Package ‘rPackedBar’

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Type  Package
Title  Packed Bar Charts with ‘plotly’
Version  0.2.2
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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, shiny
Encoding  UTF-8
LazyData  true
Depends  R (>= 2.10)
RoxygenNote  6.1.1
Suggests  covr, testthat, R.rsp
VignetteBuilder  R.rsp
NeedsCompilation  no
Repository  CRAN
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**packed_bar_shiny**  
*Plot rPackedBar in 'shiny'*

**Description**

Output and render functions for using 'rPackedBar' within 'shiny' applications and interactive Rmd documents.

**Usage**

```r
packedBarOutput(outputIdL width = "100%", height = "400px", inline = FALSE, clickedBarInputId = paste(outputId, "_clicked"))

renderPackedBar(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.
- `inline`: use an inline (span()) or block container (div()) for the output
- `clickedBarInputId`: The input id to assign the label of the clicked bar. Defaults to `outputId_clicked` and can be referenced in the server as `input$outputId_clicked`.
- `expr`: An expression that generates an rPackedBar.
- `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.

**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 XanGregg at JMP ([https://community.jmp.com/t5/JMP-Blog/Introducing-packed-bars-a-new-chart-format-16ba-p/39972](https://community.jmp.com/t5/JMP-Blog/Introducing-packed-bars-a-new-chart-format-16ba-p/39972)).

**Usage**

```r
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")
```
plotly_packed_bar

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

```r
## 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)
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