﻿#!/usr/bin/env python3

# -\*- coding: utf-8 -\*-

"""

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"""

#TRUDEAU

from twython import Twython

import json

from textblob import TextBlob

# Load credentials from json file

with open("/Users/jarnail/.spyder-py3/Creds.json", "r") as file:

creds = json.load(file)

python\_tweets = Twython(creds['consumer\_key'], creds['consumer\_secret'])

# Apiquery to get top 10 tweets

query = {'q': 'Trudeau', # OR 'q': 'Trump'

'result\_type': 'popular',

'count': 10,

'lang': 'en',

'tweet\_mode':'extended'

}

import pandas as pd

# Searching tweets

dict\_ = {'user': [], 'date': [], 'text': [], 'favorite\_count': []}

for status in python\_tweets.search(\*\*query)['statuses']:

dict\_['user'].append(status['user']['screen\_name'])

dict\_['date'].append(status['created\_at'])

dict\_['text'].append(status['full\_text'])

dict\_['favorite\_count'].append(status['favorite\_count'])

# Sorting data

df = pd.DataFrame(dict\_)

df.sort\_values(by='favorite\_count', inplace=True, ascending=False)

df.head(5)

#output printed results to a .txt

import sys

orig\_stdout = sys.stdout

f = open('/Users/jarnail/.spyder-py3/tweetsAPI-Trudeau.txt', 'w')

sys.stdout = f

for a in range (0,10):

m = str (a)

##print(df['text'][a]) >> only need to output sentiment (That is the polarity and subjectivity value of the tweets)

analysis = TextBlob(df['text'][a])

print (analysis.sentiment.polarity,',',analysis.sentiment.subjectivity)

sys.stdout = orig\_stdout

f.close()

#Trudeau Graph

import matplotlib.pyplot as plt

import numpy as np

#edited the outpout txt file so that

x1, y1 = np.loadtxt('/Users/jarnail/.spyder-py3/tweetsAPI-Trudeau.txt', delimiter=',', unpack=True)

plt.plot(x1,y1, label='Top 10 Tweets')

plt.xlabel('Polarity')

plt.ylabel('Subjectivity')

plt.title('#Trudeau')

plt.legend()

plt.show()



#TRUMP

from twython import Twython

import json

from textblob import TextBlob

# Load credentials from json file

with open("/Users/jarnail/.spyder-py3/Creds.json", "r") as file:

creds = json.load(file)

python\_tweets = Twython(creds['consumer\_key'], creds['consumer\_secret'])

# Apiquery to get top 10 tweets

query = {'q': 'Trump',

'result\_type': 'popular',

'count': 10,

'lang': 'en',

'tweet\_mode':'extended'

}

import pandas as pd

# Searching tweets

dict\_ = {'user': [], 'date': [], 'text': [], 'favorite\_count': []}

for status in python\_tweets.search(\*\*query)['statuses']:

dict\_['user'].append(status['user']['screen\_name'])

dict\_['date'].append(status['created\_at'])

dict\_['text'].append(status['full\_text'])

dict\_['favorite\_count'].append(status['favorite\_count'])

# Sorting data

df = pd.DataFrame(dict\_)

df.sort\_values(by='favorite\_count', inplace=True, ascending=False)

df.head(5)

#output printed results to a .txt

import sys

orig\_stdout = sys.stdout

f = open('/Users/jarnail/.spyder-py3/tweetsAPI-Trump.txt', 'w')

sys.stdout = f

for a in range (0,10):

m = str (a)

##print(df['text'][a]) >> only need to output sentiment (That is the polarity and subjectivity value of the tweets)

analysis = TextBlob(df['text'][a])

print (analysis.sentiment.polarity,',',analysis.sentiment.subjectivity)

sys.stdout = orig\_stdout

f.close()

#Trump Graph

x2, y2 = np.loadtxt('/Users/jarnail/.spyder-py3/tweetsAPI-Trump.txt', delimiter=',', unpack=True)

plt.plot(x2,y2, label='Top 10 Tweets')

plt.xlabel('Polarity')

plt.ylabel('Subjectivity')

plt.title('#Trump')

plt.legend()

plt.show()



#Trudeau VS Trump

plt.plot(x1,y1, label='#Trudeau')

plt.plot(x2, y2, label='#trump')

plt.legend()



*Results:*

*Analysing the polarity of top 10 tweets of both the parties, it can be seen that overall tweets mentioning Trudeau are positive as compared to Trump.*

*Polarity > 0 means positive tweets*

*Polarity < 0 means negative tweets*