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

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

Maintainer Dawei Lang <chiffonlang@icloud.com>

RoxygenNote 5.0.1

NeedsCompilation no

Repository CRAN

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R topics documented:

+.wordcloud2   *Change the themes of wordcloud2*

Description

Function for Creating wordcloud theme

Usage

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

Arguments

e1   wordcloud2 object

e2   wordcloud2 themes

Examples

```
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 frequancy

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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 frequancy

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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,
    widgetsize = 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.
`widgetsize`	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

```
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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