

Package: lightweightchartR (via r-universe)

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Type Package

Title Pipe-First TradingView Lightweight Charts for Quantmod Workflows

Version 0.1.1

Description Wraps TradingView's lightweight-charts library as an htmlwidgets package with a pipe-first API designed around quantmod, xts, and common trading workflows.

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URL <https://arkraieski.github.io/lightweightchartR/>,
<https://github.com/arkraieski/lightweightchartR>,
<https://kraieski.dev>

BugReports <https://github.com/arkraieski/lightweightchartR/issues>

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Repository <https://arkraieski.r-universe.dev>

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Contents

add_area	2
add_bars	3
add_bbands	3
add_candles	4
add_ema	5
add_histogram	5
add_line	6
add_macd	7
add_rsi	7
add_sma	8
add_ta	9
add_volume	10
chart_series_lwc	10
lightweightchartR-shiny	11
lwc_chart	12
rechart_lwc	13
Index	14

add_area	<i>Add an area series from a chart column</i>
----------	---

Description

Add an area series from a chart column

Usage

```
add_area(chart, column = NULL, pane = "price", name = NULL, color = "#0f766e")
```

Arguments

chart	A lightweightchartR chart object.
column	Source column. Defaults to the close column.
pane	Target pane.
name	Optional series name.
color	Series color.

Value

The updated chart object.

add_bars	<i>Add OHLC bars from chart data</i>
----------	--------------------------------------

Description

Add OHLC bars from chart data

Usage

```
add_bars(  
  chart,  
  pane = "price",  
  name = "Bars",  
  up_col = "#26a69a",  
  down_col = "#ef5350"  
)
```

Arguments

chart	A lightweightchartR chart object.
pane	Target pane.
name	Optional series name.
up_col, down_col	Rising and falling colors.

Value

The updated chart object.

add_bbands	<i>Add Bollinger Bands</i>
------------	----------------------------

Description

Add Bollinger Bands

Usage

```
add_bbands(  
  chart,  
  n = 20,  
  sd = 2,  
  column = NULL,  
  pane = "price",  
  color = "#7c3aed",  
  ...  
)
```

Arguments

chart	A lightweightchartR chart object.
n	Window size.
sd	Number of standard deviations.
column	Source column. Defaults to the close column.
pane	Target pane.
color	Series color.
...	Reserved for future extensions.

Value

The updated chart object.

add_candles	<i>Add candlesticks from chart data</i>
-------------	---

Description

Add candlesticks from chart data

Usage

```
add_candles(
  chart,
  pane = "price",
  name = "Candles",
  up_col = "#26a69a",
  down_col = "#ef5350"
)
```

Arguments

chart	A lightweightchartR chart object.
pane	Target pane.
name	Optional series name.
up_col, down_col	Rising and falling colors.

Value

The updated chart object.

add_ema	<i>Add an exponential moving average</i>
---------	--

Description

Add an exponential moving average

Usage

```
add_ema(chart, n = 20, column = NULL, pane = "price", color = "#ea580c", ...)
```

Arguments

chart	A <code>lightweightchartR</code> chart object.
n	Window size.
column	Source column. Defaults to the close column.
pane	Target pane.
color	Series color.
...	Reserved for future extensions.

Value

The updated chart object.

add_histogram	<i>Add a histogram series from a chart column</i>
---------------	---

Description

Add a histogram series from a chart column

Usage

```
add_histogram(  
  chart,  
  column = NULL,  
  pane = "histogram",  
  name = NULL,  
  color = "#7c3aed",  
  pane_height = 1  
)
```

Arguments

chart	A lightweightchartR chart object.
column	Source column. Defaults to the close column.
pane	Target pane.
name	Optional series name.
color	Series color.
pane_height	Relative pane height for the target pane.

Value

The updated chart object.

add_line	<i>Add a line series from a chart column</i>
----------	--

Description

Add a line series from a chart column

Usage

```
add_line(chart, column = NULL, pane = "price", name = NULL, color = "#2563eb")
```

Arguments

chart	A lightweightchartR chart object.
column	Source column. Defaults to the close column.
pane	Target pane.
name	Optional series name.
color	Series color.

Value

The updated chart object.

add_macd	<i>Add MACD in a separate pane by default</i>
----------	---

Description

Add MACD in a separate pane by default

Usage

```
add_macd(  
  chart,  
  nFast = 12,  
  nSlow = 26,  
  nSig = 9,  
  column = NULL,  
  pane = "macd",  
  pane_height = 1,  
  ...  
)
```

Arguments

chart	A lightweightchartR chart object.
nFast, nSlow, nSig	MACD periods.
column	Source column. Defaults to the close column.
pane	Target pane.
pane_height	Relative pane height for the RSI pane.
...	Reserved for future extensions.

Value

The updated chart object.

add_rsi	<i>Add RSI in a separate pane by default</i>
---------	--

Description

Add RSI in a separate pane by default

Usage

```
add_rsi(
  chart,
  n = 14,
  column = NULL,
  pane = "rsi",
  color = "#dc2626",
  pane_height = 0.8,
  ...
)
```

Arguments

chart	A lightweightchartR chart object.
n	Window size.
column	Source column. Defaults to the close column.
pane	Target pane.
color	Series color.
pane_height	Relative pane height for the RSI pane.
...	Reserved for future extensions.

Value

The updated chart object.

add_sma	<i>Add a simple moving average</i>
---------	------------------------------------

Description

Add a simple moving average

Usage

```
add_sma(chart, n = 20, column = NULL, pane = "price", color = "#2563eb", ...)
```

Arguments

chart	A lightweightchartR chart object.
n	Window size.
column	Source column. Defaults to the close column.
pane	Target pane.
color	Series color.
...	Reserved for future extensions.

Value

The updated chart object.

add_ta	<i>Add a generic indicator or comparison series</i>
--------	---

Description

Add a generic indicator or comparison series

Usage

```
add_ta(
  chart,
  values,
  type = c("line", "area", "histogram"),
  pane = "price",
  name = NULL,
  color = "#2563eb",
  pane_height = NULL,
  overlay = identical(pane, "price")
)
```

Arguments

chart	A <code>lightweightchartR</code> chart object.
values	An <code>xts</code> , <code>zoo</code> , or data frame object with a time column.
type	One of "line", "area", or "histogram".
pane	Target pane. Defaults to "price".
name	Optional display name.
color	Optional series color.
pane_height	Relative pane height for new panes.
overlay	Whether to overlay on the existing price scale.

Value

The updated chart object.

add_volume	<i>Add volume bars</i>
------------	------------------------

Description

Add volume bars

Usage

```
add_volume(
  chart,
  pane = "price",
  color_up = "#26a69a",
  color_down = "#ef5350",
  pane_height = 0.6
)
```

Arguments

chart	A lightweightchartR chart object.
pane	Target pane. Defaults to "volume".
color_up, color_down	Colors for rising/falling volume bars.
pane_height	Relative pane height for the volume pane.

Value

The updated chart object.

chart_series_lwc	<i>Compatibility wrapper for quantmod users</i>
------------------	---

Description

chart_series_lwc() offers a quantmod-flavored bridge into the pipe-first chart API. It recognizes a small subset of common chartSeries() and addTA() workflows.

Usage

```
chart_series_lwc(
  x,
  type = c("auto", "candles", "bars", "line", "area"),
  subset = NULL,
  show.grid = TRUE,
  name = NULL,
```

```

log.scale = FALSE,
TA = NULL,
theme = c("light", "dark"),
up.col = "#26a69a",
dn.col = "#ef5350",
...
)

```

Arguments

x	Market data. Usually an xts object with OHLC or OHLCV columns.
type	Base series type. "auto" chooses candlesticks when OHLC data is available and a line chart otherwise.
subset	Optional quantmod-style subset string, passed through xts.
show.grid	Included for API familiarity. Currently ignored.
name	Optional display name for the chart.
log.scale	Included for API familiarity. Currently ignored.
TA	Optional semicolon-delimited TA expressions like "addVo(); addSMA(n = 20)".
theme	"light" or "dark".
up.col, dn.col	Rising and falling colors for price series.
...	Reserved for future compatibility arguments.

Value

A lightweightchartR chart widget.

lightweightchartR-shiny

Shiny bindings for lightweightchartR

Description

Shiny bindings for lightweightchartR

Usage

```

lightweightchartROutput(outputId, width = "100%", height = "480px")

renderLightweightchartR(expr, env = parent.frame(), quoted = FALSE)

```

Arguments

outputId	Output variable to read from.
width, height	CSS dimensions for the widget container.
expr	An expression that generates a chart.
env	The environment in which to evaluate expr.
quoted	Is expr already quoted?

lwc_chart	<i>Create a lightweight chart</i>
-----------	-----------------------------------

Description

`lwc_chart()` creates a TradingView lightweight chart widget from `xts`, `zoo`, or data frame inputs. The result is a pipeable chart object that can be extended with `add_*`(`)` helpers.

Usage

```
lwc_chart(
  data,
  type = c("auto", "candles", "bars", "line", "area"),
  subset = NULL,
  name = NULL,
  theme = c("light", "dark"),
  width = NULL,
  height = NULL,
  elementId = NULL,
  up_col = "#26a69a",
  down_col = "#ef5350",
  ta_tooltip = TRUE,
  ta_tooltip_threshold = 14
)
```

Arguments

data	Market data. Usually an <code>xts</code> object with OHLC or OHLCV columns.
type	Base series type. "auto" chooses candlesticks when OHLC data is available and a line chart otherwise.
subset	Optional <code>quantmod</code> -style subset string, passed through <code>xts</code> .
name	Optional display name for the chart.
theme	"light" or "dark".
width, height	Widget dimensions passed to <code>htmlwidgets</code> .
elementId	Optional element id.
up_col, down_col	Rising/falling color defaults for price series.

ta_tooltip Whether to show hover tooltips for price-pane technical analysis overlays.
 ta_tooltip_threshold Pixel distance used to match the pointer to the nearest overlay line for the TA tooltip.

Value

An htmlwidget object that also supports pipe-based layer helpers.

rechart_lwc	<i>Reconfigure an existing chart</i>
-------------	--------------------------------------

Description

rechart_lwc() updates global display options on an existing chart.

Usage

```
rechart_lwc(chart, theme = NULL, ...)
```

Arguments

chart A lightweightchartR chart object.
 theme Optional replacement theme.
 ... Additional lightweight-charts chart options merged into the existing top-level options.

Value

The updated chart object.

Index

[add_area](#), [2](#)
[add_bars](#), [3](#)
[add_bbands](#), [3](#)
[add_candles](#), [4](#)
[add_ema](#), [5](#)
[add_histogram](#), [5](#)
[add_line](#), [6](#)
[add_macd](#), [7](#)
[add_rsi](#), [7](#)
[add_sma](#), [8](#)
[add_ta](#), [9](#)
[add_volume](#), [10](#)

[chart_series_lwc](#), [10](#)

[lightweightchartR-shiny](#), [11](#)
[lightweightchartROutput](#)
 ([lightweightchartR-shiny](#)), [11](#)
[lwc_chart](#), [12](#)

[rechart_lwc](#), [13](#)
[renderLightweightchartR](#)
 ([lightweightchartR-shiny](#)), [11](#)