
TEXT MINING
DATASETS
ANALYTICS
PROVIDER
FRAMEWORK
TEXTUAL
ENTITY
MANAGEMENT
CUSTOMER
RETRIEVAL
TEXT
LARGE
PROCESS
SOFTWARE
APPLICATION
INFORMATION
STATISTICAL
LITERATURE
SCIENCES
COMPUTATIONAL
ABSTRACTED
SET
ATTITUDINAL
PREDICTIVE
AFFINITIES
NATURAL
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CLUSTER
CATEGORIZATION
SUMMARIZATION
SYNTACTIC
NEWS
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TOOL
MINING
SPECIFIC
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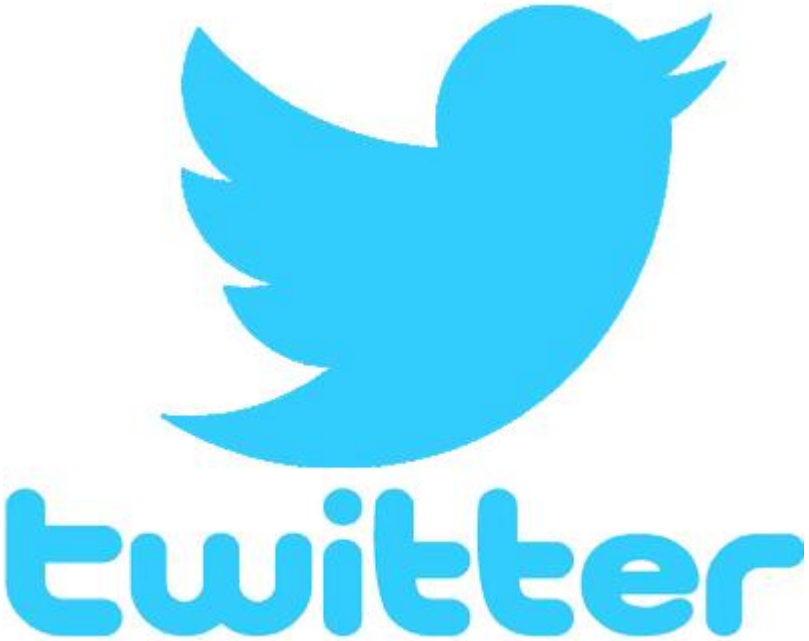
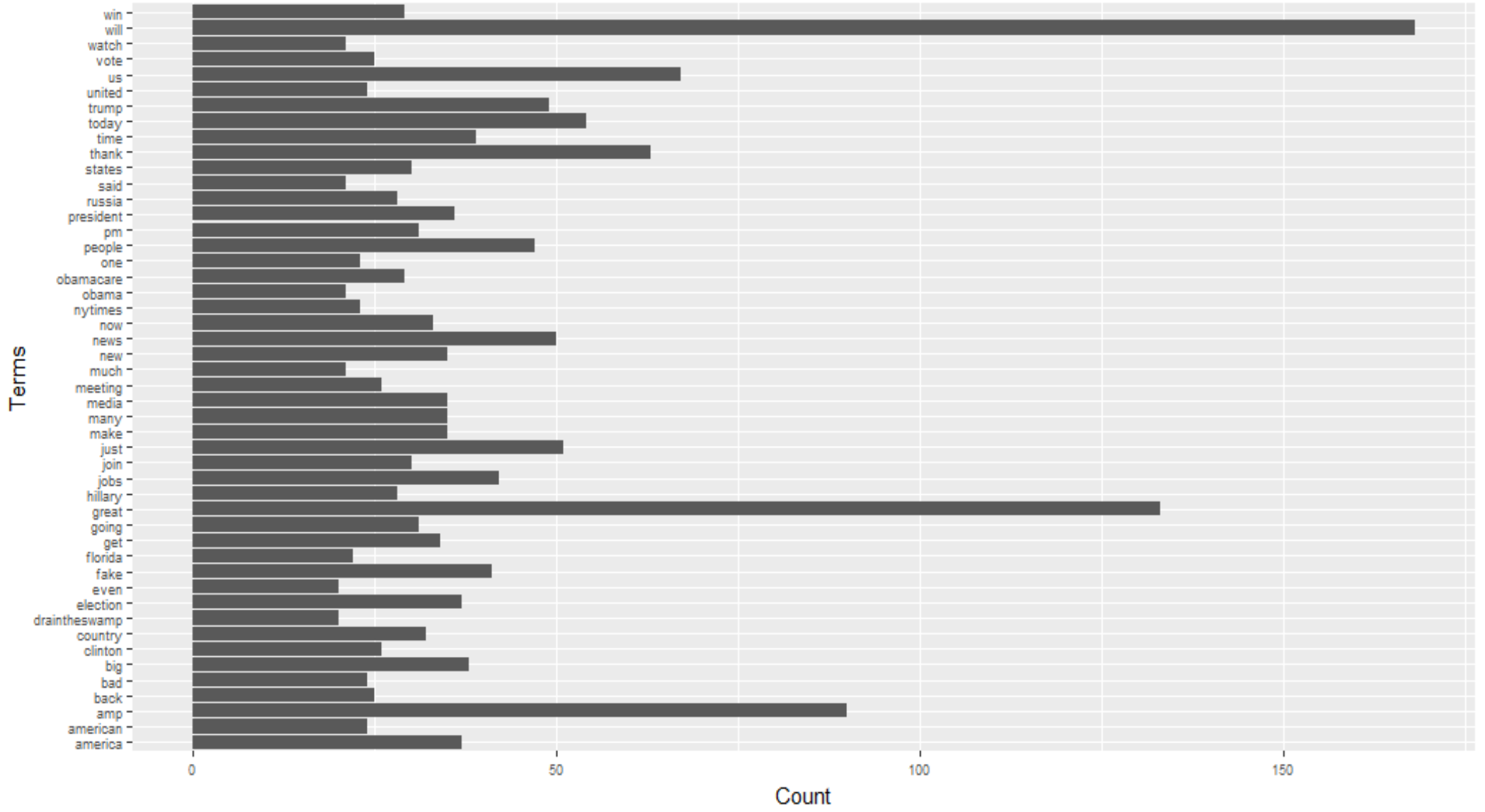
SENTIMENT
VISUALIZATION
MEDIA
LANGUAGE
BUSINESS
SUITE
PARSING
LINGUISTIC
SOCIAL
ANNOTATION
LEARNING
DOCUMENT
TECHNIQUES
INTELLIGENCE
CONTENT


twitter

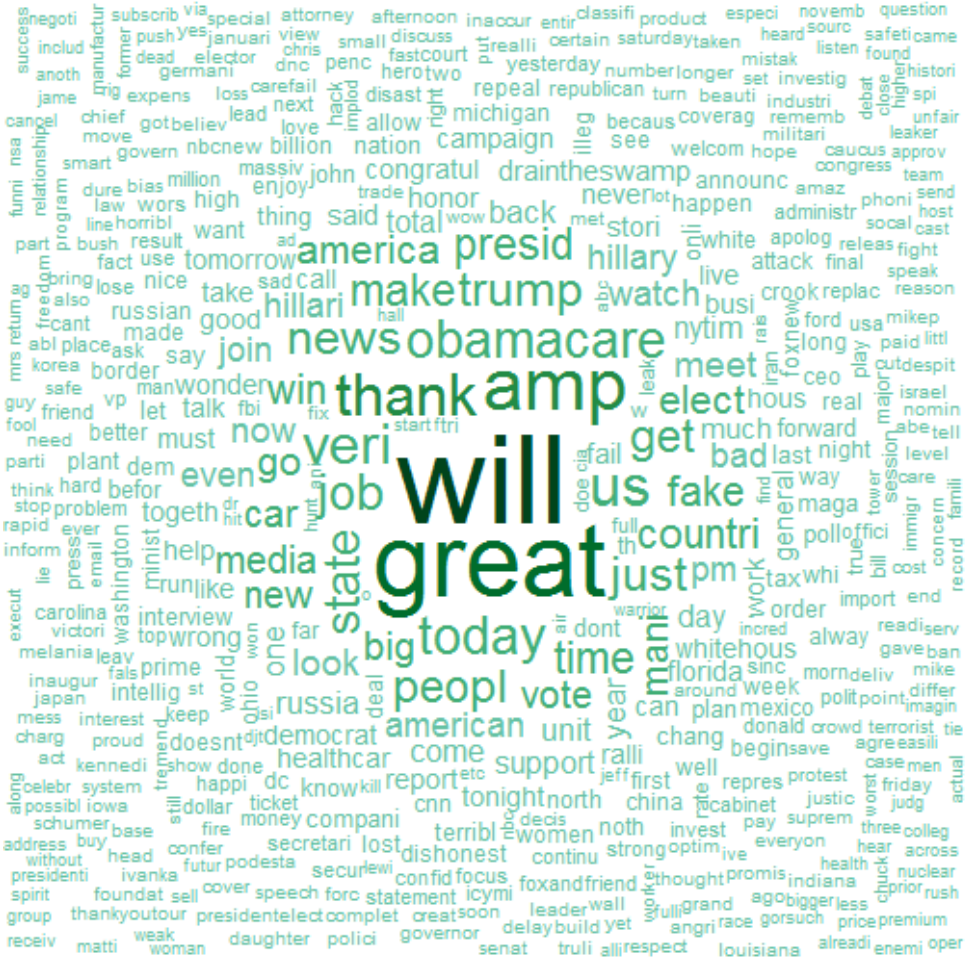
Text Mining in R *(Twitter Analysis)*

- Text mining on Donald Trump's Twitter account
- Freq words: vote, thank, maga, Obamacare, Hillary, nytimes, jobs, great, florida, drain the swamp, fake, election, Russia
- Wordcount :
  - Hillary Clinton : 60
  - Obamacare : 33
  - Jobs : 34
  - Russia : 35
  - Drain the swamp : 20

Frequency of the words



Word Cloud in R



Background in R

```r
library(twitteR)
library(ROAuth)

api_key <- "[redacted]"
api_secret <- "[redacted]"
access_token <- "[redacted]"
access_token_secret <- "[redacted]"

setup_twitter_oauth(api_key,api_secret,access_token,access_token_secret)

tweets <- userTimeline("realDonaldTrump", n = 100)
n.tweet <- length(tweets)

# convert tweets to a data frame
tweets.df <- twListToDF(tweets)

# tweet #190
tweets.df[10, c("id", "created", "screenName", "replyToSN","favoriteCount", "retweetCount", "longitude", "latitu

# print tweet #190 and make text fit for slide width
writeLines(strwrap(tweets.df$text[10], 60))

library(tm)
# build a corpus, and specify the source to be character vectors
myCorpus <- Corpus(VectorSource(tweets.df$text))


# remove URLs
removeURL <- function(x) gsub("http[^[:space:]]*", "", x)
myCorpus <- tm_map(myCorpus, content_transformer(removeURL))

# remove anything other than English letters or space
removeNumPunct <- function(x) gsub("[^[:alpha:][:space:]]*", "", x)
myCorpus <- tm_map(myCorpus, content_transformer(removeNumPunct))

# convert to lower case
myCorpus <- tm_map(myCorpus, content_transformer(tolower))

# remove stopwords
myStopwords <- c(setdiff(stopwords('english'), c("r", "big")),"use", "see", "used", "via", "amp")
myCorpus <- tm_map(myCorpus, removeWords, myStopwords)
# remove extra whitespace
myCorpus <- tm_map(myCorpus, stripWhitespace)

# keep a copy for stem completion later
myCorpusCopy <- myCorpus


myCorpus <- tm_map(myCorpus, stemDocument) # stem words
writeLines(strwrap(myCorpus[[190]]$content, 60))

stemCompletion2 <- function(x, dictionary) {
  x <- unlist(strsplit(as.character(x), " "))
  x <- x[x != ""]
  x <- stemCompletion(x, dictionary=dictionary)
  x <- paste(x, sep="", collapse=" ")
```

92:37 (Top Level)