

Package ‘d3plus’

September 25, 2017

Type Package

Title Seamless 'D3Plus' Integration

Version 0.1.0

Author Mauricio Vargas [aut,cre],
Joshua Kunst [aut],
Dave Landry [ctb],
Datawheel [cph]

Maintainer Mauricio Vargas <oec@media.mit.edu>

Description Provides functions that offer seamless 'D3Plus' integration. The examples provided here are taken from the official 'D3Plus' website <<http://d3plus.org>>.

Depends htmlwidgets, magrittr

License MIT + file LICENSE

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

NeedsCompilation no

Repository CRAN

Date/Publication 2017-09-25 11:20:51 UTC

R topics documented:

d3plus	2
d3plus-exports	2
d3plus-shiny	3
d3p_data	3
d3p_id	3
d3p_links	4
d3p_nodes	4
d3p_type	4
d3p_x	4
d3p_y	4

Index	5
--------------	----------

d3plus *An 'htmlwidget' interface to the d3plus javascript chart library*

Description

An 'htmlwidget' interface to the d3plus javascript chart library
 This function provides 'D3Plus' methods from R console

Usage

```
d3plus(data, width = NULL, height = NULL, elementId = NULL)
```

Arguments

data	D3Plus need explicit specified data objects formatted as JSON, and this parameter passed it from R.
width	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
height	Same as width parameter.
elementId	Dummy string parameter. Useful when you have two or more charts on the same page.

Author(s)

Mauricio Vargas

Examples

```
dta <- data.frame(
  id = c("alpha", "alpha", "alpha", "beta", "beta", "beta"),
  x = c(4,5,6,4,5,6),
  y = c(7,25,13,7,8,13)
)

d3plus() %>% d3p_data(dta) %>% d3p_type("bar")
d3plus() %>% d3p_data(dta) %>% d3p_type("hbar")
d3plus() %>% d3p_data(dta) %>% d3p_type("area")
```

d3plus-exports *d3plus exported operators and S3 methods*

Description

The following functions are imported and then re-exported from the d3plus package to avoid listing the magrittr as Depends of d3plus.

d3plus-shiny *Shiny bindings for 'D3Plus'*

Description

Output and render functions for using D3Plus within Shiny applications and interactive Rmd documents.

Usage

```
d3plusOutput(outputId, width = "100%", height = "400px")
```

```
renderD3plus(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 D3Plus object
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.

d3p_data *Pass a tibble or data frame to 'D3Plus' objects*

Description

This function provides a 1:1 translation between tibble-like objects in R and JSON structured data needed by 'D3Plus' to display a treemap, barchart or any other 'D3Plus' method. This function is useless if d3plus() is not called first.

d3p_id *Defines the ids (such as axis) that 'D3Plus' objects require*

Description

This function provides a 1:1 translation between column names *i* in an R tibble-like object and ids that 'D3Plus' needs to draw axis, bars, areas, etc. This function is useless if d3plus() is not called first.

d3p_links *Defines 'D3Plus' axis for network method*

Description

'D3Plus' networks require to specify nodes and links in order to work. This function is useless if d3plus() is not called first.

d3p_nodes *Defines 'D3Plus' axis for network method*

Description

'D3Plus' networks require to specify nodes and links in order to work. This function is useless if d3plus() is not called first.

d3p_type *Defines the 'D3Plus' method to use*

Description

This function defines if the program will display a treemap, a barchart, an horizontal barchart or other 'D3Plus' method. This function is useless if d3plus() is not called first.

d3p_x *Defines 'D3Plus' axis for some methods*

Description

Some 'D3Plus' methods such as barchart require to display which variable to display on the x and y axis, and this function specifies that. This function is useless if d3plus() is not called first.

d3p_y *Defines 'D3Plus' axis for some methods*

Description

Some 'D3Plus' methods such as barchart require to display which variable to display on the x and y axis, and this function specifies that. This function is useless if d3plus() is not called first.

Index

`%>% (d3plus-exports)`, 2

`d3p_data`, 3

`d3p_id`, 3

`d3p_links`, 4

`d3p_nodes`, 4

`d3p_type`, 4

`d3p_x`, 4

`d3p_y`, 4

`d3plus`, 2

`d3plus-exports`, 2

`d3plus-package (d3plus)`, 2

`d3plus-shiny`, 3

`d3plusOutput (d3plus-shiny)`, 3

`JS (d3plus-exports)`, 2

`renderD3plus (d3plus-shiny)`, 3