

# Package ‘wordcloud2’

January 3, 2018

**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

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<code>+.wordcloud2</code>	<i>Change the themes of wordcloud2</i>
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**Description**

Function for Creating wordcloud theme

**Usage**

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

**Arguments**

<code>e1</code>	wordcloud2 object
<code>e2</code>	wordcloud2 themes

**Examples**

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

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<code>demoFreq</code>	<i>Demo dataset with Words and Frequency</i>
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**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

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

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**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

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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**

<code>data</code>	A data frame including word and freq in each column
<code>word</code>	A word to create shape for wordcloud.
<code>wordSize</code>	Parameter of the size of the word.
<code>letterFont</code>	Letter font
<code>...</code>	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)
```

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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'))

```

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wordcloud2-shiny

*Plot wordcloud2 in shiny*


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## 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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