Package 'pairsD3'

October 14, 2022

October 14, 2022
Title D3 Scatterplot Matrices
Version 0.1.3
Description Creates an interactive scatterplot matrix using the D3 JavaScript library. See https://d3js.org/ for more information on D3.
Depends R (>= $3.1.2$)
License GPL (>= 3)
Date 2022-06-05
<pre>URL https://github.com/garthtarr/pairsD3/</pre>
Imports htmlwidgets (>= 0.3.2), shiny
Suggests knitr
RoxygenNote 7.2.0
Encoding UTF-8
NeedsCompilation no
Author Garth Tarr [aut, cre], Mike Bostock [aut, cph] (d3.js library and much of pairsD3 code in htmlwidgets/lib, https://d3js.org)
Maintainer Garth Tarr <garth.tarr@gmail.com></garth.tarr@gmail.com>
Repository CRAN
Date/Publication 2022-06-06 18:10:02 UTC
R topics documented:
pairsD3 pairsD3Output renderPairsD3 savePairs shinypairs
Index

pairsD3

pairsD3

D3 scatterplot matrices

Description

An interactive matrix of scatterplots is produced.

Usage

```
pairsD3(
  Х,
  group = NULL,
  subset = NULL,
  labels = NULL,
  cex = 3,
  width = NULL,
  col = NULL,
  big = FALSE,
  theme = "colour",
  opacity = 0.9,
  tooltip = NULL,
  leftmar = 35,
  topmar = 2,
  diag = FALSE
)
```

Arguments

X	the coordinates of points given as numeric columns of a matrix or data frame. Logical and factor columns are converted to numeric in the same way that data.matrix does.
group	a optional vector specifying the group each observation belongs to. Used for tooltips and colouring the observations.
subset	an optional vector specifying a subset of observations to be used for plotting. Useful when you have a large number of observations, you can specify a random subset.
labels	the names of the variables (column names of x used by default).
cex	the magnification of the plotting symbol (default=3)
width	the width (and height) of the plot when viewed externally.
col	an optional (hex) colour for each of the levels in the group vector.
big	a logical parameter. Prevents inadvertent plotting of huge data sets. Default limit is 10 variables, to plot more than 10 set big=TRUE.
theme	a character parameter specifying whether the theme should be colour colour (default) or black and white bw.

pairsD3Output 3

opacity numeric between 0 and 1. The opacity of the plotting symbols (default 0.9).

tooltip an optional vector with the tool tip to be displayed when hovering over an observation. You can include basic html.

leftmar space on the left margin

topmar space on the bottom margin

diag logical, whether or not the main diagonal is plotted (scatter plot of variables

against themselves).

Examples

pairsD3Output

Widget output function for use in Shiny

Description

Widget output function for use in Shiny

Usage

```
pairsD3Output(outputId, width = "100%", height = "400px")
```

Arguments

outputId Shiny output ID
width width default '100%'
height height default '400px'

4 savePairs

			Pai		2
re	M () (-10	Раг	r si	J.5

Widget render function for use in Shiny

Description

Widget render function for use in Shiny

Usage

```
renderPairsD3(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

expr pairsD3 expression

env environment

quoted logical, default = FALSE

savePairs

Save a pairs plot to an HTML file

Description

Save a pairsD3 graph to an HTML file for sharing with others. The HTML can include it's dependencies in an adjacent directory or can bundle all dependencies into the HTML file (via base64 encoding).

Usage

```
savePairs(pairs, file, selfcontained = TRUE)
```

Arguments

pairs plot to save (e.g. result of calling the function pairsD3).

file File to save HTML into

selfcontained Whether to save the HTML as a single self-contained file (with external re-

sources base64 encoded) or a file with external resources placed in an adjacent

directory.

shinypairs 5

Description

Opens a shiny GUI to facilitate interaction with the pairsD3 function

Usage

```
shinypairs(x, group = NULL, subset = NULL, labels = NULL)
```

Arguments

x	the coordinates of points given as numeric columns of a matrix or data frame. Logical and factor columns are converted to numeric in the same way that data.matrix does.
group	a optional vector specifying the group each observation belongs to. Used for tooltips and colouring the observations.
subset	an optional vector specifying a subset of observations to be used for plotting. Useful when you have a large number of observations, you can specify a random subset.
labels	the names of the variables (column names of x used by default).

Examples

```
data(iris)
## Not run:
shinypairs(iris)
## End(Not run)
```

Index

```
pairsD3, 2
pairsD3Output, 3
renderPairsD3, 4
savePairs, 4
shinypairs, 5
```