## Wordcloud of Top 100 Words in tweets using the keyword "brussels" Using 3200 tweets with the hashtag #brussels from March 23, 2016, we will create a wordcloud of the top words used to describe Winter Storm Jonas. Global parameters Set working directory by pointing to the location on your computer where you have stored the files. Below, we have chosen to Save the folder "RAnalysis" on the Desktop on a Mac. It contains all the other R scripts, texts, notebooks, and results. If you have branched the github, simply note where you have save the folder. If you are on a PC, you will need to use an absolute path such as "C:Users:XXX." \*\*\* setwd("~/Desktop/R/Text\_Analysis/data/twitter/") Include necessary packages for notebook \*\*\* library(knitr) library(markdown) library(rmarkdown) library(wordcloud) ## Loading required package: RColorBrewer library(qdap) ## Loading required package: qdapDictionaries ## Loading required package: qdapRegex ## Loading required package: qdapTools ## ## Attaching package: 'qdap' ## ## The following object is masked from 'package:base': ## ## Filter

Load data (this time a curated set of tweets grabbed using the twitter R library and API authentication, then saved with the .R Data extension) \*\*\*\*

library(RColorBrewer)



Now it's time to remove stopwords. In our plain text wordcloud, we used tm's options for a wordlist; here we are using qdap's word list and specifying that we wish to use the top 100 words from E.B. Fry's top 1000 words. Note that if we were to change the argument to "Top1000Words," we'd eliminate about 90% of our text! Concatenated onto the list are common twitter words not yet eliminated such at "rt" (retweet), "amp" (&), and our search term "snowzilla." \*\*\*

```
words=rm_stopwords(words,c(Top100Words,"rt", "amp", "blizzard2016"))
```

Having removed unwanted items, it's now time to ditch the empty elements. \*\*\*

```
words=words[lapply(words,length)>0]
```

Currently, we have a list of items (our original tweets) that contain a list of the words used in that tweet. For our wordcloud, we would simply like a list of words. \*\*\*

```
words=unlist(words,recursive = FALSE)
```

Next we'd like to create a table of these words in descending order of use. \*\*\*

```
words=sort(table(words),decreasing=T)
freqs=as.vector(words)
words=names(words)
```

Plot the wordcloud! There are a number of arguments you can customize: "random.order" is false so that words are plotted in order of decreasing frequency; "scale" indicates the size of the words; "rot.per" lets you customize the proportion of words that are rotated 90 degrees; "max.words" controls how many words show up in the wordcloud; and we've used the library "RColorBrewer" to give us access to some predefined palettes. Note that if you change the palette, you need to tell the argument how many colors are in the new palette. \*\*\*

```
attackers washington
named
cruz eu
security
grim authorities us bombmaker shes tradecraft
brusselsattacks
brothers
trimm terror
stopafter news destroying
hold know topleads state
bombing calm paris sayspresident
suspect muslim
caught obama
suspect reels lastpolice turkey intel worldisis
terrorists city suicide wake silence europe
changing hundredsterrorist live spread moment
iconic intelligence
barack bomber priority watch
suspicion european identified belgium
following muslims airports attack
say decidedly terrorism
deported islamic trump
attacks
```