Practice Sentiment analysis

Emily Maloney
February 10, 2019

Trying out some methods for sentiment analysis of subreddits.

Libraries

```
library(tidyverse)
## -- Attaching packages -----
                                               ----- tidyverse 1.2.1 --
## v ggplot2 3.1.0
                   v purrr
                              0.2.5
## v tibble 2.0.1 v dplyr
                              0.7.8
## v tidyr
          0.8.2 v stringr 1.3.1
## v readr
          1.3.1
                     v forcats 0.3.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                   masks stats::lag()
library(bigrquery)
library(tidyr)
library(sentimentr)
library(magrittr)
##
## Attaching package: 'magrittr'
## The following object is masked from 'package:purrr':
##
##
      set_names
## The following object is masked from 'package:tidyr':
##
##
      extract
```

Data

just getting comment histories of two subreddits: conservative and The Donald

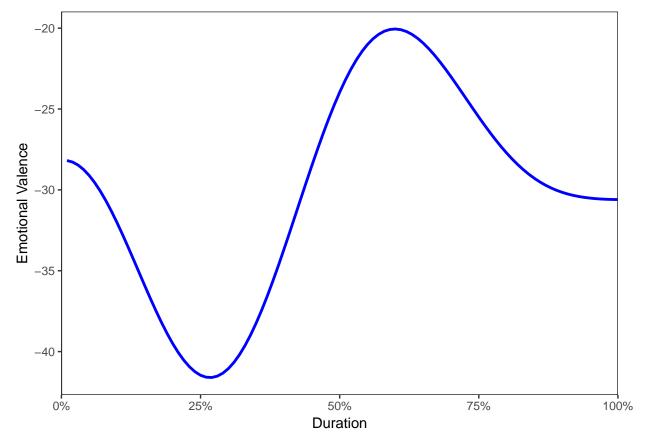
```
num_comments,
          ups,
          downs,
          score
          `fh-bigquery.reddit_posts.201*`
          subreddit = 'The_Donald'
#get post data
df_reddit_TD <- query_exec(sql, project = project, use_legacy_sql = FALSE)</pre>
## Auto-refreshing stale OAuth token.
## 118.7 gigabytes processed
## Warning: Only first 10 pages of size 10000 retrieved. Use max_pages = Inf
## to retrieve all.
#standardSQL
sql <- "SELECT
          author,
          created_utc,
          url,
          title,
          selftext,
          id,
          num_comments,
          ups,
          downs,
         score
        FROM
          `fh-bigquery.reddit_posts.201*`
        WHERE
          subreddit = 'Conservative'
#qet post data
df_reddit_cons <- query_exec(sql, project = project, use_legacy_sql = FALSE)</pre>
## 118.7 gigabytes processed
## Warning: Only first 10 pages of size 10000 retrieved. Use max_pages = Inf
## to retrieve all.
df_TD_sent <- df_reddit_TD %>%
              mutate(post_split = get_sentences(title)) %$%
              sentiment_by(post_split)
df_TD_sent %>% summarise(mean = mean(ave_sentiment))
## 1 -0.02264612
df_C_sent <- df_reddit_cons %>%
              mutate(post_split = get_sentences(title)) %$%
```

```
sentiment_by(post_split)

df_C_sent %>% summarise(mean = mean(ave_sentiment))

## mean
## 1 -0.0581569

plot(uncombine(df_TD_sent))
```



plot(uncombine(df_C_sent))

