

Project5Number3 Last Checkpoint: 14 minutes ago (autosaved)

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```
In [3]: import tweepy
import pandas as pd
auth = tweepy.OAuthHandler("EERDKHYIOP0VzQ6YrIO0Fret", "9sa7f3AryJlpEpQyY7QHPTsBYihT0bMbyb85b2WLe5JwUcdk3S")
auth.set_access_token("612045570-GoZgRQRHi5mnRQtFx7OVWu0fPV0e1rGooEnbXT", "PohzG0F7wI48hLrg0rWuIzD0N9oVMDG61HJN1FVWTEMSx")

api = tweepy.API(auth)
# Search for a keyword and filter out retweets
keyword = "TheLionKing" + " -filter:retweets"
since_when = "2019-07-01"

tweets = tweepy.Cursor(api.search, q = keyword,
                        lang="en", since = since_when).items(20)

# Print out text, user name, and Location
for tweet in tweets:
    print("text: %s" % (tweet.text))
    print("screen_name: %s" % (tweet.user.screen_name))
    print("location: %s\n" % (tweet.user.location))

text: Disney...meh pra vcs #disney #thelionking #oreilleao #salvador #bahia #brasil https://t.co/oZcTXq76fw
screen_name: erikportela
location: Salvador-Centro

text: I heard that was a good movie but got to boycott #TheLionKing because of Disney VP pedophile on the plane with Epstein
```

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```
location: California, USA

text: #Free #Movie Ticket W/ Purchase of $75 or More #Fandango Gift Card W/ Promo Code SUMMER19 &gt; https://t.co/EtVpeGpHgC... h
https://t.co/Pn4mRHt81
screen_name: joysfreebies
location: Rancho Cucamonga

text: @Kasi_pk1 Another hit after #Endgame & #TheLionKing
screen_name: kingmakerrr99
location:

text: #Super30 #TheLionKing #TheLionKing for those who thinks lion king was a srk film....dont forget- https://t.co/wSSChrMVL
q
screen_name: CtgUni
location: Chittagong,Bangladesh

text: It's #HakunaMatata when it comes to #TheLionKing and big box office numbers! See if you can still feel the love for... http
s://t.co/8GdQYA1mFF
screen_name: dsnyrungr1
location: Westminster, MD

text: How n*ggaz be when they in front of the mirror 🤔🤔🤔 tag a friend/
Add to story
#acting #funny #meme #skit #comedy... https://t.co/bU2FXUixIL
screen_name: Yosi4real1
location:

text: Hot damn! It's been a while. Got a double header for you all to check out.
🔥🔥🔥

You know the drill, link in bio... https://t.co/aIEqHPWR6e
```

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You know the drill, link in bio... https://t.co/aiEqHPWR6e
screen_name: Destiny_Lackie
location: Toronto

text: Oh, must it all end in violence? I'd hate to be responsible for the death of a family member. Wouldn't you agree, Simba?
screen_name: TheLionKing
location: Pride Lands

text: Just saw #TheLionKing. It was cute. Scar shoulda been skinnier and casting Beyoncé as Nala was a big mistake, don't @ me.
screen_name: the_Annelis
location: New York City

text: Hakuna Matata! I just published "Odds Are We're Getting A Lion King Prequel" https://t.co/rTW8KJA6IE #TheLionKing
screen_name: chuckborowicz
location: 🇵🇭

text: The Lion King got me again. Hearing a child's voice say, "Dad? Dad, get up..." shatters my heart every time. It's s... https://t.co/00dZ0kgp8m
screen_name: CarsonSKay
location:

text: We are rocking Simba AND Nala tonight! #TheLionKing https://t.co/68tUvE512n
screen_name: jiminbear134340
location: Busan ||27|| 🇰🇷

text: Wait a minute. In the Lion King, when Mufasa appears as a ghost to speak to Simba, why doesn't he tell Simba "yeah... https://t.co/2LZ8dCED1b
screen_name: eddscicluna
location: Manhattan, NY
```

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https://t.co/2LZ8dCED1b
screen_name: eddscicluna
location: Manhattan, NY

text: I cried, I laughed and I loved. Thank you for letting me relive my childhood #TheLionKing
screen_name: CillaBacs
location:

text: @BO_Cinema SRK voice over lifetime film collection will be more than Hrithik career highest grosser with Titanic 1e... https://t.co/5v8iizYgy1
screen_name: iamromance01
location: West Bengal, India

text: Beaten single-handedly by #TheLionKing. @Fantasytaz https://t.co/7t5at3FD5K https://t.co/DAwoO3dqtT
screen_name: ConsultFantasy
location: - Louisville -

text: #thelionking @ Rave Motion Pictures- Franklin Park 16 https://t.co/sxTfEd51w0
screen_name: GregHaueter
location: UT: 41.685977, -83.603661

text: #TheLionKing was soooooooo good! 🥰
screen_name: _NigerianBeauty
location: Mississippi, USA

text: Oh, we just can't wait for you to see our latest The Lion King Collection! 🙌

📷: Second image is a look at the deta... https://t.co/SKdEzNIRuQ
screen_name: Loungefly
location: Los Angeles
```

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```
screen_name: loungerly
location: Los Angeles

In [5]: # Clean text with package "cleantext"
# See https://pypi.org/project/clean-text/
# pip install clean-text[gl]

from cleantext import clean

# For removing stop words
import nltk
from nltk.corpus import stopwords

# For frequency analysis
import collections

#pip install -U textblob
# For sentiment analysis
from textblob import TextBlob

import pandas as pd

# Search by keyword and time
tweets = tweepy.Cursor(api.search, q = keyword,
                        lang="en", since = since_when).items(20)

# Retrieve only texts
tweet_text = [tweet.text for tweet in tweets]
words = []

# Clean text and split into words
```

```
tweet_text = [tweet.text for tweet in tweets]
words = []

# Clean text and split into words
for i in range(len(tweet_text)):
    #Before cleaning
    print("%s" % (tweet_text[i]))

    # Clean text with "cleantext"
    tweet_text[i] = clean(tweet_text[i],
                           no_urls=True,
                           no_emails=True,
                           no_numbers=True,
                           no_phone_numbers=True,
                           no_currency_symbols=True,
                           no_line_breaks=True,
                           no_punct=True,
                           replace_with_url="")

    #After cleaning
    print("%s\n" % (tweet_text[i]))

    #Split string into words
    words.append(tweet_text[i].split())

# Flatten the word list to do frequency test
words = [y for x in words for y in x]

# print(words)

Saw with pride (pun intended) over the weekend. Talented family feels. 🦁 #TheLionKing https://t.co/z2NqS63sCg
saw with pride pun intended over the weekend talented family feels thelionking
```

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```
Saw with pride (pun intended) over the weekend. Talented family feels. 🐾 #TheLionKing https://t.co/z2NqS63sCg
saw with pride pun intended over the weekend talented family feels thelionking

Mufasa's death still gets me, and always will be ❤️ #TheLionKing
mufasas death still gets me and always will be thelionking

Disney...meh pra vcs #disney #thelionking #oreileao #salvador #bahia #brasil https://t.co/oZcTXq7GfW
disneymeh pra vcs disney thelionking oreileao salvador bahia brasil

I heard that was a good movie but got to boycott #TheLionKing because of Disney VP pedophile on the plane with Epistine
i heard that was a good movie but got to boycott thelionking because of disney vp pedophile on the plane with epistine

#Free #Movie Ticket W/ Purchase of $75 or More #Fandango Gift Card W/ Promo Code SUMMER19 &gt; https://t.co/EtVpeGpHgC... http
s://t.co/Pn4m4RH7BI
free movie ticket w purchase of <cur>number> or more fandango gift card w promo code summer19 >

@Kasi_pkl Another hit after #Endgame &amp; #TheLionKing
kasipl another hit after endgame thelionking

#Super30 #TheLionKing #TheLionKing for those who thinks lion king was a srk film....dont forget- https://t.co/WSSChrMWLq
super30 thelionking thelionking for those who thinks lion king was a srk filmdont forget

It's #HakunaMatata when it comes to #TheLionKing and big box office numbers! See if you can still feel the love for... https://t.co/8GdQVA1wFF
its hakunamatata when it comes to thelionking and big box office numbers see if you can still feel the love for

How n'ggaz be when they in front of the mirror 🤔🤔🤔 tag a friend/
Add to story
#acting #funny #meme #skit #comedy... https://t.co/bU2FXUixIL
how nggaz be when they in front of the mirror tag a friend add to story acting funny meme skit comedy
```

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```
Oh, must it all end in violence? I'd hate to be responsible for the death of a family member. Wouldn't you agree, Simba? -Scar
#TheLionKing
oh must it all end in violence id hate to be responsible for the death of a family member wouldnt you agree simba scar thelionk
ing

Just saw #TheLionKing. It was cute. Scar shoulda been skinnier and casting Beyoncé as Nala was a big mistake, don't @ me.
just saw thelionking it was cute scar shoulda been skinnier and casting beyonce as nala was a big mistake dont me

Hakuna Matata! I just published "Odds Are We're Getting A Lion King Prequel" https://t.co/rTW8KJA6IE #TheLionKing
hakuna matata i just published odds are were getting a lion king prequel thelionking

The Lion King got me again. Hearing a child's voice say, "Dad? Dad, get up..." shatters my heart every time. It's s... https://t.co/00dZQkqp8m
the lion king got me again hearing a childs voice say dad dad get up shatters my heart every time its s

We are rocking Simba AND Nala tonight! #TheLionKing https://t.co/68tUvE5I2n
we are rocking simba and nala tonight thelionking

Wait a minute. In the Lion King, when Mufasa appears as a ghost to speak to Simba, why doesn't he tell Simba "yeah,... https://t.co/2LZ8dCED1b
wait a minute in the lion king when mufasa appears as a ghost to speak to simba why doesnt he tell simba yeah

I cried, I laughed and I loved. Thank you for letting me relive my childhood #TheLionKing
i cried i laughed and i loved thank you for letting me relive my childhood thelionking

@BO_Cinema SRK voice over lifetime film collection will be more than Hrithik career highest grosser with Titanic le... https://t.co/5v8ii2Ygy1
bocinema srk voice over lifetime film collection will be more than hrithik career highest grosser with titanic le

Beaten single-handedly by #TheLionKing. @Fantasytaz https://t.co/7tSat3FDSK https://t.co/DAwo03dqtt
beaten singlehandedly by thelionking fantasytaz
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```
docinema srk voice over lifetime film collection will be more than nrtnik career highest grosser with titanic ie  
Beaten single-handedly by #TheLionKing. @Fantasytaz https://t.co/7t5at3FDSK https://t.co/DAwo03dqtT  
beaten singlehandedly by thelionking fantasytaz  
  
#thelionking @ Rave Motion Pictures- Franklin Park 16 https://t.co/sxTfedS1w0  
thelionking rave motion pictures franklin park <number>
```

```
In [6]: # Remove stop words  
        nltk.download("stopwords")  
        stop_words = set(stopwords.words('english'))  
        words = [w for w in words if not w in stop_words]  
  
        # print(words)  
  
        # Count word frequency  
        word_counts = collections.Counter(words)  
  
        # Create a dataframe from the word frequency count  
        # Only get the top 10 frequently used words  
        word_frequency = pd.DataFrame(word_counts.most_common(10), columns = ["word", "frequency"])  
        word_frequency
```

[nltk_data] Downloading package stopwords to C:\Users\tien
[nltk_data] tran\AppData\Roaming\nltk_data...
[nltk_data] Unzipping corpora\stopwords.zip.

```
Out[6]:
```

	word	frequency
0	thelionking	14
1	lion	4

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```
[nltk_data] Downloading package stopwords to C:\Users\tien  
[nltk_data] tran\AppData\Roaming\nltk_data...  
[nltk_data] Unzipping corpora\stopwords.zip.
```

```
Out[6]:
```

	word	frequency
0	thelionking	14
1	lion	4
2	king	4
3	simba	4
4	got	3
5	saw	2
6	family	2
7	death	2
8	still	2
9	disney	2

```
In [7]: import seaborn as sns  
        import matplotlib.pyplot as plt  
  
        # Use Seaborn to draw a word frequency chart  
        sns.barplot(x = "word", y = "frequency", data = word_frequency)
```

```
Out[7]: <matplotlib.axes._subplots.AxesSubplot at 0xd344119c88>
```

```
In [18]: # Sentiment analysis with Textblob package.
```

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```
In [7]: import seaborn as sns
import matplotlib.pyplot as plt

# Use Seaborn to draw a word frequency chart
sns.barplot(x = "word", y = "frequency", data = word_frequency)

Out[7]: <matplotlib.axes._subplots.AxesSubplot at 0xd344119c88>

In [18]: # Sentiment analysis with Textblob package.
sentiment_objects = [TextBlob(tweet) for tweet in tweet_text]
sentiment_values = [[tweet.sentiment.polarity, str(tweet)] for tweet in sentiment_objects]
sentiment_df = pd.DataFrame(sentiment_values, columns=["polarity", "tweet"])

In [1]: # Using plotly.express
import plotly.express as px

import pandas as pd
df = pd.read_csv('The Lion King.csv')

fig = px.line(df, x='Index', y='Polarity')
fig.show()
```

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