

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.

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Date 2019-08-18

Encoding UTF-8

Depends R (>= 3.0.0)

LazyData true

Imports htmlwidgets

Suggests knitr, rmarkdown, shiny, colourpicker

VignetteBuilder knitr

URL <https://github.com/czxa/hpackedbubble>

BugReports <https://github.com/czxa/hpackedbubble/issues>

RoxygenNote 6.1.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2019-08-19 10:40:02 UTC

R topics documented:

CO2	2
hpackedbubble	2
hpackedbubble-shiny	4
Index	5

CO2	<i>Carbon emissions around the world (2014)</i>
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Description

Carbon emissions around the world (2014)

Usage

CO2

Format

A tibble data frame with 116 rows and 3 variables.

hpackedbubble	<i>Create Split Packed Bubble Charts</i>
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Description

By binding R functions and the 'Highcharts' <http://www.highcharts.com/> charting library, 'hpacked-bubble' 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

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

hpackedbubble-shiny *Shiny bindings for hpackedbubble*

Description

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

Usage

```
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.

Index

* **datasets**

CO2, [2](#)

CO2, [2](#)

hpackedbubble, [2](#)

hpackedbubble-shiny, [4](#)

hpackedbubbleOutput
(hpackedbubble-shiny), [4](#)

renderHpackedbubble
(hpackedbubble-shiny), [4](#)