Package ‘wordcloud2’

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Type Package
Title Create Word Cloud by 'htmlwidget'
Version 0.2.1
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Description A fast visualization tool for creating wordcloud
by using 'wordcloud2.js'. 'wordcloud2.js' is a JavaScript library to create
wordle presentation on 2D canvas or HTML <https://timdream.org/wordcloud2.js/>.
License GPL-2
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LazyData TRUE
VignetteBuilder knitr
Imports htmlwidgets, base64enc, grDevices, graphics
Suggests knitr, rmarkdown, webshot
Enhances shiny (>= 0.12)
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BugReports https://github.com/lchiffon/wordcloud2/issues
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R topics documented:

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Description

Function for Creating wordcloud theme

Usage

```r
## S3 method for class 'wordcloud2'
e1 + e2
```

Arguments

- `e1`: wordcloud2 object
- `e2`: wordcloud2 themes

Examples

```r
 wc = wordcloud2(demoFreq)
 wc + WCtheme(1)
 wc + WCtheme(2)
 wc + WCtheme(3)
 wc + WCtheme(2) + WCtheme(3)
```

demoFreq

Demo dataset with Words and Frequency

Description

A data file of words and frequency from tm package

Usage

demoFreq

Format

A data set with 1011 observations of 2 variables, words and frequency
**demoFreqC**

**Demo dataset with Chinese character Words and Frequency**

**Description**

A data file of words and frequency from tm package

**Usage**

demoFreqC

**Format**

A data set with 885 observations of 2 variables, words and frequency

**letterCloud**

Create wordcloud with the shape of a word

**Description**

Function for Creating wordcloud with the shape of a word

**Usage**

letterCloud(data, word, wordSize = 0, letterFont = NULL, ...)

**Arguments**

data A data frame including word and freq in each column
word A word to create shape for wordcloud.
wordSize Parameter of the size of the word.
letterFont Letter font
... Other parameters for wordcloud.

**Examples**

library(wordcloud2)

letterCloud(demoFreq,"R")
WCtheme

Change the themes of wordcloud2

Description

Function for Creating wordcloud theme

Usage

WCtheme(class = 1)

Arguments

class class for theme in wordcloud2

Examples

wc = wordcloud2(demoFreq)

wc + WCtheme(1)
wc + WCtheme(2)
wc + WCtheme(3)
wc + WCtheme(2) + WCtheme(3)

wordcloud2

Create wordcloud by wordcloud2.js

Description

Function for Creating wordcloud by wordcloud2.js

Usage

wordcloud2(data, size = 1, minSize = 0, gridSize = 0,
fontFamily = 'Segoe UI', fontWeight = 'bold',
color = 'random-dark', backgroundColor = "white",
minRotation = -pi/4, maxRotation = pi/4, shuffle = TRUE,
rotateRatio = 0.4, shape = 'circle', ellipticity = 0.65,
widgetsSize = NULL, figPath = NULL, hoverFunction = NULL)
Arguments

data  A data frame including word and freq in each column
size  Font size, default is 1. The larger size means the bigger word.
minSize  A character string of the subtitle
gridSize  Size of the grid in pixels for marking the availability of the canvas the larger the grid size, the bigger the gap between words.
fontFamily  Font to use.
fontWeight  Font weight to use, e.g. normal, bold or 600
color  color of the text, keyword 'random-dark' and 'random-light' can be used. color vector is also supported in this param
backgroundColor  Color of the background.
minRotation  If the word should rotate, the minimum rotation (in rad) the text should rotate.
maxRotation  If the word should rotate, the maximum rotation (in rad) the text should rotate.
Set the two value equal to keep all text in one angle.
shuffle  Shuffle the points to draw so the result will be different each time for the same list and settings.
rotateRatio  Probability for the word to rotate. Set the number to 1 to always rotate.
shape  The shape of the "cloud" to draw. Can be a keyword present. Available presents are 'circle' (default), 'cardioid' (apple or heart shape curve, the most known polar equation), 'diamond' (alias of square), 'triangle-forward', 'triangle', 'pentagon', and 'star'.
ellipticity  degree of "flatness" of the shape wordcloud2.js should draw.
widgetsSize  size of the widgets
figPath  The path to a figure used as a mask.
hoverFunction  Callback to call when the cursor enters or leaves a region occupied by a word. A string of java script function.

Examples

library(wordcloud2)
# Global variables can go here

wordcloud2(demofreq)
wordcloud2(demofreq, size = 2)

wordcloud2(demofreq, size = 1, shape = 'pentagon')
wordcloud2(demofreq, size = 1, shape = 'star')

wordcloud2(demofreq, size = 2,
        color = "random-light", backgroundColor = "grey")
wordcloud2(demoFreq, size = 2, minRotation = -pi/2, maxRotation = -pi/2)
wordcloud2(demoFreq, size = 2, minRotation = -pi/6, maxRotation = -pi/6, 
rotateRatio = 1)
wordcloud2(demoFreq, size = 2, minRotation = -pi/6, maxRotation = pi/6, 
rotateRatio = 0.9)

wordcloud2(demoFreqC, size = 2, 
  color = "random-light", backgroundColor = "grey")
wordcloud2(demoFreqC, size = 2, minRotation = -pi/6, maxRotation = -pi/6, 
rotateRatio = 1)

# Color Vector

colorVec = rep(c('red', 'skyblue'), length.out=nrow(demoFreq))
wordcloud2(demoFreq, color = colorVec, fontWeight = "bold"

wordcloud2(demoFreq, 
  color = ifelse(demoFreq[, 2] > 20, 'red', 'skyblue'))

---

**wordcloud2-shiny**  
*Plot wordcloud2 in shiny*

**Description**

Function for plotting wordcloud2 in shiny

**Usage**

```r
wordcloud2Output(outputId, width = "100\%", height = "400px")
renderWordcloud2(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 networkD3 graph
- `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.

**Details**

Use `renderWordcloud2` to render an wordcloud2 object and use `wordcloud2Output` output an wordcloud2 object. See more details in shiny package.
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