Assignment 3 - Sentiment Analysis II

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```
library(quanteda)
library(quanteda.sentiment)
library(quanteda.textstats)
library(tidyverse)
library(tidytext)
library(lubridate)
library(wordcloud) #visualization of common words in the data set
library(reshape2)
library(sentimentr)
```

This assignment uses tweet data for the term 'IPCC'

1. Think about how to further clean a twitter data set. Let's assume that the mentions of twitter accounts is not useful to us. Remove them from the text field of the tweets tibble.

```
tweets_clean <- tweets %>%
  mutate(text_clean = text) # keeping a column of the original text as a check
tweets_clean$text_clean <- gsub("@[^[:space:]]*", "", tweets_clean$text_clean)</pre>
```

2. Compare the ten most common terms in the tweets per day. Do you notice anything interesting?

```
#tokenize tweets to individual words
words <- tweets_clean %>%
    select(id, date, text_clean) %>%
    unnest_tokens(output = word, input = text_clean, token = "words") %>%
    anti_join(stop_words, by = "word")

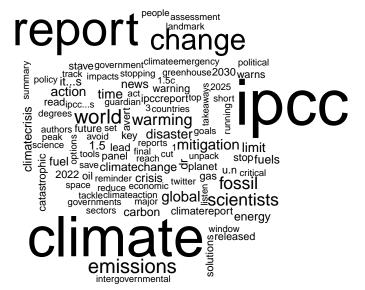
words_count <- words %>%
    count(date, word)

top_ten_per_day <- words_count %>%
    group_by(date) %>%
    top_n(10, n)

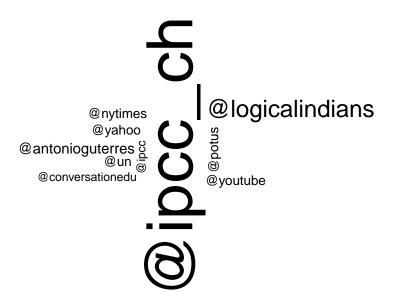
#xxx

tab_with_group <- table(top_ten_per_day$date, top_ten_per_day$word)  # Create table with groups</pre>
```

3. Adjust the wordcloud in the "wordcloud" chunk by coloring the positive and negative words so they are identifiable.



4. Let's say we are interested in the most prominent entities in the Twitter discussion. Which are the top 10 most tagged accounts in the data set. Hint: the "explore_hashtags" chunk is a good starting point.



5. The Twitter data download comes with a variable called "Sentiment" that must be calculated by Brandwatch. Use your own method to assign each tweet a polarity score (Positive, Negative, Neutral) and compare your classification to Brandwatch's (hint: you'll need to revisit the "raw_tweets" data frame).

xxx...think of way to visualize this