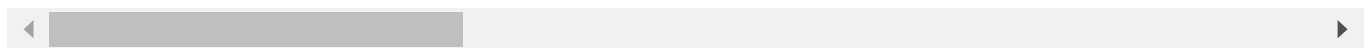# Twitter Sentiment analysis

```
import tweepy
import pandas as pd
from textblob import TextBlob
import re
from wordcloud import WordCloud
import matplotlib.pyplot as plt


consumer_key = "consumer_key"
consumer_key_secret = "consumer_key_secret"
access_token = "access_token"
access_token_secret = "access_token_secret"


auth = tweepy.OAuthHandler(consumer_key, consumer_key_secret)
auth.set_access_token(access_token, access_token_secret)
api = tweepy.API(auth)
api = tweepy.API(auth, wait_on_rate_limit=True)


posts=api.user_timeline(screen_name="CandiceAccola", count=100,lang="en",tweet_mode="extended
i=1
for tweet in posts[0:5]:
  print(str(i)+'.'+' '+tweet.full_text + '\n')
  i=i+1
```

```
⟶    1. #GivingTuesday. This year I'm donating to @WEAREHAPPYPERIOD. Make a donation or creat

      2. Packing &amp; getting ready for @bloodynightcon ! Come hang out with me this weekend

      3. #NewProfilePic https://t.co/MGvKPdfSQR

      4. Guess what?! I'm on @TheOrville tonight! Watch TONIGHT at 9/8c on @FOXTV #TheOrville

      5. ✨ Hella Grateful ✨ for everybody who joined @itsourjourneys this year in celebrat:
```

```
df=pd.DataFrame([tweet.full_text for tweet in posts], columns=['Tweets'])
def clean_text(text):
  text=re.sub(r'@[A-Za-z0-9]+',' ',text) #for removing '@' mentions
  text=re.sub(r'#','',text) #for removing the '#' symbol
  text=re.sub(r'http\S+',' ',text) #for removing URL's
  text=re.sub(r'\n','',text)

  #removing emojis from text
  re_emo=re.compile('[\U00010000-\U0010ffff]', flags=re.UNICODE)
```

```
  text= re_emo.sub(r' ' , text)
  return text
df['Tweets']=df['Tweets'].apply(clean_text)
df
```

	Tweets
0	GivingTuesday. This year I'm donating to . Ma...
1	Packing & getting ready for ! Come hang ...
2	NewProfilePic
3	Guess what?! I'm on tonight! Watch TONIGHT a...
4	✨ Hella Grateful ✨ for everybody who joined ...
...	...
95	Jamaican dip... ❤️
96	Officially Husband and Wife!!!! Congrats vraer...
97	These two coconuts can't wait to watch vraerog...
98	Tree branch view...
99	Lunch views...

100 rows × 1 columns

```
allw=' '.join([t for t in df['Tweets']])
#for wordcloud
wc=WordCloud(width=2000,height=1500,random_state=15,max_font_size=300,background_color = '#89
plt.imshow(wc)
plt.axis('off')
```

```
    (-0.5, 1999.5, 1499.5, -0.5)
```



```
def subj(text):
  return TextBlob(text).sentiment.subjectivity
```

```
def polar(text):
  return TextBlob(text).sentiment.polarity
df['Subjectivity']=df['Tweets'].apply(subj)
df['Polarity']=df['Tweets'].apply(polar)
df.head()
```

	Tweets	Subjectivity	Polarity
0	GivingTuesday. This year I'm donating to . Ma...	0.050	0.000
1	Packing & getting ready for ! Come hang ...	0.250	0.125
2	NewProfilePic	0.000	0.000
3	Guess what?! I'm on tonight! Watch TONIGHT a...	0.000	0.000
4	✨ Hella Grateful ✨ for everybody who joined ...	0.575	0.500

```
def wordscore(score):
  if score<0:
   return 'Negative'
  elif score==0:
   return 'Neutral'
  else:
    return 'Positive'
df['Results']=df['Polarity'].apply(wordscore)
df
```

	Tweets	Subjectivity	Polarity	Results
0	GivingTuesday. This year I'm donating to . Ma...	0.050	0.000	Neutral
1	Packing & getting ready for ! Come hang ...	0.250	0.125	Positive
2	NewProfilePic	0.000	0.000	Neutral
3	Guess what?! I'm on tonight! Watch TONIGHT a...	0.000	0.000	Neutral
4	✨ Hella Grateful ✨ for everybody who joined ...	0.575	0.500	Positive
...	...	...	...	...
95	Jamaican dip... ❤️	0.000	0.000	Neutral
96	Officially Husband and Wife!!!! Congrats vraer...	0.600	0.500	Positive
97	These two coconuts can't wait to watch vraerog...	0.250	0.250	Positive
98	Tree branch view...	0.000	0.000	Neutral
99	Lunch views...	0.000	0.000	Neutral

100 rows × 4 columns

```
j=1
sorted=df.sort_values(by=['Polarity'])
for i in range(0,sorted.shape[0]):
  if(sorted['Results'][i]=='Positive'):
    print(str(j)+')'+sorted['Tweets'][i])
    print()
    j=j+1
```

32) girl put your records on, tell me your favorite song. You go ahead, let your (pi

33)Fun day at the   office   check out my adventures in my stories

34)Love the inside of our   bracelet for   ! The collection continues! ❤️

35) bracelet honoring all the good work of   is officially out today! ♥ Link in Bio

36) as someone who has played your own creation of Joshpardy...I am fully behind jos

37)In one week I'll be in Brussels with _Events ! Can't wait to meet everybody and s

38)So thrilled   is finally available! Join the journey at

39)Had such a great time meeting   with   ! collectivejourneys

40)The Journey has Officially Begun!! We are giving everyone an Exclusive Gift for ou

41)Lovely morning spent with   ❤️ so…

42)After years of being asked if these two would ever get together, I'm so happy we g

43)One more week til Paris! Last time I was there I found out I was pregnant the day

44)RT : Who's ready for Klaroline? We're ready.   TheOriginals

45)The literary character I relate most to is Sarah Cynthia Sylvia Stout who did not

46)Is it too early to start drinking? Asking for a friend...

47)I watched a movie on a plane that edited out profanity. Instead of saying I'm gonn

48)Thank you   &   for such a fun day! Honored to be on your cover this month!…

49)I'm stealing my two year old's mantra. "I don't want to go to time out."

50)My favorite escape room is the one where I try to leave my house with a two year c

51)Supported ATFH2017 and it's great cause today. Follow   & learn about their wc

52)RT : Sweetbitter headed to series at . Putting in my vote for   as Tess right nc

53)   Sounds fun! Thanks   !

54)Thought I'd post this one where all the Klaroline fandom started Had fun filming

55)Celebrating 100 years of smiles & adventures w/   Share your favorite little r

56)So excited to finally travel to Brazil! Come hang with me in Rio De Janeiro at the

57)About last night.... truly beautiful wedding! Unforgettable night and cheers to Mr

58)Officially Husband and Wife!!!! Congrats vraerogers erichenstagram xoxo our love

59)These two coconuts can't wait to watch vraerogers & erichenstagram get married

```
j=1
sorted=df.sort_values(by=['Polarity'])
for i in range(0,sorted.shape[0]):
  if(sorted['Results'][i]=='Negative'):
    print(str(j)+')'+sorted['Tweets'][i])
    print()
    j=j+1
```

1)Two years later...different state...same broncos family @ StubHub Center

2)Sunday Funday! Go broncos !   @ StubHub Center

3)Homemade Costumes of Halloween's Past ....   Janet Leigh

4)Flashback Friday to When i saw an insane sunflower field in Italy and then made joe t

5)I just happened to be sitting here casually and totally didn't pose and ask _kaylaewe

6) @ Coba Ruins, Tulum

7)A delayed flight means being that creepy person at the airport lining up and photograp

8)So long Jamaica   ✌ ❤️ @ GeeJam

```
posit=df[df.Results=='Positive']
posit=posit['Tweets']
round((posit.shape[0]/df.shape[0])*100,1)
```

59.0

```
negit=df[df.Results=='Negative']
negit=negit['Tweets']
round((negit.shape[0]/df.shape[0])*100,1)
```

8.0

```
df['Results'].value_counts()
plt.title('Tweet·Sentiment·Analysis')
plt.xlabel('Sentiment')
```

```
plt.xlabel('Sentiment')
plt.ylabel('Count')
df['Results'].value_counts().plot(kind='pie')
plt.show()
```

Tweet Sentiment Analysis