

Package ‘rPackedBar’

January 31, 2018

Type Package

Title Packed Bar Charts with 'plotly'

Version 0.1.0

Author Adam Spannbauer [aut, cre]

Maintainer Adam Spannbauer <spannbaueradam@gmail.com>

Description Packed bar charts are a variation of treemaps for visualizing skewed data. The concept was introduced by Xan Gregg at 'JMP'.

License MIT + file LICENSE

URL <https://github.com/AdamSpannbauer/rPackedBar>

BugReports <https://github.com/AdamSpannbauer/rPackedBar/issues>

Imports plotly, data.table, scales

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests covr, testthat, R.rsp

VignetteBuilder R.rsp

NeedsCompilation no

Repository CRAN

Date/Publication 2018-01-31 09:24:08 UTC

R topics documented:

plotly_packed_bar 2

Index 4

plotly_packed_bar *Create a 'plotly' packed bar chart*

Description

Packed bar charts are a variation of treemaps for visualizing skewed data. The concept was introduced by Xan Gregg at JMP (<https://community.jmp.com/t5/JMP-Blog/Introducing-packed-bars-a-new-chart-format-for-JMP/pa-p/39972>).

Usage

```
plotly_packed_bar(input_data, label_column, value_column,
                 number_rows = "guess", plot_title = "", xaxis_label = "",
                 hover_label = "", min_label_width = 0.03, color_bar_color = "steelblue",
                 label_color = "black")
```

Arguments

input_data	data.frame with data to plot, should have a column of labels for bars and column of numbers relating to bar length
label_column	either the column number or quoted name in input_data to be used as labels (will be used by [[] to subset)
value_column	either the column number or quoted name in input_data to be used as numbers for bar lengths (will be used by [[] to subset). See details.
number_rows	The number of rows to occur in barchart (i.e. the number of colored bars). The default of 'guess' will attempt to find the 'elbow' in the numeric data with a min value of 3 and a max of 25.
plot_title	main title for plot
xaxis_label	label to put on xaxis
hover_label	text to appear by number in hover information (typically same as xaxis label)
min_label_width	min relative length of bar to receive a static label (too small and text will overflow sides of bar)
color_bar_color	color of main bars in chart (can be name or hex) remaining bars will be variations of gray
label_color	color of text labels that appear over colored bars

Details

The packed barchart currently only works for uniformly positive or uniformly negative data; negative values will be removed before plotting when mixed data is provided.

Value

'plotly' object of the packed bar chart

Examples

```
## Not run:
data(GNI2014, package = 'treemap')

data.table::setDT(GNI2014)
my_input_data = GNI2014[,sum(population), by=country]

plotly_packed_bar(my_input_data,
                  label_column = 'country',
                  value_column = 'V1',
                  plot_title   = 'Population 2014',
                  xaxis_label  = 'Population',
                  hover_label   = 'Population',
                  min_label_width = .025,
                  color_bar_color = 'orange')

## End(Not run)
```

Index

plotly_packed_bar, [2](#)