# Sentiment analysis - Tweets

Kristian Wichmann
6 jan 2017

#### Load tweets

```
tweets <- read.csv("potus_tweets.csv", fileEncoding="UTF-8")</pre>
```

### Load AFINN-111 dataset

```
afinn <- read.csv("AFINN-111.txt", sep = "\t", header = FALSE)
colnames(afinn) <- c("word", "score")</pre>
```

#### Sentiment of word

```
sentiment <- function(word) {
  lookup <- grep(paste0("^", word, "$"), afinn$word)
  if (length(lookup) == 0) {
    return(0)
  }
  afinn[lookup,]$score[1]
}</pre>
```

### Sentiment analysis

```
sent_analyze <- function(tweet) {
  text <- gsub('[\".,!?:;()]','', tweet)
  text <- tolower(text)
  words <- strsplit(text, ' ')[[1]]
  sentiments <- sapply(words, sentiment)
  sum(sentiments)
}</pre>
```

```
tweets$sentiment <- sapply(tweets$text, sent_analyze)</pre>
```

### Histogram

```
hist(tweets$sentiment,
    main = "Sentiment distribution for POTUS tweets",
    xlab = "Sentiment",
    col = "blue")
```

## **Sentiment distribution for POTUS tweets**

