Wordcloud2: : **CHEAT SHEET**

Introduction

Word clouds (also known as text clouds or tag clouds) work in a simple way: the more a specific word appears in a source of textual data (such as a speech, blog post, or database), the bigger and bolder it appears in the word cloud.
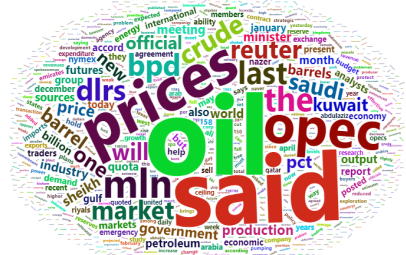
GRAMMAR CONCLUSION

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 = T, rotateRatio = 0.4, shape = 'circle', ellipticity = 0.65, widgetsize = NULL, figPath = NULL, hoverFunction = NULL)

Cloud Text

ARGUMENTS IN COMMON USAGE

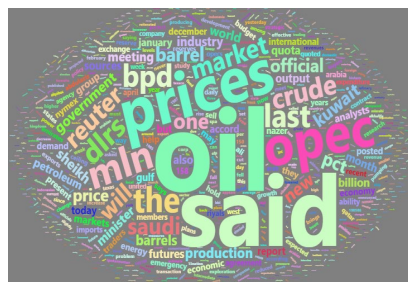- **data**: A data frame including word and freq in each column

wordcloud2(data = demoFreq)

- **color**: Color of the text. Keyword can be used: "random-dark", "random-light"

- **backgroundColor**: Color of the background. Support colors like 'gray', 'black', but not support more specific color chooses like 'gray20'

wordcloud2(data = demoFreq, color="random-light", backgroundColor = "grey")

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- **minRotation/ maxRotation**: The minimum/ maximum rotation (in rad) the text should rotate.

wordcloud2(data = demoFreq, minRotation = -pi/2, maxRotation = -pi/2)

- **minRotation/ maxRotation**: The minimum/ maximum rotation (in rad) the text should rotate.

wordcloud2(data = demoFreq,minRotation = -pi/6, maxRotation = -pi/6,rotateRatio = 1)

Notation

❖ The data frame used in word cloud should contains two columns: word/text and its frequency.

❖ The word cloud generated by Wordcloud2 package supports mouse floating display dynamic tags. (When the mouse stop over a text, the weight corresponding to the text will be showed.)

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Cloud Shape

'shape' IN THE PACKAGE

wordcloud2(demoFreq, size = 0.7, shape = 'star')

Several shapes are available within the package:

 circle (default)

 cardioid (apple or heart shape curve, the most known polar equation)

 diamond (alias of square)

 triangle-forward

 triangle

 pentagon

FIGURE AS A MASK

wordcloud2 package also supports custom image shapes.

figPath: The path to a figure used as a mask.

```
spiderman <-
    system.file("examples/spiderman.jpg",
                package = "wordcloud2")
wordcloud2(demoFreq, figPath =spiderman,
           size = 1.5, color = "red",
           backgroundColor = "white")
```


spiderman.jpg

SHAPE OF A WORD

Function **letterCloud** can be used to create wordcloud with the shape of a word

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

- **word**: A word to create shape for wordcloud.
- **...**: Other parameters for wordcloud2

letterCloud(demoFreq, word = "WORD", wordSize = 2, color = 'random-dark', backgroundColor = "white")

More Examples

CUSTOMIZE COLORS

wordcloud2(demoFreq, color = ifelse(demoFreq[, 2] > 80, '#f02222', '#c09292'))

CHANGE THE THEMES

WCtheme(class = 1)

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

COMPARISON & COMMONALITY CLOUD

For more information about comparison and commonality clouds, please check package **wordcloud**.