Package ‘hpackedbubble’

October 13, 2022

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.
License MIT + file LICENSE
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Depends R (>= 3.0.0)
LazyData true
Imports htmlwidgets
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VignetteBuilder knitr
URL https://github.com/czxa/hpackedbubble
BugReports https://github.com/czxa/hpackedbubble/issues
RoxygenNote 6.1.1
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Description

Carbon emissions around the world (2014)

Usage

CO2

Format

A tibble data frame with 116 rows and 3 variables.

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

hpackedbubble(cat, name, value, theme = "sandsignika", width = NULL, height = NULL, title = "", titleAlign = "center", titleSize = "20px", titleColor = "#333333", subtitle = "", subtitleAlign = "center", subtitleSize = "", subtitleColor = "#666666", 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")
```

```r
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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