Assignment 2, exercise 1

```
In [279...
          #Importing of packages
          import nltk
          from nltk import word tokenize
          import re
          import pandas as pd
          from collections import Counter
          from nltk.corpus import stopwords
          import numpy as np
          import math
          from wordcloud import WordCloud
          english words = set(nltk.corpus.words.words())
          stopwords=stopwords.words('english')
 In [2]:
          #Importing the dataset
          df = pd.read csv('/Users/espensivertsen/Downloads/wallstreet subs.csv')
```

Creating the tags

Creation and implementation of the 'textsubmission' column

Finding every word starting with '\$'

```
In [4]:
    b=str(list(df['textsubmission']))
    reg_ex=('\$\w+')
    c=re.findall(reg_ex,b)
```

Removing the '\$'

```
In [5]: c = [e[1:] for e in c]
```

Removing every element containing a number

```
In [6]: test = [x for x in c if not any(x1.isdigit() for x1 in x)]
```

Making everything uppercase

```
In [7]:
          main list=[x.upper() for x in test]
         Finding the top 15 tags
In [318...
          word_counter = {}
           for word in main list:
               if word in word counter:
                   word counter[word] += 1
               else:
                    word counter[word] = 1
          popular_words = sorted(word_counter, key = word_counter.get, reverse = True)
          top 15 = popular words[:15]
          top 15
          ['SPY',
Out[318...
           'TSLA',
           'SPCE',
           'PLTR',
           'MSFT',
           'ROPE',
           'AAPL',
           'AMZN',
           'NIO',
           'ZM',
           'AMD'
           'BABA',
           'GME',
           'DIS',
           'BA']
```

Exercise 1: Tokenizing and cleaning

Making the "selftext" column a list

```
In [9]:
    liste_selftext=[]
    for i in range(len(df['selftext'])):
        liste_selftext.append(df['selftext'][i])
```

Removing URLS

```
In [10]:
    liste_selftext_1=[]
    for i in range(len(liste_selftext)):
        liste_selftext_1.append(re.sub(r'http\S+','',str(liste_selftext[i])))
```

Removing numbers

```
In [11]:
    def remove(list):
        pattern = '[0-9]'
        list = [re.sub(pattern, '', i) for i in list]
        return list
        liste_selftext_2 = remove(liste_selftext_1)
```

Making everything lowercase

```
In [12]: liste_selftext_3=[x.lower() for x in liste_selftext_2]
```

Removing stop words

Tokenizing the list and removing punctuation

```
In [14]:
    tokenizer = nltk.RegexpTokenizer(r"\w+")
    liste_token=[]
    for i in range(len(df['selftext'])):
        liste_token.append(tokenizer.tokenize(str(liste_selftext_4[i])))
```

remove stopwords that were "hidden" in punctuation

```
In [15]:
    liste_token2=[]
    for i in range(len(liste_token)):
        test=[]
        for j in liste_token[i]:
            if j not in stopwords:
                test.append(j)
        liste_token2.append(test)
```

removing duplicates within the same sublist

Adding the tokens column to the df

```
In [17]: df['tokens']=list_tokens
```

Exercise 2: Adding the stocks to the dataframe

Making the tags lower case so that they match the tokens (which we made all lower case)

```
In [118... top_15_lower=[x.lower() for x in top_15]
```

Creating a list of the stocks within the tokens list (when there is no tag the list is empty)

replacing all the empty items with 'Other'

```
for i in range(len(list_stocks)):
    if list_stocks[i]==[]:
        list_stocks[i]= ['Other']
```

Adding the list of stocks to the dataframe

```
In [21]: df['stocks']=list_stocks
```

Exercise 3: Creation of large documents for each stock

Creating a list for every words for each tag + 'Other'

```
In [117...
          words ba=[]
          for i in range(len(list stocks)):
              if 'ba' in list stocks[i]:
                  words ba.append(list tokens[i])
          words spy=[]
          for i in range(len(list stocks)):
              if 'spy' in list stocks[i]:
                  words_spy.append(list_tokens[i])
          words tsla=[]
          for i in range(len(list stocks)):
              if 'tsla' in list stocks[i]:
                    words tsla.append(list tokens[i])
          words spce=[]
          for i in range(len(list stocks)):
              if 'spce' in list stocks[i]:
                  words_spce.append(list_tokens[i])
          words pltr=[]
          for i in range(len(list stocks)):
              if 'pltr' in list stocks[i]:
                  words pltr.append(list tokens[i])
          words msft=[]
          for i in range(len(list stocks)):
              if 'msft' in list stocks[i]:
                  words msft.append(list tokens[i])
          words rope=[]
          for i in range(len(list_stocks)):
              if 'rope' in list stocks[i]:
                  words rope.append(list tokens[i])
          words aapl=[]
          for i in range(len(list stocks)):
```

```
if 'aapl' in list_stocks[i]:
        words aapl.append(list tokens[i])
words amzn=[]
for i in range(len(list stocks)):
    if 'amzn' in list stocks[i]:
        words amzn.append(list tokens[i])
words nio=[]
for i in range(len(list_stocks)):
    if 'nio' in list stocks[i]:
        words nio.append(list tokens[i])
words zm=[]
for i in range(len(list stocks)):
    if 'zm' in list stocks[i]:
        words zm.append(list tokens[i])
words amd=[]
for i in range(len(list stocks)):
    if 'amd' in list stocks[i]:
        words amd.append(list tokens[i])
words baba=[]
for i in range(len(list stocks)):
    if 'baba' in list_stocks[i]:
        words baba.append(list tokens[i])
words gme=[]
for i in range(len(list stocks)):
    if 'gme' in list stocks[i]:
        words gme.append(list tokens[i])
words dis=[]
for i in range(len(list stocks)):
    if 'dis' in list stocks[i]:
        words dis.append(list tokens[i])
words Other=[]
for i in range(len(list stocks)):
    if 'Other' in list stocks[i]:
        words_Other.append(list_tokens[i])
```

Removing non english words from the tokens and flattening the list for the 5 chosen tags (couldnt remove non-english words when cleaning of the tokens because tags such as 'tsla', 'gme' would get removed then)

```
words spy1.append(test3)
words spy flat = [x for l in words spy1 for x in l]
words tsla1=[]
for i in range(len(words tsla)):
    test4=[]
    for j in words tsla[i]:
        if j in english words:
            test4.append(j)
    words tsla1.append(test4)
words tsla flat = [x for l in words tsla1 for x in l]
words spce1=[]
for i in range(len(words spce)):
    test5=[]
    for j in words spce[i]:
        if j in english words:
            test5.append(j)
    words spcel.append(test5)
words spce flat = [x for 1 in words spce1 for x in 1]
words amzn1=[]
for i in range(len(words amzn)):
    test6=[]
    for j in words amzn[i]:
        if j in english words:
            test6.append(j)
    words amzn1.append(test6)
words amzn flat = [x for l in words amzn1 for x in l]
```

Exercise 4: TF and IDF

Choosing the stocks: 'gme', 'spy', 'tsla', 'spce' and 'amzn' and finding the 5 most common terms from the token list and how many times they occur for each chosen stock

```
In [214...
          words to count gme = (word for word in words gme flat)
          top gme=Counter(words to count gme).most common(len(words gme flat))
          #spy
          words to count spy = (word for word in words spy flat)
          top_spy=Counter(words_to_count_spy).most_common(len(words_spy_flat))
          #tsla
          words to count tsla = (word for word in words tsla flat)
          top tsla=Counter(words to count tsla).most common(len(words tsla flat))
          #spce
          words to count spce = (word for word in words spce flat)
          top_spce=Counter(words_to_count_spce).most_common(len(words_spce_flat))
          #amzn
          words to count amzn = (word for word in words amzn flat)
          top amzn=Counter(words to count amzn).most common(len(words amzn flat))
In [215...
          print(top gme[0:5])
          print(top spy[0:5])
          print(top tsla[0:5])
          print(top spce[0:5])
```

print(top_amzn[0:5])

```
[('buy', 409), ('short', 393), ('going', 388), ('like', 387), ('get', 378)]
[('spy', 7038), ('market', 2447), ('like', 2242), ('p', 2129), ('going', 193
9)]
[('like', 1249), ('buy', 1094), ('get', 1032), ('market', 1020), ('stock', 101
7)]
[('like', 391), ('go', 364), ('stock', 335), ('buy', 333), ('get', 331)]
[('like', 343), ('market', 299), ('going', 265), ('time', 262), ('one', 260)]
```

Describe similarities and differences between the stocks: We can see from the results that a lot of the same words go again and again such ass 'buy', 'going', 'like', 'stock', 'market' which makes since this subreddit is about the stock market. How the 'p' appeared am I not sure of, the 'p' is not in the stopwords list, maybe its an abbreviation for something like prize or something? Other than that all the result are quite alike, and expectable.

Why aren't the TFs not necessarily a good description of the stocks? TF is how many times a word appears in a text. When discussing on reddit a lot of words not necessarily used to desribe the stock may be used. Even though we've done some cleaning steps there will be words left. It's alot of talk about 'buying', 'going', the 'market' etc which will occur just because the stocks are talked about which isnt really describing the stock.

Calculating the TF (number the given word occurs / total words in the document) for the top 5 tokens for the 5 chosen stocks.

```
In [237...
          #ame
          tf qme=[]
          for i in range(len(top_gme)):
              tf_gme.append((top_gme[i][0], top_gme[i][1]/len(words_gme_flat)))
          #spy
          tf spy=[]
          for i in range(len(top spy)):
              tf_spy.append((top_spy[i][0], top_spy[i][1]/len(words_spy_flat)))
          #tsla
          tf tsla=[]
          for i in range(len(top tsla)):
              tf tsla.append((top tsla[i][0], top tsla[i][1]/len(words tsla flat)))
          #spce
          tf spce=[]
          for i in range(len(top spce)):
              tf spce.append((top spce[i][0], top spce[i][1]/len(words spce flat)))
          #amzn
          tf amzn=[]
          for i in range(len(top_amzn)):
              tf amzn.append((top amzn[i][0], top amzn[i][1]/len(words amzn flat)))
```

```
In [253...
    print(tf_gme[0:5])
    print(tf_spy[0:5])
    print(tf_tsla[0:5])
    print(tf_spce[0:5])
    print(tf_amzn[0:5])

[('buy', 0.005571144468357534), ('short', 0.0053532023864657965), ('going', 0.
```

005285095485874629), ('like', 0.005271474105756395), ('get', 0.005148881684692 293)]
[('spy', 0.018888635418204264), ('market', 0.006567276338213389), ('like', 0.0

```
06017095852175897), ('p', 0.005713825633043035), ('going', 0.00520390225573999 2)]
[('like', 0.005998031070665354), ('buy', 0.005253679736835787), ('get', 0.0049 55939203303959), ('market', 0.004898312003265542), ('stock', 0.004883905203255 936)]
[('like', 0.0067212156633547635), ('go', 0.00625709079657579), ('stock', 0.005 758586310035411), ('buy', 0.005724206690274005), ('get', 0.0056898270705126)]
[('like', 0.004922573515693394), ('market', 0.0042911063591612965), ('going', 0.0038031544654774036), ('time', 0.0037600998866229424), ('one', 0.00373139683 40533014)]
```

IDF calculation

Calculation by using the formula: log(Number of documents/number of documents the word appear in). where the number of documents will be the length of the list_tokens.

Need to find number of documents the words appear in. (Since IDF for one word is the same, only needs to calculate one time each word)

```
In [193...
          #buy
          docs with buy=0
          for i in range(len(list_tokens)):
              if 'buy' in list tokens[i]:
                  docs with buy+=1
          #short
          docs with short=0
          for i in range(len(list tokens)):
              if 'short' in list tokens[i]:
                  docs with short+=1
          #going
          docs with_going=0
          for i in range(len(list tokens)):
              if 'going' in list tokens[i]:
                  docs with going+=1
          #like
          docs with like=0
          for i in range(len(list tokens)):
              if 'like' in list tokens[i]:
                  docs with like+=1
          #aet
          docs with get=0
          for i in range(len(list tokens)):
              if 'get' in list tokens[i]:
                  docs with get+=1
          #spy
          docs with spy=0
          for i in range(len(list tokens)):
              if 'spy' in list tokens[i]:
                  docs with spy+=1
          #market
          docs with market=0
          for i in range(len(list_tokens)):
              if 'market' in list_tokens[i]:
                  docs with market+=1
          #p
          docs with p=0
          for i in range(len(list tokens)):
              if 'p' in list tokens[i]:
                  docs with p+=1
          #stock
          docs with stock=0
          for i in range(len(list tokens)):
              if 'stock' in list_tokens[i]:
```

```
docs with stock+=1
          #qo
          docs with go=0
          for i in range(len(list tokens)):
              if 'go' in list tokens[i]:
                  docs with go+=1
          #time
          docs with time=0
          for i in range(len(list tokens)):
              if 'time' in list_tokens[i]:
                  docs with time+=1
          #one
          docs with one=0
          for i in range(len(list tokens)):
              if 'one' in list tokens[i]:
                  docs with one+=1
          #know
          docs with know=0
          for i in range(len(list tokens)):
              if 'know' in list tokens[i]:
                  docs with know+=1
          #money
          docs with money=0
          for i in range(len(list tokens)):
              if 'money' in list tokens[i]:
                  docs with money+=1
          #would
          docs with would=0
          for i in range(len(list tokens)):
              if 'would' in list tokens[i]:
                  docs with would+=1
          #also
          docs_with_also=0
          for i in range(len(list tokens)):
              if 'also' in list tokens[i]:
                  docs with also+=1
In [194...
          #Making a list of all the numbers from above to have easier code to iterate t
          list with numbers=[('buy', docs with buy), ('short', docs with short), ('going
In [195...
          IDF values=[]
          for i in range(len(list with numbers)):
              IDF values.append((list with numbers[i][0],math.log(len(list tokens)/list
          IDF values
         [('buy', 1.7092449465395803),
Out[195...
           ('short', 2.516102451794195),
           ('going', 1.6616262711589307),
           ('like', 1.8765250164535898),
           ('get', 1.6292332442144688),
           ('spy', 2.458342081577906),
           ('market', 1.632774170417683),
           ('p', 2.5026453109141555),
           ('stock', 1.7644847241540806),
           ('go', 1.738141600724539),
           ('time', 1.7769143434253172),
           ('one', 1.8765250164535898),
           ('know', 1.7780650915384952),
           ('money', 1.7356554115986131),
```

```
('would', 1.9368320519235682),
('also', 2.129326636430573)]
```

Exercise 5: TF-IDF

Top 10 tf for the 5 stocks

```
In [254...
          print(tf gme[0:10])
          print(tf spy[0:10])
          print(tf tsla[0:10])
          print(tf spce[0:10])
          print(tf amzn[0:10])
         [('buy', 0.005571144468357534), ('short', 0.0053532023864657965), ('going', 0.
         005285095485874629), ('like', 0.005271474105756395), ('get', 0.005148881684692
         293), ('know', 0.00479472580161822), ('stock', 0.00464489062031765), ('time',
         0.004440569918544147), ('qo', 0.004345220257716512), ('one', 0.004249870596888
         [('spy', 0.018888635418204264), ('market', 0.006567276338213389), ('like', 0.0
         06017095852175897), ('p', 0.005713825633043035), ('going', 0.00520390225573999
         2), ('get', 0.005123388038271092), ('go', 0.005104601387528347), ('money', 0.0
         04887213000362314), ('time', 0.00481206639739134), ('buy', 0.00465640557695146
         3)1
         [('like', 0.005998031070665354), ('buy', 0.005253679736835787), ('get', 0.0049
         55939203303959), ('market', 0.004898312003265542), ('stock', 0.004883905203255
         936), ('going', 0.004715825869810551), ('go', 0.0045621533363747685), ('mone
         y', 0.00453333973635556), ('one', 0.004514130669676087), ('time', 0.0044853170
         69656878)]
         [('like', 0.0067212156633547635), ('go', 0.00625709079657579), ('stock', 0.005
         758586310035411), ('buy', 0.005724206690274005), ('get', 0.0056898270705126),
         ('going', 0.0056210678309897896), ('money', 0.005242892013614329), ('market',
         0.004761577336954653), ('time', 0.0047443875270739505), ('one', 0.004349021899
         817788)]
         [('like', 0.004922573515693394), ('market', 0.0042911063591612965), ('going',
         0.0038031544654774036), ('time', 0.0037600998866229424), ('one', 0.00373139683
         40533014), ('stock', 0.0036165846237747384), ('would', 0.003530475466065816),
         ('get', 0.0035017724134961755), ('also', 0.003487420887211355), ('buy', 0.0034
         300147820720732)]
In [271...
          #The function makes it able to sort by the 2nd element, the tf and not
          #alphabetically by words
          def takeSecond(elem):
              return elem[1]
```

Assignment 2, Part 1

Top 10 TF-IDF for \$GME. Calculated by TF*IDF for the given word.

```
In [292...
          TF IDF gme=[]
          for i in range(len(tf gme[0:10])):
              for j in range(len(IDF values)):
                   if tf gme[i][0]==IDF values[j][0]:
                       TF IDF gme.append((tf gme[i][0], tf gme[i][1]*IDF values[j][1]))
          TF IDF gme.sort(key=takeSecond, reverse=True)
          TF IDF gme
Out[292... [('short', 0.013469205649537127),
           ('like', 0.009892053033039193),
           ('buy', 0.009522450528982053),
           ('going', 0.008781853504912757),
           ('know', 0.008525334571356286),
           ('get', 0.008388729211227686),
```

```
('stock', 0.008195838544917065),
           ('one', 0.007974988491752528),
           ('time', 0.007890512381244087),
           ('go', 0.007552608094248071)]
         Top 10 TF-IDF for $SPY
In [293...
          TF IDF spy=[]
          for i in range(len(tf spy[0:10])):
               for j in range(len(IDF values)):
                   if tf spy[i][0]==IDF values[j][0]:
                       TF_IDF_spy.append((tf_spy[i][0], tf_spy[i][1]*IDF_values[j][1]))
          TF IDF spy.sort(key=takeSecond, reverse=True)
          TF_IDF_spy
Out[293... [('spy', 0.04643472731215443),
           ('p', 0.01429967892791626),
           ('like', 0.011291230893007202),
           ('market', 0.010722879175030045),
           ('go', 0.008872520026779225),
           ('going', 0.008646940700680792),
           ('time', 0.008550629803039663),
           ('money', 0.008482517691713945),
           ('get', 0.008347194114962014),
           ('buy', 0.007958937701443007)]
         Top 10 TF-IDF for $TSLA
In [294...
          TF IDF tsla=[]
          for i in range(len(tf tsla[0:10])):
               for j in range(len(IDF_values)):
                   if tf tsla[i][0]==IDF values[j][0]:
                       TF IDF tsla.append((tf tsla[i][0], tf tsla[i][1]*IDF values[j][1]
          TF IDF tsla.sort(key=takeSecond, reverse=True)
          TF IDF tsla
Out[294... [('like', 0.011255455353569446),
           ('buy', 0.00897982554092396),
           ('stock', 0.00861757612536173),
           ('one', 0.008470879129187574),
           ('get', 0.008074380906328579),
           ('market', 0.007997837317578874),
           ('time', 0.00797002423588372),
           ('go', 0.007929668502837236),
           ('money', 0.007868315646020557),
           ('going', 0.007835940155488127)]
         Top 10 TF-IDF for $SPCE
In [302...
          TF IDF spce=[]
          for i in range(len(tf_spce[0:10])):
               for j in range(len(IDF values)):
                   if tf spce[i][0]==IDF values[j][0]:
                       TF IDF spce.append((tf spce[i][0], tf spce[i][1]*IDF values[j][1]
          TF IDF spce.sort(key=takeSecond, reverse=True)
          TF IDF spce
Out[302... [('like', 0.012612529333264923),
           ('go', 0.010875709813039024),
           ('stock', 0.010160937576780297),
```

```
04.04.2022, 19:06
```

```
('buy', 0.0097840713582989),
('going', 0.009340113979938983),
('get', 0.00927005541711055),
('money', 0.00909985389585686),
('time', 0.008430370247625872),
('one', 0.008161048392112596),
('market', 0.007774580486225774)]
```

Top 10 TF-IDF for \$AMZN

```
In [295...
          TF IDF amzn=[]
          for i in range(len(tf amzn[0:10])):
              for j in range(len(IDF values)):
                   if tf amzn[i][0]==IDF values[j][0]:
                       TF_IDF_amzn.append((tf_amzn[i][0], tf_amzn[i][1]*IDF_values[j][1]
          TF IDF amzn.sort(key=takeSecond, reverse=True)
          TF IDF amzn
Out[295... [('like', 0.009237332347530552),
           ('also', 0.007425858187583479),
           ('market', 0.0070064076257536296),
           ('one', 0.007002059505416745),
           ('would', 0.006837938041206071),
           ('time', 0.006681375421252215),
           ('stock', 0.006381408322261059),
           ('going', 0.006319421373112654),
           ('buy', 0.005862735432812751),
           ('get', 0.005705204029741104)]
```

Since I only have the IDF for the topwords the words doesn't change, but the order of them change. This makes sense as now they are dependant on other documents aswell.

(was told to only find the IDF for the top words of each stock)

Exercise 6: Word cloud

Creation of the wordcloud. The wordclouds can be found in a seperate folder in the assignment. I did one wordcloud based on TF-IDF and one based of TF.

```
In [281...
          wc= WordCloud(
               background color='white',
               height=600,
               width=400
           )
```

Out [313...

```
GME:
In [298...
          wc.generate(str(TF_IDF_gme))
          wc.to file('GME.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out [298...
In [313...
          wc.generate(str(top_gme))
          wc.to file('GME tf.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
```

SPY:

```
In [299...
          wc.generate(str(TF_IDF_spy))
          wc.to file('SPY.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out [299...
In [314...
           wc.generate(str(top spy))
          wc.to file('SPY tf.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out[314...
         TSLA:
In [300...
          wc.generate(str(TF IDF tsla))
          wc.to_file('TSLA.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out[300...
In [315...
          wc.generate(str(top tsla))
          wc.to file('TSLA tf.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out [315...
         SPCE:
In [303...
          wc.generate(str(TF IDF spce))
          wc.to file('spce.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out [303...
In [316...
          wc.generate(str(top spce))
          wc.to file('SPCE tf.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out [316...
         AMZN:
In [304...
          wc.generate(str(TF_IDF_amzn))
          wc.to file('AMZN.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out[304...
In [317...
          wc.generate(str(top amzn))
          wc.to file('AMZN tf.png')
          <wordcloud.wordcloud.WordCloud at 0x7f90b72b8340>
Out[317...
         Lastly I've just added the dataframe to show that the textsubmission, tokens and stocks
         columns has been added
In [319...
```

Out[319	created_utc	title	selftext	score	textsubmission	tokens
0	1586173811	What is the Fed actually buying?	Okay, I may actually just be retarded. On my d	1	What is the Fed actually buying? Okay, I may a	[okay, may, actually, retarded, defense, every
1	1586173320	I didn't learn about puts because I was lazy	Beginning of the this virus shit, everyone was	1	I didn't learn about puts because I was lazy B	[beginning, virus, shit, everyone, talking, pu
2	1586173268	HOT TAKE	Literally everyone has free time on their hand	1	HOT TAKE Literally everyone has free time on t	[literally, everyone, free, time, hands, mean,
3	1586172639	Fuck you Gordon	Gordon I believed in you, I can't even begin t	1	Fuck you Gordon Gordon I believed in you, I ca	[gordon, believed, even, begin, describe, disa
4	1586171822	Can't find a picture	Someone uploaded a ohoto of the stock market h	1	Can't find a picture Someone uploaded a ohoto	[someone, uploaded, ohoto, stock, market, hist
•••				•••		
82237	1602007302	Hurricane Delta (BECN)	\nHurricane Delta is looking like it is going 	1	Hurricane Delta (BECN) 🔥 \nHurricane Delta is	[hurricane, delta, looking, like, going, hit,
82238	1602006818	Made 40k on Nike. Next play? CROCS motherfucker	# 1. Introduction\n\n[Proof that I'm lucky](h	1	Made 40k on Nike. Next play? CROCS motherfucke	[introduction, proof, lucky, way, going, struc
82239	1602006029	Please screenshot the whole timeline, not just	I could nut over your retarded failures just f	1	Please screenshot the whole timeline, not just	[could, nut, retarded, failures, fine, really,
82240	1602005968	What is your price target for Tesla in 40 years?	I am 26 and currently max out my roth each yea	1	What is your price target for Tesla in 40 year	[currently, max, roth, year, robinhood, specul
82241	1601822856	White House infected folks will infect Senators	They all gonna get the rona, \n\nThis means no	1	White House infected folks will infect Senator	[gonna, get, rona, means, checkies, stimulus,

82242 rows × 7 columns