## Emotional Attributes of diverging political spheres on Twitter

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```
library(twitteR)
library(ggplot2)
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.1 --
## v tibble 3.1.5 v dplyr 1.0.7
## v tidyr 1.1.4 v stringr 1.4.0
## v readr 2.0.2 v forcats 0.5.1
## v purrr 0.3.4
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::id() masks twitteR::id()
## x dplyr::lag() masks stats::lag()
## x dplyr::location() masks twitteR::location()
library(stopwords)
## Warning: Paket 'stopwords' wurde unter R Version 4.1.2 erstellt
Accessing the Twitter-API
# consumerKey = "X"
# consumerSecret = "X"
# accessToken = "X-X"
# accessSecret = "X"
# options(httr_oauth_cache=TRUE)
# setup_twitter_oauth(consumer_key = consumerKey, consumer_secret = consumerSecret,
             access_token = accessToken, access_secret = accessSecret)
Loading some data
sheet <- read.csv("./Emotion Analysis - Twitter.csv")</pre>
id_list <- as.list(sheet$Twitter.ID)</pre>
```

Defining Function for Twitter-Scraping

```
scrape_tweets <- function(userID, n_tweets, filename){
  tweets <- userTimeline(userID, n_tweets)
  tweets_df <- tbl_df(map_df(tweets, as.data.frame))
  tweets_df <- tweets_df %>%
    select(c(id, text, screenName, created, favoriteCount, retweetCount))
  write.csv(tweets_df, paste(filename,"-tweets.csv", sep = ""), row.names = FALSE)
}

# for (id in id_list) {
# scrape_tweets(id, 900, id)
# }
```

Loading the Tweets

Preprocessing

```
cleaning_tweets <- function(text){
  text <- gsub(",", "", text)
  text <- gsub("[[:punct:]]", "", text)
  text <- gsub("[[:digit:]]", "", text)
  words <- strsplit(text, " ")[[1]]
  words <- tolower(words)
}</pre>
```