## Week11-twitter

Jiayin Qu 3/28/2020

#### **Library Imports**

```
knitr::opts_chunk$set(echo = TRUE)
library(tidyverse)
library(twitteR)
library(stringr)
api <- 'e0y2pHHrYtT320wP8WSsPa0i7'
apiSecret <- 'Ewv63M79SR6ocpWGbW5lpOgiX3z8aMJddwqR5Fx70tjxo4lb4r'
access <- '1195948151179501569-THuTApWDbYUrbooDA0iSldWpgY63WT'
accessSecret <- '0Y5ESKILi1GgVivsbM1JeM3UmWLISO7ToADW8V9ZlZL4v'
setup_twitter_oauth(api, apiSecret, access, accessSecret)</pre>
```

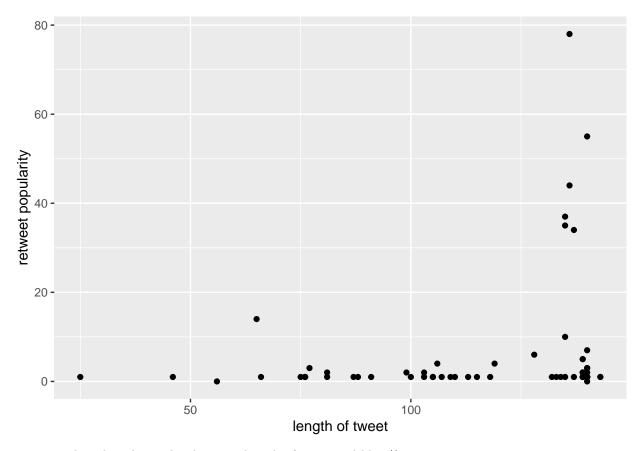
## [1] "Using direct authentication"

### **Data Import**

#### Visualization

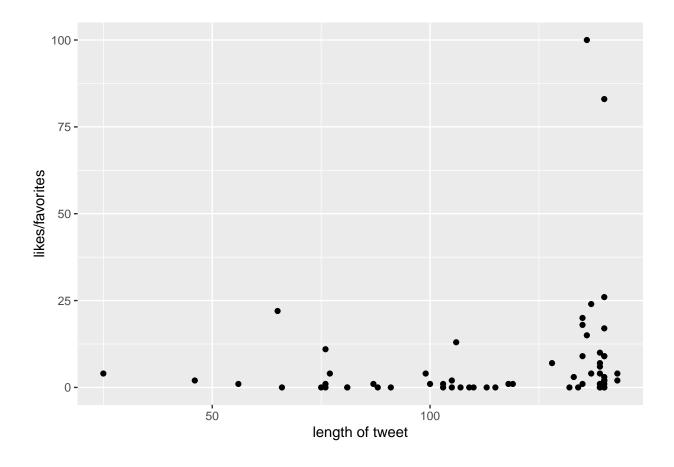
• visualize the relationship between length of tweet and retweet popularity

```
ggplot(tweets_tbl, aes(len_tweets, retweetCount)) +
  geom_point() +
  labs(x = "length of tweet", y = "retweet popularity")
```



• visualize the relationship between length of tweet and likes/favorites

```
ggplot(tweets_tbl, aes(len_tweets, favoriteCount)) +
  geom_point() +
  labs(x = "length of tweet", y = "likes/favorites")
```



# Analysis

```
#calculate the relationship between length of tweet and other variables
corRetweet <- cor.test(tweets_tbl$len_tweets, tweets_tbl$retweetCount, method = "pearson")
corPop <- cor.test(tweets_tbl$len_tweets, tweets_tbl$favoriteCount, method = "pearson")</pre>
```

The correlation between length of tweet and retweet popularity was 0.2261786 (p>=.05), which is not statistically significant.

The correlation between length of tweet and likes/favorites was 0.2028331 (p>=.05), which is not statistically significant.