Package: obsplot (via r-universe)

August 12, 2024

Type Package

Title Create Charts with 'Observable Plot'

Version 0.0.2.9000

Date 2021-10-11

Maintainer Julien Barnier <julien.barnier@cnrs.fr>

Description Creation of charts with the 'Observable Plot' 'JavaScript' library.

VignetteBuilder knitr

URL https://juba.github.io/obsplot/

BugReports https://github.com/juba/obsplot/issues

License GPL (>=3)

Encoding UTF-8

LazyData true

Enhances shiny

Imports htmlwidgets, jsonlite, purrr, rlang

Suggests palmerpenguins, knitr, dplyr, stringr, rmarkdown, testthat (>= 3.0.0)

RoxygenNote 7.1.2

Roxygen list(markdown = TRUE)

Depends R (>= 4.1)

Config/testthat/edition 3

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

RemoteUrl https://github.com/juba/obsplot

RemoteRef HEAD

RemoteSha c4013a78e8f74b21e57ff7082102a44effc4523f

Contents

aapl . . . 3
alphabet . . . 3
anscombe_obs . . . 4
as_data . . . 4
athletes . . . 5
barley . . . 5
bls . . . 6
bls_unemployment . . . 6
caltrain . . . 7
civilizations . . . 7
congress . . . 8
crimea . . . 8
diamonds_obs . . . 9
dji . . . 9
driving . . . 10
facet . . . 10
gistemp . . . 11
income . . . 11
iowa . . . 12
mark_area . . . 12
mark_frame . . . 13
mark_function . . . 14
mark_svg . . . 14
metros . . . 15
mobydick1 . . . 15
obsplot . . . 16
obsplot-shiny . . . 16
opts . . . 17
popchange . . . 17
povcalnet . . . 18
riaa . . . 18
scale_color . . . 19
seattle . . . 19
sfcases . . . 20
sftemp . . . 20
simpsons . . . 21
stateage . . . 21
stocks . . . 22
style . . . 22
to_js_date . . . 23
transform_bin . . . 23
transform_mapX . . . 24
transform_normalizeX . . . 24
transform_selectFirst . . . 25
transform_windowX . . . 25
travelers . . . 26

trends2020 26
unemployment 27

Index **28**

`aapl` *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
aapl
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1260 rows and 7 columns.

Source

https://observablehq.com/@observablehq/plot-area

`alphabet` *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
alphabet
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 26 rows and 2 columns.

Source

https://observablehq.com/@observablehq/plot-dot

anscombe_obs *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
anscombe_obs
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 44 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-facets

as_data *Tells obsplot that a single value is a vector channel, and must be converted to an Array in JavaScript*

Description

Tells obsplot that a single value is a vector channel, and must be converted to an Array in JavaScript

Usage

```
as_data(x)
```

Arguments

x	the object to be considered as a vector channel

athletes *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
athletes
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 11538 rows and 12 columns.

Source

https://observablehq.com/@observablehq/plot-bin

barley *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
barley
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 120 rows and 4 columns.

Source

https://observablehq.com/@observablehq/plot-facets

bls *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
bls
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1708 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-area

bls_unemployment *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
bls_unemployment
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 7470 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-line

caltrain *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
caltrain
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 78 rows and 7 columns.

Source

https://observablehq.com/@observablehq/plot-text

civilizations *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
civilizations
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 51 rows and 7 columns.

Source

https://observablehq.com/@observablehq/plot-bar

congress — *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
congress
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 887 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-stack

crimea — *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
crimea
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 72 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-stack

diamonds_obs *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
diamonds_obs
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 53940 rows and 2 columns.

Source

https://observablehq.com/@observablehq/plot-dot

dji *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
dji
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 5080 rows and 7 columns.

Source

https://observablehq.com/@observablehq/plot-cell

driving *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
driving
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 55 rows and 4 columns.

Source

https://observablehq.com/@observablehq/plot-dot

facet *Add a facet to an obsplot*

Description

Add a facet to an obsplot

Usage

```
facet(g, data = NULL, ...)
```

Arguments

`g`	an obsplot object
`data`	optional data
`...`	options passed to define the facet

gistemp *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
gistemp
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1644 rows and 2 columns.

Source

https://observablehq.com/@observablehq/plot-dot

income *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
income
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 49 rows and 4 columns.

Source

https://observablehq.com/@observablehq/plot-link

iowa — *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
iowa
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 171 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-stack

mark_area — *Add a mark to an obsplot*

Description

Add a mark to an obsplot

Usage

```
mark_area(g, ...)

mark_areaX(g, ...)

mark_areaY(g, ...)

mark_barX(g, ...)

mark_barY(g, ...)

mark_cell(g, ...)

mark_cellX(g, ...)

mark_cellY(g, ...)

mark_dot(g, ...)
```

```
mark_dotX(g, ...)

mark_dotY(g, ...)

mark_line(g, ...)

mark_lineX(g, ...)

mark_lineY(g, ...)

mark_link(g, ...)

mark_rect(g, ...)

mark_rectX(g, ...)

mark_rectY(g, ...)

mark_ruleX(g, ...)

mark_ruleY(g, ...)

mark_text(g, ...)

mark_textX(g, ...)

mark_textY(g, ...)

mark_tickX(g, ...)

mark_tickY(g, ...)

mark_image(g, ...)
```

Arguments

g	an obsplot object
...	named options passed to define the mark ... arguments can accept at most two unnamed arguments : a data object and a call to a transform function.

`mark_frame` *Add a decoration mark to an obsplot*

Description

Add a decoration mark to an obsplot

Usage

```
mark_frame(g, fill = "none", ...)
```

Arguments

g	an obsplot object
fill	fill CSS color
...	options passed to define the mark

---

mark_function *Add a render function mark to an obsplot*

Description

Add a render function mark to an obsplot

Usage

```
mark_function(g, f, ...)
```

Arguments

g	an obsplot object
f	render function, defined with `htmlwidgets::JS()`
...	options passed to define the mark

---

mark_svg *Add an SVG element to an obsplot*

Description

Add an SVG element to an obsplot

Usage

```
mark_svg(g, svg, ...)
```

Arguments

g	an obsplot object
svg	SVG to add, as a character string
...	options passed to define the mark

metros *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
metros
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 195 rows and 10 columns.

Source

https://observablehq.com/@observablehq/plot-link

mobydick1 *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
mobydick1
```

Format

An object of class `character` of length 9622.

Source

https://observablehq.com/@observablehq/plot-group

obsplot *Create a new obsplot*

Description

Create a new obsplot

Usage

```
obsplot(
  data = NULL,
  width = "auto",
  height = "auto",
  menu = getOption("obsplot_menu"),
  elementId = NULL,
  ...
)
```

Arguments

data	optional data.frame as primary data source
width	plot width. Use NULL to let Plot decide, or "auto" to let htmlwidgets decide
height	plot height. Use NULL to let Plot decide, or "auto" to let htmlwidgets decide
menu	if TRUE, display a gear menu aside the plot with additional features. Can be set globally with `options("obsplot_menu")`
elementId	optional custom element id, passed to createWidget()
...	named options passed to Observable Plot

obsplot-shiny *Shiny bindings for obsplot*

Description

Output and render functions for using obsplot within Shiny applications and interactive Rmd documents.

Usage

```
obsplotOutput(outputId, width = "100%", height = "400px")

renderObsplot(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a obsplot
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

---

opts *Define an obsplot options*

Description

Define an obsplot options

Usage

```
opts(g, ...)
```

Arguments

g	an obsplot object
...	named options

---

popchange *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
popchange
```

Format

An object of class spec_tbl_df (inherits from tbl_df, tbl, data.frame) with 52 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-bar

povcalnet — *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
povcalnet
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 173 rows and 32 columns.

Source

https://observablehq.com/@observablehq/plot-rect

riaa — *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
riaa
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1081 rows and 4 columns.

Source

https://observablehq.com/@observablehq/plot-stack

scale_color *Define an obsplot scale options*

Description

Define an obsplot scale options

Usage

```
scale_color(g, ...)

scale_opacity(g, ...)

scale_r(g, ...)

scale_x(g, ...)

scale_y(g, ...)

scale_fx(g, ...)

scale_fy(g, ...)
```

Arguments

g	an obsplot object
...	named scale options

seattle *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
seattle
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1461 rows and 6 columns.

Source

https://observablehq.com/@observablehq/plot-cell

sfcases *Sample data from Observable Plot changelog*

Description

Sample data from Observable Plot changelog

Usage

```
sfcases
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1797 rows and 5 columns.

Source

https://observablehq.com/@visnup/sf-covid-data

sftemp *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
sftemp
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 732 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-area

simpsons *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
simpsons
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 600 rows and 13 columns.

Source

https://observablehq.com/@observablehq/plot-cell

stateage *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
stateage
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 468 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-dot

stocks *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
stocks
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 5040 rows and 8 columns.

Source

https://observablehq.com/@observablehq/plot-line

style *Define an obsplot style options*

Description

Define an obsplot style options

Usage

```
style(g, ...)
```

Arguments

g	an obsplot object
...	named style options

to_js_date *Convert a Date or POSIXt object to a JS Date format*

Description

Convert a Date or POSIXt object to a JS Date format

Usage

```
to_js_date(date)
```

Arguments

date	object to be converted

Value

Numeric value representing the number of milliseconds between Unix Epoch (1 January 1970 UTC) and date.

transform_bin *Define an Observable Plot transform with outputs and options*

Description

Define an Observable Plot transform with outputs and options

Usage

```
transform_bin(...)

transform_binX(...)

transform_binY(...)

transform_group(...)

transform_groupX(...)

transform_groupY(...)

transform_groupZ(...)

transform_map(...)
```

Arguments

...	transform outputs and options

Details

the first argument passed to the function is passed as outputs to the JavaScript transform. It can be a single value or a list.

---

transform_mapX *Define an Observable Plot transform with map and options*

Description

Define an Observable Plot transform with map and options

Usage

```
transform_mapX(map, ...)

transform_mapY(map, ...)
```

Arguments

map	a map method name
...	transform options

---

transform_normalizeX *Define an Observable Plot transform with basis and options*

Description

Define an Observable Plot transform with basis and options

Usage

```
transform_normalizeX(basis = NULL, ...)

transform_normalizeY(basis = NULL, ...)
```

Arguments

basis	a basis method name
...	transform options

transform_selectFirst *Define an Observable Plot transform options only*

Description

Define an Observable Plot transform options only

Usage

```
transform_selectFirst(...)

transform_selectLast(...)

transform_selectMinX(...)

transform_selectMaxX(...)

transform_selectMinY(...)

transform_selectMaxY(...)
```

Arguments

...	transform options

transform_windowX *Define an Observable Plot transform with two options objects*

Description

Define an Observable Plot transform with two options objects

Usage

```
transform_windowX(spec = NULL, ...)

transform_windowY(spec = NULL, ...)

transform_stackY(spec = NULL, ...)

transform_stackY1(spec = NULL, ...)

transform_stackY2(spec = NULL, ...)

transform_stackX(spec = NULL, ...)
```

```
transform_stackX1(spec = NULL, ...)

transform_stackX2(spec = NULL, ...)
```

Arguments

spec	specific options
...	transform options

`travelers` *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
travelers
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 300 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-text

`trends2020` *Sample data from Observable Plot changelog*

Description

Sample data from Observable Plot changelog

Usage

```
trends2020
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 3392 rows and 7 columns.

Source

https://observablehq.com/@ben-tanen/the-relentless-2020-news-cycle-in-one-chart

`unemployment` *Sample data from Observable Plot documentation examples*

Description

Sample data from Observable Plot documentation examples

Usage

```
unemployment
```

Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1708 rows and 3 columns.

Source

https://observablehq.com/@observablehq/plot-stack

Index

∗ **datasets**
  aapl, 3
  alphabet, 3
  anscombe_obs, 4
  athletes, 5
  barley, 5
  bls, 6
  bls_unemployment, 6
  caltrain, 7
  civilizations, 7
  congress, 8
  crimea, 8
  diamonds_obs, 9
  dji, 9
  driving, 10
  gistemp, 11
  income, 11
  iowa, 12
  metros, 15
  mobydick1, 15
  popchange, 17
  povcalnet, 18
  riaa, 18
  seattle, 19
  sfcases, 20
  sftemp, 20
  simpsons, 21
  stateage, 21
  stocks, 22
  travelers, 26
  trends2020, 26
  unemployment, 27

aapl, 3
alphabet, 3
anscombe_obs, 4
as_data, 4
athletes, 5

barley, 5
bls, 6
bls_unemployment, 6

caltrain, 7
civilizations, 7
congress, 8
crimea, 8

diamonds_obs, 9
dji, 9
driving, 10

facet, 10

gistemp, 11

income, 11
iowa, 12

mark_area, 12
mark_areaX *(mark_area)*, 12
mark_areaY *(mark_area)*, 12
mark_barX *(mark_area)*, 12
mark_barY *(mark_area)*, 12
mark_cell *(mark_area)*, 12
mark_cellX *(mark_area)*, 12
mark_cellY *(mark_area)*, 12
mark_dot *(mark_area)*, 12
mark_dotX *(mark_area)*, 12
mark_dotY *(mark_area)*, 12
mark_frame, 13
mark_function, 14
mark_image *(mark_area)*, 12
mark_line *(mark_area)*, 12
mark_lineX *(mark_area)*, 12
mark_lineY *(mark_area)*, 12
mark_link *(mark_area)*, 12
mark_rect *(mark_area)*, 12
mark_rectX *(mark_area)*, 12
mark_rectY *(mark_area)*, 12
mark_ruleX *(mark_area)*, 12

mark_ruleY (mark_area), 12
mark_svg, 14
mark_text (mark_area), 12
mark_textX (mark_area), 12
mark_textY (mark_area), 12
mark_tickX (mark_area), 12
mark_tickY (mark_area), 12
metros, 15
mobydick1, 15

obsplot, 16
obsplot-shiny, 16
obsplotOutput (obsplot-shiny), 16
opts, 17

popchange, 17
povcalnet, 18

renderObsplot (obsplot-shiny), 16
riaa, 18

scale_color, 19
scale_fx (scale_color), 19
scale_fy (scale_color), 19
scale_opacity (scale_color), 19
scale_r (scale_color), 19
scale_x (scale_color), 19
scale_y (scale_color), 19
seattle, 19
sfcases, 20
sftemp, 20
simpsons, 21
stateage, 21
stocks, 22
style, 22

to_js_date, 23
transform_bin, 23
transform_binX (transform_bin), 23
transform_binY (transform_bin), 23
transform_group (transform_bin), 23
transform_groupX (transform_bin), 23
transform_groupY (transform_bin), 23
transform_groupZ (transform_bin), 23
transform_map (transform_bin), 23
transform_mapX, 24
transform_mapY (transform_mapX), 24
transform_normalizeX, 24
transform_normalizeY (transform_normalizeX), 24
transform_selectFirst, 25
transform_selectLast (transform_selectFirst), 25
transform_selectMaxX (transform_selectFirst), 25
transform_selectMaxY (transform_selectFirst), 25
transform_selectMinX (transform_selectFirst), 25
transform_selectMinY (transform_selectFirst), 25
transform_stackX (transform_windowX), 25
transform_stackX1 (transform_windowX), 25
transform_stackX2 (transform_windowX), 25
transform_stackY (transform_windowX), 25
transform_stackY1 (transform_windowX), 25
transform_stackY2 (transform_windowX), 25
transform_windowX, 25
transform_windowY (transform_windowX), 25
travelers, 26
trends2020, 26

unemployment, 27