initialXValue = 1, finalValue = 11, finalXValue = 12)
chart <- addTrendLine(.Object = amSerialChart(), trendLine = trendLine_obj); print(chart)

# ---

setType(.Object = amChart(), type = "pie")
# equivalent to:
amPieChart()

valueAxes <- list(valueAxis(axisTitleOffset = 12, tickLength = 10),
                 valueAxis(axisTitleOffset = 10, tickLength = 10))
setValueAxes(.Object = amSerialChart(), valueAxes = valueAxes)
# or...
amSerialChart(valueAxes = valueAxes)

# ---

print(addValueAxis(.Object = amSerialChart(), axisTitleOffset = 12, tickLength = 10, title = "foo"))
# equivalent to:
valueAxis_obj <- valueAxis(axisTitleOffset = 12, tickLength = 10, title = "foo")
addValueAxis(.Object = amSerialChart(), valueAxis = valueAxis_obj)

# ---

setValueAxis(.Object = amGanttChart())
setValueAxis(.Object = amGanttChart(), type = "date")

valueScrollbar_obj <- chartScrollbar(updateOnReleaseOnly = FALSE)
chart <- setValueScrollbar(.Object = amSerialChart(), valueScrollbar = valueScrollbar_obj)
print(chart)
# or...
amSerialChart(updateOnReleaseOnly = FALSE)

# ---

```

```
initialize,AmGraph-method
```

Initializes an AmGraph

Description

To create an AmGraph, you can use the usual method `Initialize` or the constructor. You can update properties with setters.

Usage

```

## S4 method for signature 'AmGraph'
initialize(.Object, animationPlayed = FALSE,
  balloonText, title, type, valueField, ...)

amGraph(animationPlayed = FALSE, balloonText, title, type, valueField,
  ...)

graph(animationPlayed = FALSE, balloonText, title, type, valueField, ...)

setBalloonText(.Object, balloonText)

## S4 method for signature 'AmGraph,character'
setBalloonText(.Object, balloonText)

## S4 method for signature 'AmGraph,character'
setTitle(.Object, title)

## S4 method for signature 'AmGraph,character'
setType(.Object, type)

setValueField(.Object, valueField)

## S4 method for signature 'AmGraph,character'
setValueField(.Object, valueField)

```

Arguments

.Object	AmGraph .
animationPlayed	logical.
balloonText	character, balloon text. You can use tags like <code>[[value]]</code> , <code>[[description]]</code> , <code>[[percents]]</code> , <code>[[open]]</code> , <code>[[category]]</code> or any other field name from your data provider. HTML tags can also be used.
title	character, graph title.
type	character, type of the graph. Possible values are: "line", "column", "step", "smoothedLine", "candlestick", "ohlc". XY and Radar charts can only display "line" otherArguments graphs.
valueField	character, name of the value field in your dataProvider.
...	other properties of AmGraph. See http://docs.amcharts.com/3/javascriptcharts/AmGraph .

Value

An object of class [AmGraph](#) with the given properties.

Examples

```

# --- method 'initialize'
new("AmGraph", valueField = "value")

# constructor
amGraph(balloonText = "My text")
## Not run:
amGraph(balloonText = "balloonText", "type" = "column", title = "myGraph!",
        valueField = "value", animationPlayed = TRUE, other = TRUE)

## End(Not run)
amGraph(balloonText = "some text")
# --- shortcut constructor
graph(balloonText = "balloonText", "type" = "column",
      valueField = "value", animationPlayed = TRUE)

# --- update 'balloonText'
setBalloonText(.Object = amGraph(), balloonText = "performance")

# --- update 'title'
setTitle(.Object = amGraph(), title = "Power")

# --- update 'type'
setType(.Object = amGraph(), type = "type")

# --- update valueField
setValueField(.Object = amGraph(), valueField = "score")

```

```
initialize,AmLegend-method
```

Initializes legend of the chart

Description

Constructor for an AmLegend.

Usage

```

## S4 method for signature 'AmLegend'
initialize(.Object, useGraphSettings, ...)

amLegend(useGraphSettings, ...)

legend(useGraphSettings, ...)

setUseGraphSettings(.Object, useGraphSettings)

## S4 method for signature 'AmLegend,logical'
setUseGraphSettings(.Object, useGraphSettings)

```

Arguments

.Object [AmLegend](#).
 useGraphSettings logical, if TRUE, border color will be changed when user rolls-over the slice, graph, etc, instead of background color.
 ... Other properties of [AmLegend](#). See <http://docs.amcharts.com/3/javascriptstockchart/AmLegend>.

Examples

```
new("AmLegend", useGraphSettings = TRUE)
amLegend(useGraphSettings = FALSE)
rAmCharts:::legend(useGraphSettings = FALSE)
setUseGraphSettings(.Object = amLegend(), useGraphSettings = TRUE)
```

```
initialize,AmStockChart-method
                                  Initializes an AmStockChart
```

Description

Method to initialize any S4 class provided by the package.

Usage

```
## S4 method for signature 'AmStockChart'
initialize(.Object, balloon, comparedDataSets,
          dataSets, dataSetSelector, mainDataSet, panels, periodSelector, theme,
          group, is_ts_module, ...)

amStockChart(balloon, comparedDataSets, dataSets, dataSetSelector,
             mainDataSet, panels, periodSelector, theme, group, is_ts_module, ...)

## S4 method for signature 'AmStockChart,AmBalloonOrMissing'
setBalloon(.Object,
           amBalloon = NULL, ...)

setCategoryAxesSettings(.Object, ...)

## S4 method for signature 'AmStockChart'
setCategoryAxesSettings(.Object, ...)

setChartCursorSettings(.Object, ...)

## S4 method for signature 'AmStockChart'
setChartCursorSettings(.Object, ...)
```

```
setChartScrollbarSettings(.Object, chartScrollbarSettings = NULL, ...)  
  
## S4 method for signature 'AmStockChart,ChartScrollbarOrMissing'  
setChartScrollbarSettings(.Object,  
  chartScrollbarSettings = NULL, ...)  
  
setComparedDataSets(.Object, comparedDataSets)  
  
## S4 method for signature 'AmStockChart'  
setComparedDataSets(.Object, comparedDataSets)  
  
addComparedDataSet(.Object, dataSet = NULL, ...)  
  
## S4 method for signature 'AmStockChart,DataSetOrMissing'  
addComparedDataSet(.Object,  
  dataSet = NULL, ...)  
  
setDataSets(.Object, dataSets)  
  
## S4 method for signature 'AmStockChart'  
setDataSets(.Object, dataSets)  
  
addDataSet(.Object, dataSet = NULL, ...)  
  
## S4 method for signature 'AmStockChart,DataSetOrMissing'  
addDataSet(.Object,  
  dataSet = NULL, ...)  
  
setDataSetSelector(.Object, dataSetSelector = NULL, ...)  
  
## S4 method for signature 'AmStockChart'  
setDataSetSelector(.Object,  
  dataSetSelector = NULL, ...)  
  
setLegendSettings(.Object, ...)  
  
## S4 method for signature 'AmStockChart'  
setLegendSettings(.Object, ...)  
  
setMainDataSet(.Object, dataSet = NULL, ...)  
  
## S4 method for signature 'AmStockChart,DataSetOrMissing'  
setMainDataSet(.Object,  
  dataSet = NULL, ...)  
  
setPanels(.Object, panels)
```

```

## S4 method for signature 'AmStockChart,list'
setPanels(.Object, panels)

addPanel(.Object, panel = NULL, ...)

## S4 method for signature 'AmStockChart,StockPanelOrMissing'
addPanel(.Object,
  panel = NULL, ...)

setPanelsSettings(.Object, ...)

## S4 method for signature 'AmStockChart'
setPanelsSettings(.Object, ...)

setPeriodSelector(.Object, periodSelector = NULL, ...)

## S4 method for signature 'AmStockChart,PeriodSelectorOrMissing'
setPeriodSelector(.Object,
  periodSelector = NULL, ...)

setStockEventsSettings(.Object, ...)

## S4 method for signature 'AmStockChart'
setStockEventsSettings(.Object, ...)

setValueAxesSettings(.Object, ...)

## S4 method for signature 'AmStockChart'
setValueAxesSettings(.Object, ...)

```

Arguments

.Object	AmStockChart .
balloon	AmBalloon .
comparedDataSets	list of DataSet . Properties of data sets selected for comparing.
dataSets	list of DataSet . Each element must be a list of DataSet properties.
dataSetSelector	list of DataSetSelector . You can add it if you have more than one data set and want users to be able to select/compare them.
mainDataSet	DataSet . Data set selected as main.
panels	list of StockPanel .
periodSelector	PeriodSelector . You can add it if you want user's to be able to enter date ranges or zoom chart with predefined period buttons.
theme	character.

group	character for synchronization
is_ts_module	boolean. Don't use. For rAmChartsTimeSeriesUI
...	other properties of AmStockChart.
amBalloon	AmBalloon . Argument for method setBalloon.
chartScrollbarSettings	ChartScrollbar . If you change a property after the chart is initialized, you should call <code>stockChart.validateNow()</code> method in order for it to work. If there is no default value specified, default value of ChartScrollbar class will be used.
dataSet	DataSet .
panel	StockPanel .

Details

CategoryAxesSettings sets common settings for all CategoryAxes of StockPanels. If you change a property after the chart is initialized, you should call `stockChart.validateNow()` method. If there is no specified value, default value of CategoryAxis class will be used. you should get this axis from the chart and set properties to this object.

ChartCursorSettings sets settings for chart cursor. If you change a property after the chart is initialized, you should call `stockChart.validateNow()` method. If there is no specified value, default value of ChartCursor class will be used.

You can add it if you have more than one data set and want users to be able to select/compare them.

Value

An object of class [AmStockChart](#).

Examples

```
# --- method 'initialize'
new("AmStockChart", theme = "dark")

# --- constructor
amStockChart()

library(pipeR)

# Dummy example
amStockChart() %>>% setBalloon(gridPosition = "start")

# Dummy example
setCategoryAxesSettings(.Object = amStockChart(), gridPosition = "start")

# Dummy example
```

```
setChartCursorSettings(.Object = amStockChart(), oneBallOnly = TRUE)

# Dummy example
amchart <- setChartScrollbarSettings(.Object = amStockChart(), enabled = TRUE)
print(amchart)

# equivalent to:
chartScrollbarSettings_obj <- chartScrollbarSettings()
setChartScrollbarSettings(.Object = amStockChart(),
                          chartScrollbarSettings = chartScrollbarSettings_obj)

# Dummy example
comparedDataSets_ls <- list(dataSet(compared = TRUE), dataSet(compared = TRUE))
setComparedDataSets(.Object = amStockChart(), comparedDataSets = comparedDataSets_ls)

# Dummy example
addComparedDataSet(.Object = amStockChart(), compared = TRUE)

# Dummy example
dataSets_ls <- list(dataSet(compared = FALSE), dataSet(compared = FALSE))
setDataSets(.Object = amStockChart(), dataSets = dataSets_ls)

# Dummy example
addDataSet(.Object = amStockChart(), compared = FALSE)
# equivalent to:
dataSet_obj <- dataSet(compared = FALSE)
addDataSet(.Object = amStockChart(), dataSet = dataSet_obj)

# Dummy example
print(setDataSetSelector(.Object = amStockChart(), width = 180))

# equivalent to:
dataSetSelector_obj <- dataSetSelector(width = 180)
print(setDataSetSelector(.Object = amStockChart(),
                        dataSetSelector = dataSetSelector_obj))

# Dummy example
setLegendSettings(.Object = amStockChart(), equalWidths = TRUE)

# Dummy example
setMainDataSet(.Object = amStockChart(), showInCompare = TRUE)

# Dummy example
panels_ls <- list(stockPanel(compared = TRUE), stockPanel(compared = TRUE))
```

```

setPanels(.Object = amStockChart(), panels = panels_ls)

# Dummy example
chart <- addPanel(.Object = amStockChart(), allowTurningOff = TRUE); print(chart)
# equivalent to:
panel_obj <- panel(allowTurningOff = TRUE)
addPanel(.Object = amStockChart(), panel = panel_obj)

# Dummy example
setPanelsSettings(.Object = amStockChart(), backgroundAlpha = 0)

# Dummy example
setPeriodSelector(.Object = amStockChart(), dateFormat = "DD-MM-YYYY")

# Dummy example
setStockEventsSettings(.Object = amStockChart(), backgroundAlpha = 1)

# Dummy example
setValueAxesSettings(.Object = amStockChart(), autoGridCount = "TRUE")

```

```

initialize,CategoryAxis-method
Initializes a CategoryAxis

```

Description

Initializes or update a [CategoryAxis](#).

Usage

```

## S4 method for signature 'CategoryAxis'
initialize(.Object, gridPosition, guides, ...)

categoryAxis(gridPosition, ...)

setGridPosition(.Object, gridPosition)

## S4 method for signature 'CategoryAxis,character'
setGridPosition(.Object, gridPosition)

```

Arguments

.Object [CategoryAxis](#).

gridPosition character, specifies if a grid line is placed on the center of a cell or on the beginning of a cell. Possible values are: "start" and "middle" This setting doesn't work if parseDates is set to TRUE.

guides list of [Guide](#).

... Other properties.

Examples

```
guides <- list(guide(fillAlpha = .4, adjustBorderColor = TRUE),
              guide(fillAlpha = .4, adjustBorderColor = TRUE))
new("CategoryAxis", gridPosition = "start", gridThickness = 1, guides = guides)

new("CategoryAxis")
new("CategoryAxis", gridPosition = "start", 1) # 1 is not take into account

categoryAxis(gridPosition = "start", adjustBorderColor = TRUE)

setGridPosition(.Object = categoryAxis(), gridPosition = "start")
```

initialize,ChartCursor-method
Initializes a ChartCursor

Description

Initializes or updates a [ChartCursor](#).

Usage

```
## S4 method for signature 'ChartCursor'
initialize(.Object, oneBalloonOnly, valueLineAxis,
          ...)

chartCursor(animationDuration = 0.3, oneBalloonOnly, valueLineAxis, ...)

setOneBalloonOnly(.Object, oneBalloonOnly)

## S4 method for signature 'ChartCursor,logical'
setOneBalloonOnly(.Object, oneBalloonOnly)

setValueLineAxis(.Object, valueLineAxis = NULL, ...)

## S4 method for signature 'ChartCursor,ValueAxisOrCharacterOrMissing'
setValueLineAxis(.Object,
                 valueLineAxis = NULL, ...)
```

Arguments

.Object	ChartCursor .
oneBalloonOnly	logical, if TRUE, border color will be changed when user rolls-over the slice, graph, etc, instead of background color.
valueLineAxis	ValueAxis . If you set valueLineBalloonEnabled to TRUE, but you have more than one axis, you can use this property to indicate which axis should display balloon.
...	other properties of ChartCursor. Run : <code>api("ChartCursor")</code> for more information.
animationDuration	numeric, duration of animation of a line, in seconds.

Value

(updated) .Object of class [ChartCursor](#).

Examples

```
new("ChartCursor", oneBalloonOnly = TRUE)

chartCursor()
chartCursor(oneBalloonOnly = TRUE)

setOneBalloonOnly(.Object = chartCursor(), oneBalloonOnly = TRUE)
setValueLineAxis(.Object = chartCursor(), id = "valueAxis1",
                 title = "Hello !", axisTitleOffset = 12)
# equivalent to:
valueLineAxis_obj <- valueAxis(id = "valueAxis1", title = "Hello !", axisTitleOffset = 12)
setValueLineAxis(.Object = chartCursor(), valueLineAxis = valueLineAxis_obj)
# or iff 'valueLineAxis_obj' has already been added to the chart:
setValueLineAxis(.Object = chartCursor(), valueLineAxis = "valueAxis1")
```

```
initialize,ChartScrollbar-method
```

Initializes a ChartScrollbar

Description

ChartScrollbarSettings sets settings for chart scrollbar. If you change a property after the chart is initialized, you should call `stockChart.validateNow()` method. If there is no default value specified, default value of ChartScrollbar class will be used. Run `api("ChartScrollbarSettings")` for more informations.

Usage

```
## S4 method for signature 'ChartScrollbar'
initialize(.Object, graph, enabled, ...)

chartScrollbar(graph, enabled = TRUE, ...)

chartScrollbarSettings(graph, enabled = TRUE, ...)

## S4 method for signature 'ChartScrollbar,AmGraphOrCharacterOrMissing'
setGraph(.Object,
  graph = NULL, ...)

setEnabled(.Object, enabled)

## S4 method for signature 'ChartScrollbar,logical'
setEnabled(.Object, enabled)
```

Arguments

.Object	ChartScrollbar .
graph	AmGraph . Specifies which graph will be displayed in the scrollbar.
enabled	logical, specifies if the chart should be updated while dragging/resizing the scrollbar or only when user releases mouse button.
...	other properties of ChartScrollbar. Run : <code>api("ChartScrollbar")</code> for more information.

Examples

```
new("ChartScrollbar", graph = "g1")
new("ChartScrollbar", graph = amGraph(test = 1))
chartScrollbar()
chartScrollbar(enabled = TRUE)
chartScrollbar()
chartScrollbar(enabled = TRUE)
# chartScrollbar with default graph
setGraph(.Object = chartScrollbar())

# example with arguments
setGraph(.Object = chartScrollbar(), id = "graph1", balloonText = "performance")
# equivalent to:
graph_obj <- amGraph(id = "graph1", balloonText = "performance")
(chartScrollbar_obj <- setGraph(.Object = chartScrollbar(), graph = graph_obj))
# or, iff graph_obj has already been added to the chart:
setGraph(.Object = chartScrollbar(), graph = "graph1")

# ---
setEnabled(.Object = chartScrollbar(), enabled = TRUE)
```

```
initialize,DataSet-method
```

Creates or updates a DataSet

Description

Uses the constructors to create the object with its properties or updates an existing one with the setters.

Usage

```
## S4 method for signature 'DataSet'
initialize(.Object, compared = FALSE, dataProvider,
  fieldMappings, stockEvents, ...)

dataSet(compared = FALSE, dataProvider, fieldMappings, stockEvents, ...)

## S4 method for signature 'DataSet,ANY,ANY'
setDataProvider(.Object, dataProvider,
  keepNA = TRUE)

setFieldMappings(.Object, fieldMappings)

## S4 method for signature 'DataSet,list'
setFieldMappings(.Object, fieldMappings)

addFieldMapping(.Object, ...)

## S4 method for signature 'DataSet'
addFieldMapping(.Object, ...)

setStockEvents(.Object, stockEvents)

## S4 method for signature 'DataSet,list'
setStockEvents(.Object, stockEvents)

addStockEvent(.Object, stockEvent = NULL, ...)

## S4 method for signature 'DataSet,StockEventOrMissing'
addStockEvent(.Object,
  stockEvent = NULL, ...)
```

Arguments

.Object	DataSet .
compared	logical.

dataProvider	data.frame, the data set data. Important: the data sets need to come pre-ordered in ascending order. Data with incorrect order might result in visual and functional glitches on the chart.
fieldMappings	list of field mappings. Field mapping is an object with fromField and toField properties. fromField is a name of your value field in dataProvider. toField might be chosen freely, it will be used to set value/open/close/high/low fields for the StockGraph. Example: list(fromField = "val1", toField = "value").
stockEvents	StockEvent .
...	other properties of DataSet.
keepNA	logical, TRUE to keep NA values.
stockEvent	StockEvent . Argument for method addStockEvent.

Value

(updated) [DataSet](#) object

Examples

```
new("DataSet")

dataset(categoryField = "categoryField")

setDataProvider(.Object = dataset(), data.frame(key = c("FR", "US"), value = c(20,10)))

dataset <- addFieldMapping(.Object = dataset(),
                           fieldMappings = list(fromField = "val1", toField = "value"))
print(dataset)
dataset <- addFieldMapping(.Object = dataset(), fromField = "val1", toField = "value")
print(dataset)
addStockEvent(.Object = dataset(), backgroundAlpha = 1, backgroundColor = "#DADADA")
# equivalent to:
stockEvent_obj <- stockEvent(backgroundAlpha = 1, backgroundColor = "#DADADA")
chart <- addStockEvent(.Object = dataset(), stockEvent = stockEvent_obj); print(chart)
```

initialize,DataSetSelector-method

Creates or updates a DataSetSelector

Description

Use the constructors to create the object with its properties or update an existing one with the setters.

Usage

```
## S4 method for signature 'DataSetSelector'
initialize(.Object, position, ...)

dataSetSelector(position, ...)

setPosition(.Object, position)

## S4 method for signature 'DataSetSelector,character'
setPosition(.Object, position)
```

Arguments

.Object	DataSetSelector .
position	character. Possible values: "right", "left", "top", "bottom". "top" and "bottom" positions has a limitation - only one data set can be selected for comparison.
...	other properties of DataSetSelector.

Value

(updated) [DataSetSelector](#).

Examples

```
new("DataSetSelector", size = 10)

dataSetSelector(position = "left")
setPosition(.Object = dataSetSelector(), position = "left")
```

initialize,GaugeArrow-method
Initializes a GaugeArrow

Description

Uses the constructor to create the object with its properties or update an existing one with the setters.

Usage

```
## S4 method for signature 'GaugeArrow'
initialize(.Object, alpha = 1, axis, ...)

gaugeArrow(alpha = 1, axis, ...)

setAxis(.Object, axis = NULL, ...)
```

```
## S4 method for signature 'GaugeArrow,GaugeAxisOrCharacterOrMissing'
setAxis(.Object,
        axis = NULL, ...)
```

Arguments

.Object	GaugeArrow .
alpha	numeric.
axis	GaugeAxis . Axis of the arrow. You can use reference to the axis or id of the axis. If you don't set any axis, the first axis of the chart will be used.
...	other properties of GaugeArrow.

Value

(updated) .Object of class [GaugeArrow](#).

Examples

```
# --- method initialize
new("GaugeArrow", alpha = 2)

# --- constructor
gaugeArrow(value = 10)

# -- update 'axis' property
setAxis(.Object = gaugeArrow(), id = "axis1", startValue = 0,
        endValue = 100, valueInterval = 10)
# equivalent to:
axis_obj <- gaugeAxis(id = "axis1", startValue = 0, endValue = 100, valueInterval = 10)
setAxis(.Object = gaugeArrow(), axis = axis_obj)
# or, iff, 'axis_obj' has already been added to the chart
setAxis(.Object = gaugeArrow(), axis = "axis1")
```

initialize,GaugeAxis-method

Initializes a GaugeAxis

Description

Uses the constructor to create the object or update an existing one with the setters.

Usage

```
## S4 method for signature 'GaugeAxis'
initialize(.Object, axisAlpha = 1, bands, ...)

gaugeAxis(axisAlpha = 1, bands, ...)
```

```

setBands(.Object, bands)

## S4 method for signature 'GaugeAxis,list'
setBands(.Object, bands)

addBand(.Object, band = NULL, ...)

## S4 method for signature 'GaugeAxis,GaugeBandOrMissing'
addBand(.Object, band = NULL,
        ...)

```

Arguments

.Object	GaugeAxis .
axisAlpha	numeric.
bands	list of GaugeBand . Bands are used to draw color fills between specified values.
...	other properties of GaugeAxis .
band	GaugeBand . Argument for method addBand.

Examples

```

# --- method initialize
new("GaugeAxis", alpha = 1)

# -- constructor
gaugeAxis()

# -- update 'bands' at once
bands <- list(gaugeBand(startValue = 70, endValue = 90),
              gaugeBand(startValue = 40, endValue = 60))
gaugeAxis(bands = bands)

# --- add 'band' one by one one
addBand(.Object = gaugeAxis(), startValue = 0, endValue = 100)
# equivalent to
gaugeBand_obj <- gaugeBand(startValue = 0, endValue = 100)
addBand(.Object = gaugeAxis(), band = gaugeBand_obj)

```

```
initialize,GaugeBand-method
```

Initializes a GaugeBand

Description

Uses the constructor to create the object or update an existing one with the setters.

Usage

```
## S4 method for signature 'GaugeBand'
initialize(.Object, alpha = 1, id, ...)

gaugeBand(alpha = 1, id, ...)

setID(.Object, id)

## S4 method for signature 'GaugeBand'
setID(.Object, id)
```

Arguments

.Object	GaugeBand (or "GaugeBand" for initialize).
alpha	numeric.
id	character.
...	other properties of GaugeBand .

Value

(updated) .Object of class [GaugeBand](#).

Examples

```
# --- method 'initialize'
new("GaugeBand")

# --- constructor
gaugeBand(alpha = 2, id = "band2")

# --- set the 'id'
setID(.Object = gaugeBand(), id = "1")
```

initialize,Guide-method

Initializes a Guide

Description

Uses the constructor to create the object or update an existing one with the setters.

Usage

```
## S4 method for signature 'Guide'
initialize(.Object, fillAlpha, valueAxis, value, ...)

guide(fillAlpha, valueAxis, value, ...)

setFillAlpha(.Object, fillAlpha)

## S4 method for signature 'Guide,numeric'
setFillAlpha(.Object, fillAlpha)

## S4 method for signature 'Guide,ValueAxisOrCharacterOrMissing'
setValueAxis(.Object,
  valueAxis = NULL, ...)
```

Arguments

.Object	Guide
fillAlpha	numeric, specifies if a grid line is placed on the center of a cell or on the beginning of a cell. Possible values are: "start" and "middle" This setting doesn't work if parseDates is set to TRUE.
valueAxis	ValueAxis class. As you can add guides directly to the chart, you might need to specify which value axis should be used.
value	numeric.
...	other properties of Guide.

Examples

```
# --- method initialize
new("Guide", fillAlpha = 0.1, gridThickness = 1, value = 1)

# --- constructor
guide(fillAlpha = .4, value = 1)
guide(fillAlpha = .4, adjustBorderColor = TRUE, gridThickness = 1)

setFillAlpha(.Object = guide(), fillAlpha = 1)
valueAxis_obj <- valueAxis(test = "foo")
setValueAxis(.Object = guide(), valueAxis = valueAxis_obj)
```

```
initialize,Label-method
```

Initializes Label

Description

Uses the constructor to create the object or update an existing one with the setters.

Usage

```
## S4 method for signature 'Label'
initialize(.Object, text, bold, x, y, ...)

label(text, bold, x, y, ...)

setBold(.Object, bold)

## S4 method for signature 'Label,logical'
setBold(.Object, bold)

## S4 method for signature 'Label,character'
setText(.Object, text)

setX(.Object, x)

## S4 method for signature 'Label,numericOrCharacter'
setX(.Object, x)

setY(.Object, y)

## S4 method for signature 'Label,numericOrCharacter'
setY(.Object, y)
```

Arguments

.Object	Label .
text	character, text of a title.
bold	character, specifies if label is bold or not.
x	numeric, label's x position.
y	numeric, label's y position.
...	other properties of Label .

Value

(updated) .Object of class [Label](#).

Examples

```
# --- method initialize
new("Label", x = 10)

# --- constructor
label(text = "bonjour")
label(text = "Male", x = "28%", y = "97%")

# --- update property 'bold'
setBold(.Object = label(), bold = TRUE)
```

```
# --- update 'text'
setText(.Object = label(), text = "Bonjour")

# --- update 'x'
setX(.Object = label(), x = 16)

# --- update 'y'
setY(.Object = label(), y = 16)
```

```
initialize,PeriodSelector-method
Initializes a PeriodSelector
```

Description

Uses the constructors to create the object with its properties or update an existing one with the setters.

Usage

```
## S4 method for signature 'PeriodSelector'
initialize(.Object, periods, ...)

periodSelector(periods, ...)

addPeriod(.Object, ...)

## S4 method for signature 'PeriodSelector'
addPeriod(.Object, ...)
```

Arguments

.Object	PeriodSelector .
periods	list. Period object has 4 properties - period, count, label and selected. Possible period values are: "ss" - seconds, "mm" - minutes, "hh" - hours, "DD" - days, "MM" - months and "YYYY" - years. property "count" specifies how many periods this button will select. "label" will be displayed on a button and "selected" is a logical. which specifies if this button is selected when chart is initialized or not.
...	other properties of PeriodSelector.

Value

(updated) .Object of class [PeriodSelector](#).

Examples

```

new( "PeriodSelector")
periodSelector(fillAlpha = .4, value = 1)
periodSelector(fillAlpha = .4, adjustBorderColor = TRUE, gridThickness = 1)
addPeriod(.Object = periodSelector(), period = "MM", selected = TRUE,
          count = 1, label= "1 month")

```

```
initialize,StockEvent-method
```

Initialize a StockEvent

Description

Use the constructor to create the object or update an existing one with the setters.

Usage

```

## S4 method for signature 'StockEvent'
initialize(.Object, backgroundAlpha = 1,
          stockGraph, ...)

stockEvent(backgroundAlpha = 1, stockGraph, ...)

setStockGraph(.Object, stockGraph = NULL, ...)

## S4 method for signature 'StockEvent,AmGraphOrCharacterOrMissing'
setStockGraph(.Object,
              stockGraph = NULL, ...)

```

Arguments

.Object	StockEvent .
backgroundAlpha	numeric.
stockGraph	AmGraph created with stockGraph(*). This is the graph on which event will be displayed. You can use a reference to the stock graph object or id of the graph.
...	other properties of StockEvent.

Value

(updated) argument .Object of class [StockEvent](#).

Examples

```

new("StockEvent")
stockEvent()
setStockGraph(.Object = stockEvent(), id = "stockGraph1", balloonText = "balloonText")
# equivalent to:
stockGraph_obj <- stockGraph(id = "stockGraph1", balloonText = "balloonText")
setStockGraph(.Object = stockEvent(), stockGraph = stockGraph_obj)
# if stockGraph_obj has already been added to the chart:
setStockGraph(.Object = stockEvent(), stockGraph = "stockGraph1")

```

```
initialize,StockPanel-method
```

Initialize a StockPanel

Description

Use the constructor to create the object or update an existing one with the setters.

Usage

```

## S4 method for signature 'StockPanel'
initialize(.Object, allLabels, axes, balloon,
  categoryAxis, categoryField, chartCursor, chartScrollbar,
  creditsPosition, dataProvider, graphs, graph, guides, legend, theme,
  title, titles, trendLines, type, valueAxes, valueScrollbar, drawOnAxis,
  stockGraphs, stockLegend, ...)

stockPanel(...)

panel(...)

setDrawOnAxis(.Object, valueAxis = NULL, ...)

## S4 method for signature 'StockPanel,ValueAxisOrCharacterOrMissing'
setDrawOnAxis(.Object,
  valueAxis = NULL, ...)

setStockGraphs(.Object, stockGraphs)

## S4 method for signature 'StockPanel,list'
setStockGraphs(.Object, stockGraphs)

addStockGraph(.Object, stockGraph = NULL, ...)

## S4 method for signature 'StockPanel,AmGraphOrMissing'
addStockGraph(.Object,

```

```

    stockGraph = NULL, ...)

setStockLegend(.Object, stockLegend = NULL, ...)

## S4 method for signature 'StockPanel,AmLegendOrMissing'
setStockLegend(.Object,
    stockLegend = NULL, ...)

```

Arguments

.Object	StockPanel .
allLabels	list of Label . Example of a label object, with all possible properties: label(x = 20, y = 20, text = "this is a label", align = "left", size = 12, color = "#CC0000", alpha = 1, rotation = 0, bold = TRUE, url = "http://www.amcharts.com"). Run <code>api("Label")</code> for more informations.
axes	list of GaugeAxis properties. Only valid for gauge charts. Run <code>api("GaugeAxis")</code> for more informations.
balloon	AmBalloon . Creates the balloons (tooltips) of the chart. It follows the mouse cursor when you roll-over the data items. The framework automatically generates the instances you just have to adjust the appearance to your needs. Run <code>api("AmBalloon")</code> for more informations.
categoryAxis	CategoryAxis . Read-only. Chart creates category axis itself. If you want to change some properties, you should get this axis from the chart and set properties to this object. Run <code>api("CategoryAxis")</code> for more informations.
categoryField	character, category field name indicates the name of the field in your dataProvider object which will be used for category axis values.
chartCursor	ChartCursor . Chart's cursor. Run <code>api("ChartCursor")</code> for more informations.
chartScrollbar	ChartScrollbar . Chart's scrollbar. Run <code>api("ChartScrollbar")</code> for more informations.
creditsPosition	character, specifies position of the amCharts' website link. Allowed values are: "top-left", "top-right", "bottom-left" and "bottom-right".
dataProvider	data.frame, containing the data.
graphs	list of AmGraph . Creates the visualization of the data in following types: line, column, step line, smoothed line, olhc and candlestick. Run <code>api("AmGraph")</code> for more informations.
graph	AmGraph . Only valid for Gantt charts. Gant chart actually creates multiple graphs (separate for each segment). Properties of this graph are passed to each of the created graphs - this allows you to control the look of segments. Run <code>api("AmGraph")</code> for more informations.
guides	list of Guide . Instead of adding guides to the axes, you can push all of them to this array. In case guide has category or date defined, it will automatically be assigned to the category axis, otherwise to the first value axis, unless you specify a different valueAxes for the guide. Run <code>api("Guide")</code> for more informations.
legend	AmLegend . Legend of a chart. Run <code>api("AmLegend")</code> for more informations.

theme	character, theme of a chart. Config files of themes can be found in <code>amcharts/themes/</code> folder. See http://www.amcharts.com/tutorials/working-with-themes/ .
title	A title of a panel. Note, <code>StockLegend</code> should be added in order title to be displayed.
titles	list of <code>Title</code> . Run <code>api("Title")</code> for more informations.
trendLines	list of <code>TrendLine</code> objects added to the chart. You can add trend lines to a chart using this list or access already existing trend lines. Run <code>api("TrendLine")</code> for more informations.
type	character, possible types are: "serial", "pie", "radar", "xy", "radar", "funnel", "gauge", "stock". See details about using argument type. (type map is in development).
valueAxes	list of <code>ValueAxis</code> . Chart creates one value axis automatically, so if you need only one value axis, you don't need to create it. Run <code>api("ValueAxis")</code> for more informations.
valueScrollbar	<code>ChartScrollbar</code> . Value scrollbar, enables scrolling value axes.
drawOnAxis	<code>ValueAxis</code> . Specifies on which value axis user can draw trend lines. Set <code>drawingIconsEnabled</code> to true if you want drawing icons to be visible. First value axis will be used if not set here. You can use a reference to the value axis object or id of value axis.
stockGraphs	list of <code>AmGraph</code> . Each element must be have been created with <code>stockGraph(*)</code>
stockLegend	list of <code>AmLegend</code> . Each element must be have been created with <code>stockLegend(*)</code>
...	other properties of <code>StockPanel</code> .
valueAxis	A <code>ValueAxis</code> for the property 'drawnOnAxis'.
stockGraph	<code>AmGraph</code> , created with <code>stockGraph(...)</code> . Argument for method <code>addStockGraph</code> .

Value

(updated) `StockPanel` with given properties.

Examples

```
new("StockPanel", title = "Volume")

stockPanel(stockLegend = amLegend(useGraphSettings = TRUE))
panel(creditsPosition = "top-right")
panel(title = "top-right")
valueAxis_obj <- valueAxis(id = "valueAxis1")
setDrawOnAxis(.Object = stockPanel(), valueAxis = valueAxis_obj)
setDrawOnAxis(.Object = stockPanel(), valueAxis = "valueAxis1")
# ---
stockGraphs <- list(stockGraph(comparable = TRUE), stockGraph(comparable = FALSE))
setStockGraphs(.Object = stockPanel(), stockGraphs = stockGraphs)
stockPanel(stockGraphs = stockGraphs)
# ---
stock_panel <- addStockGraph(.Object = stockPanel(), comparable = FALSE); print(stock_panel)
```

```
# or...
stock_panel <- addStockGraph(.Object = stockPanel(), stockGraph = stockGraph(comparable = FALSE))
# ---
setStockLegend(.Object = stockPanel(), valueTextRegular = "[[value]]")
# equivalent to:
stockLegend_obj <- stockLegend(valueTextRegular = "[[value]]")
setStockLegend(.Object = stockPanel(), stockLegend = stockLegend_obj)
# ---
```

```
initialize,Title-method
```

Initializes A Title

Description

Uses the constructor to create the object or update an existing one with the setters.

Usage

```
## S4 method for signature 'Title'
initialize(.Object, text, size, ...)

title(text, size, ...)

amTitle(text, size, ...)

## S4 method for signature 'Title,character'
setText(.Object, text)

setSize(.Object, size)

## S4 method for signature 'Title,numeric'
setSize(.Object, size)
```

Arguments

.Object	Title
text	character, title text.
size	numeric, title size.
...	other properties of Title.

Value

(updated) [Title](#)

Examples

```

new("Title", size = 10)
rAmCharts:::title(text = "Main", size = 10)
rAmCharts:::title(text = "Main", bold = TRUE)
amTitle(text = "Main", size = 10)
amTitle(text = "Main", bold = TRUE)
setText(.Object = amTitle(), text = "Bonjour")
setSize(amTitle(), 16)

```

```
initialize,TrendLine-method
```

Initializes a TrendLine

Description

Uses the constructor to create the object or update an existing one with the setters.

Usage

```

## S4 method for signature 'TrendLine'
initialize(.Object, initialValue, initialXValue,
  finalValue, finalXValue, valueAxis, valueAxisX, ...)

trendLine(.Object, initialValue, initialXValue, finalValue, finalXValue,
  valueAxis, valueAxisX, ...)

setInitialValue(.Object, initialValue)

## S4 method for signature 'TrendLine,numeric'
setInitialValue(.Object, initialValue)

setInitialXValue(.Object, initialXValue)

## S4 method for signature 'TrendLine,numeric'
setInitialXValue(.Object, initialXValue)

setFinalValue(.Object, finalValue)

## S4 method for signature 'TrendLine,numeric'
setFinalValue(.Object, finalValue)

setFinalXValue(.Object, finalXValue)

## S4 method for signature 'TrendLine,numeric'
setFinalXValue(.Object, finalXValue)

## S4 method for signature 'TrendLine,ValueAxisOrCharacterOrMissing'

```

```

setValueAxis(.Object,
  valueAxis = NULL, ...)

setValueAxisX(.Object, valueAxisX = NULL, ...)

## S4 method for signature 'TrendLine,ValueAxisOrCharacterOrMissing'
setValueAxisX(.Object,
  valueAxisX = NULL, ...)

```

Arguments

.Object	TrendLine .
initialValue	numeric, value from which trend line should start.
initialXValue	numeric, used by XY chart only. X value from which trend line should start.
finalValue	numeric, value at which trend line should end.
finalXValue	numeric, used by XY chart only. X value at which trend line should end.
valueAxis	ValueAxis . Value axis of the trend line. Will use first value axis of the chart if not set any. You can use a reference to the value axis object or id of value axis.
valueAxisX	ValueAxis . Used by XY chart only. X axis of trend line. Will use first X axis of the chart if not set any. You can use a reference to the value axis object or id of value axis.
...	other properties of TrendLine.

Value

(possibly updated) .Object of class [TrendLine](#).

Examples

```

new("TrendLine", initialValue = 1, finalValue = 11)

# Other example
valueAxis <- valueAxis(title = "Hello !", axisTitleOffset = 12)
new("TrendLine", valueAxis = valueAxis)

trendLine(initialValue = 1, finalValue = 11)
setInitialValue(.Object = trendLine(), initialValue = 16)
setInitialXValue(.Object = trendLine(), initialXValue = 16)
setFinalValue(.Object = trendLine(), finalValue = 16)
setFinalXValue(.Object = trendLine(), finalXValue = 16)
setValueAxis(.Object = trendLine(), id = "valueAxis-1",
  title = "Hello !", axisTitleOffset = 12)

# equal to:
valueAxis_obj <- valueAxis(id = "valueAxis-1", title = "Hello !", axisTitleOffset = 12)
trendLine(valueAxis = valueAxis_obj)
# or...
trendLine(valueAxis = "valueAxis-1")
# valid if and only if 'valueAxis_obj' has already been added to the chart

```

```

setValueAxisX(.Object = trendLine(), id = "valueAxisX-1",
              title = "Hello !", axisTitleOffset = 12)
# equival to:
valueAxisX_obj <- valueAxis(id = "valueAxisX-1", title = "Hello !", axisTitleOffset = 12)
trendLine(valueAxisX = valueAxisX_obj)
# or...
trendLine(valueAxisX = "valueAxisX-1")
# valid if and only if 'valueAxisX_obj' has already been added to the chart

```

```
initialize, ValueAxis-method
```

```
Initializes ValueAxis
```

Description

Creates a ValueAxis or updates its properties.

Usage

```

## S4 method for signature 'ValueAxis'
initialize(.Object, title, guides, ...)

valueAxis(...)

## S4 method for signature 'ValueAxis, character'
setTitle(.Object, title)

```

Arguments

.Object	ValueAxis .
title	character.
guides	list of Guide .
...	Other properties (depend of call function)

Examples

```

guides <- list(guide(fillAlpha = .4), guide(fillAlpha = .5))
new("ValueAxis", title = "Hello !", gridThickness = 1, guides = guides)

## Not run:
new("ValueAxis", title = "Hello !", 1) # 1 is not take into account

# If one element of guides is not a Guide object, it shows an error
guides <- list(guide(fillAlpha = .4), b = 1)
new("ValueAxis", title = "Hello !", gridThickness = 1, guides = guides)

```

```
## End(Not run)

valueAxis(title = "Hello !", axisTitleOffset = 12)

setTitle(.Object = valueAxis(), title = "Hello !")
```

Label-class

Label class

Description

Creates a label on the chart which can be placed anywhere, multiple can be assigned.

Details

Run `api("Label")` for more information and all available properties.

Slots

`bold` character. Specifies if label is bold or not.

`text` character. Text of a title.

`x` numeric. X position of a label.

`y` numeric. Y position of a label.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric.

Author(s)

datastorm-open

listProperties

List properties of an S4 object

Description

Each S4 class implements the method to list its properties (usefull to update complex properties).

Usage

```
listProperties(.Object)
```

```
## S4 method for signature 'AmObject'
```

```
listProperties(.Object)
```

Arguments

.Object any class object of the package

Value

A list containing all the chart's properties.

Examples

```
amChart(type = "serial")
```

PeriodSelector-class *PeriodSelector*

Description

Defines the PeriodSelector properties.

Slots

`periods` list. Period object has 4 properties - period, count, label and selected. Possible period values are: "ss" - seconds, "mm" - minutes, "hh" - hours, "DD" - days, "MM" - months and "YYYY" - years. property "count" specifies how many periods this button will select. "label" will be displayed on a button and "selected" is logical. which specifies if this button is selected when chart is initialized or not.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. See examples for details.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` Object of class numeric.

Author(s)

datastorm-open

plot,AmCharts-method *PLOTTING METHOD*

Description

Basic method to plot an AmChart

Usage

```
## S4 method for signature 'AmCharts'  
plot(x, y, width = "100%", height = NULL,  
     background = "#ffffff", ...)
```

Arguments

x	AmChart
y	unused.
width	character.
height	character.B
background	character.
...	Other properties.

Details

Plots an object of class [AmChart](#)

print,AmObject-method *Visualize with print*

Description

Display the object in the console.

Usage

```
## S4 method for signature 'AmObject'  
print(x, withDetail = TRUE, ...)
```

Arguments

x	AmChart .
withDetail	logical, TRUE to display details.
...	Other properties.

Details

If the object possess a 'dataProvider' property, it will be hidden in the console. To see if it's correctly registered use '@dataProvider'.

Examples

```
print(new("AmChart", categoryField = "variables", type = "serial"))
print(new("AmChart", categoryField = "variables", type = "serial"), withDetail = FALSE)
```

rAmCharts-shinymodules

Shiny module to export rAmCharts graphics on server-side

Description

This function need the base64enc package to save image.

Usage

```
rAmChartsExportServerUI(id)
```

```
rAmChartsExportServer(input, output, session, list_am_graph,
  path = shiny::reactive(tempdir()), mode = "single", progress = T,
  message = "Calculation in progress",
  detail = "This may take a while...")
```

Arguments

id	character, used to specify namesapce, see shiny::NS
input	standard, shiny input
output	standard, shiny output
session	standard, shiny session
list_am_graph	named list, reactive expression with all amCharts to export <ul style="list-style-type: none"> • "graph"rAmCharts object to export • "name"character, name of file, with ".jpg" extension • "width"Optionnal, character. Linked to amChartsOutput • "height"Optionnal, character. Linked to amChartsOutput • "type"Optionnal, character. Linked to amChartsOutput
path	character, directory. tempdir() by Default
mode	character, 'single' : graphics are rendered and saved one by one. 'multiple' all at same time
progress	boolean, set a progress bar or not ?
message	character, if progress, message. Defaut to "Calculation in progress"
detail	character, if progress, detail. Defaut to "This may take a while..."

Value

a reactive expression

Examples

```
## Not run:

# ui
rAmChartsExportServerUI("export_server_graphs")

# server

mult_amgraph <- reactive({
  if(input$goSave > 0){
    isolate({
      list(
        list(graph = amPie(data = data_pie), name = "pie.jpg", height = "200px", width = "300px"),
        list(graph = amBarplot(x = "country", y = "visits", data = data_bar, main = "example") %>%
          setExport(), name = "bar.jpg", height = "600px")
      )
    })
  } else {
    NULL
  }
})

callModule(rAmChartsExportServer, "export_server_graphs", mult_amgraph,
  reactive("/home/benoit/amchart_export"))

## End(Not run)
```

rAmCharts-shinymodules-ts

Shiny module to render large time-series data with live server-client aggregation

Description

Shiny module to render large time-series data with live server-client aggregation

Usage

```
rAmChartsTimeSeriesUI(id, width = "100%", height = "400px")

rAmChartsTimeSeriesServer(input, output, session, data, col_date,
  col_series, maxPoints = shiny::reactive(600),
```

```

tz = shiny::reactive("UTC"), ts = shiny::reactive(c("5 min",
"10 min", "30 min", "hour", "3 hour", "12 hour", "day", "week", "month",
"year")), fun_aggr = shiny::reactive("mean"),
treat_missing = shiny::reactive(FALSE),
maxgap = shiny::reactive(Inf), type_aggr = shiny::reactive("first"),
main = shiny::reactive(""), ylab = shiny::reactive(""),
color = shiny::reactive(c("#2E2EFE", "#31B404", "#FF4000", "#AEB404")),
bullet = shiny::reactive(NULL), bulletSize = shiny::reactive(2),
linetype = shiny::reactive(c(0, 5, 10, 15, 20)),
linewidth = shiny::reactive(c(1, 1, 1, 1, 1, 1)),
fillAlphas = shiny::reactive(0), precision = shiny::reactive(1),
export = shiny::reactive(FALSE), legend = shiny::reactive(TRUE),
legendPosition = shiny::reactive("bottom"),
legendHidden = shiny::reactive(FALSE),
ZoomButton = shiny::reactive(data.frame(Unit = "MAX", multiple = 1,
label = "All")), ZoomButtonPosition = shiny::reactive("bottom"),
periodFieldsSelection = shiny::reactive(FALSE),
scrollbar = shiny::reactive(TRUE),
scrollbarPosition = shiny::reactive("bottom"),
scrollbarHeight = shiny::reactive(40),
scrollbarGraph = shiny::reactive(NULL),
cursor = shiny::reactive(TRUE),
cursorValueBalloonsEnabled = shiny::reactive(TRUE),
creditsPosition = shiny::reactive("top-right"),
group = shiny::reactive(NULL))

```

Arguments

id	character, used to specify namespace, see shiny::NS
width	character, the width of the chart container. For amChartsOutput.
height	character, the height of the chart container. For amChartsOutput.
input	standard, shiny input
output	standard, shiny output
session	standard, shiny session
data	: data.frame to transform.
col_date	Date column name, default to "date". Must be "POSIXct"
col_series	Column name of quantitative variable(s) to be transformed. Default to setdiff(colnames(data), "date")
maxPoints	: Maximal number of rows in results
tz	: Timezone of result. Default to "UTC".
ts	All enabled aggregation. Default to c("5 min", "10 min", "30 min", "hour", "3 hour", "12 hour", "day", "week", "month", "year"). Can be a number, in seconds, or a character string containing one of "min", "hour", "day".... This can optionally be preceded by a positive integer and a space
fun_aggr	: Aggregation function to use ("min", "max", "sum", "mean", "first", "last"). Default to "mean".

treat_missing	: Boolean. Default to FALSE Whether or not to interpolate missing values ? see na.approx
maxgap	When interpolate missing values with na.approx. Maximum number of consecutive NAs to fill. Defaut to Inf.
type_aggr	character Type of aggregation <ul style="list-style-type: none"> • "first" : Date/Time result is equal to minimum of sequence, and this minimum is included in aggregation • "last" : Date/Time result is equal to maximum of sequence, and this maximum is included in aggregation
main	character, title.
ylab	character, value axis label.
color	character, color of series (in hexadecimal).
bullet	character, point shape. Possible values are : "diamond", "square", "bubble", "yError", "xError", "round", "triangleLeft", "triangleRight", "triangleUp"
bulletSize	numeric, size of bullet.
linetype	numeric, line type, 0 : solid, number : dashed length
linewidth	numeric, line width.
fillAlphas	numeric, fill. Between 0 (no fill) to 1.
precision	numeric, default set to 1.
export	logical, default set to FALSE. TRUE to display export feature.
legend	logical, enabled or not legend ? Defaut to TRUE.
legendPosition	character, legend position. Possible values are : "left", "right", "bottom", "top"
legendHidden	logical hide some series on rendering ? Defaut to FALSE
ZoomButton	data.frame, 3 or 4 columns : <ul style="list-style-type: none"> • "Unit" : Character. Times unit. 'ss', 'mm', 'hh', 'DD', 'MM', 'YYYY' • "multiple" : Numeric. multiple*unit • "label" : Character. button's label • "selected" : Boolean. Optional. To set initial selection. (One TRUE, others FALSE)
ZoomButtonPosition	character, zoom button position. Possible values are : "left", "right", "bottom", "top"
periodFieldsSelection	boolean, using zoom button, add also two fields to select period ?
scrollbar	boolean, enabled or not scrollbar ? Defaut to TRUE.
scrollbarPosition	character, scrollbar position. Possible values are : "left", "right", "bottom", "top"
scrollbarHeight	numeric, height of scroll bar. Default : 40.
scrollbarGraph	character, name of serie (column) to print in scrollbar. Defaut to NULL.

cursor boolean, enabled or not cursor ? Default to TRUE.
 cursorValueBalloonsEnabled
 boolean, if cursor, enabled or not balloons on cursor ? Default to TRUE.
 creditsPosition
 character, credits position. Possible values are : "top-right", "top-left", "bottom-
 right", "bottom-left"
 group character, like in dygraphs, for synchronization in shiny or rmarkdown.

Value

a reactive expression with aggregate data and ts

Examples

```

## Not run:

library(shiny)
library(rAmCharts)

# number of points
n <- 1000000
data <- data.frame(date = seq(c(ISOdate(1999,12,31)), by = "5 min", length.out = n),
                    value = rnorm(n, 100, 50))

# maximun of points in javascript
max_points <- 1000

# Call module in UI
ui <- fluidPage(
  rAmChartsTimeSeriesUI("ts_1", height = "600px"),
  h4(textOutput("ts"))
)

# Define server
server <- function(input, output) {

  # Call module in server
  res <- callModule(rAmChartsTimeSeriesServer, "ts_1", reactive(data), reactive("date"),
    reactive("value"), maxPoints = shiny::reactive(max_points),
    main = reactive("Example of rAmChartsTimeSeries module"),
    color = reactive("red"), periodFieldsSelection = reactive(TRUE)
  )

  # show module return and print ts
  output$ts <- renderText({
    print(res())
    paste0("Current ts : ", res())$ts
  })
}

```

```
# Run the application
shinyApp(ui = ui, server = server)

## End(Not run)
```

renderAmCharts	<i>SHINY</i>
----------------	--------------

Description

Widget output function to use in Shiny.

Usage

```
renderAmCharts(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

expr	an expression that generates an HTML widget.
env	the environment in which expr must be evaluated.
quoted	is expr a quoted expression (with quote()). This is useful if you want to save an expression into variable.

runExamples	<i>Run example with shiny</i>
-------------	-------------------------------

Description

See some examples in a shiny web application. Both 'am' functions and basic functions are illustrated.

Usage

```
runExamples()
```

Examples

```
if (interactive()) runExamples()
```

setExport	<i>Setters for AmChart and AmStockChart.</i>
-----------	--

Description

These methods can be used both for AmChart and AmStockChart. There are general for some first-level properties.

Usage

```
setExport(.Object, enabled = TRUE, ...)  
  
## S4 method for signature 'AmCharts,logicalOrMissing'  
setExport(.Object, enabled = TRUE,  
  ...)  
  
setResponsive(.Object, enabled = TRUE, ...)  
  
## S4 method for signature 'AmCharts,logicalOrMissing'  
setResponsive(.Object,  
  enabled = TRUE, ...)
```

Arguments

.Object	AmChart or AmStockChart .
enabled	logical, TRUE to display the export button.
...	Other properties that can be used depending on the setter.

Examples

```
# Dummy examples  
setExport(amPlot(1:10))  
setExport(amStockChart())  
  
# Dummy examples  
setResponsive(amSerialChart())  
setResponsive(amStockChart())
```

show, AmChart-method *Visualize AmStockChart with show*

Description

Display the object in the console.

Usage

```
## S4 method for signature 'AmChart'  
show(object)
```

Arguments

object [AmChart](#).

Value

If the object has a valid type, it will plot the chart. If not the method will trigger the method 'print'.

show, AmObject-method *Visualize with show*

Description

Display the object in the console.

Usage

```
## S4 method for signature 'AmObject'  
show(object)
```

Arguments

object [AmObject](#).

Examples

```
library(pipeR)  
amPieChart(valueField = "value", titleField = "key", backgroundColor = "#7870E8") %>>%  
  setDataProvider(data.frame(key = c("FR", "US"), value = c(20,10))) %>>%  
  setExport(position = "bottom-left")
```

show, AmStockChart-method

Visualize AmStockChart with show

Description

Display the object in the console.

Usage

```
## S4 method for signature 'AmStockChart'
show(object)
```

Arguments

object [AmStockChart](#).

Value

If the object has a valid type, it will plot the chart. If not the method will trigger the method 'print'.

StockEvent-class

StockEvent class

Description

StockEvent is an object which holds information about event (bullet). Values from StockEventsSettings will be used if not set. Stock event bullet's size depends on it's graphs fontSize. When user rolls-over, clicks or rolls-out of the event bullet, AmStockChart dispatches events.

Details

Run `api("StockEvent")` for more informations.

Slots

stockGraph [AmGraph](#) containing properties of stockGraph. This is the graph on which event will be displayed. You can use a reference to the stock graph object or id of the graph.

listeners list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string.

otherProperties list containing other available properties not yet implemented in the package.
value numeric.

Author(s)

datastorm-open

stockGraph	<i>Constructor for a stockGraph (class AmGraph)</i>
------------	---

Description

Constructor used for [AmStockChart](#)

Usage

```
stockGraph(animationPlayed = FALSE, balloonText, title, type, valueField,  
...)
```

Arguments

animationPlayed	logical.
balloonText	character. Balloon text. You can use tags like <code>[[value]]</code> , <code>[[description]]</code> , <code>[[percents]]</code> , <code>[[open]]</code> , <code>[[category]]</code> or any other field name from your data provider. HTML tags can also be used.
title	character. Graph title.
type	character. Type of the graph. Possible values are: "line", "column", "step", "smoothedLine", "candlestick", "ohlc". XY and Radar charts can only display "line" otherArguments graphs.
valueField	character. Name of the value field in your dataProvider.
...	Other properties

Value

An object of class [AmGraph](#).

Examples

```
# --- constructor  
stockGraph(balloonText = "balloonText",valueField = "value", animationPlayed = TRUE)
```

stockLegend	<i>Constructor for StockLegend.</i>
-------------	-------------------------------------

Description

This method is used for [AmStockChart](#).

Usage

```
stockLegend(useGraphSettings,  
            valueTextComparing = "[[percents.value]]%", ...)
```

Arguments

useGraphSettings	logical Legend markers can mirror graph's settings, displaying a line and a real bullet as in the graph itself. Set this property to TRUE if you want to enable this feature.
valueTextComparing	character
...	Properties of AmLegend. See http://docs.amcharts.com/3/javascriptstockchart/StockLegend

Value

An [AmLegend](#) object

Examples

```
stockLegend(useGraphSettings = TRUE)
```

StockPanel-class	<i>StockPanel class</i>
------------------	-------------------------

Description

StockPanel class creates stock panels (charts). AmStockChart can have multiple Stock panels.

Details

Run `api("StockPanel")` for more information and all available properties.

Fields

- `drawOnAxis` [ValueAxis](#). Specifies on which value axis user can draw trend lines. Set `drawingIconsEnabled` to `TRUE` if you want icons to be visible. First value axis will be used if not set here. You can use a reference to the value axis object or id of value axis.
- `stockGraphs` `list`. Each element must be have been created with `stockGraph(*)`
- `stockLegend` `list`. Each element must be have been created with `stockLegend(*)`
- `allLabels` `list` of [Label](#). Example of label object, with all possible properties: `label(x = 20, y = 20, text = "this is label", align = "left", size = 12, color = "#CC0000", alpha = 1, rotation = 0, bold = TRUE, url = "http://www.amcharts.com")`. Run `api("Label")` for more informations.
- `arrows` `list` of [GaugeArrow](#). Only valid for gauge charts. Run `api("GaugeArrow")` for more informations.
- `axes` `list` of [GaugeAxis](#) properties. Only valid for gauge charts. Run `api("GaugeAxis")` for more informations.
- `balloon` [AmBalloon](#) Creates the balloons (tooltips) of the chart. It follows the mouse cursor when you roll-over the data items. The framework automatically generates the instances you just have to adjust the appearance to your needs. Run `api("AmBalloon")` for more informations.
- `categoryAxis` [CategoryAxis](#). Read-only. Chart creates category axis itself. If you want to change some properties, you should get this axis from the chart and set properties to this object.
- `categoryField` character. Category field name indicates the chart the name of the field in your `dataProvider` object which will be used for category axis values.
- `ChartCursor` [ChartCursor](#). Cursor of a chart. Run `api("ChartCursor")` for more informations.
- `ChartScrollbar` [ChartScrollbar](#). Chart's scrollbar. Run `api("ChartScrollbar")` for more informations.
- `creditsPosition` character, specifies position of the `amCharts`' website link. Allowed values are: "top-left", "top-right", "bottom-left" and "bottom-right".
- `dataProvider` `data.frame`, containing the data.
- `graphs` `list` of [AmGraph](#). Creates the visualization of the data in following types: line, column, step line, smoothed line, `ohlcv` and candlestick.
- `graph` [AmGraph](#). Only valid for Gantt charts. Gant chart actually creates multiple graphs (separate for each segment). Properties of this graph are passed to each of the created graphs - this allows you to control the look of segments. Run `api("AmGraph")` for more informations.
- `guides` `list` of [Guide](#). Instead of adding guides to the axes, you can push all of them to this array. In case guide has category or date defined, it automatically will be assigned to the category axis. Otherwise to first value axis, unless you specify a different `valueAxes` for the guide. Run `api("Guide")` for more informations.
- `legend` [AmLegend](#). Chart's legend. Run `api("AmLegend")` for more informations.
- `segmentsField` character. Segments field in your data provider. Only valid for Gantt Charts.
- `subChartProperties` `list`. Only valid for Drilldown charts.
- `theme` character. Chart's theme. Config files of themes can be found in `amcharts/themes/` folder. See <http://www.amcharts.com/tutorials/working-with-themes/>.
- `titles` `list` of [Title](#). Run `api("Title")` for more informations.

`trendLines` list of [TrendLine](#) objects added to a chart. You can add trend lines to a chart using this list or access already existing trend lines.

`type` character. Possible types are: "serial", "pie", "radar", "xy", "radar", "funnel", "gauge", "stock". See details about using argument type. (type map is in development).

`valueAxes` list of [ValueAxis](#). Chart creates one value axis automatically, so if you need only one value axis, you don't need to create it. Run `api("ValueAxis")` for more informations.

`valueAxis` [ValueAxis](#). Only valid for Gantt Charts. Set it's type to "date" if your data is date or time based.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. Run `runShinyExamples()` for examples.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric.

Author(s)

datastorm-open

Title-class

Title class

Description

Creates a title on above the chart, multiple can be assigned.

Details

Run `api("Title")` for more informations and all available properties.

Slots

`text` character, title's text.

`size` numeric, title's size.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. See examples for details.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric.

Author(s)

datastorm-open

TrendLine-class	<i>TrendLine class</i>
-----------------	------------------------

Description

Creates a trendline for amSerialChart and amXYChart charts which indicates the trend of your data or covers some different purposes. Multiple can be assigned.

Details

Run `api("TrendLine")` for more information and all available properties.

Slots

`finalValue` numeric. Value at which trend line should end.

`finalXValue` numeric. Used by XY chart only. X value at which trend line should end.

`initialValue` numeric. Value from which trend line should start.

`initialXValue` numeric. Used by XY chart only. X value from which trend line should start.

`valueAxis` [ValueAxis](#). Value axis of the trend line. Will use first value axis of the chart if not set any. You can use a reference to the value axis object or id of value axis.

`valueAxisX` [ValueAxis](#). Used by XY chart only. X axis of trend line. Will use first X axis of the chart if not set any. You can use a reference to the value axis object or id of value axis.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. See examples for details.

`otherProperties` list, containing other available properties.

`value` numeric.

Author(s)

datastorm-open

ValueAxis-class	<i>ValueAxis class</i>
-----------------	------------------------

Description

Extension for ValueAxis to create an axis for amSerialChart, amRadarChart, amXYChart charts, multiple can be assigned. Gets automatically populated, one for amSerialChart and two for amXY-Chart charts, if none has been specified.

Details

Run `api("ValueAxis")` for more information and all available properties.

Slots

`title` character. Title of the axis.

`guides` list.

`listeners` list containing the listeners to add to the object. The list must be named as in the official API. Each element must be a character string. See examples for details.

`otherProperties` list containing other available properties not yet implemented in the package.

`value` numeric. Guides belonging to this axis. Use `addGuide` method

Author(s)

datastorm-open

Index

*Topic **datasets**

- data_AirPassengers, 55
- data_bar, 56
- data_candleStick1, 56
- data_candleStick2, 57
- data_fbar, 57
- data_funnel, 58
- data_gantt, 58
- data_gbar, 59
- data_gdp, 59
- data_mekko, 60
- data_pie, 60
- data_radar, 61
- data_stock1, 61
- data_stock_2, 62
- data_stock_3, 62
- data_waterfall, 63
- data_wind, 63

- add_animate_dependency, 7
- add_dataloader_dependency, 8
- add_export_dependency, 8
- add_responsive_dependency, 9
- add_theme_dependency, 9
- addArrow (initialize, AmChart-method), 71
- addArrow, AmChart, GaugeArrowOrMissing-method (initialize, AmChart-method), 71
- addAxe (initialize, AmChart-method), 71
- addAxe, AmChart, GaugeAxisOrMissing-method (initialize, AmChart-method), 71
- addAxis (initialize, AmChart-method), 71
- addAxis, AmChart, GaugeAxisOrMissing-method (initialize, AmChart-method), 71
- addBand (initialize, GaugeAxis-method), 97
- addBand, GaugeAxis, GaugeBandOrMissing-method (initialize, GaugeAxis-method), 97
- addComparedDataSet (initialize, AmStockChart-method), 85
- addComparedDataSet, AmStockChart, DataSetOrMissing-method (initialize, AmStockChart-method), 85
- addDataSet (initialize, AmStockChart-method), 85
- addDataSet, AmStockChart, DataSetOrMissing-method (initialize, AmStockChart-method), 85
- addFieldMapping (initialize, DataSet-method), 94
- addFieldMapping, DataSet-method (initialize, DataSet-method), 94
- addGraph (initialize, AmChart-method), 71
- addGraph, AmChart, AmGraphOrMissing-method (initialize, AmChart-method), 71
- addGuide (Generics functions), 65
- addGuide, AmChart, GuideOrMissing-method (initialize, AmChart-method), 71
- addGuide, AxisBase, GuideOrMissing-method, 5
- addLabel (initialize, AmChart-method), 71
- addLabel, AmChart, LabelOrMissing-method (initialize, AmChart-method), 71
- addListener, 5
- addListener, AmObject, character, character-method (addListener), 5
- addPanel (initialize, AmStockChart-method), 85
- addPanel, AmStockChart, StockPanelOrMissing-method (initialize, AmStockChart-method), 85
- addPeriod (initialize, PeriodSelector-method), 102
- addPeriod, PeriodSelector-method (initialize, PeriodSelector-method), 102

- 102
- addSegment (initialize, AmChart-method), 71
- addSegment, AmChart, numeric-method (initialize, AmChart-method), 71
- addStockEvent (initialize, DataSet-method), 94
- addStockEvent, DataSet, StockEventOrMissing-method (initialize, DataSet-method), 94
- addStockGraph (initialize, StockPanel-method), 104
- addStockGraph, StockPanel, AmGraphOrMissing-method (initialize, StockPanel-method), 104
- addSubData (initialize, AmChart-method), 71
- addSubData, AmChart, numeric-method (initialize, AmChart-method), 71
- addTitle (initialize, AmChart-method), 71
- addTitle, AmChart, TitleOrMissing-method (initialize, AmChart-method), 71
- addTrendLine (initialize, AmChart-method), 71
- addTrendLine, AmChart, TrendLineOrMissing-method (initialize, AmChart-method), 71
- addValueAxes (initialize, AmChart-method), 71
- addValueAxes, AmChart, ValueAxisOrMissing-method (initialize, AmChart-method), 71
- addValueAxis (initialize, AmChart-method), 71
- addValueAxis, AmChart, ValueAxisOrMissing-method (initialize, AmChart-method), 71
- amAngularGauge, 10, 11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- amAngularGaugeChart (initialize, AmChart-method), 71
- AmBalloon, 20, 43, 66, 69, 70, 75, 77, 87, 88, 105, 125
- amBalloon (initialize, AmBalloon-method), 69
- AmBalloon-class, 11
- amBarplot, 11, 12, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- amBoxplot, 11, 13, 14, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- amBullet, 11, 13, 15, 17, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- amCandlestick, 11, 13, 15, 17, 18, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- AmChart, 13, 15, 24, 28, 30, 34, 75, 77, 78, 113, 120, 121
- amChart (initialize, AmChart-method), 71
- AmChart-class, 20
- amChartsAPI, 11, 13, 15, 17, 19, 22, 24, 26, 28, 31, 33, 35, 36, 39, 41, 42, 45, 47, 49, 50
- amChartsOutput, 22, 114
- amFloatingBar, 11, 13, 15, 17, 19, 23, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- amFunnel, 11, 13, 15, 17, 19, 24, 25, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- amFunnelChart (initialize, AmChart-method), 71
- amGanttChart (initialize, AmChart-method), 71
- AmGraph, 21, 66, 76, 77, 83, 93, 103, 105, 106, 122, 123, 125
- amGraph (initialize, AmGraph-method), 82
- AmGraph-class, 27
- amHist, 11, 13, 15, 17, 19, 24, 26, 27, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- AmLegend, 21, 76, 77, 85, 105, 106, 124, 125
- amLegend (initialize, AmLegend-method), 84
- AmLegend-class, 29
- amLines, 30
- amMekko, 11, 13, 15, 17, 19, 24, 26, 28, 31, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- AmObject, 6, 11, 66, 121
- AmObject-class, 32
- amOHLC, 11, 13, 15, 17, 19, 24, 26, 28, 31, 32, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50
- amOptions, 10, 11, 13, 15, 17, 19, 23, 24, 26, 28, 31, 33, 34, 35–39, 41, 42, 45, 47, 49, 50
- amPie, 11, 13, 15, 17, 19, 24, 26, 28, 31, 33,

- [35, 36, 37, 39, 41, 42, 45, 47, 49, 50](#)
- `amPieChart` (`initialize`, `AmChart`-method), [71](#)
- `amPlot`, [11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 37, 39, 41, 42, 45, 47, 49, 50](#)
- `amRadar`, [11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 40, 41, 42, 45, 47, 49, 50](#)
- `amRadarChart` (`initialize`, `AmChart`-method), [71](#)
- `amSerialChart` (`initialize`, `AmChart`-method), [71](#)
- `amSolidGauge`, [11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 42, 45, 47, 49, 50](#)
- `AmStockChart`, [54, 87, 88, 120, 122–124](#)
- `amStockChart` (`initialize`, `AmStockChart`-method), [85](#)
- `AmStockChart`-class, [43](#)
- `amStockMultiSet`, [11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 44, 45, 47, 49, 50](#)
- `amTimeSeries`, [11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 45, 47, 49, 50](#)
- `amTitle` (`initialize`, `Title`-method), [107](#)
- `amWaterfall`, [11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 48, 49, 50](#)
- `amWind`, [11, 13, 15, 17, 19, 24, 26, 28, 31, 33, 35, 37, 39, 41, 42, 45, 47, 49, 50, 50](#)
- `amXYChart` (`initialize`, `AmChart`-method), [71](#)
- `api`, [51](#)
- `AxisBase`, [5](#)
- `AxisBase`-class, [51](#)
- `CategoryAxis`, [20, 76, 90, 105, 125](#)
- `categoryAxis` (`initialize`, `CategoryAxis`-method), [90](#)
- `CategoryAxis`-class, [52](#)
- `ChartCursor`, [20, 76, 91, 92, 105, 125](#)
- `chartCursor` (`initialize`, `ChartCursor`-method), [91](#)
- `ChartCursor`-class, [52](#)
- `ChartScrollbar`, [20, 21, 76, 88, 93, 105, 106, 125](#)
- `chartScrollbar` (`initialize`, `ChartScrollbar`-method), [92](#)
- `ChartScrollbar`-class, [53](#)
- `chartScrollbarSettings` (`initialize`, `ChartScrollbar`-method), [92](#)
- `controlShinyPlot`, [54](#)
- `data_AirPassengers`, [55](#)
- `data_bar`, [12, 56](#)
- `data_candleStick1`, [18, 56](#)
- `data_candleStick2`, [18, 57](#)
- `data_fbar`, [23, 57](#)
- `data_funnel`, [25, 58](#)
- `data_gantt`, [58](#)
- `data_gbar`, [12, 59](#)
- `data_gdp`, [59](#)
- `data_mekko`, [31, 60](#)
- `data_pie`, [36, 60](#)
- `data_radar`, [40, 61](#)
- `data_stock1`, [61](#)
- `data_stock_2`, [62](#)
- `data_stock_3`, [62](#)
- `data_waterfall`, [49, 63](#)
- `data_wind`, [50, 63](#)
- `DataSet`, [43, 87, 88, 94, 95](#)
- `dataSet` (`initialize`, `DataSet`-method), [94](#)
- `DataSet`-class, [54](#)
- `DataSetSelector`, [43, 87, 96](#)
- `dataSetSelector` (`initialize`, `DataSetSelector`-method), [95](#)
- `DataSetSelector`-class, [55](#)
- `GaugeArrow`, [20, 75, 77, 97, 125](#)
- `gaugeArrow` (`initialize`, `GaugeArrow`-method), [96](#)
- `GaugeArrow`-class, [64](#)
- `GaugeAxis`, [20, 64, 75, 77, 97, 98, 105, 125](#)
- `gaugeAxis` (`initialize`, `GaugeAxis`-method), [97](#)
- `GaugeAxis`-class, [64](#)
- `GaugeBand`, [64, 98, 99](#)
- `gaugeBand` (`initialize`, `GaugeBand`-method), [98](#)

- GaugeBand-class, [65](#)
- Generics functions, [65](#)
- getCurrentStockData, [67](#)
- getTransformTS, [68](#)
- graph (initialize, AmGraph-method), [82](#)
- Guide, [5](#), [21](#), [66](#), [76](#), [77](#), [91](#), [100](#), [105](#), [110](#), [125](#)
- guide (initialize, Guide-method), [99](#)
- Guide-class, [69](#)

- initialize, AmBalloon-method, [69](#)
- initialize, AmChart-method, [71](#)
- initialize, AmGraph-method, [82](#)
- initialize, AmLegend-method, [84](#)
- initialize, AmStockChart-method, [85](#)
- initialize, CategoryAxis-method, [90](#)
- initialize, ChartCursor-method, [91](#)
- initialize, ChartScrollbar-method, [92](#)
- initialize, DataSet-method, [94](#)
- initialize, DataSetSelector-method, [95](#)
- initialize, GaugeArrow-method, [96](#)
- initialize, GaugeAxis-method, [97](#)
- initialize, GaugeBand-method, [98](#)
- initialize, Guide-method, [99](#)
- initialize, Label-method, [100](#)
- initialize, PeriodSelector-method, [102](#)
- initialize, StockEvent-method, [103](#)
- initialize, StockPanel-method, [104](#)
- initialize, Title-method, [107](#)
- initialize, TrendLine-method, [108](#)
- initialize, ValueAxis-method, [110](#)

- Label, [20](#), [75](#), [77](#), [101](#), [105](#), [125](#)
- label (initialize, Label-method), [100](#)
- Label-class, [111](#)
- legend (initialize, AmLegend-method), [84](#)
- listProperties, [111](#)
- listProperties, AmObject-method (listProperties), [111](#)

- NS, [114](#), [116](#)

- panel (initialize, StockPanel-method), [104](#)
- PeriodSelector, [43](#), [87](#), [102](#)
- periodSelector (initialize, PeriodSelector-method), [102](#)
- PeriodSelector-class, [112](#)
- plot, AmCharts-method, [113](#)

- print, AmObject-method, [113](#)

- rAmCharts-shinymodules, [114](#)
- rAmCharts-shinymodules-ts, [115](#)
- rAmChartsExportServer (rAmCharts-shinymodules), [114](#)
- rAmChartsExportServerUI (rAmCharts-shinymodules), [114](#)
- rAmChartsTimeSeriesServer (rAmCharts-shinymodules-ts), [115](#)
- rAmChartsTimeSeriesUI, [43](#), [47](#), [88](#)
- rAmChartsTimeSeriesUI (rAmCharts-shinymodules-ts), [115](#)
- renderAmCharts, [119](#)
- resetProperties (addListener), [5](#)
- resetProperties, AmObject-method (addListener), [5](#)
- runExamples, [119](#)

- setAdjustBorderColor (initialize, AmBalloon-method), [69](#)
- setAdjustBorderColor, AmBalloon, logical-method (initialize, AmBalloon-method), [69](#)
- setAllLabels (initialize, AmChart-method), [71](#)
- setAllLabels, AmChart, list-method (initialize, AmChart-method), [71](#)
- setArrows (initialize, AmChart-method), [71](#)
- setArrows, AmChart-method (initialize, AmChart-method), [71](#)
- setAxes (initialize, AmChart-method), [71](#)
- setAxes, AmChart, list-method (initialize, AmChart-method), [71](#)
- setAxis (initialize, GaugeArrow-method), [96](#)
- setAxis, GaugeArrow, GaugeAxisOrCharacterOrMissing-method (initialize, GaugeArrow-method), [96](#)
- setBalloon (Generics functions), [65](#)
- setBalloon, AmChart, AmBalloonOrMissing-method (initialize, AmChart-method), [71](#)
- setBalloon, AmStockChart, AmBalloonOrMissing-method (initialize, AmStockChart-method), [85](#)

- setBalloonText
(initialize, AmGraph-method), 82
- setBalloonText, AmGraph, character-method
(initialize, AmGraph-method), 82
- setBands (initialize, GaugeAxis-method),
97
- setBands, GaugeAxis, list-method
(initialize, GaugeAxis-method),
97
- setBold (initialize, Label-method), 100
- setBold, Label, logical-method
(initialize, Label-method), 100
- setCategoryAxesSettings
(initialize, AmStockChart-method),
85
- setCategoryAxesSettings, AmStockChart-method
(initialize, AmStockChart-method),
85
- setCategoryAxis
(initialize, AmChart-method), 71
- setCategoryAxis, AmChart-method
(initialize, AmChart-method), 71
- setCategoryField
(initialize, AmChart-method), 71
- setCategoryField, AmChart, character-method
(initialize, AmChart-method), 71
- setChartCursor
(initialize, AmChart-method), 71
- setChartCursor, AmChart, ChartCursorOrMissing-method
(initialize, AmChart-method), 71
- setChartCursorSettings
(initialize, AmStockChart-method),
85
- setChartCursorSettings, AmStockChart-method
(initialize, AmStockChart-method),
85
- setChartScrollbar
(initialize, AmChart-method), 71
- setChartScrollbar, AmChart, ChartScrollbarOrMissing-method
(initialize, AmChart-method), 71
- setChartScrollbarSettings
(initialize, AmStockChart-method),
85
- setChartScrollbarSettings, AmStockChart, ChartScrollbarOrMissing-method
(initialize, AmStockChart-method),
85
- setColor (initialize, AmBalloon-method),
69
- setColor, AmBalloon, character-method
(initialize, AmBalloon-method),
69
- setComparedDataSets
(initialize, AmStockChart-method),
85
- setComparedDataSets, AmStockChart-method
(initialize, AmStockChart-method),
85
- setCornerRadius
(initialize, AmBalloon-method),
69
- setCornerRadius, AmBalloon, numeric-method
(initialize, AmBalloon-method),
69
- setCreditsPosition
(initialize, AmChart-method), 71
- setCreditsPosition, AmChart, character-method
(initialize, AmChart-method), 71
- setDataLoader
(initialize, AmChart-method), 71
- setDataLoader, AmChart, character, character-method
(initialize, AmChart-method), 71
- setDataProvider (Generics functions), 65
- setDataProvider, AmChart, ANY, logicalOrMissing-method
(initialize, AmChart-method), 71
- setDataProvider, DataSet, ANY, ANY-method
(initialize, DataSet-method), 94
- setDataSets
(initialize, AmStockChart-method),
85
- setDataSets, AmStockChart-method
(initialize, AmStockChart-method),
85
- setDataSetSelector
(initialize, AmStockChart-method),
85
- setDataSetSelector, AmStockChart-method
(initialize, AmStockChart-method),
85
- setDrawOnAxis
(initialize, StockPanel-method),
104
- setDrawOnAxis, AmStockPanel, ValueAxisOrCharacterOrMissing-method
(initialize, StockPanel-method),
104
- setEnabled
(initialize, ChartScrollbar-method),

- 92
- setEnabled, ChartScrollbar, logical-method
(initialize, ChartScrollbar-method),
92
- setExport, 120
- setExport, AmCharts, logicalOrMissing-method
(setExport), 120
- setFieldMappings
(initialize, DataSet-method), 94
- setFieldMappings, DataSet, list-method
(initialize, DataSet-method), 94
- setFillAlpha (initialize, Guide-method),
99
- setFillAlpha, Guide, numeric-method
(initialize, Guide-method), 99
- setFillColor
(initialize, AmBalloon-method),
69
- setFillColor, AmBalloon, character-method
(initialize, AmBalloon-method),
69
- setFinalValue
(initialize, TrendLine-method),
108
- setFinalValue, TrendLine, numeric-method
(initialize, TrendLine-method),
108
- setFinalXValue
(initialize, TrendLine-method),
108
- setFinalXValue, TrendLine, numeric-method
(initialize, TrendLine-method),
108
- setGraph (Generics functions), 65
- setGraph, AmChart, AmGraphOrMissing-method
(initialize, AmChart-method), 71
- setGraph, ChartScrollbar, AmGraphOrCharacterOrMissing-method
(initialize, ChartScrollbar-method),
92
- setGraphs (initialize, AmChart-method),
71
- setGraphs, AmChart, list-method
(initialize, AmChart-method), 71
- setGridPosition
(initialize, CategoryAxis-method),
90
- setGridPosition, CategoryAxis, character-method
(initialize, CategoryAxis-method),
90
- 90
- setGuides (initialize, AmChart-method),
71
- setGuides, AmChart, list-method
(initialize, AmChart-method), 71
- setID (initialize, GaugeBand-method), 98
- setID, GaugeBand-method
(initialize, GaugeBand-method),
98
- setInitialValue
(initialize, TrendLine-method),
108
- setInitialValue, TrendLine, numeric-method
(initialize, TrendLine-method),
108
- setInitialXValue
(initialize, TrendLine-method),
108
- setInitialXValue, TrendLine, numeric-method
(initialize, TrendLine-method),
108
- setLegend (initialize, AmChart-method),
71
- setLegend, AmChart, AmLegendOrMissing-method
(initialize, AmChart-method), 71
- setLegendSettings
(initialize, AmStockChart-method),
85
- setLegendSettings, AmStockChart-method
(initialize, AmStockChart-method),
85
- setMainDataSet
(initialize, AmStockChart-method),
85
- setMainDataSet, AmStockChart, DataSetOrMissing-method
(initialize, AmStockChart-method),
85
- setOneBalloonOnly
(initialize, ChartCursor-method),
91
- setOneBalloonOnly, ChartCursor, logical-method
(initialize, ChartCursor-method),
91
- setPanels
(initialize, AmStockChart-method),
85
- setPanels, AmStockChart, list-method
(initialize, AmStockChart-method),

- 85
- setPanelsSettings
(initialize, AmStockChart-method),
85
- setPanelsSettings, AmStockChart-method
(initialize, AmStockChart-method),
85
- setPeriodSelector
(initialize, AmStockChart-method),
85
- setPeriodSelector, AmStockChart, PeriodSelectorOrMissing-method
(initialize, AmStockChart-method),
85
- setPosition
(initialize, DataSetSelector-method),
95
- setPosition, DataSetSelector, character-method
(initialize, DataSetSelector-method),
95
- setProperties, 34
- setProperties (addListener), 5
- setProperties, AmObject-method
(addListener), 5
- setResponsive (setExport), 120
- setResponsive, AmCharts, logicalOrMissing-method
(setExport), 120
- setSize (initialize, Title-method), 107
- setSize, Title, numeric-method
(initialize, Title-method), 107
- setStockEvents
(initialize, DataSet-method), 94
- setStockEvents, DataSet, list-method
(initialize, DataSet-method), 94
- setStockEventsSettings
(initialize, AmStockChart-method),
85
- setStockEventsSettings, AmStockChart-method
(initialize, AmStockChart-method),
85
- setStockGraph
(initialize, StockEvent-method),
103
- setStockGraph, StockEvent, AmGraphOrCharacterOrMissing-method
(initialize, StockEvent-method),
103
- setStockGraphs
(initialize, StockPanel-method),
104
- setStockGraphs, StockPanel, list-method
(initialize, StockPanel-method),
104
- setStockLegend
(initialize, StockPanel-method),
104
- setStockLegend, StockPanel, AmLegendOrMissing-method
(initialize, StockPanel-method),
104
- setSubChartProperties
(initialize, AmChart-method), 71
- setSubChartProperties, AmChart-method
(initialize, AmChart-method), 71
- setText (Generics functions), 65
- setText, Label, character-method
(initialize, Label-method), 100
- setText, Title, character-method
(initialize, Title-method), 107
- setTheme (initialize, AmChart-method), 71
- setTheme, AmChart, character-method
(initialize, AmChart-method), 71
- setTitle (Generics functions), 65
- setTitle, AmGraph, character-method
(initialize, AmGraph-method), 82
- setTitle, ValueAxis, character-method
(initialize, ValueAxis-method),
110
- setTitles (initialize, AmChart-method),
71
- setTitles, AmChart, list-method
(initialize, AmChart-method), 71
- setTrendLines
(initialize, AmChart-method), 71
- setTrendLines, AmChart, list-method
(initialize, AmChart-method), 71
- setType (Generics functions), 65
- setType, AmChart, character-method
(initialize, AmChart-method), 71
- setType, AmGraph, character-method
(initialize, AmGraph-method), 82
- setUseGraphSettings
(initialize, AmLegend-method),
84
- setUseGraphSettings, AmLegend, logical-method
(initialize, AmLegend-method),
84
- setValueAxes
(initialize, AmChart-method), 71

- setValueAxes, AmChart, list-method
(initialize, AmChart-method), 71
- setValueAxesSettings
(initialize, AmStockChart-method), 85
- setValueAxesSettings, AmStockChart-method
(initialize, AmStockChart-method), 85
- setValueAxis (Generics functions), 65
- setValueAxis, AmChart, ValueAxisOrMissing-method
(initialize, AmChart-method), 71
- setValueAxis, Guide, ValueAxisOrCharacterOrMissing-method
(initialize, Guide-method), 99
- setValueAxis, TrendLine, ValueAxisOrCharacterOrMissing-method
(initialize, TrendLine-method), 108
- setValueAxisX
(initialize, TrendLine-method), 108
- setValueAxisX, TrendLine, ValueAxisOrCharacterOrMissing-method
(initialize, TrendLine-method), 108
- setValueField
(initialize, AmGraph-method), 82
- setValueField, AmGraph, character-method
(initialize, AmGraph-method), 82
- setValueLineAxis
(initialize, ChartCursor-method), 91
- setValueLineAxis, ChartCursor, ValueAxisOrCharacterOrMissing-method
(initialize, ChartCursor-method), 91
- setValueScrollbar
(initialize, AmChart-method), 71
- setValueScrollbar, AmChart, ChartScrollbarOrMissing-method
(initialize, AmChart-method), 71
- setX (initialize, Label-method), 100
- setX, Label, numericOrCharacter-method
(initialize, Label-method), 100
- setY (initialize, Label-method), 100
- setY, Label, numericOrCharacter-method
(initialize, Label-method), 100
- show, AmChart-method, 121
- show, AmObject-method, 121
- show, AmStockChart-method, 122
- StockEvent, 54, 95, 103
- stockEvent
(initialize, StockEvent-method), 103
- StockEvent-class, 122
- stockGraph, 123
- stockLegend, 124
- StockPanel, 43, 87, 88, 105, 106
- stockPanel
(initialize, StockPanel-method), 104
- StockPanel-class, 124
- Title, 21, 76, 77, 106, 107, 125
- title (initialize, Title-method), 107
- Title-class, 126
- TrendLine, 21, 76, 77, 106, 109, 126
- trendLine
(initialize, TrendLine-method), 108
- TrendLine-class, 127
- ValueAxis, 21, 66, 69, 76, 92, 100, 106, 109, 110, 125–127
- valueAxis
(initialize, ValueAxis-method), 110
- ValueAxis-class, 127