Russian Tweets - January 2019 Data

Load libraries

```
library(rmarkdown)
library(knitr)
library(dplyr)
library(tidyverse)
library(lubridate)
library(stringr)
library(tidytext)
library(ggthemes)#Themes for formating
library(grid) #Add grid line
library(wordcloud2)
```

Read data from tweets from 418 Russian accounts released by Twitter in January 2019.

```
# read data
russia_users <- read_csv("russia_201901_1_users_csv_hashed.csv")
russia_tweets <- read_csv("russian_201901_1_tweets_csv_hashed.csv")</pre>
```

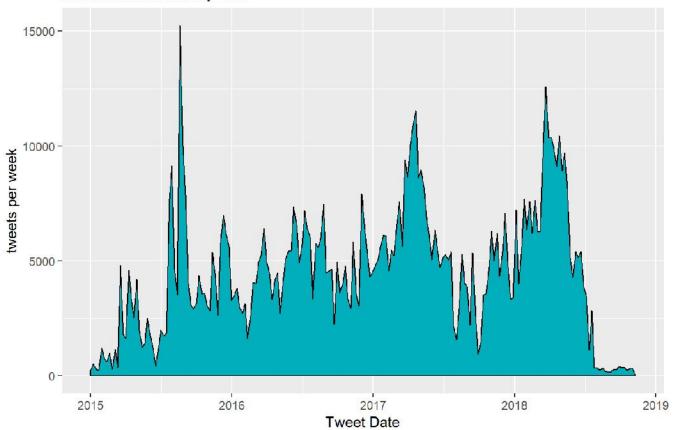
Trend over time - filtering out the few tweets from before 2015

```
# trend over time
tweets <- russia_tweets %>%
  mutate(tweet_date=date(tweet_time)) %>%
  filter(tweet_date > ymd("2014-12-31"))

ggplot(data = tweets, mapping = aes(tweet_date)) + geom_area(stat = "bin", fill = "#00AFBB", co
lor = "black", binwidth=7) +
  labs(title="Russian Tweets per Week", subtitle = "Data Released January 2019", x = "Tweet Dat
e", y= "tweets per week")
```

Russian Tweets per Week

Data Released January 2019



```
# likes and retweets
tweets %>%
  group_by(is_retweet) %>%
  summarize(n=n()) %>%
  mutate(prop = n/sum(n))
```

```
# most common hashtags
hashtag_summary <- russia_tweets %>%
  select(hashtags, userid, user_display_name, account_language) %>%
  filter(hashtags != "[]", account_language == "en") %>% # get rid of tweets with no hashtags
  mutate(hashtags = str_sub(hashtags,2,str_length(hashtags)-1)) %>% # remove first and Last char
acters (brackets)
  mutate(hashtags = str_split(hashtags,",")) # separate multiple hashtags into a list
hashtag_list <- unnest(hashtag_summary, hashtags) # restructure so that there is 1 hashtag per r
ecord
hashtag_freq <- hashtag_list %>%
  group_by(hashtags) %>%
  summarize(n=n()) %>%
  filter(n >= 200) %>%
  rename(word = hashtags, freq = n)
# word cloud
wordcloud2(data=hashtag_freq)
```

