Package ‘hpackedbubble’

August 19, 2019

Title Create Split Packed Bubble Charts
Version 0.1.0
Description By binding R functions and the 'Highcharts' <http://www.highcharts.com/> charting library, 'hpackedbubble' package provides a simple way to draw split packed bubble charts.
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A tibble data frame with 116 rows and 3 variables.

Create Split Packed Bubble Charts

Description
By binding R functions and the 'Highcharts' [http://www.highcharts.com/] charting library, 'hpackedbubble' package provides a simple way to draw split packed bubble charts.

Usage

```r
hpackedbubble(cat, name, value, theme = "sandsignika", width = NULL, height = NULL, title = "", titleAlign = "center", titleSize = "20px", titleColor = ", subtitle = "", subtitleAlign = "center", subtitleSize = "", subtitleColor = ", pointFormat = "<b>{point.name}:</b> {point.y}" , split = 1, packedbubbleMinSize = "50%", packedbubbleMaxSize = "250%", packedbubbleZMin = 0, packedbubbleZmax = 1000, gravitational = 0.0625, seriesInteraction = 1, dragBetweenSeries = 1, parentNodeLimit = 1, dataLabels = 1, dataLabelsFormat = "{point.name}" , dataLabelsFilter = 250, dataLabelsColor = "black")
```

Arguments

- `cat` category vector;
- `name` name vector;
- `value` value vector;
- `theme` chart theme, you can use these themes: darkgreen/darkblue/avocado/darkunica/gray/gridlight/grid/sandsignika/sunset;
width chart width, for example, "100%";
height chart height, for example, "400px";
title title;
titleAlign title alignment, left/center/right;
titleSize title size, like "20px";
titleColor title color, like "#333333";
subtitle subtitle;
subtitleAlign subtitle alignment, left/center/right;
subtitleSize subtitle size, like "16px";
subtitleColor subtitle color, like "#666666"
pointFormat The HTML of the point’s line in the tooltip.
split Whether to split series into individual groups or to mix all series together. 1 means to split, 0 means to not, defaults to split;
packedbubbleMinSize Minimum bubble size. Defaults to '50%';
packedbubbleMaxSize Maximum bubble size. Defaults to '250%';
packedbubbleZMin The minimum for the Z value range. Defaults to 0, you can use the lowest Z value in the data;
packedbubbleZmax The maximum for the Z value range. Defaults to 1000, you can use the highest Z value in the data;
gravitational Gravitational const used in the barycenter force of the algorithm. Defaults to 0.0625.
seriesInteraction Whether series should interact with each other or not. 1 means to true, 0 means to false, defaults to 1;
dragBetweenSeries In case of split series, this option allows user to drag and drop points between series, for changing point related series. 1 means to true, 0 means to false, defaults to 1;
parentNodeLimit Whether bubbles should interact with their parentNode to keep them inside. 1 means to true, 0 means to false, defaults to 1;
dataLabels Options for the series data labels, appearing next to each data point. 1 means to true, 0 means to false, defaults to 1;
dataLabelsFormat Data labels’ format
dataLabelsFilter Show data labels while 'value' larger than dataLabelsFilter. defaults to 250.
dataLabelsColor Data labels’ color, defaults to black.
Examples

```r
library(hpackedbubble)
if (interactive()) {
  hpackedbubble(CO2$continent, CO2$country, CO2$CO2)
}
```

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**hpackedbubble-shiny**  *Shiny bindings for hpackedbubble*

**Description**

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

**Usage**

```r
hpackedbubbleOutput(outputId, width = "100\%", height = "400px")
renderHpackedbubble(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 hpackedbubble

- `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.
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