Author: Edward Gregg

Class: CMSC206 Fall 2021

Project: Project 5B

Due Date: 20211114

Outline:

1. Create twitter tweep api auth
   1. twitter = tweepy.OAuthHandler(api\_key, api\_secret)
2. Create twitter tweepy api object
   1. api = tweepy.API(twitter)
3. Retrieve the tweets from a user using user\_timeline (do this for 2 users!!!!)
4. Analyze the tweets with textblob
   1. blob\_object = TextBlob(tweet.text, analyzer=NaiveBayesAnalyzer())
   2. analysis = blob\_object.sentiment
5. Generate a chart using the sentiments analyzed for each individual
6. Use the provided word cloud library to generate a word cloud of the file

Writeup:

By far the most challenging project and this is to be expected. First the fun part was working with tweepy and interpreting the sentiments of a tweet. This was a great exposure to using a complex library with python. I don’t completely understand how it classifies tweets positive or negative but I will accept it’s bias. I didn’t have any neutrals that you showed in your example. I tried but couldn’t replicate that example.

Most of my problems came down to generating the word cloud. I wouldn’t even say generating the word cloud was the problem I would say cleaning it up was the problem. I noticed that urls were at the end of every string and tried to replace them with a blank space using regex. Constant issues arose with this cleanup process that I eventually had to abandon. Another problem that I encountered was working with pandas. I initially generated the tweets and saved them to a csv that was then processed by pandas. I worked with the pandas object but couldn’t generate a text string for the wordcloud library to process. Ultimately using the csv library.

Definitely not my best work. I was exposed to matplotlib which I hadn’t worked with much before in addition to working with wordcloud which I didn’t have much experience with. I really enjoyed this project even though there were aspects that I couldn’t accomplish. Last realization is that I may have been able to generate strings from tweepy.

Screenshots:

Text

Description automatically generated

Text

Description automatically generated

A picture containing shape

Description automatically generated

Chart, pie chart

Description automatically generated