Package ‘wordcloud2’

October 12, 2022

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
Depends R (>= 3.1.0)
LazyData TRUE
VignetteBuilder knitr
Imports htmlwidgets, base64enc, grDevices, graphics
Suggests knitr, rmarkdown, webshot
Enhances shiny (>= 0.12)
URL https://github.com/lchiffon/wordcloud2
BugReports https://github.com/lchiffon/wordcloud2/issues
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RoxygenNote 5.0.1
NeedsCompilation no
Repository CRAN
Date/Publication 2018-01-03 15:20:37 UTC

R topics documented:

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*Change the themes of wordcloud2*

**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)
w + WCtheme(1)
w + WCtheme(2)
w + WCtheme(3)
w + 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.
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)
w + 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.
- **widgets**: 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

```r
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

wordcloud2Output(outputId, width = "100%", height = "400px")
renderWordcloud2(expr, env = parent.frame(), quoted = FALSE)

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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