

# Data Cleaning

In [1]:

```
import pandas as pd
#importing pandas to use the library functions
```

In [2]:

```
df=pd.read_csv('Information.csv', encoding = "ISO-8859-1")
#df contains the file information which is in csv format
```

In [3]:

```
df
```

Out[3]:

|       | _unit_id  | _golden | _unit_state | _trusted_judgments | _last_judgment_at | gender | gender:confidence | profile_yn | pro |
|-------|-----------|---------|-------------|--------------------|-------------------|--------|-------------------|------------|-----|
| 0     | 815719226 | False   | finalized   | 3                  | 10/26/15 23:24    | male   | 1.0000            | yes        |     |
| 1     | 815719227 | False   | finalized   | 3                  | 10/26/15 23:30    | male   | 1.0000            | yes        |     |
| 2     | 815719228 | False   | finalized   | 3                  | 10/26/15 23:33    | male   | 0.6625            | yes        |     |
| 3     | 815719229 | False   | finalized   | 3                  | 10/26/15 23:10    | male   | 1.0000            | yes        |     |
| 4     | 815719230 | False   | finalized   | 3                  | 10/27/15 1:15     | female | 1.0000            | yes        |     |
| ...   | ...       | ...     | ...         | ...                | ...               | ...    | ...               | ...        | ... |
| 20045 | 815757572 | True    | golden      | 259                | NaN               | female | 1.0000            | yes        |     |
| 20046 | 815757681 | True    | golden      | 248                | NaN               | male   | 1.0000            | yes        |     |
| 20047 | 815757830 | True    | golden      | 264                | NaN               | male   | 1.0000            | yes        |     |
| 20048 | 815757921 | True    | golden      | 250                | NaN               | female | 0.8489            | yes        |     |
| 20049 | 815757985 | True    | golden      | 249                | NaN               | female | 1.0000            | yes        |     |

20050 rows x 26 columns

In [4]:

```
df.columns  
#gives the list of column names in this dataframe
```

Out[4]:

```
Index(['_unit_id', '_golden', '_unit_state', '_trusted_judgments',  
      '_last_judgment_at', 'gender', 'gender:confidence', 'profile_yn',  
      'profile_yn:confidence', 'created', 'description', 'fav_number',  
      'gender_gold', 'link_color', 'name', 'profile_yn_gold', 'profileimage',  
      'retweet_count', 'sidebar_color', 'text', 'tweet_coord', 'tweet_count',  
      'tweet_created', 'tweet_id', 'tweet_location', 'user_timezone'],  
      dtype='object')
```

In [5]:

```
df.info()  
#gives the information about each of the column i.e regarding null values and its Dtype
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 20050 entries, 0 to 20049  
Data columns (total 26 columns):  
#   Column                                Non-Null Count  Dtype  
---  -  
0   _unit_id                             20050 non-null  int64  
1   _golden                             20050 non-null  bool  
2   _unit_state                         20050 non-null  object  
3   _trusted_judgments                  20050 non-null  int64  
4   _last_judgment_at                   20000 non-null  object  
5   gender                              19953 non-null  object  
6   gender:confidence                   20024 non-null  float64  
7   profile_yn                         20050 non-null  object  
8   profile_yn:confidence               20050 non-null  float64  
9   created                             20050 non-null  object  
10  description                          16306 non-null  object  
11  fav_number                          20050 non-null  int64  
12  gender_gold                         50 non-null     object  
13  link_color                         20050 non-null  object  
14  name                               20050 non-null  object  
15  profile_yn_gold                    50 non-null     object  
16  profileimage                       20050 non-null  object  
17  retweet_count                      20050 non-null  int64  
18  sidebar_color                      20050 non-null  object  
19  text                              20050 non-null  object  
20  tweet_coord                        159 non-null    object  
21  tweet_count                        20050 non-null  int64  
22  tweet_created                      20050 non-null  object  
23  tweet_id                          20050 non-null  float64  
24  tweet_location                     12566 non-null  object  
25  user_timezone                      12252 non-null  object  
dtypes: bool(1), float64(3), int64(5), object(17)  
memory usage: 3.8+ MB
```

In [6]:

```
df.shape  
#gives the number of rows and columns of a dataframe in tuple format
```

Out[6]:

```
(20050, 26)
```

In [7]:

```
df['gender_gold'].isnull().sum()  
#gives the total number of NaN values for the specified index
```

```
Out[7]:
```

```
20000
```

```
In [8]:
```

```
df.dropna(subset=['gender','gender:confidence'], how='any', inplace=True)  
#drops the rows with NaN values for the specified indices
```

```
In [9]:
```

```
df.shape
```

```
Out[9]:
```

```
(19953, 26)
```

```
In [10]:
```

```
df.drop(df[df['gender']=='brand'].index, inplace=True)  
df.drop(df[df['gender']=='unknown'].index, inplace=True)
```

```
In [11]:
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 12894 entries, 0 to 20049  
Data columns (total 26 columns):  
#   Column                                Non-Null Count  Dtype  
---  -  
0   _unit_id                             12894 non-null  int64  
1   _golden                              12894 non-null  bool  
2   _unit_state                          12894 non-null  object  
3   _trusted_judgments                  12894 non-null  int64  
4   _last_judgment_at                  12858 non-null  object  
5   gender                              12894 non-null  object  
6   gender:confidence                   12894 non-null  float64  
7   profile_yn                          12894 non-null  object  
8   profile_yn:confidence               12894 non-null  float64  
9   created                             12894 non-null  object  
10  description                          11194 non-null  object  
11  fav_number                          12894 non-null  int64  
12  gender_gold                         36 non-null    object  
13  link_color                          12894 non-null  object  
14  name                                12894 non-null  object  
15  profile_yn_gold                     36 non-null    object  
16  profileimage                        12894 non-null  object  
17  retweet_count                       12894 non-null  int64  
18  sidebar_color                       12894 non-null  object  
19  text                                12894 non-null  object  
20  tweet_coord                         78 non-null    object  
21  tweet_count                         12894 non-null  int64  
22  tweet_created                       12894 non-null  object  
23  tweet_id                            12894 non-null  float64  
24  tweet_location                      8747 non-null  object  
25  user_timezone                       8497 non-null  object  
dtypes: bool(1), float64(3), int64(5), object(17)  
memory usage: 2.6+ MB
```

```
In [12]:
```

```
df['tweet_coord'].isnull().sum()
```

```
Out[12]:
```

```
12816
```

```
In [13]:
```

```
df.drop(['tweet_coord','gender_gold', 'profile_yn_gold'], axis=1, inplace=True)
```

In [14]:

```
df.shape
```

Out[14]:

(12894, 23)

In [15]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 12894 entries, 0 to 20049
Data columns (total 23 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   _unit_id                             12894 non-null  int64
1   _golden                             12894 non-null  bool
2   _unit_state                         12894 non-null  object
3   _trusted_judgments                 12894 non-null  int64
4   _last_judgment_at                 12858 non-null  object
5   gender                             12894 non-null  object
6   gender:confidence                 12894 non-null  float64
7   profile_yn                         12894 non-null  object
8   profile_yn:confidence             12894 non-null  float64
9   created                           12894 non-null  object
10  description                         11194 non-null  object
11  fav_number                         12894 non-null  int64
12  link_color                         12894 non-null  object
13  name                               12894 non-null  object
14  profileimage                       12894 non-null  object
15  retweet_count                      12894 non-null  int64
16  sidebar_color                     12894 non-null  object
17  text                               12894 non-null  object
18  tweet_count                       12894 non-null  int64
19  tweet_created                     12894 non-null  object
20  tweet_id                           12894 non-null  float64
21  tweet_location                     8747 non-null   object
22  user_timezone                     8497 non-null   object
dtypes: bool(1), float64(3), int64(5), object(14)
memory usage: 2.3+ MB
```

In [16]:

```
df
```

Out[16]:

|   | _unit_id  | _golden | _unit_state | _trusted_judgments | _last_judgment_at | gender | gender:confidence | profile_yn | pro |
|---|-----------|---------|-------------|--------------------|-------------------|--------|-------------------|------------|-----|
| 0 | 815719226 | False   | finalized   | 3                  | 10/26/15 23:24    | male   | 1.0000            | yes        |     |
| 1 | 815719227 | False   | finalized   | 3                  | 10/26/15 23:30    | male   | 1.0000            | yes        |     |
| 2 | 815719228 | False   | finalized   | 3                  | 10/26/15 23:33    | male   | 0.6625            | yes        |     |
| 3 | 815719229 | False   | finalized   | 3                  | 10/26/15 23:10    | male   | 1.0000            | yes        |     |
| 4 | 815719230 | False   | finalized   | 3                  | 10/27/15 1:15     | female | 1.0000            | yes        |     |

|       | _unit_id  | _golden | _unit_state | _trusted_judgments | _last_judgment_at | gender | gender:confidence | profile_yn | pro |
|-------|-----------|---------|-------------|--------------------|-------------------|--------|-------------------|------------|-----|
| ...   | ...       | ...     | ...         | ...                | ...               | ...    | ...               | ...        | ... |
| 20045 | 815757572 | True    | golden      | 259                | NaN               | female | 1.0000            | yes        |     |
| 20046 | 815757681 | True    | golden      | 248                | NaN               | male   | 1.0000            | yes        |     |
| 20047 | 815757830 | True    | golden      | 264                | NaN               | male   | 1.0000            | yes        |     |
| 20048 | 815757921 | True    | golden      | 250                | NaN               | female | 0.8489            | yes        |     |
| 20049 | 815757985 | True    | golden      | 249                | NaN               | female | 1.0000            | yes        |     |

12894 rows x 23 columns

In [17]:

```
df['tweet_location'].fillna(value='unknown', inplace=True)
df['user_timezone'].fillna(value='unknown', inplace=True)
#to fill the NaN values for the specified indices with "unknown"
```

In [18]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 12894 entries, 0 to 20049
Data columns (total 23 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   _unit_id                             12894 non-null  int64
1   _golden                             12894 non-null  bool
2   _unit_state                         12894 non-null  object
3   _trusted_judgments                 12894 non-null  int64
4   _last_judgment_at                  12858 non-null  object
5   gender                             12894 non-null  object
6   gender:confidence                  12894 non-null  float64
7   profile_yn                         12894 non-null  object
8   profile_yn:confidence              12894 non-null  float64
9   created                           12894 non-null  object
10  description                         11194 non-null  object
11  fav_number                         12894 non-null  int64
12  link_color                         12894 non-null  object
13  name                               12894 non-null  object
14  profileimage                       12894 non-null  object
15  retweet_count                      12894 non-null  int64
16  sidebar_color                     12894 non-null  object
17  text                               12894 non-null  object
18  tweet_count                       12894 non-null  int64
19  tweet_created                     12894 non-null  object
20  tweet_id                          12894 non-null  float64
21  tweet_location                     12894 non-null  object
22  user_timezone                      12894 non-null  object
dtypes: bool(1), float64(3), int64(5), object(14)
memory usage: 2.3+ MB
```

In [19]:

```
df['description']  
#gives the series for the specified index
```

Out[19]:

```
0          i sing my own rhythm.  
1      I'm the author of novels filled with family dr...  
2          louis whining and squealing and all  
3      Mobile guy. 49ers, Shazam, Google, Kleiner Pe...  
4      Ricky Wilson The Best FRONTMAN/Kaiser Chiefs T...  
      ...  
20045          (rp)  
20046      Whatever you like, it's not a problem at all. ...  
20047      #TeamBarcelona ..You look lost so you should f...  
20048      Anti-statist; I homeschool my kids. Aspiring t...  
20049          Teamwork makes the dream work.  
Name: description, Length: 12894, dtype: object
```

In [20]:

```
df['_last_judgment_at']
```

Out[20]:

```
0      10/26/15 23:24  
1      10/26/15 23:30  
2      10/26/15 23:33  
3      10/26/15 23:10  
4      10/27/15 1:15  
      ...  
20045      NaN  
20046      NaN  
20047      NaN  
20048      NaN  
20049      NaN  
Name: _last_judgment_at, Length: 12894, dtype: object
```

In [21]:

```
df['description'].fillna(value='Unknown',inplace=True)  
df['_last_judgment_at'].fillna(value='Unknown',inplace=True)
```

In [22]:

```
df.shape
```

Out[22]:

```
(12894, 23)
```

In [23]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 12894 entries, 0 to 20049  
Data columns (total 23 columns):  
#   Column                Non-Null Count  Dtype  
---  ---  
0   _unit_id              12894 non-null  int64  
1   _golden               12894 non-null  bool  
2   _unit_state          12894 non-null  object  
3   _trusted_judgments   12894 non-null  int64  
4   _last_judgment_at    12894 non-null  object  
5   gender               12894 non-null  object  
6   gender:confidence    12894 non-null  float64  
7   profile_yn          12894 non-null  object  
8   profile_yn:confidence 12894 non-null  float64  
9   created              12894 non-null  object  
10  description           12894 non-null  object
```

```

11 fav_number          12894 non-null int64
12 link_color          12894 non-null object
13 name                12894 non-null object
14 profileimage        12894 non-null object
15 retweet_count       12894 non-null int64
16 sidebar_color       12894 non-null object
17 text                12894 non-null object
18 tweet_count         12894 non-null int64
19 tweet_created       12894 non-null object
20 tweet_id            12894 non-null float64
21 tweet_location      12894 non-null object
22 user_timezone       12894 non-null object

```

```

dtypes: bool(1), float64(3), int64(5), object(14)
memory usage: 2.3+ MB

```

In [24]:

```

df.describe()
#gives the statistical data like count,mean,std for the numerical values in the dataframe

```

Out[24]:

|       | _unit_id     | _trusted_judgments | gender:confidence | profile_yn:confidence | fav_number    | retweet_count | tweet_  |
|-------|--------------|--------------------|-------------------|-----------------------|---------------|---------------|---------|
| count | 1.289400e+04 | 12894.000000       | 12894.000000      | 12894.000000          | 12894.000000  | 12894.000000  | 1.28940 |
| mean  | 8.157298e+08 | 3.690631           | 0.916154          | 0.994840              | 5475.316194   | 0.067008      | 2.94531 |
| std   | 6.190071e+03 | 13.067179          | 0.165393          | 0.041333              | 13118.359541  | 1.524385      | 7.07212 |
| min   | 8.157192e+08 | 3.000000           | 0.320600          | 0.630800              | 0.000000      | 0.000000      | 1.00000 |
| 25%   | 8.157240e+08 | 3.000000           | 1.000000          | 1.000000              | 137.000000    | 0.000000      | 2.27375 |
| 50%   | 8.157302e+08 | 3.000000           | 1.000000          | 1.000000              | 1126.000000   | 0.000000      | 9.30600 |
| 75%   | 8.157350e+08 | 3.000000           | 1.000000          | 1.000000              | 4956.500000   | 0.000000      | 3.02352 |
| max   | 8.157580e+08 | 274.000000         | 1.000000          | 1.000000              | 341621.000000 | 153.000000    | 2.68019 |

In [25]:

```

df.drop(df[(df['_trusted_judgments'] >=50)].index, inplace=True)
df.drop(df[(df['retweet_count'] >=10)].index, inplace=True)
#to remove outliers by dropping the rows with values that are greater than 50 for '_tr
usted_judgments'and vlaues greater than 10 for 'retweet_count'

```

In [26]:

```

df.duplicated().sum()
#to get the number of duplicate rows

```

Out[26]:

0

## EDA with Data Visualization

In [27]:

```

import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
# %matplotlib inline sets the backend of matplotlib to the 'inline' backend

```

In [28]:

```

df.describe()

```

Out[28]:

|       | _unit_id     | _trusted_judgments | gender:confidence | profile_yn:confidence | fav_number    | retweet_count | tweet_  |
|-------|--------------|--------------------|-------------------|-----------------------|---------------|---------------|---------|
| count | 1.284900e+04 | 12849.0            | 12849.000000      | 12849.000000          | 12849.000000  | 12849.000000  | 1.28490 |
| mean  | 8.157297e+08 | 3.0                | 0.916112          | 0.994825              | 5467.832438   | 0.041248      | 2.94917 |
| std   | 6.057706e+03 | 0.0                | 0.165479          | 0.041403              | 13114.244434  | 0.307915      | 7.08260 |
| min   | 8.157192e+08 | 3.0                | 0.320600          | 0.630800              | 0.000000      | 0.000000      | 1.00000 |
| 25%   | 8.157240e+08 | 3.0                | 1.000000          | 1.000000              | 137.000000    | 0.000000      | 2.26700 |
| 50%   | 8.157302e+08 | 3.0                | 1.000000          | 1.000000              | 1125.000000   | 0.000000      | 9.32000 |
| 75%   | 8.157350e+08 | 3.0                | 1.000000          | 1.000000              | 4951.000000   | 0.000000      | 3.02590 |
| max   | 8.157396e+08 | 3.0                | 1.000000          | 1.000000              | 341621.000000 | 9.000000      | 2.68019 |

In [29]:

```
df.shape
```

Out[29]:

(12849, 23)

In [30]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 12849 entries, 0 to 19998
Data columns (total 23 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   _unit_id                              12849 non-null  int64
1   _golden                               12849 non-null  bool
2   _unit_state                           12849 non-null  object
3   _trusted_judgments                   12849 non-null  int64
4   _last_judgment_at                    12849 non-null  object
5   gender                                12849 non-null  object
6   gender:confidence                     12849 non-null  float64
7   profile_yn                           12849 non-null  object
8   profile_yn:confidence                 12849 non-null  float64
9   created                               12849 non-null  object
10  description                            12849 non-null  object
11  fav_number                             12849 non-null  int64
12  link_color                             12849 non-null  object
13  name                                   12849 non-null  object
14  profileimage                           12849 non-null  object
15  retweet_count                          12849 non-null  int64
16  sidebar_color                          12849 non-null  object
17  text                                   12849 non-null  object
18  tweet_count                           12849 non-null  int64
19  tweet_created                          12849 non-null  object
20  tweet_id                               12849 non-null  float64
21  tweet_location                         12849 non-null  object
22  user_timezone                          12849 non-null  object
dtypes: bool(1), float64(3), int64(5), object(14)
memory usage: 2.3+ MB
```

In [31]:

```
df.dtypes
#gives the Dtype of each of the columns
```

Out[31]:

```
_unit_id          int64
_golden           bool
```



```
_unit_state      object
_trusted_judgments  int64
_last_judgment_at  object
gender           object
gender:confidence  float64
profile_yn       object
profile_yn:confidence  float64
created          object
description       object
fav_number        int64
link_color        object
name             object
profileimage      object
retweet_count     int64
sidebar_color     object
text             object
tweet_count       int64
tweet_created     object
tweet_id          float64
tweet_location    object
user_timezone     object
dtype: object
```

In [32]:

```
df.gender.unique()
#specifies the unique values mentioned under the specified index
```

Out[32]:

```
array(['male', 'female'], dtype=object)
```

In [33]:

```
df.set_index('_unit_id', inplace=True)
#sets the index of the dataframe as the specified column
```

In [34]:

```
df.head()
#shows the first 5 rows of the dataframe
```

Out[34]:

| _golden   | _unit_state | _trusted_judgments | _last_judgment_at | gender         | gender:confidence | profile_yn | profile_yn:c |
|-----------|-------------|--------------------|-------------------|----------------|-------------------|------------|--------------|
| _unit_id  |             |                    |                   |                |                   |            |              |
| 815719226 | False       | finalized          | 3                 | 10/26/15 23:24 | male              | 1.0000     | yes          |
| 815719227 | False       | finalized          | 3                 | 10/26/15 23:30 | male              | 1.0000     | yes          |
| 815719228 | False       | finalized          | 3                 | 10/26/15 23:33 | male              | 0.6625     | yes          |
| 815719229 | False       | finalized          | 3                 | 10/26/15 23:10 | male              | 1.0000     | yes          |
| 815719230 | False       | finalized          | 3                 | 10/27/15 1:15  | female            | 1.0000     | yes          |

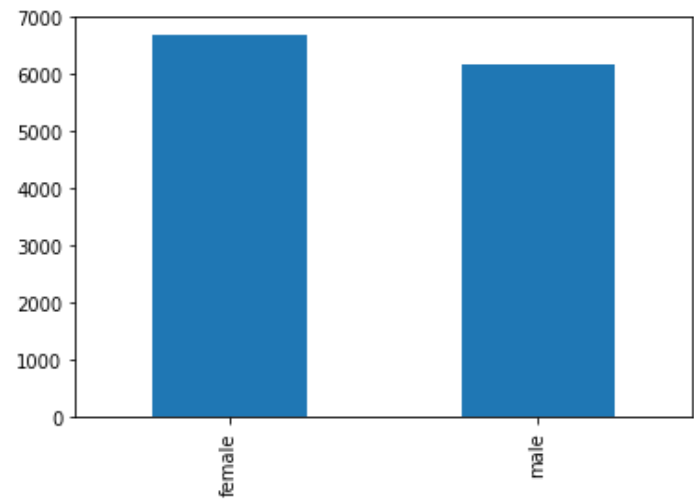
5 rows x 22 columns

In [35]:

```
df.gender.value_counts().plot(kind='bar')
#gives a bar graph which represents the number of entries with the values specified in the column
```

Out[35]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x2113b1e0ac8>

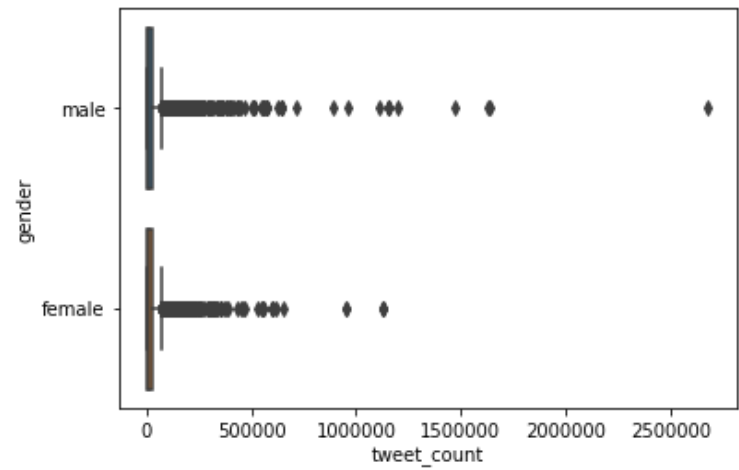


In [36]:

```
sns.boxplot(x='tweet_count', y='gender', data=df)
#represents the given columns in a boxplot
```

Out[36]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x2113b91e408>



In [37]:

```
df.corr()
#shows the co-relation between all the columns
```

Out[37]:

|                    | _golden | _trusted_judgments | gender:confidence | profile_yn:confidence | fav_number | retweet_count | t   |
|--------------------|---------|--------------------|-------------------|-----------------------|------------|---------------|-----|
| _golden            | NaN     | NaN                | NaN               | NaN                   | NaN        | NaN           | NaN |
| _trusted_judgments | NaN     | NaN                | NaN               | NaN                   | NaN        | NaN           | NaN |
| gender:confidence  | NaN     | NaN                | 1.000000          | 0.249948              | -0.039754  | 0.009030      |     |

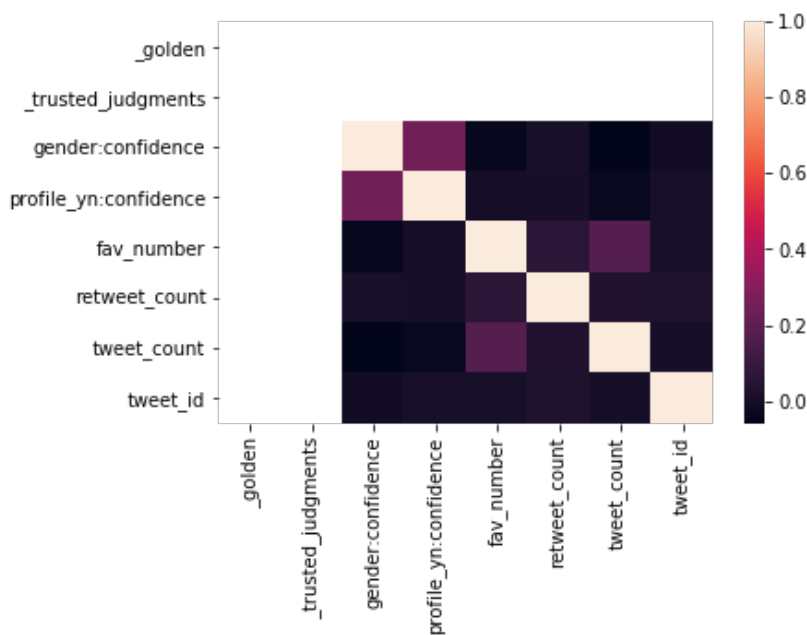
|                       |     |     |           |           |          |          |
|-----------------------|-----|-----|-----------|-----------|----------|----------|
| profile_yn:confidence | NaN | NaN | 0.249948  | 1.000000  | 0.003525 | 0.006571 |
| _golden               | NaN | NaN |           |           |          |          |
| _trusted_judgments    | NaN | NaN |           |           |          |          |
| gender:confidence     | NaN | NaN | 0.039754  | 0.003525  | 1.000000 | 0.064924 |
| fav_number            | NaN | NaN |           |           |          |          |
| retweet_count         | NaN | NaN | 0.009030  | 0.006571  | 0.064924 | 1.000000 |
| tweet_count           | NaN | NaN | -0.058064 | -0.036177 | 0.175372 | 0.029199 |
| tweet_id              | NaN | NaN | -0.010495 | 0.011472  | 0.010459 | 0.027521 |

In [38]:

```
sns.heatmap(df.corr())
#represents the co-relation between all the columns using heatmap,where the darker are
as show less relation
```

Out[38]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x2113ba89fc8>



## QUESTIONS:

In [39]:

```
import re
import nltk
nltk.download('stopwords')
```

```
[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\vaishnavi\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
```

Out[39]:

True

In [40]:

```
from nltk.corpus import stopwords #removing stop words
stop = stopwords.words('english')
df['text'] = df['text'].apply(lambda x: " ".join(x for x in x.split() if x not in stop))
df['description'] = df['description'].apply(lambda x: " ".join(x for x in x.split() if x not in stop))
```

**Q1) What are the most common emotions or words used by males and females?**

In [41]:

```
df1=df.loc[df['gender']=='male']
freq = pd.Series(' '.join(df1['text']).split()).value_counts()[:10]# most common word used by male
freq
```

Out[41]:

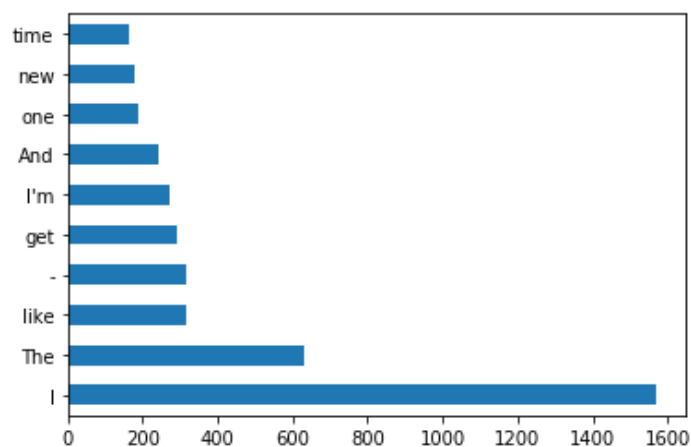
```
I          1567
The         631
like        316
-           314
get          293
I'm         272
And          241
one          189
new          176
time         165
dtype: int64
```

In [42]:

```
freq.sort_values(ascending=False)[:10].plot.barh()
```

Out[42]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x2113ab7af88>



In [43]:

```
df1=df.loc[df['gender']=='female']
freq = pd.Series(' '.join(df1['text']).split()).value_counts()[:10]# most common word used by female
freq
```

Out[43]:

```
I          2358
The         546
I'm         481
like         400
get          309
And          284
one          268
love         247
-           199
people       197
dtype: int64
```

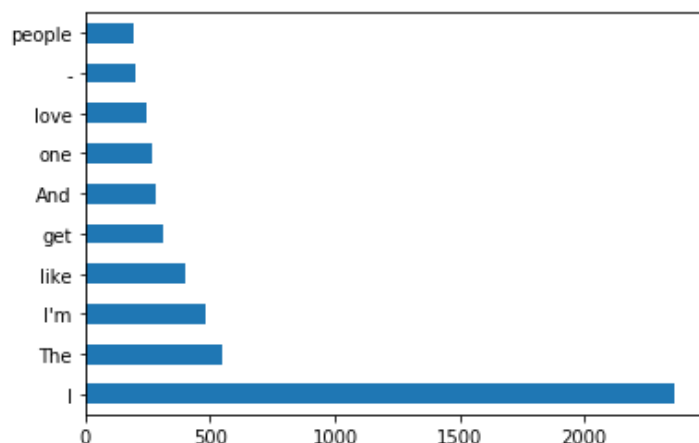
In [44]:

```
freq.sort_values(ascending=False)[:10].plot.barh()
```

Out[44]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x2113b340b00>

<matplotlib.axes.\_subplots.AxesSubplot at 0x2113e248b08>



**So, by the plots the most common words used by males and females in the description as well as text are articles such as I, the, I am and words like : like, get , one, etc. which are common in both the genders. Hence, finding most common words does not help in predicting gender of an user.**

In [45]:

```
pip install pyenchant
```

Requirement already satisfied: pyenchant in c:\users\vaishnavi\anaconda3\lib\site-packages (3.1.1)

Note: you may need to restart the kernel to use updated packages.

WARNING: You are using pip version 20.2.1; however, version 20.2.2 is available. You should consider upgrading via the 'C:\Users\vaishnavi\anaconda3\python.exe -m pip install --upgrade pip' command.

In [46]:

```
import enchant    #checking the number of typos made by female and male!!!

# create dictionary for the language
# in use(en_US here)
dict = enchant.Dict("en_US")
cnt1=0
df['text'] = df['text'].replace(to_replace=r'^https?:\/\/\.[\r\n]*',value='',regex=True)
df3=df.loc[df['gender']=='female']
df3['misspelled words'] = df3['text'].apply(lambda x: len([x for x in x.split() if dict.check(x) == False]))
ans=df3['misspelled words'].sum()

df4=df.loc[df['gender']=='male']
df4['number'] = df4['text'].apply(lambda x: len([x for x in x.split() if dict.check(x) == False]))
ans1=df4['number'].sum()

print("Typos made by female are: ")
print(ans)
print("Typos made by male are" )
print(ans1)
```

C:\Users\vaishnavi\anaconda3\lib\site-packages\ipykernel\_launcher.py:9: SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)  
if \_\_name\_\_ == '\_\_main\_\_':

Typos made by female are:  
18588

Typos made by male are  
18480

```
C:\Users\vaishnavi\anaconda3\lib\site-packages\ipykernel_launcher.py:14: SettingWithCo
pyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/use
r_guide/indexing.html#returning-a-view-versus-a-copy
```

***So, the typing errors made by males and females are approximately equal, hence, this method is also not helpful in predicting gender of an user.***

## Ensemble Machine Learning Modelling using 3 Classification Algorithms

### 1) Natural Language Processing

### 2) Random Forest

### 3) Logistic Regression

## NLP

In [47]:

```
import nltk
```

In [48]:

```
nltk.download('punkt') # downloaded the needed package
```

```
[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\vaishnavi\AppData\Roaming\nltk_data...
[nltk_data] Package punkt is already up-to-date!
```

Out[48]:

True

In [49]:

```
df.reset_index(inplace = True) # Resetting the index so that _unit_id is no longer my
index.
df.head()
```

Out[49]:

|   | _unit_id  | _golden | _unit_state | _trusted_judgments | _last_judgment_at | gender | gender:confidence | profile_yn | profile_y |
|---|-----------|---------|-------------|--------------------|-------------------|--------|-------------------|------------|-----------|
| 0 | 815719226 | False   | finalized   | 3                  | 10/26/15 23:24    | male   | 1.0000            | yes        |           |
| 1 | 815719227 | False   | finalized   | 3                  | 10/26/15 23:30    | male   | 1.0000            | yes        |           |
| 2 | 815719228 | False   | finalized   | 3                  | 10/26/15 23:33    | male   | 0.6625            | yes        |           |

|   | _unit_id  | _golden | _unit_state | _trusted_judgments | _last_judgment_at | gender | gender:confidence | profile_yn | profile_y |
|---|-----------|---------|-------------|--------------------|-------------------|--------|-------------------|------------|-----------|
| 3 | 815719229 | False   | finalized   | 3                  | 10/26/15 23:10    | male   | 1.0000            | yes        |           |

|   |           |       |           |   |               |        |        |     |  |
|---|-----------|-------|-----------|---|---------------|--------|--------|-----|--|
| 4 | 815719230 | False | finalized | 3 | 10/27/15 1:15 | female | 1.0000 | yes |  |
|---|-----------|-------|-----------|---|---------------|--------|--------|-----|--|

5 rows x 23 columns



In [50]:

```
df = pd.concat([df.gender, df.text, df.description],axis =1) # concatenated gender, text and description columns in order to perform nltk on them.
df.head()
```

Out[50]:

|   | gender | text  | description                                       |
|---|--------|---|---|
| 0 | male   | Robbie E Responds To Critics After Win Against... | sing rhythm.                                      |
| 1 | male   | Üilt felt like friends I living story themÜ...    | I'm author novels filled family drama romance.    |
| 2 | male   | absolutely adore louis starts songs hits hard ... | louis whining squealing                           |
| 3 | male   | Hi @JordanSpieth - Looking url - use @IFTTT?! ... | Mobile guy. 49ers, Shazam, Google, Kleiner Per... |
| 4 | female | Watching Neighbours Sky+ catching Neighbs!! Xx... | Ricky Wilson The Best FRONTMAN/Kaiser Chiefs T... |

In [51]:

```
df.gender = [1 if each == "female" else 0 for each in df.gender]
# changed the catagorical value of gender column female = 1 and male = 0.
```

In [52]:

```
df.head()
```

Out[52]:

|   | gender | text  | description                                       |
|---|--------|---|---|
| 0 | 0      | Robbie E Responds To Critics After Win Against... | sing rhythm.                                      |
| 1 | 0      | Üilt felt like friends I living story themÜ...    | I'm author novels filled family drama romance.    |
| 2 | 0      | absolutely adore louis starts songs hits hard ... | louis whining squealing                           |
| 3 | 0      | Hi @JordanSpieth - Looking url - use @IFTTT?! ... | Mobile guy. 49ers, Shazam, Google, Kleiner Per... |
| 4 | 1      | Watching Neighbours Sky+ catching Neighbs!! Xx... | Ricky Wilson The Best FRONTMAN/Kaiser Chiefs T... |

In [53]:

```
df.shape
```

Out[53]:

(12849, 3)

In [54]:

```
df['all_text'] = df['text'].str.cat(df['description'], sep="")
```

In [55]:

```
df.all_text[4]
```

Out[55]:

```
Out[55]:
```

```
'Watching Neighbours Sky+ catching Neighbs!! Xxx _Ü÷Ä_Ü÷Ä_Ü÷Ä_ÜÔî_Ü\x8fÈ_ÜÔ\x8d_Ü\x8fÈ
XxxRicky Wilson The Best FRONTMAN/Kaiser Chiefs The Best BAND Xxxx Thank Kaiser Chiefs
incredible year gigs memories cherish always :) XXXXXXXX'
```

## Regular Expression

```
In [56]:
```

```
import re

first_alltext=df.all_text[4]
all_text=re.sub("[^a-zA-Z]", " ", first_alltext)
all_text=all_text.lower()
all_text
```

```
Out[56]:
```

```
'watching neighbours sky catching neighbs xxx xxxricky
wilson the best frontman kaiser chiefs the best band xxxx thank kaiser chiefs incredib
le year gigs memories cherish always xxxxxxxx'
```

## Stopwords

```
In [57]:
```

```
import nltk #natural language tool kit
#nltk.download("stopwords")
from nltk.corpus import stopwords

all_text=nltk.word_tokenize(all_text) #shouldn't-> should n't

all_text=[word for word in all_text if not word in set(stopwords.words("english"))]
```

## Lemmatization

```
In [58]:
```

```
import nltk as nlp
lema= nlp.WordNetLemmatizer()
all_text=[lema.lemmatize(word) for word in all_text]
all_text
```

```
Out[58]:
```

```
['watching',
 'neighbour',
 'sky',
 'catching',
 'neighbs',
 'xxx',
 'xxxricky',
 'wilson',
 'best',
 'frontman',
 'kaiser',
 'chief',
 'best',
 'band',
 'xxxx',
 'thank',
 'kaiser',
 'chief',
 'incredible',
 'year',
 'gig',
 'memory',
 'xxxxxx']
```



```
·cherish',  
'always',  
'xxxxxxx']
```

In [59]:

```
all_text=" ".join(all_text)  
all_text
```

Out[59]:

```
'watching neighbour sky catching neighbs xxx xxxricky wilson best frontman kaiser chie  
f best band xxxx thank kaiser chief incredible year gig memory cherish always xxxxxxxx'
```

## Bag of Words

In [60]:

```
text_list=[]  
for all_text in df.all_text:  
    all_text=re.sub("[^a-zA-Z]", " ", all_text)  
    all_text=all_text.lower()  
    all_text=nlTK.word_tokenize(all_text)  
    lema= nlp.WordNetLemmatizer()  
    all_text=[lema.lemmatize(word) for word in all_text]  
    all_text=" ".join(all_text)  
    text_list.append(all_text)  
text_list
```

Out[60]:

```
['robbie e responds to critic after win against eddie edward in the worldtitleseries h  
ttp t co nsybbmvjkzsing rhythm',  
'it felt like friend i living story them http t co arnge yhno retired ian http t co c  
izcanpqfzi m author novel filled family drama romance',  
'absolutely adore louis start song hit hard feel goodlouis whining squealing',  
'hi jordanspieth looking url use ifttt don t typically see advanced user pgatour http  
t co h ou pe lmobile guy er shazam google kleiner perkins yahoo sprint pc airtouch air  
force stanford gsb uva dad husband brother golfer',  
'watching neighbour sky catching neighbs xxx xxxricky wilson the best frontman kaiser  
chief the best band xxxx thank kaiser chief incredible year gig memory cherish always  
xxxxxxx',  
'ive seen people train lamp chair tv etc http t co w zf pvm iknow me',  
'gala bingo club bought m the uk s largest high street bingo operator gala taken by h  
ttp t co hzeeykjud the secret getting ahead getting started',  
'aphmau pic defines mcd fangirls fanboys mcd shipper xdpll fan crazy mcd ramen bae',  
'evielady lovely tree year never seen gorgeous autumn colourrenaissance art historian  
university nottingham fuelled haribo partial coffee soft spot renaissance china nation  
al teaching fellow',  
'just put as line repay me senior xi xii mmxiv',  
'even need sound effect diviner tonightim t p bo burnham disney world',  
'unknown',  
'giannaaa lmao dude i m hella scared next episode bc ending yesterday sjmkm',  
'coolyazzy ditto i m still learning favourite retweet stuff least suck le facebook ha  
ha pover enthusiastic f fan model collector music fan film fanatic also aspergian',  
'caribbros jstsaleem i i understand get server getunknown',  
'craftyear isabelpascual thank retweetsartisan specializing paper mache print making  
fibre art art teacher cat devotee find page fb http t co g bstg icv',  
'all girl went sleep guy sat floor watched u he bled died take away sin',  
'chrisaofficial i m right side xxxunion j xxxx',  
'yall lmfaoo right when the chorus came on a tear rolled down his face http t co ayuq  
dptvseyou start',  
'james bond premier night everymancinema oxted sidiedey let s hope life expectation s  
pectrebsc economics graduate coys',  
'sydniejr except hallmark movie start i get anything done wife coach mom eight troop  
follower christ',  
'you leave group chat min miss made shitmy dm closed sc dear moonshine',  
'a opposed pump like hi hope you like doing jump where you spread your foot across th  
e entire stagerl writer lewd aspiring femboy enjoys oneechans girlcock rts d softcore  
d r nsfw account listed',  
'tell meid both no funny based real magic http t co dymrhou covered winning author no
```

'all magic hath no fury based real magick http t co jwpsvnaueaward winning author pa  
ranormal romance thriller hath no fury technology writer http t co lmmiowenqq asmsg',  
'me week brandon s birthday there s thing birthday week u weirdo me november st birth  
day month bowsself proclaimed princess occasional pain as',  
'and got yard and point jet gave season http t co gdfkaoxcddk smooty i drink alot cou  
ld worse i m scrolling girl s nude watching brady beat team patsnation suprememeninist  
alwaysturnt',  
'did alot up in the past ion wont backfree ma bros ebk otr real all i kno is grind wea  
i come from',  
'this boy el wit daughter penn state alum classof',  
'theriddler cnn i mean like mainstream new medium supposed feed fact nowadays lover w  
oman dog cat dog movie comic tv video game book wrestling existentialism adult ent',  
'how many follower get everyday i got last day growing daily http t co jzckr ub hmili  
tante obrero de los sue o revolucionarios desde toda la vida chavista de coraz n coman  
dante vives x pre',  
'onedirection artist year amas ho famebaby i m perfect niallofficial',  
'kbonimtetezi mheshimiwa traveller along stretch road lubao r hurting nobody seems ra  
ising issue kennedy j abulala ni mwalimu anayeienzi kazi yake mwalimu wa kiswahili',  
'greenville thursday yall holla need anything know i m plug krothedj gmail com instag  
ram djcro',  
'markhicks i went wrong nandos i found eventually chilliesequalityfreenandosslightly gi  
nger blue eye park run',  
'andyrobsontips cardiff drew match goal sound goodjust living life top food chain',  
'those break rule scum abandon friend worse scum n ipgkk',  
'gala bingo club bought m the uk s largest high street bingo operator gala taken by h  
ttp t co xprinke m home office business sweet business i',  
'video james bond spectre world premiere after month build spectre latest http t co u  
v wlg be ukgoodmorning mention anyone retweet must follow back fav follow',  
'best thing audition west side able eat lunch komodowarholian obsessor creating withi  
n orwellian nightmare allsceneeye larecord',  
'discipline bridge goal accomplishment jim rohnunknown',  
'in last minute wednesday fan tweeted u time no obsessed even little bit the blade in  
stagram scottryan',  
'once complete lift attempt connect alpha point rift observing this control jpn versi  
on zoe o jbot rayark implosion',  
'triggered email the killer conversion app http t co obckhxkom just curious guy',  
'camerons side bed smell so badi like sleep',  
'wishbonecon u going one ask question get lie spoopytaylor',  
'hakeem nlt boii make wafflw link reference word count clear lolfor photography booki  
ng enquiry dm call email abphotography gmail com insta a b photography teamchrist',  
'born czech republic live ireland wan na germany ouat oitnb',  
'harry style always remember never forget best greatest world always till end time yo  
u you all angel could be',  
'the politics evidence result international development http t co t n c ttbf look gre  
at h t duncan id rosalindeyben following money opening governance fighting corruption  
globalintegrity opengovhub tweet own',  
'please god let get house fireplace bedroom i great idea room retired bad girl queen'  
,  
'that s hidden umph http t co onebbsag walk faith sight',  
'wigingtonlinda that s nice time year tomorrow say around h ncisla bone castle arrow  
chicago fire chicago pd poi elementary tbbt agent of shield grey s anatomy the last sh  
ip callen mcroll ajax lfc bar a rafa nadal',  
'surgical enhancement different part body and i kidding apollo bot pulling aj dd rand  
omly post every hour spoiler abound under construction progress complete',  
'i swear touch one time piss off it s stupid cause friend fall trick well',  
'she beautiful m i m talking beyond superficial beauty like snow beautiful cold i m l  
egal drug dealer original extraordinary psychic want know better talk',  
'bad day office nice catch thedjbriks wish time catch xwife tidy boy amadeus director  
the ideal place proud mother max mozart',  
'james walter invented bolt action rifle liquor sexual intercourse football order a l  
ie get halfway around world truth chance get pant on',  
'lov rzworldwide say he one the eternal he kid anyone him there nothing like the one  
lover truth seeker knowledge',  
'now i changed i m man i yesterday better watch amp take noteswhy chase trend when yo  
u can make a statement hoodlyfe http t co abfak idjb',  
'amazing see igbo village in the united state of america http t co z a haqpe http t c  
o qdq hne calm collected followbackandsee',  
'r m appleyard alarm wont work can t time stop leeds too much traffic ect a min bus r  
ide take min ya know artist re evaluating life radiation oncology student want make ve  
difference comedian rule breaker forcelectures live drawz http t co nsf zd hfy',  
'akinator genie app guessed i thinking katniss everdeen s daughter what how hi name a

ngela friend call angie i boring life consisting college work i nothing post bio',  
'tekifyuk i trying unbrick kindle fire red screen i followed youtube video using unbrick tool i repair make model phone tablet mp player more i ve professionally repairing electronic equipment since',  
'if say someone like wale meek wiz gotten big past five year moron they big mixtape game sportswriter cigar lover dreamer pro writer sportsblog ustadium ambassador sufferi ng yankee net jet fan fau',  
'move of the week double leg stretch http t co kxkcefuxqb http t co n ptohgapqcharity volunteer',  
'repcomstock you supporting father sequester speaker cut vet pension military medicare shameunknown',  
'reimagining webdesign process invisionapp http t co vmb ozu e http t co hflwr tfolmaker conceptor creative developer xbac a bd conception geek dev agile neutralite open source privacy copyright',  
'deptulahasrage clemson need stack line fsu may even scorecalm and cool',  
'i see there s way i m going resist shattered empire business the noto cover alone http t co nlmic xdma retro modernist suffering unsightly visibility',  
'cringe channel chris chan famedoctorate physic time olympic swimming gold medalist professional liar',  
'the accuracy though lol http t co frfforeelci trust people like big butt they can not lie',  
'im weakkkkk tbh thats way shut girl flexdont take tweet serious do shrug shit happens look link pin reason now',  
'thanks aca adult eligible medicaid illinois amp able apply online younginvincible http t co cfwillqv k community outreach medicaid managed care board member united way chicago m a gerontology advocate underserved community isu alumnus',  
'ibmsocialbiz in future narrowing gap people s ability use tool proficiently jennifer mcclure h chat ventas digitales ibm espa a toda mi opiniones son personales la hay de todos los colores tambi n puedes contactarme en http t co u r x hr',  
'chris got on the black toe s freeza ripnazerah',  
'iampoojabalaji the day wedding anniversary suck suck f p f',  
'when min early advising appointment bitch go min catalyst happiness',  
'unknown',  
'paulmgardner cwellssun i knew guy military used show drug test idiot baltimore think funny',  
'my mom listening hello what s happening worldcomputer engineer khalifa university',  
'if ion work one job i work studying at dillard university dr williams',  
'lrt work allllllllllllllll time leonel dominic',  
'flexible diet plan revealed first time secret method losing weight without give up http t co ygqyyvckyihow quit paying expensive medical visit fake fix eliminate his frustrating nagging constantly repeating low back pain',  
'total loss respect little twat http t co eqstpyjeckborn london grew basildon lived cornwall sea make sense that s fine',  
'need intro pick phone clifford elli the greatest broker in the world lmfaosigned',  
'fortune favor funny guatemala election http t co e qa awek http t co c nvjn vanjournalist producer camanpour cnni always open spicy taco view own rt endorsement duh',  
'megwacha actually uc announcement seems like could related that unknown',  
'would the affair be easier to watch if the kid weren t such brat spoiler the showtime series the affa http t co o jpvaufdzyour brain bodily organ start working moment awake stop get class',  
'nbd this comet is spewing gallon wine in space scientist discovered comet lovejoy spew http t co fa wwoa no ja online gist entertainment news music video event celebrity focus interview life style fashion videodirector mc expy',  
'stats day arrived new unfollower stats via http t co vumdkp a hollow heart',  
'vivienleigh gone with the wind clark gable vivien leigh photo http t co yvo b jrw film actressit hurt let go sometimes seems harder try hold something someone want get away',  
'good seeing tonight caspar lee enjoy film xx',  
'kaito s song chasing idealized version himself real world he s alone starmyu http t co tvlbxrymrkmagnificent fujoshi scum',  
'photo the fellowship ring book one lord ring http t co a v wddd http t co hyosq fr e just girl love god pole vaulting lifting reading horseback riding passion country loving small town girl',  
'i kept telling temptation would let in and did day want world peace day want burn world',  
'photo snow queen vlad barbe kid amp family the snow queen fairy tale han christian http t co cc qqnhvjyevereverything i need news crew s presence',  
'fool three time fuck peace sign load chopper let rainent o est bem sporting clube de portugal',  
'the world esp eqanon island need people like eqcompliments horseshowtutor studioonwhitney delaware amp athletics amazingladie the island s official magical creature emg

they dejavueq amp dnnieticeq amazinglaurelthe island s official magical creature only  
can t ask i m white avi header barnqueenacc r wellbeing ambassador',  
'bentorkington nzinlandrevenue don t bother kiwisaver kickstart fund restoredhelping  
build supercomputer no one s making giant robot anyhow keeping busy send mar all tweet  
cc by http t co mtenmjd xx',  
'no matter result word can t express proud i csunfasa all dedication new amp old memb  
er gave left speechless unknown',  
'hello the nahtrain like picked hunger game',  
'came game white rapper cliché classified spittin truth looking miracle fucking right  
one jess',  
'evinelive yep wait next day year old married broad makeup artist stylist raising bea  
utiful girl strong beautiful woman wife roughneck',  
'thacelebritea seen scene spotted ravensymone earlier week r p theybfdaily http t co  
sjnh a l creolemixed borninneworleans raisedintexas love god family friend education s  
leep text food movie music clothes makeup nature animal color',  
'justinbieber too much swag acoustic version cool kept silent make laughter end vibra  
to lol hi name louanne i great fan justin bieber i love o',  
'listen johnmdonnelly discussing exclusive reporting potentially fatal flaw f ejector  
seat http t co rz bekby p cqnownational security foreign policy editor cqnow pulitzer  
crisis center grantee former qatar expat medill grad retweets endorsement',  
'barcampphilly flipperpa yes would love throw hat couple local folk iqmediacorp happy  
arrange meet writer stoop hen book punk gin writes cash iqmediacorp working nsfwstory  
foul mouth cyclist',  
'coffee taster s flavor wheel scaa coffee http t co golukszolu http t co hjhczkaiqyth  
e ultimate gourmet coffee store espresso whole bean coffee http t co u ppcrfrsq http t  
co snem ypeak',  
'we chance first time decade elect someone owned lobby group big corporation or saudi  
arabiachristian conservative baptist believer constitution founder own book business re  
publican theologian historian',  
'finally realized i ll never get answer i wantunknown',  
'i saw met marinasdiamonds five month ago today i m forever grateful opportunity i gi  
ven http t co vlrcsnqn i marinasdiamonds dailymatd we d already performed v it s alter  
native pop a lie',  
'starbucks mobile ordering come uk mobile marketing http t co yecuganjly emarketingmk  
t unknown',  
'the little thing always get heated',  
'pennsylvania believing first secret success http t co sipl vcxetweeting thing around  
pennsylvania i like enjoy if interested twitter marketing save today info nicolamarket  
ing com',  
'corporate welfare worst dark fund military industrial complex another all post with  
http t co awmdynzfxzhealth nut retired teacher family man programmer developer technic  
ian pc cnc entrepreneur god',  
'rapper tyga appear next season kuwtk will get k per appearance see gt gt http t co b  
rw lkjhgdon't need much cuz action character tell am i kingabdul',  
'earth teach quiet grass still new light sick lip caramel wan na try it bafhouse team  
prettypothead perfect balance badass feminie di hempress empress',  
'starsandglitta i m fake friend good day hampton university',  
'nothing like midwest had great weekend the ruffin s wedding im glad came together ht  
tp t co drk ukekxvowner of jlj holding llc real estate consultant owner of feel real e  
state service llc',  
'take back time clothes took drawersfinna lit vancini',  
'mentally ill woman two pink dyed poodle threatened shoot someone followed throwing a  
solar powered sigh machine mostly footy talk',  
'ell morton face timed like min ago they re airport dallas getting plane hour they re  
okay insta brownlouis',  
'luv photo http t co temknk ao best busty boob click image bustyfriends bignaturals b  
http t co rsbkiea ui m czech adult model pornographic actress inch natural breast curr  
ently livin london you follow retweet every day luv u',  
'the woe http t co cxwhx dtgwtammy r sc kredo x',  
'isi launch bizarre new weapon in war against the infidel floating condom bomb video  
bb sp http t co c na cc dki m evil conservative obama warned about pro palin conservat  
ive pro life',  
'too excited spend halloween night pit sigmonmakenzie amp chrisyoungmusic i love jesu  
s miranda lambert jle leopard print little jack coke',  
'at steidl amp steinberg understand owing money irs state scary we help http t co ric  
ohcd awe ve helped people debt tax estate problem since we re friendly seem tv with ex  
perience go anywhere else',  
'amazing follower last week tomorrow growing http t co mijn phylyse un uomo non dispo  
sto correre qualche rischio per le sue idee le sue idee non valgono nulla non vale null  
a lui cit',  
'drug greed kidnapping plague dani liz bluewater ganja th bluewater thriller ian sail

ing http t co brkidlapfull time cruising sailor writer abiding interest book boat sea classic guitar',

'isi launch bizarre new weapon in war against the infidel floating condom bomb video bb sp http t co ffjxmiket unknown',

'nataliaa caspar lee my phone and ipad are going out the window in a minute omg i can t breathe joe faved caspar said that and i met joe i want british justin bieber i want first conor maynard conor maynard met joe caspar called me babe',

'sky making weird as noise bambam a jyp nation september th park jaehyung called bros ki',

'mt nytimesarts the longest running play america set open nyc st time http t co oiqvi m http t co wify anmcreator on location education nation s premier educational consulting service young performer passion education film theater crime drama',

'voteonedirection onedirection amas artist of the year http t co pndv mycvy onedirection directionerforever criminalminds harmonizer abrahamers afonica soy liam girl ig se lly',

'alysha half mom half world greatest friend groupsoco i randolph college l it s hard leave leave easiest goddamn thing world',

'the creep cocom z http t co ztkjxon v en construcci n literatura lisensiada en estudios ingleses zurda mel mana peligro constante i solemnly swear i m good',

'and i m apparently contract despite whole spiel contract i got phone verizongeeek gamer writer beard advocate don twittermafia',

'the one you fall in love with you should feel like nothin else matter frterrani s da d she come before everybody rastaman',

'the fate europe s net neutrality decided tomorrow http t co zgga d qx http t co qk z dnpqqlover outdoor thing subtly charming geek massage therapist mindful',

'got job unknown',

'selling recruiting process isn t gamble http t co qbsl ix dy hr thecandes tchat hrte chconftalent board thecandes vp talentculture tchat show co founder co host ta hcs certified hr recruiting writer wannabe drummer grateful father',

'i bought ticket post war glamour girl the cookie leicester http t co bp thghf http t co efu v cn via ents sure fine whatever',

'crowmatriarchy suzuyin breadfuck the likeness face purely disgusting i mean honestly look mirror moreo soo seon smol',

'the role hippocampus long term memory http t co srcxtbyrmcauthor novel a trip aret',

'stats day arrived new unfollower stats via http t co dzu hx yb do you like i do me be about your buisness',

'october apostrophe http t co mhng f w publishing authorswriter gay romance gay erotica lgbt literary fiction choose carefully on amz http t co hr i ddu',

'p option bestmu pt',

'artistoftheyear onedirection amas from four album heard mm fav could changed rly fast i hear fift love like car accident hit fall survive survive we love cuz weakness same',

'fantastic launch snapdeal all apps run smoothly oneplus one thanks quad core process or http t co yma r pcu when going get tough get going',

'new unfollowers new follower hello hello last week via http t co wl crq dvformerly l eading edelman indonesia public affair across se asia joining http t co gscdas an september st senior vice president brazil lead',

'except couple broken play jet really good job countering new england well o exploiting d weaknessesfeatured nfl columnist gameday writer bleacher report former army engineer lover thing sarcasm satire pfw member',

'look ken barlow putting audrey robert old rascal unknown',

'amandadybwad fact i need want anyone no matter what ups down happy sad moment i ll always gaga saw followed noticed many time',

'be in the lookout http t co dfzqv kjbh swazijive united wife kid in order mufc master degree in banterology not arrogant just better red devil ig iam makhubu',

'lindsaylkin know squirrel emoji oh wait part iphone family just lay back enjoy life austin cole',

'tombertram no way you re going opening act you i m love singing dancing food painting tom bertram lol i m awesome like that i viner go follow me varsha nair',

'nba im hyped bc im excited new season play offs and who s team win who ll star thisi swhyweplay sweepstakesprimo deus god first music',

'photo the chronicle emerland solitaire game adventure mac app http t co xcjnfyapvw http t co jrlgh fnsnaturally artificially flavoured',

'hey guy i ve decided i ll maybe minute day follow fut io android bargain giveaway use pic legitjaz win giveaway bargain dm want sponsor giveaway',

'axeslasher metalshayne i super hooked woodland tortuary talk vegan married batman the simpson metal harsh noise xtapolapometal',

'coming worst attitude i m trying help carla malto iixii',

'hot press http t co fzk fjswejclassics professor haverford canophile yankee fan occasional gardener onetime sailor',

'stloto update use site again hi name kevin i dota player germany follow know i start

stereo update use site again in name kevin i uota player germany follow know i scare  
streaming',  
'thanks winkmartindale shout out i m looking pretty good famousname http t co umrfosw  
y upartner pr firm expertise interest crisis communication management public policy ec  
onomic development medium tech aviation healthcare',  
'also steven s interview emily million beth died amp actor afterwardshey norman andy  
s dick feel click link find answer',  
'bethneilson happy birthday beth hope best day instagram oliviamockford',  
'this still sweetest thing ever me and two made night http t co nm uverj time ghost',  
'savagejaspy i like purple seem green person sagi babe',  
'fairly normal someone could ve died night thobrooke writer artist video game fanboy  
they them snapchat thequeenbrookie',  
'people saying nice thing game particular make feel like maybe i m right thing http t  
co zrbyu fy made bird enix weird developing fallow she her',  
'kid s party one getting fun balloon never take any http t co mtdf cmgrcomplain get d  
runk',  
'now already one appreciate well muhammad fitri adam',  
'via jewish voice peace analysis racist blame the victim argument dehumanize palestin  
ian and http t co ftku rmqn singer arranger music producer',  
'congrats enjoy gc new phone thedomesticexec dmthoma treatyourfamilyaba instructor gr  
ad student couponer deal hunter freebie snatcher blogger iphoneography lover social me  
dium butterfly',  
'if game tonight hit total point more scratch offs coming waydoesn t matter slow go l  
ong stop westfield insurance pinnacle sport gobrowns gobucks believeland',  
'gala bingo club bought m the uk s largest high street bingo operator gala taken by h  
ttp t co t uojvqqjtbusinessman entrepreneur internet marketer earn up to single day wi  
th this remarkable new idea free video all http t co dl kzcvxue',  
'josefranco daily caller always win contest quickly take joking tweet entirely seriou  
slywapo national reporter seek truth give voice voiceless shine light darkness conside  
ration minor importance',  
'onedirection artist year amas http t co dsjn gzs niall horan como respuesta todo lar  
ry como ox geno liam mi baby zquad zayn girl',  
'rightwerk musicnews fact one hated dude wearing suited taylor',  
'remember esteban calling dead got put hold http t co xj tjd d zi go survival mode tic  
kled',  
'cinebroughton hour spectre red bull ready newly married kid everton rule',  
'do american find weird eat fry mayo co timeget normani video',  
'thanks dj polish sausage follow commercial director zignia live member board water h  
appiness',  
'a sample fall color encountered day hike mount leconte this picture wa http t co qlz  
fookm unknown',  
'when u find ur advisor put u wrong class semester ur year behind fuck dummy',  
'i m loving harrypotter sky channel abbey gilbert raemorrismusic work progress',  
'tell senatedems stand monsanto protect gmo labeling sign petition http t co sl i iqh  
p righttoknow darkacti',  
'fitstar i sent dm describing issue email address associated account nerd wrangler ri  
ot game',  
'last week teacher said going hbcu give accurate perception world like i m stilli lik  
e call writer melanin curl pro woman pro black reader blogger',  
'ican turn side side damn bed w o havin sit way up mommy ka leighceriyah',  
'win fight kns pushawardskathnielswe came different family biologicaly but heart beat  
one kathniel',  
'news amazon celebrates new vinyl store unveiling day vinyl http t co olkfmammtc edm  
followback http t co z cq di spunknow',  
'mdeedoubleyou fact i miss much make want cry i m dropping i move cali good vibe only  
,  
'bekkimarshall haaa put lipstick perfect pout open eye something beautiful happening  
al',  
'rose play without minute restriction season opener the chicago bull open new era coa  
ch f http t co ec ndjw wpolinema tek informatika basket polinema i like basket how abo  
ut you http t co lgxn bgetc',  
'holiday candy course learn art gourmet candy making make gourmet chocolate kitchen h  
ttp t co j bkkeiqbahow quit paying expensive medical visit fake fix eliminate his frus  
trating nagging constantly repeating low back pain',  
'starting like new conner family little coronationstreetlove read favourite book seri  
es fifty shade of grey fan stephen moyer jamie dornan love watching true blood big roo  
kie blue mcswarek fan',  
'colt here be sure nicole amp colt edward group start fun game release reckless brand  
development manager husband new york time bestselling independent author nicoleeauthor  
,  
'new unfollower last day via http t co k sasmdlebbueno hola me llamo kevin tengo a o

viivo en no se donde me gusta cantar l d u de soii tiimido add facebook amo a mi nov i',

'that s way drop em bigtits boob tit http t co ww mjevxxd http t co h p exmwqx only bi g tit picture site',

'when i m working out amp i m exhausted i feel like breaking sec listening hall of fa me always give kick i need go on swiftie forever always i m i the script cat music tra veling tennis basketball ice skating i play guitar piano ukulele bit',

'men shirt breakingbad walt i am the danger white tshirt size medium new http t co d zl iodk bestseller auctionif relationship can t survive long term earth would worth ti me energy short term deal bargain forsale onsale discount',

'literally looking old song rest daywasted',

'prestigediesels yeah i nail mat floor LeahRebeccaCrazy toy attic i crazy truly gon e fishing they must taken marble away',

'the ada you how regulation affect office askhcsi http t co i clomkemdfamily le more influence healthcare compliance triathlete askhcsi',

'katheintellect easy af left pencil huh lol',

'would the affair be easier to watch if the kid weren t such brat spoiler the showtim e series the affa http t co pzu g adunknown',

'preparing worst still praying best longwood basketball r i p dad portia tony',

'maxschrems check work consent receipt safe harbour via consent analysis http t co r shghcsxei socio legal technologist inventor consert receipt focused personal data contr ol',

'im never goin find right girlfree omb only fear allah real demon loose screw',

'dude jamaican http t co e mdvu pqnsemper paratus',

'scotthoying we could be king of the world waiting gandalf come house invite adventur e i expect return',

'd bbach yes no they bad last night bradford also nd worst off target nfl go way gree k god stats espn s mikeandmike christ follower moneyball disciple punk rock enthusiast lebanese food connoisseur',

'massimolandi newyork newyorkcity nyc the wall street bull economia economics http t co rqkg q ab blogger intermediario assicurativo esperto di pallacanestro livornese tif oso del milan e della libertas livorno webdesigner e webmaster blogger politico',

'hi harry style thank nice fave art even best artist draw follow me please hey angel'

'quad half kill start round block party play pc slip my http t co fecwouecfusteam lit tle arab insta little arab kik ahmadabed',

'back bitch think okay n word dinahfatty what s good care people think',

'trey wingo jim halpert look camera herm edward talkingarms leg',

'let forget running back too if even stop pas game they pretty skilled lineman fullba ck bruhunknown',

'i want new old i want f i want rehaul i want vanneka wantsunknown',

'wondering grow twitter i gained follower past week this app http t co eucgj sjxkplea se block',

'photo elite squad the enemy within jos padilha action amp adventure elite squad a ht tp t co hajijeg ojjust small town girl convinced born wrong side mason dixon started',

'i finished htgawm much revealed last minute i think dyingspooky bisexual teenager in tersectional feminist wa feminist kid',

'who going first one say goodbyeawael abdelkarim',

'side nikka year unknown',

'review notorious rbg the life time ruth bader ginsburg http t co be ex rattorney spe aker legal analyst http t co gpbrj wa n http t co t cihefn',

'im huge fan patriot ignorantsecond floor tootsies gettin shoulder rub',

'leonardo davinci just iron rust disuse even inaction spoil intellect communicator co ffee enthusiast infuriatingly humble music nerd subtly charming internet guru alcohol fanatic',

'photo the future internet stanford continuing study program computer science the htt p t co ob plwd dujust girl wanting big thing life',

'photo persian circle the university chicago middle eastern study persian circle the http t co tsbvgrt epquestions',

'view from the west stand pretty much going write play staines perfect draw me lofcle yton orient blogger author i promised tattoo face stupid club thanks i get lofc',

'hoarding voiture possessed benefit together commbus ljfxugxrpunknown',

'wles soa maravilhosp d p se verdads onedirection artist of the year amas nois noa pr ecisa de nenhum papel da prefeitura',

'new tweep followed last day i find relevant people follow copyfollowers feature http t co wtkuzzjhz veninataviveci',

'dwts interesting thanks read http t co uw vnuzw life waiting storm pas it s learning sing dance rain',

'all computer hacking technique described real social engineer currently free http t co rctwv bpy kindle mysterymy thriller entertain scaring changing password author soci al engineer invasion of privacy http t co l nvxnord'.

an engineer invasion of privacy keep it cool pwnlord ,  
'put away plain style order greenpoison afnxwkgunknown',  
'thanks vincent r photog follow commercial director zignia live member board water ha  
ppiness',  
'photo raabs an der thaya holiday waldviertel raabs an der thaya raabs der http t co  
b p zbmh punknown',  
'likeimtayha ight got dm credit thing hold real quick driving real quick got log bmip  
ublished producer songwriter making wavy music from odd plug withthat for beat inquires  
email pianoboytod gmail com',  
'dharma bum better on the road making bold statement today so brave me http t co riy  
hpzvddkind tall hair wear t shirt sometimes building mystery',  
'following wwehiac ahead raw tonight here s i d book wwebraywyatt monster wrestlemani  
a http t co hzaqcqsvm metal hammer deputy editor whatculture wwe goon neeerrrrrrrrddddd'  
,  
'for best vpn exponent order crew want ocqgihunknown',  
'photo the back pumpkin lily did halloween pumpkin pumpkin carving http t co rpq akbw  
bhaunty nut i blog i love tea i love candle space doodle http t co awlemdc ut',  
'mlg time bus http t co t re avycmi m frog k',  
'listen harry square the pig hunter burakandemre rmx renaissancepodcast http t co b d  
fvpbiv dj edm madeinitalyproducer kennvad uk http t co h dtj kl sevenstudio italy book  
ing info douglas entertainment co uk',  
'i added video youtube playlist http t co jtvsl jk jem reacts new jem and the hologr  
am traileractor writer filmmaker father husband gamer fanboy i got take rock mics righ  
t yeah',  
'seems though someone something work http t co bccwhs xbdthat s i meant along really'  
,  
'in history http t co y brtwmf cbitcoin enthusiast',  
'get outdo c preliminary turn need stpiknunknown',  
'the house science committee worse benghazi committee http t co khdezwhpvgformerly kn  
own the subway serenade known the astral technician i m currently developing global bi  
ofeedback laser tag',  
'the best thing world knowing i m mine unknown',  
'samd listen christmas carol whole waypaper chasin paper runnin paper gunnin paper ge  
ttin paper havin paper catchin dont forget paper grab',  
'harley b x the little smiley facelike boybands reading book bit obsessed emmerdale r  
obron instagram rachelh',  
'oomf cute without e i swear boy trust one ripspann s up talk rihanna kingjames might  
get yo head bus dreambig amosc phineasandferg',  
'sheeb moni peep me in the backget i want cause i ask it i m really deserving',  
'hunterfsu i say cap bcus simple made complicated actually performing big part winnin  
g all of the above co host xl primetime xl',  
'where i good one taken cool kind confused',  
'mcg cmk movement fr stop fake claiming yall ain t gang freejalen llh',  
'wish wa valkyrie law um sure feeling mutual lol http t co n ohz bxl i m allergic che  
atin i hate failure and i love achievement',  
'you ll pull back man say line woman dissing care damn man socially awkward extrovert  
ig sianchristinak',  
'happy happy happy belated birthday one dirtydonniedamn it kristian bruun thebruun htt  
p t co idwuehee hail moon tell father friend cant lock door cause shes already in ig h  
elenkdavishkd life saver manager strainaddicts',  
'our table mate beautiful room barnstaplehotel ndjournal fooddrinkandtourismawards ht  
tp t co yrqx zf wlover life thing artistic creative beautiful especially people mama h  
ollymorwenna finntalisker',  
'allthingsnice i actually going make calendar cat pic i time greece i many travelpics  
traveler writer b b host beer drinker kitty petter independent travel off the beaten t  
rack volunteering http t co ggnujjc al',  
'week day since i one best day dickiewelch it absolutely can not month next time livi  
ng depression trying end stigma re poor mentalhealth whitney fan nice watch amateur ph  
otographer gay graduate aspiring journalist',  
'triggered email the killer conversion app marketer using spray pray tactic decade th  
http t co nyxhrmml pi started web researcher got passion seo working seo analyst sem pp  
c inbound marketing smo lead generation i tweet seo general thing',  
'moratwe lol hit low note writer lyricist coffee enthusiast world class barista semi  
pro mixologist mbonisigusto gmail com',  
'an online writing school top instructor great class affordable price',  
'the badass car date http t co ki dd va walex ac clifford clarkston varsity bowling sr  
t also pool shark ib class wichita maybe',  
'ppq onedirection artist of the year amas http t co akjznrhcmcfools fall azul no verd  
e ddl d zayn troye',  
'the revelation mp pugilist yet whichever order attend since continuity buy conjoint  
mbcqovounknown',



'mosdef famousass cj go one clinton xo',  
'photo the news lake wobegon prairie home companion august garrison keillor http t co zfmfx sx apple freak girl love game',  
'kjinwoos tru tbh left pretty much reason ppl either like unknown',  
'remember time wanted u race mexico police pulled up you decided burn face they d chase you life s short drive boring car slowg http t co kt l t amr',  
'i liked youtube video http t co up wgjyapp artist reveal satanic industryfight good fight faith lay hold eternal life whereunto thou art also called timothy jesus christ way bachelor degree bible study',  
'gala bingo club bought m the uk s largest high street bingo operator gala taken by h ttp t co ufcwkdyeninternet marketing adsense im money youtube tip making money online adsense youtube http t co gbictcktae',  
'andddd i ve lost count many time i ve already watched almostadultsmov trailer someone help meeeeeeeeeeechoose happy problem world emison hollstein xena gabrielle',  
'the most likely next president is hillary clinton http t co nozhchfmzyhi',  
'photo the case christ lee strobels christianity the case christ lee strobels genre http t co n uegh enmfood fanatic incurable troublemaker',  
'the rest worker hating cause i chill listen music lol skateboarding money bml',  
'mjsdirtydiana person s fear outcome stop action word unknown',  
'mattuktweets let s honest went average working class college they d tell piss off unknown',  
'web marketing expert specializing book promotion',  
'elliexcastle fuck that stick weeknd repeat don t quit suffer live rest life champion muhammed ali box chadd abc loyalty everything derby season ticket holder',  
'photo the graveyard book unabridged neil gaiman kid amp young adult neil richard gaiman http t co xmbpwuv uxdon t think second i actually care say',  
'vinod khosla step off square s board in advance of it ipo vinod khosla stepped director the http t co fuosn q skun fan de football fan du club africain fan du wwe fan du counter strike',  
'godjoeey limit carbs damnosceola county rep recording artist pen pimper peace seeker positive vibe pusher ig homelessmillionaire for all business email allennewyorkmusic gmail com',  
'this would day permanent valencia filter face would come handy yiza nosleepfollow in stagram amandacleghorn taylor swift dancer sytycdc top female',  
'blog me http t co wk hxd hst even fat cat hate twin city commute morninggrind http t co ebq sghkbhost the morning grind morning am minneapolis podcast me soundcloud http t co xew bekf also am app i lean leftwards',  
'a flash light the photograph e j kelty will kelty classic see kelty company http t co u nw k idon t make permanent decision temporary emotion',  
'just agree custody real dad leave kid alone now he clean long enough drphil custodys ramamom currently divorcing comic crohn s advocate dr phil social medium contributor member inner circle',  
'cant wait wednesday gamelike fun activity utsa spursnation',  
'i retired sea captain i born england eventually emigrated united state i continue write enjoyment comfort',  
'photo hover disc the essential multiplayer game game family ipad app http t co pitap stzbjstudent university cambridge',  
'this day i came work without getting mad god first jiggaworld november st clothing line coming soon',  
'why colour dying advert always young woman saying see grey hair who hell grey hair age anyways older think rajna hussain',  
'number crunching past day new follower no unfollowers stats via http t co ka hbpnqx instagram josealejandro skype j',  
'if ask try answer always no unknown',  
'my header i swear truth she clothed strength dignity laugh without fear future probe rbs bh senior k free my brother codey',  
'what i would given underground club scene si enjoy weather',  
'number crunching past day new follower no unfollowers stats via http t co elopdbfe b vendedor de sue o tambien vendo libros',  
'girl month http t co pf nqgvq zinstagram briannaamurray',  
'zbierband yo zbb played last seasonal gig st jude good time all remember drink better sound it professional rock roll accordionist bomber forever',  
'tv scooty quintessential featured two wheeler jptsxunknown',  
'i wish real world would stop hassling me unknown',  
'thesmithminute i googled it the gum look like big white sheet paper it s ryan former cohost get board pod unknown i recycle garbage tv lost vhs viewing pleasure',  
'wheres th man knickfan life teambelize gemini stapleton eastny ballwaslife',  
'i hope pierre neuville win wsop me love way stand like he s waiting guy busted high five him support west ham live nz eat macarons support west ham if d would silent proud husband father gorgeous girl may',  
'whv grimv amp count apple stream dear vea i va man buying mad snack wuts good'.

'fall across street http t co calsfk rnlfollower jesus christ lover life people enf  
starbucks partner',  
'total fail the funniest people walmart http t co vez al v http t co kqdi u weieat he  
althy food stay healthy',  
'should disseminated express consent party involved obtained pr professional writer th  
inker fitness enthusiast football lover angostura rum fc barcelona',  
'animated gif number http t co iebklzsqz best busty boob click image bustyfriends har  
dcore http t co wfr ak ar i m czech adult model pornographic actress inch natural brea  
st currently livin london you follow retweet every day luv u',  
'recreate turnout near pitching performance relation dj stuttgart aymzsj http t co li  
evo pyxunknown',  
'acroasdell really like answer oncers amazing i m another trying hard fit right',  
'the taming queen unabridged philippa gregory romance philippa gregory kenya http t c  
o dmy uvct ii d love connect online amherst wi milwaukee wi dayton oh rudolph wi neena  
h wi',  
'let boy live http t co ghnmahzrpke t snapchat juhniior',  
'yeah work move glenoak junior just young girl trying make like everybody else',  
'chilling cubecraftgames selfie area been sweating eggwars day bestgamemodever http t  
co a jbozenr male west midland england spain quality gold chill computer xbox time you  
tube munkychunky joeysalads ftw',  
'what winter version yamakaunknown',  
'thomo grant situation many time big club play twice blood make related loyalty make  
family',  
'thanks retweets week sovereignplc adfresco print much appreciated director paid sear  
ch',  
'jk im angry time hint never hang guyslel',  
'katsuraptor really liked first ovas third hour long rape scene hell like uhhhh think  
imalmost never tweet good right',  
'huh supergirl air today aaand i got disturbing image jeb sitting snuggy front tv box  
kleenex ready d intelligent funny narcissistic lazy as introvert do math jaguar',  
'when get english classwork done first day released don t let anyone tell can t it lo  
ve love anymore nothing s impossible chowan',  
'me i take selfies v me i look mirror http t co uqyhcu muunknown',  
'katlouvain eternally grateful woo woos missing grubby puffle you miss shot take wayn  
e gretzsky michael scott',  
'lauren holiday retiring going hit play next game starting line bianca s heart mind s  
oul',  
'no one win misery olympics lvanderkam tip highly successful woman percentconfcheerle  
ader cat herder den mother',  
'when homies let group chat http t co sszplkoun i m blessed',  
'rodimusprime site maintenance unknown',  
'attcares way get phone shipped faster deepfin co owner writer humor sport find here  
magic noles jaguar redsox unf dadlife vaping kappaalphaorder brother',  
'sometimes get away family sit loo four hour straight jordandivero iaurensmith like o  
ne twitter who funny course',  
'this company want sponsor i ve putting hold promo work not i like i m busy rndj crea  
tive director visual artist social medium coordinator influencer stylist youtuber book  
roxyayala gmail com instagram officialroxyayala',  
'but easy exam cost much the praxis cheaper and top i pay extra get certified lol sha  
kespearean ucc alumnus dominican esl teacher musician newark new jersey born raised ke  
an spursnation',  
'askhobo i told telling truththe flock fly again all hail dolan alla quackbar',  
'how inflict cbse school modern kolkata noida kochi staff relocating parent eyb http  
t co k s winuhunknown',  
'tsmtheoddone shoutout crti m tweet lego legend ssbm',  
'bigevvy agreed it s also last thing cowboy need right considering season gone thus f  
ar tlu pre nursing cowboysnation till day i die',  
'love leaving shopping top van driving off seeing loaf bread grape rolling windscreen  
great laugh i know i m mad iv always mad',  
'justmalcom m i need herb african proudly nigerian fashi n m del agricultural scienti  
st change seeker feminist basically a rockstar',  
'i live night i can t remember people i forget sherman oak los angeles http t co xrsy  
nhf nlotion producer songwriter lover fighter hated by some but a friend to many jlo t  
i chris brown teyana taylor jojo lot come god willing',  
'a magnificent test flight scaled worldviewvoyage capsule the entire test flight went  
perfectly amp landing http t co dlzi npygpresident personal spaceflight advisor llc au  
thor design engineer',  
'there ever enough time day homework give',  
'lizziecaakes yeah ill send flier today costume partyswisha splitta',  
'the ambassador can t miss lol http t co vytoiv cunknown',

'onedirection favorite duo group pop rock amasunknown',  
'drivendiabetic said age technically he s right i m spring chicken still bounced back sectionunknown',  
'miraclecharlie take bag candy stick freezer it take much longer eat them writer beautiful but unlikely http t co v s yxqcha the mojo collector http t co dnchec xj z is good thing bad thing',  
'business bos day year difference make get hr yours god st family boxing muay thai good word action speak louder snapchat vashington',  
'alhenasmile markgatiiss spectre premiere royal albert hall londonpage dedicated mart in freeman fan freemartinis join u latest news pic',  
'me the goodman going fuck flower homecoming up ganking guwop watahpark otf moodyworld',  
'don t something someone ain t gonnaddct',  
'hi angel niallofficial love track madeintheam far they re amazing i m proud mind following lifesaver louis tomlinson niallofficial love ya man',  
'dirtysocks ask jet blew minute calling timeoutsunknown',  
'the four most important symptom concentrationproblems http t co w lp ke ii http t co tppgtvdoolife writing coach proud parent socialist',  
'using fresh herb cooking fantastic tea healing ailment grow herb garden enjoy reward http t co np gapudcherb gardening proven method grow herb inside outdoors great food tea medicinal herb',  
'me people line me keep calm rakattack on yeg http t co mx tgii m opinionated if like it block me i cry spilled whine',  
'the cooky look amazing wan na save world know how',  
'why seventeen year old boy look like this real question http t co kytkxox disc charli i paige',  
'unknown',  
'some guy look like milton office space walked office i control laughter unknown',  
'realdiscodonnies got one something wonderful getting cancelled well so gon na get original refund be happy',  
'httph started bottom known year old account annabellxox locked ffs',  
'bestcoast size one wearing i m trying figure right size me i feminist latina immigrant activist somewhat socialist a marxist i believe fighting others human civil right united',  
'i love man god blessed call daddy he s best father husband momrip to my lovely angel lulu yamil montrico',  
'spectrepremiere dublin can t believe check download nothing file savoycinema jokeal ways chef trade chef nature now working la rose noire brand manager la rousse food',  
'go sixer game birthday debateunknown',  
'victoriafalls g i can t promise all gossip shameless pervert all nicholaslister twee t plus bunch extra nsfw perverted loonery',  
'eminem brought mom s spaghetti back for this strange basketball commercial eminem he lp detroit piston http t co crcb rcuxquiero un amor bonito de esos que te dan mariposa en el estomago',  
'you hearing lie everyday got ta turn tv major league producer produced by hunnidroundz all inquiry hit up hunnidmngt gmail com instagram hunnidroundz',  
'expert split likely long range strike bomber winner the u air force poised deliver decision of http t co tnzsdbcz law graduate aviation personality pilot view post everything aviation industry analysis news photo lot more follow also gat aero',  
'onedirection favorite duo group pop rock amasunknown',  
'onedirection favorite duo group pop rock amas littlenialler',  
'ashkeeline amp i absolutely perfect girlfriend i possibly dreamunknown',  
'amp hotter sun fuck it trapgangent got ta know i m get know nigga',  
'onedirection favorite duo group pop rock amashttps t co j ihq akps littlenialler',  
'lpnorthover aurum bos libdems point remember fondness liberal impact tory measureswo man despair ignorance bigotry like talking apparently quite good it transteachersmatter',  
'that s really explanation i need moon s love child ig majinpeach',  
'the worst thing liking someone read horoscopeunknown',  
'onedirection favorite duo group pop rock amas littlenialler',  
'eggelletion with due respect sir puerto rico part u albeit willingly but pr people u citizen fahima born village harlem nyc producer at large pacifica radio work consultant adjunct university professor',  
'dumbcreationist there s nothing new paper would pasted every tv screen worldwide it s unsubstantiated rot christian true sense term retired entertainer devout hard center democrat avid political junkie',  
'linzsportsit exception janesports cbrennansports sport reporter i follow quiet disap pointing traveling boot dancing shoe',  
'star the rosie project graeme simsion http t co pd if ytcbblogger reader feminist uk probably listening halsey obsessing twenty one pilot tumblr',  
'meacher s motion delay voted content it former cabin crew llb hons sportslaw phd stu

dent married boy luca mico writing st book wheelchair user',  
'we gone show world definition real i came nothing americus ga carthage tx panola fil  
ly philippian',  
'check largest pink diamond ever auctioned price tag start m http t co dr vcvezv lago  
s',  
'onedirection favorite duo group pop rock amastill end line',  
'onedirection favorite duo group pop rock amas littlenialler http t co j ihq akps',  
'the nude he ll getting colour scheme artsunsets adventure',  
'why many plant animal specie book the mystery origin universe http t co jc vgn qsw t  
heoretische forschung der naturwissenschaften buchautor schwerpunkt astronomie physik  
medizin komponist vorwiegend romantische musik',  
'the odds born exact time place specific parent dna structure etc trillion you re luc  
ky she clothed strength dignity laugh without fear future proverb ughs class uw madiso  
n freshman',  
'cuestionmarque don t forget billion subsidy given wealthy farmer at time slashing be  
nefit starving child proud wife american hero combat wounded vet usmc major james fred  
erick wilson supporter human right injustice step mom animal lover hiippy adjacent',  
'pedro saying he s finding hard chelsea football different barca s everyone know chel  
sea bus parking footballpessimistic diehard united fan rant lot mufc united',  
'seems like closer i get flying home get away mannnnnrip bean good bad die carry on',  
'first basketball season high school that s navarrehooper dont descriminate girl welc  
ome',  
'hunned coatunknown',  
'strifechaospain the way nugget if nugget i eat you james bond doesn t put kinda shit  
i love strifechaospain life hisprincess',  
'b life writing down ct',  
'steve uk i think even shocking talktalk feel need encrypt data regardless whether th  
ey re obligedweb designer front end developer digital medium enthusiast fitness fan lo  
ve football travelling mac a good cup tea coffee always help',  
'always let people got bus stop get first wwu seusayahh',  
'flxwashington im bout yu stuartist co founder of tripmusicgroup creative director inc  
uiry contact mike p or funkyd gmail com ig blacasso x tripmusicgroup',  
'the counselor god good dream job http t co micko rvgvi believe keep god first thing  
possible',  
'wan na wear real hair fact naturally curly kill me unknown',  
'harry style beautiful voice never fails amaze me i m excited new album mind followin  
g please i love you baby could enough',  
'top independent watch of the year http t co a zhpr yaa http t co nwon cioesocial med  
ium junkie love travel photography actor lake lover startup adviser',  
'evey gallardo youre pushing away one actually gave shit you i ll stop though even go  
t ta trip hey i ll aroundunknown',  
'ride pipe like bike make sure going distance llsd',  
'eme rnb singer come yet another catchy tune time around remix previously http t co j  
cjje p uxnext rated music promoter for massive music video artist promotion web design  
contact info loyaltyloaded com',  
'urgent matter dat need sincere attention kano struggle finally coming tru hv meet mo  
ro either b aftunknown',  
'can t fight the moonlight with lyric http t co rix s kyunknown',  
'i recorded singing clock it bad think it ll go i capture ic titlepotty mouth blondie  
gamer wrestling fan of soldier little monster a bit nerdy',  
'wevansmusic trevorhallmusic loved trevorhallmusic columbia mo soulful evening the bl  
ue note indeed happy trail asst professor chief marketing communication officer consul  
tant artist',  
'so hard convince someone watch hollyoaks acting bad tonight birmingham',  
'longevity secret around globe http t co ikkypzn hkceo founder bragg live food life e  
xtension nutritionist author health crusader speaker nutrition adviser world leader ho  
llywood star',  
'prayer go oklahoma state university cause last week ppl died injured shooting osu ho  
mecoming parade this backup page so y all follow page plus instagram reddick reezy sna  
pchat me d reezy http t co wzeghuecbm',  
'tim muma ramieistweeting people choosing eliminate season largest sample size also j  
ordan comment sarcasmlive milwaukee wi love sport small family ask anything i likely g  
ive interesting response',  
'the manobos mindanao john m garvan http t co umeiapox h http t co hcsohcyo zunknown'  
,  
'the house lord voted delay cut taxcreditspassionate equality feminism fairness labou  
r member pro corbyn',  
'nokesy no head phone nokes think dj without headphone bringing next track high hat e  
verywheremusic production dj http t co by ii ah',  
'andray blatche playin ball china amp still got blocked i gave right domain andraybla

tchesucks dot com yr agolaidd back cat allergic dumb azz people goin joker anger manage  
ment go ahead test me i ll hit mansitchoazzdown',  
'wen try sign say unable sign but told needed play station plus askeasupportmusic inq  
uires verse collabs booking contact johnson isaiah gmail com late night turnt early mo  
rning coming soon http t co jnq epqjed',  
'no matter cost i preach gospel void african belief man made doctrine i refuse put ht  
tp t co z hlkbtwitnessing jesus preaching teaching saving healing',  
'realjerryjones greg hardy disrespectful thuggish it matter good is damaging rep team  
repunknown',  
'someone give plan daaaaaayandrea giantsnation',  
'katmele ya get fuck mentionsunknown',  
'advertisement flyer unit first song e p art tom bonauro available reissue fdh http t  
co nsruppgyctout now july unit digital stimulation and forget history the unit the ear  
ly year community library record label',  
'repost kd brand the queen gq giftedqueen kdbbrand wolfpackjacket shop http t co dnonl  
xxlqa dab http t co az g ippaabookings feature contact wesley crutcher fiveout phlatli  
neco crewgq chiraq remix video out now',  
'wait last episode futurama oherin nc im joke http t co tfn qzip',  
'i m super sensitive internet call silly via msn die etc london put suicide note',  
'paul ryan fight gop s soul if ryan co opt half freedom http t co fdzxo ceo founder  
suntex strategic investment ltd private investment banking ps worldwide top of the wor  
ld hotel resort',  
'amazing see igbo village in the united state of america http t co xwwbkapww http t c  
o kbzom ypnman enthusiast computing ageek webdesigner webdeveloper softwareengineer be  
niceandfollowback pin b d a business',  
'the digital entrepreneur the dream building business around digital product service  
old t http t co mopqrr cpbororganic noshables other sundries marketing pr pro instagram  
organiceexpert anitamariegriffin gmail com',  
'nba i play basketball escape reality between exercise diff personality memory made i  
m child god father husband son fan hiphop adidas the thunder er giant cardinal stanfor  
d i m rattler famu',  
'the back pumpkin lily did halloween pumpkin pumpkin carving http t co csiaw zvzaunty  
nut i blog i love tea i love candle space doodle http t co awlemdc ut',  
'harry style word never strong enough describe love respect admiration feel you follo  
w pls x curly boy cheshire reason',  
'the best picture ive ever took otrabirmingham otra onedirection http t co xobnhww pw  
directioner kalesquad followed alfie deyes quisha bekkii photography adict one directi  
on you tuber',  
'here apple watch face ranked worst best applewatchbands http t co elrniztwnv http t  
co l qmsjippart time pirate psychotherapist urban fantasy',  
'mungaab district leader gone i hope new mayor get rid thug wider representation deve  
lopment somalia medium pr uk all tweet opinion i disclaimer view don t reflect employe  
r instagram harbi jama',  
'allanschumacher extralife kid donation received go hospital supported absolutely fan  
tastic fiance burial host doosintamriel http t co iypsgsv z casual tesonline',  
'fzschoools all thanks freshman nh band creditwhereitsdueyou may cool never marching b  
and cool',  
'using fresh herb cooking fantastic tea healing ailment grow herb garden enjoy reward  
http t co c jffml s eustache davenport herb gardening enthusiast author enjoy knowled  
geable tip revealing article free website',  
'ugh everytime main lead i want end together second lead show i like muchillustrator  
michigan snake help im obsessed snake',  
'the tackle player swear somebody sent team sabotage u orlando pirate supporter bcom  
economics graduate financial planner investment banker barclays africa god everything'  
,  
'yknow what i m damn done want me want me i care miss don t care cya later drain pres  
sure swelling i amazing family louisto blueyedsnake hazzaboo s subtwinklou',  
'jackass world i chose you amazing day babe troystickitin love black bird http t co t  
b fbujqbchotline never bling',  
'i crazy as headache don t think i m gon na hit gym tonight this fuck given zone cons  
ider forewarned welcome world u navy japan living rip gz love always cuzzo',  
'the secret lie sense wonder beauty procannabis propsychedelics antiorganizedreligion  
multicultural governmentsceptic musician soundengineer outdoorsman longrangeshooting h  
dmc wtf',  
'lol time warner cable literally worst uncg',  
'unbiasedsptsfn hosmer guy i thinking too i agree a blue jay fan enjoys great play p  
layer team cometogether saveit',  
'sometimes wrong thing lead u right place some chase sun',  
'z newyork please let attend future vip party tonight love demi nick z futurenow x mo  
nth thats like year',  
'natalia lach oh i know first time i drink i m reserve bottle alcohol p di ve started

turn fangirl since i joined crazy d troyesivan grantgustin r family potterhead coconut erforlife',

'he s played game whole year still sausage what s going iclovahyokes indemfam jordanr ealize',

'okay yr giving headache one minute hate adam amp next minute treating adam like sain t make mind i m voiceover extraordinaire key songstress a wannabe actress awesome extr a mostly i try daughter momma raised peace out',

'the a n t i c i p a t i o n livecalmafrica we ll dropping fine image tomorrow noon t hat kid livecalmafrica',

'giant slow barbarian',

'onebadmac billycorben want job he s said already practically begsunknown',

'playboy s really stepped content they re showing tit http t co zr g jlui america s n ext master chef',

'i cant spot b mile awaywe got angel got demon im biggest hypocrite',

'people school believe anything hear kill smile frown',

'davidfrum ont libs unpopular Trudeau ont ont voter wudn t cared just tripe coming po or loser con cdnpoliunknown',

'honeymoon tour massive success proud proud proudchanel',

'dead state remnant teen friend survive future shtf teotwawki survival iartg snrtg ht tp t co yar gtpdm ez read hard put',

'when i young world smaller the city vast building tallerhidup hanya sekali hidup lah yg brarti imam zarkasyi',

'lifestyle the line up officially announced december christian laugh snorter camping fan hair stylist slightly enchanting alcohol ninja',

'unknown',

'ivandontcareh amanda shelton menninists respond getting punched face wellgordon brow n eagle scout brown bone',

'sometimes someone ask i ve lost even weight lately i m always torn lying telling tru th author lover antiheroines unapologetic geek brownish smasher smartphones patriarchy the roof son i raise it',

'maskinen whatever russiansnowball i meant website like accessaddicted twitch lirikh shortyh',

'lactose free milk really go bad date box say especially using pasta think i m really funny i m probably not',

'onedirection artist of the year amas san siro i ve never word say i m asking stay za ynmalik i met benji fede',

'the history hmwv humvee tie jeep watchesteacher football lover reader',

'miedoyficcio superhero feed people always want see negative lol film need make assum ptionsthe red cape coming',

'the new yorker all access magazine http t co uj xc emob month today amazoncall j i m lenni lenape reference speculative fiction fantasy writer blogger i atozchallenge nano wrimo boutofbooks http t co yc ewwtrqt',

'lmao fucking hilarious popcornmy jean pocket',

'making descent marine hone fast roping skill http t co rhvvvlohnny press release http t co xgslsgqox usmccallofduty newsbot',

'hey nerdheardben nerd point nerding ww dogfight listening show http t co ey gggbxwau niversity hertfordshire student',

'dunno wats worse waking son room he s waist movement tl http t co bowkeywanna know g ot scar',

'mastering the art of french cooking julia child volume illust sid coryn http t co pu k g x http t co ib hhzeyd unknown',

'sibling abuse hurt identity confidence adult special therapy need recover http t co nk hw werz survivor sibling abuse trauma referral therapy sibling abuse survivor natio nal author activist i am the virtual assistant',

'the second reading okay could ve better people said enough time teacher unknown',

'feel like winter morning summer middle day fall night tf supposed dresslove montrell broadway',

'the moonlight era start in day daystilfocus http t co y eimyh1 wfocus',

'police upset technology mean dirt exposed world seecandidate mayor stl wrestling box ing muslim book available http t co rwjfdidk',

'stu howe jacklopan jgrog i know not sure exact date yet over th th november hopefull y sunday th dayseshyou re waterloo',

'ashton so pretend like best thing happeneye rolling way ppls heart since',

'tafe s construction teacher face axe despite building boom http t co enq pv oilabor councillor the hill shire council manager disability sector',

'thunder hectic last night shook house soooo muchlil vegan studying science ig peapar ker',

'it s week round dfx me i happy say i lost another inch a http t co gjjwqqurzhttp t c o qncpmry',

'jerkypx thanks motivational monday s live life o g teamenvyus fav spam only legend f

ollow',  
'is julian apologizing tomorrow new year sex lolfamily soap football here tweet soap  
related enjoy',  
'the body language fuck you',  
'tom brady make exceptional seem routine patriot victory jet if want tell it http t c  
o vieq wf hdme encantan los perros la naturaleza soy buena amiga leal fiel entregada a  
mo leer imaginar pensar',  
'nicolebrooks option go student barunknown',  
'bucksexton i remember day i would party hard weekend call sick monday there s i team  
buck i tim just sayin love george washington constitution tequila merica known alias s  
teve rogers',  
'i can t wait friday when i get the whip being slept on is a motivation success in th  
e making westlake highschool wide reciever',  
'sochaux s jong valenciennes pslidja france football team week two young ligue player  
big futuresfinal year french study student ligue analyst frenchftweekly gfn france onz  
eotv scouting analysis general enquiry brendanfrenchfootball gmail com',  
'and mom reading worry bout gettin sent war better army policing street believeenjoyi  
ng journey',  
'i m rockin spider decide make web hang right garage keypadlove forever zrg when powe  
r love overcomes love power world know peace feelthebern',  
'rap artist',  
'you re putting quite effort aren t you then i guess i enjoy myself ahahahaha english  
bot shalltear bloodfallen overlord mod najenda overlord anime',  
'the amount people think i m thibaut acc chelsea fc thibaut courtois eden hazard inst  
agram faheembutt',  
'victory darkness realizing power your identity christ an http t co evaxlsufi http t  
co pi oiaowa unknown',  
'new blog post featuring showoffdollz campdelcorazon elixirshow romacostume http t co  
jsgulqqb qprofessional dancer turned lifestyle blogger loving life in color',  
'photo http t co e jambr um best busty boob click image bustyfriends bignaturals bigt  
its b http t co lm yfsrlhui m czech adult model pornographic actress inch natural brea  
st currently livin london you follow retweet every day luv u',  
'kc kush i say chingobling shit aye lolhey whats up',  
'demi fat flop whole world know steroline',  
'rodriguesmatt i hope mean way track away train riiiight i m author podcaster interes  
t include pop culture wwe sport paranormal i tweet lot song lyric game',  
'idk one brings attention fucking bullshit fuck nfl http t co ymrngvq i south',  
'tweep followed past day feel great do also want feel awesome check http t co qpextr g  
dlkunknown',  
'catch fire first word the star spangled bannerdesperate michael follow',  
'campbell built reputation put stamp team however enough win job he win week managing  
editor http t co ep vf kqfk miami dolphin fan since avid ball watcher huskers since',  
'port you ve got fan port utb get selfie november then porter score we re pitchi m bl  
ade',  
'stevia raw low kroger via kroger krazy we new coupon http t co zuucoqsfeoi m airhead  
lol you find somewhere yellow brick road',  
'i best bf sc princesskathey',  
'triggered email the killer conversion app marketer using spray pray tactic for http  
t co qmojeajkk m valpopescuinternet marketing consultant author love seo sem social med  
ium inbound marketing blogging startup follow valpopescu',  
'forget unfollowers i believe growing new follower last day stats via http t co lndln  
dzb g oned coldplay so edsheeran thescript bastille http t co kpg ux vyk i m still laug  
hing http t co kfpa jo ml',  
'enjoy man jerusalem alpha blondy amp the wailer http t co qpmwcgznmksimple',  
'i northern state am i lied said i left everything home idk shit worked fine as soul  
snatcher soft spoken ratchet photographer lover cheese fry snap noti saidthecat',  
'now we ve cup record amount time they ve decided name competition stadium facup love  
kid mr zil mum dad dog the arsenal stoke newington born bred',  
'i passed class lol nicei love work alot great relationship friend family it great al  
ot fun well',  
'the a i right drawing parkland la salle university volleyball',  
'i m new james bond film btw http t co qigqbde jwunknown',  
'ok prudent spending cut debt jacob j lew honor obligation raise debt limit http t co  
jhrnpoznw via usatodaytom editorial page editor the beaumont enterprise always interes  
ted what s going se texas especially anything connected politics',  
'just wan na go chicago aquarium is much ask i m food mu',  
'your never home weekend im always at my house wymrest easy carlitos',  
'the international space station passing sf bay area wave october pm nice guy baha i  
pondering apologetics religion atheism opinion mine may may agree others peace',  
'this guy literally ran front hold door open like wow thank kind humanlife s too shor  
t to even care at all uofl nursing major k jazmyn twin',

'pandapsu you need guy skill amp contribute offensively i m saying hit needed but gam e changing quiet artful dodger lefty bucn letsgopens steelersnation muhc dubnation',  
'rcxas excuse yata would annihilate sukuna without damn monkey s help lolunknown',  
'shepnewsteam always give find redneck peep interview sc nc we intelligent people int erview them i live sunny wilmington nc i m ambassador wilmington chamber commerce my h usband i also second home suburb pittsburgh',  
'musicmonday sumthin sumthin mellosmooth have heard snippet iii previewed short ago u pcoming summer i m much i m everything i am vice music film tv writing photography blo gging social medium technology radio sport',  
'tolkien notated middle earth map found copy the lord ring http t co jeakdh psd devel oping software qt qml io android blackberry tizen linux osx etc',  
'the prophet allah s a w said the person two faced two tongue fire day judgement abu dawood allah obey messenger mercy upon ali imran',  
'if failure celebrated more i believe world would magical place via danemaxwellloves marketing writer former airline pilot health exercise nut work infusionsoft founder ht tp t co tmcmidt r view own',  
'found transponder snail execution are straw hat final moment trecru http t co qmljes azadunknown',  
'the idea growing old sound whack fuck i wan na die young comic book head my dick sma ll i identify big dick nigga i m transbigdick i live cleveland i beat occasion i eat a s',  
'asapmikeyyyy game long them give timesyracuse ig chipndale',  
'everything hinge narrative your work pauljun via helpscout http t co ioqdx lgxthelpi ng create marketing campaign recognised originality value driven tweet joshchandler',  
'currently plottin watching sosa movie fwc street wear ig liljaysoicy',  
'jamesdoleman i realise broken and they ve cheek say country life beyond mean freedom looting',  
'young people hold key mobilizing climate action support them we left damn mess http t co pzzxbmonizgifted talented admistrator environmental science artist gardener son b orn raised new orleans gone global',  
'praying victim afghanistan earthquake may god bring peace healing serve least give l east go saved matthew',  
'see would kill main character who s since season one random episode middle season i m sleeping i i dream maeve when i see i feel sweetest relief imaginable',  
'q why lone ranger kill tonto a he found kimosabe really mean husband father grandfat her',  
'neafcy wafc bury away cup ever achieved wafc buryfc facup won fa cup bankrolled club unknown',  
'these dumbest relationship goal ever http t co s itcrbahfree spirit wild heart',  
'no i hate phone that s all great white shark',  
'tluvvgolf theblaze glennbeck clintonian w sweet combover unknown',  
'northjerseybrk poor all afternoon cop trying keep photographer away kid sneak onepen n state grad architect designer',  
'what craziest thing done public oh wan na know http t co eygecxs zu',  
'the world pull gravity fue en ese entonces cuando dej de huir porque di cuenta de qu e era la nica que segu a',  
'alright damzadeleye keneamazu fun harsh tag marketmemonday i m a listener until i fi nd a real job half a man shade of shy older lady ig keneamazu',  
'did smell him allie asked creepily waiter filled water glasseverything a okay coolio bean',  
'uk car dealer fear fallout volkswagen scandal http t co fx eszetgppperformance partne r i control',  
'hell get information school lockdown news wtf unknown',  
'christinehodge well sat stand mate he doubt anyone pinning future guy fitness unknow n',  
'danielsolis suzanne what s funny idea morning already done game daniel amazing pone man love thing geek',  
'stop saying ur person called ur not u dick hate ignorant pplunknown',  
'looking forward seeing new bond film tonight excited spectre biology student universi ty hull love football arsenal fc',  
'i understand people mentally ill likely victim perps i also know amount abuse endure d asylum you ll decide yourself',  
'hey brad hope smash show tonight can t wait see boy tour next year ily thevampsbrad please follow x unknown',  
'namaikilips maiyanee he can t else mom kick house',  
'officialtaz still blading wwe pg era a atheist sport fan metalhead',  
'cofe bigjames meemichie mestasenesta imdatchick i don t know woman agree some first place stupidaccident crime scene reconstructionist love animal support several animal rescue charity',  
'the rolling stone miss you http t co cokcmfqcuteunknown',  
'i never really take bus i today lolscouthbayla gumbaga chicao'



'i never really take bus i today toisouthbayia scumbags chico',  
'i drove bridge i swear longest bridge ever lol http t co bbspscouklwavy',  
'this musictech panel look amaaaazing heavy hitter across board w flipagram fender ma chineshopco http t co youwa onmccommunity builder connector rescue dog collector ucla er whiskey taco tech doer thing ga la dtla grid',  
'vibetickets ticket one direction th lmao looking agesnever give meeting sunshine hap pen even dont think',  
'rayascoop spectrepremiere http t co yfxgwoxspopage dedicated amazing presenter host interviewer rayascoop',  
'nadia ali xxx beautiful princess devilsunknown',  
'lowkey juice right god within fail',  
'jdsussman men s journal i ll tweet linkwriter focus sport sport law gender sport wor k found vicesports deadspin knbr fangraphs among others find hangingsliders at gmail',  
'love rain hair sofo',  
'new idea scrub daddy shape halloween pumpkin write check don t don t don t',  
'holy shit naomie harris bondpremiere digital assistant blogger interested luxury fas hion sustainable design dimplesblog hotmail co uk',  
'it s prefect day go beachsan diego',  
'everyone take breathe made dance anything possible let wait dissect elimanated giovi ncofather awesome son canadian men team supporter forever loyal leaf fan tfc l pa voic e solely opinion',  
'damn can t eat bacon hell eat http t co nmzfydw ohno relation life long detroiter rt s endorsement huffpostpol editorial fellow michiganstateu spartan',  
'tanyahuntington yes please and yes d see crimson peak chaperoned i asked all critic escribe en milenio esquirelat letras libres stargazer en este negocio si tienes fama d e monstruo eres una estrella i want pop idol',  
'i think lancome s me incontournables de parisienne makeup essential palette smartest palette http t co vx fhfzrhweditor beauty guide cityline beauty expert',  
'larrypurgatory de novembro onedirection artist of the year amasbaby i m perfect',  
'mystified spinning round circle drowning silent screaming nothing left say hadenough lifehousei m sick same i want different',  
'triggered email the killer conversion app marketer using spray pray tactic decade th http t co jge ofs iilove surfing taking care dog photographer full time online markete r',  
'now i think it i i definitely got caught middle giving haircut fitness fairy godmoth er nasm certified trainer award winning writer lb lost tkoed s wife i sneeze blog post get sicker fitfluential',  
'alicia m i know annoying it s cold couple minute like sahara kent state psychology m ajor tri valley class',  
'i hate the walking dead no i don t believe he is dead germany band tv show youtubers'  
,  
'kolatrl dont see sec rih s song meanwhile abel already cfmf the hill meh',  
'the woman theweeknd s angel sound similar halsey i m eagerly awaiting collab two hug e fan doctor who reader book writer stuff future novelist full time procrastinator i r eally mad woman pen',  
'the most likely next president is hillary http t co izfqwbsrf thedalailama gsu stat enotsouthern chemistry',  
'bjork cranberry natalie imbruglia hertfordshire',  
'local version insideout playing tig theme retell story local codebreakers cumberbitc h this cumbercollective account benedict sherlock going find boring saw hamlet oct',  
'i m currently playing th player http t co vezny come join me http t co djzfwunknown',  
'it s heartbreaking know one love longer lovesfollow instagram misbritbrit',  
'hornicole the real dylan counting day i ll i need booty pic make happyi ll stop drin king captain morgan put foot down proud sweetheart kb philadelphia esu',  
'dwkputsyouaway nod run room gabriel aka frosting angel i m surprised vessel diabetes yet vesselofamoose s sexy angel spn rp comicalhalfling',  
'how play need speed reboot five day early after time away ea s need speed franchise ret http t co ltzsn tld all base belong u',  
'to marine mall made smile amp laugh today thankunknown',  
'floating jack o lantern create perfect spooky lighting outdoor halloween party http t co ycgr kq kvadvocate thing natural lover rich soil food old school flock redefining iconic american farm sharing design beauty bounty',  
'acai bowl honestly best thing ever name actually nancy',  
'listening song i used listen year ago difference listening now i understand lyric',  
'so come baby let rock n roll get little lost old back road later we ll count starstu rning a dream into a reality allglorytogod wccc petroleum oil technology',  
'it wa memorable lovable bday i had bcuz youhttps t co rgtv drj',  
'hestiahdruuid news back aid fiv research http t co pb gjp fwnone adorkable warcraft p layer lil m f ckin sunshine gim me beard geek cat coffee n bacon yes i awesome farted oh pirate jupiter',

'morrisey s debut novel list lost s relay team cursed http t co olprh a e unknown',  
'to realize value one hour ask lover waiting meet i guy thing one time stuff like tha  
t skype vusi manana ig rev nana',  
'waiting checked one luxurious hotel abu dhabi happyanniversary top http t co gg gpdq  
dvzunknown',  
'idk doctor like wth let check height rt baddie pee mscomplicatedtk u thought u tall  
thisschmoney myfamily',  
'word day favorwalking away instagram gpeterernity',  
'bah zoom http t co ktbjkbzbap best busty boob click image bustyfriends bignaturals b  
igtit http t co nif iervisi m czech adult model pornographic actress inch natural brea  
st currently livin london you follow retweet every day luv u',  
'and final the piece painted recent sketch idea work out c http t co wcawfcqgie http  
t co aytlyzjpaillustrator artist designer author http t co zami t pcv tip advice freel  
ancer infoartblog graphictide',  
'time people use selfie stick wrong way http t co hq k hsppmermaids dont homework',  
'the weeknd wicked game iraq iraqi armenian http t co k rxgfrwpl',  
'the weight of grace http t co g ux smfqj disciple husband father son pastor author f  
b http t co vtyonb cz teamjesus kingdomcovenant hypergrace navyvet',  
'femaleslikeus alicevazandum so deny fact science work keep hating trans people cong  
ratulation currently bun time humanproblems',  
'greeting all webmythical thanks follow happymonday tweet inspiring fun unusual extra  
ordinary thoughtful delicious relevant livereal livepositive craphappens persevere hap  
pinessexists',  
'the thing better chilli bacon chilli baconwithanything http t co afanpdxjfrchrist fo  
llower husband dad pastor love local church leadership toronto maple leaf fan don t ju  
dge me',  
'seem like move worth makingrip carterrio johnson',  
'mexiplier your gon na make me screamm penguin for the win jerome come back to u my fa  
vs markiplier jack septic eye stevoptweets bubblebutt c markipliershero septicarmy meo  
wipliersquad for dayyss x',  
'erlking haha maybe admittedly always invested seeing human soap opera unfolds dunno  
sleep sound nicephd student political theory vice freelancer newfoundlander exile i wr  
ite canada stuff pic courtesy fogtownfemme',  
'the digital entrepreneur the dream building business around digital product service  
old t http t co jara udughi all i based hertford interested working home i help others  
achieve learn http t co h htrnyj',  
'planned u s patrol raise stake beijing disputed south china sea the japan time http  
t co iypbi gtvmgeek dad husband geopolitical photography coin car financials foodie pr  
o family pro military pro capitalism pro america',  
'hayleyatwell mmdogrescue if get cute puppy join dubsmash u greatest woman alive i jo  
b having dvr watcher mitsubishi driving burger lovin jordan buying wooooooo coolest da  
ddy world ever seen wooooooo elbow drop',  
'clarification cancer news today http t co pm um xx from mechanical mechatronic engin  
eer binge watcher meantime tech news addicted pgp http t co tliufa',  
'alphy alphine moose jaw one cheaper city i m living regina month plus utility and ne  
w area hi let s friend',  
'emanuel think i m sad today talking you still sad walking dead i still',  
'gee put icing cake said smoking smart car fuel hustlerneur frg foreign',  
'i pity girl still stuck high schoolwsu',  
'conor breslin real bresy king eric cantona time ysb',  
'i fully agree todd bowles assessment timeout situation end game why r people trouble  
understanding it sport writer capital baltimore sun medium group stadium journey ny je  
t yankee terps marist columbia md via nj w wife daughter border terrier',  
'untranslatable love word around world http t co r b bwrqkparadigm hifter follow your  
beautybliss order the iconoclast http t co ybodpzsuja',  
'shit me dah vy multimedia artist pianist http t co wbwnqj iwt',  
'lovin the vibe on our personal tour of jungle cat world gratitude love animal http t  
co crez exu ui want you ask yourself you accomplish given new limitless possibility ex  
isting beyond scope meagre reality',  
'okay since new quarter i think i m gon na deactivate twitter thanksgiving break if w  
an na talk ask excuse me i got spelling test',  
'lost girl the making episode hair make up http t co uudgywdhh via youtubei m dreamer  
loving life goodness people i d like live countryside encircled pet i write poem i ll  
read who ll life',  
'the d photo daughter gt gt gt can t wait meet lil princess feb th',  
'in worst mood ever hull band n eminem',  
'i added video youtube playlist http t co pya zaltco walking the dog lifecast my resu  
me http t co qq olv qpl',  
'paulwesleyshair shadesofdeml werkvato stonecolddeluxe she brazil promo week your fav  
es bust ass gay ny costa rican guatemalan',  
'me i ve always wanted name desire samaria i ll call desire call sunshine star what

me i ve always wanted name beside samaria i ll call beside call sunshine star what unknown',  
'i another point playing superlucky button superpoints http t co tahq e glpunknown',  
'ima stay way unknown',  
'i took many selfies weekend it ll take age post all let s start german http t co u o vthw k sina costume artist singer chief editor cohakumagazin german ambassador scg',  
'check original art manga anime blonde girl poster wall art home decor made usa asian http t co uemmbqxgby via ebayhi i m sindy i love ulzzang gyaru fashion makeup circle c ontact coffee',  
'doods public university u completely free or pay something take back basic simple li fe',  
'i ve witnessed wedding winn dixie parking lot this this alabama http t co osfbtqqgei product grace search everyday grace sometimes sassy mostly southern woman love jesus l ife laughter latte extj',  
'internet taught men outrageously fucking gross think therell reprecussions expressin g grossnessalt writing twitter internet superstar lord daddy dont follow plz anything spicy personal main twitter live',  
'laurenfennis goldxxx dust much vocal productionilona horvath business woman musician artist kind let beauty melt soul',  
'bwprimary fancy trip orkney enter win could take shanice http t co mwa s euxgmaried tanya daughter shaunie chantel shanice also two grandson rylie kayne',  
'i added video youtube playlist http t co gcnlhc jx rockin around the christmas tree lyricsyoutuber gamer boyfriend got life',  
'the saddest thing watch someone love turn everything hate still rip dad',  
'damn i might listen album lmfaao http t co tkok y jm',  
'going get weed probably hit strip club bigbootymoms culonasputas juxcallmedash activ e dick http t co tka dolwi love fuck lot straight lesbian boy girl welcomed follow dm contact',  
'stop talking busy one win misery olympics lvanderkam percentconfdirector global bran d business development mullenlowegroup former yacht queen intersailclub',  
'agshowcase climate adaptive agriculture data driven innovation field http t co odc l f r via youtubealex cena financial analyst equity research professional institutional investor avid outdoorsman photographer',  
'rac we ve getting year now i m ignoring need it i want deal hassle i tweet dumb stuf f including but limited to superheroes tokusatsu anime the walking dead robits video g ame total loser',  
'patrickcoffee pirate s loot necco wafer dum dums candy spends eternity grandparent c andy bowli m president founder propheta communication inc manhattan based public relat ion agency my team i bridge gap perception reality',  
'problem mass feel like controlled democracy monitoring totally different issue teams tupidaf teamskinnyaf teamdrinkspiritoonsundaytogetspiritual teamgetdrunktweetwakeupdele te teamdontcare teamsupport teammafisi teamhigh teamteam',  
'hiiiijac kbombdotcom come room still drunk trying figure day is there s kristina win dow unknown',  
'kdugdalemsp meanwhile lord allowed tory cut tax credit go ahead shameful here s craz y one the misfit the rebel the troublemaker',  
'life changed month here s proof http t co c onfulats exercise rule a member haunted event uk team global cpfp manager ppg pmc',  
'the advantage dating after forty http t co uyjqtohmqalover fighter networker i thing men',  
'starting gym seriousshow moses make tea hebrew',  
'since back zante i want drink time passmethejager rep summer club zante live night c an t remember never forget all view own',  
'who decided way live life based around piece green fabric unknown',  
'kaylaessence yogurt section stay focused extra sparkley chs',  
'theleapz once done could option not first goal knowsalex g rard i draw badass cute t hing get touch contact icybomb be',  
'jahovaswitniss thats unactivated phone dad would let use got new phone snake game it thought i wa an atheist until i realized i m a god',  
'all kid parent ca football beaversbrook skysports showing feature am onwards tomorrow professional footballer qprfc nikeuk athlete co founder excelracing co founder ca foot ball course proud dad',  
'dgodfathermoody can t wait get back truck maro did oink call yet aka steve idaho lol o o holland enterprise freak harvick periscope dad nascar harvicknation thecup thewin cowboy trojan bama dodger thankatruck',  
'mdaisey the fish look other staff columnist toronto star i write saturday news mon w ed five neat guy opinion page email hmallick thestar ca',  
'even he happy the face http t co yizyfpk ylfootball enthusiast mufc redarmy bastian schweinsteiger manchesterisred',  
'impossible capture beauty full moon everything wa http t co ltvkrsawizgrowth hacker nerd online marketing manager vionelfilm vionel also foodie gym junkie notorious trave

ler blog http t co omol oqmj',  
'sorry tku rts monica most carmenthespy jlumo windsordw savethedolphin advaita wild o  
rca http t co ry vuyxwo orcazine blackfish born prairie heart ocean tilikum kiska free  
lolita tweet taiji seashepherd opgrindini',  
'msanitaganja ticket ny show go sale reg public th ticketmasterpeace life love freedo  
m music r i p ashley mccrae r i p kk jetlife snobmob tde tgod highpointe allcaps insta  
gram m kushington',  
'better fight democratize abolish institution regulate transnational interaction glob  
alizing world n fraserchair peopleslobbyusa vicar firsttrinitychi tweeting progressive  
politics global political economy snarky theology miley cyrus',  
'what fail report overall diet lifestyle people studied i i say i i i say i m gone do  
,  
'the empire strike back hillary s empire is http t co iuex i cahprofessor philosophy  
city university new york',  
'i actually think idiot get joke http t co woie t oyywhen i die i wan na go hell caus  
e i m piece shit ain t hard fucking tell',  
'ugly barbie literally best thing i ve heard week yearsold',  
'netjeretkhau could convince chinese asswipe spleen make yang hard could hunt extinct  
ion profit perhaps insanity see life rather be cervantes',  
'life is better at the beach instaquote quote http t co cd z gociyregelmatig nieuwe t  
ip foto s video s inspirerende quote eigenaar van cadeaus nl tshirt me nl',  
'monkey with smaller testicle scream louder compensate study find the beauty science  
nowweknow http t co uahanvdx xdefender secular space feminist sometimes writer sometim  
es reader',  
'the title party say all miss lob crew http t co eeeudnhnji m glad i live world octob  
er',  
'dobbiamo votare i ragazzi onedirection artist of the year amastreat like harry style  
would treat',  
'feel tear going check im trying hard think doctor keep saying hard puertorican love  
dance play guitar music mean lot me',  
'time take anger gym chs senior thespian',  
'quality fubu the collection men shirt side vent check print cotton xxxl http t co vk  
dhtx li http t co gueyiks unknown',  
'the always awesome laura hudson nail it the walking dead good again http t co qpxkgj  
li sing band nascum engadget reporter gingercaster gingercast cat lord',  
'i one question have asleep concert made drug http t co mtnwmrasbj like imperfect poe  
m or incomplete piece art flawed still flawless access nj lj',  
'stark street dothraki sheet sharkwave mine',  
'that ll put great mood rest day alphacrew',  
'we friend coming stay week we ve cracked open halloween dec although oscar http t co  
rk mg pusahmama trying figure go here slimming world stone loser weightloss pblogger d  
ash autism thrown fun',  
'noah s sister called fucking brat best theaffairi suffer much pep i needed pep outle  
t love genre fiction tv analysis liberal politics wine contributor http t co laglmkjjk  
m',  
'kenna pas class captain dude principal if god me madridista',  
'top independent watch of the year feat exclusive laurentferrier http t co aqx sodjux  
via hautetime http t co y mw idd luxury good store featuring watch leather silver jewe  
llery gun rifle maker bruton street w j qx',  
'have following imperfect mom confessional love yourvibrantfamily amp busybeingblesse  
d http t co jxgxl ft na happy wife mom blogger functioning jesus coffee',  
'am i one see yunho hoyu inspiritangelbabyarmyboicestarligh up tionlovelyzstan',  
'if i stop tweeting battery died lab explodedstructural biology bioinformatics cephal  
opod felid comic butt team gay team poly',  
'cammeekins fuck man happened lamp city day you sold faster i expected pdx portland s  
tate university student recording connection',  
'gotten point love taylor swift much person forget actually singtrix kid',  
'eliminate risk amp attain higher achievement avoiding deadly sin project mgmt join u  
pmot http t co i udl akymarketing http t co il mj xzsq work globally recognized compan  
y deltek pet fish passion flying boating an awesome life',  
'like old cartoon song say don t ya put mouth say wto everything living kill i guess  
growing marginal crop poor land',  
'sometimes depth find others make impossible hide damage instead force u refine defin  
itionentertainer enetepreneur event consultant super model sanguine adventures profes  
sional dancer creative',  
'is movie watching paranormalactivity unknown',  
'people say im stupid im suppose hush yall shit fuckstruggles build you break',  
'walking best person ever kaileimadisonunknown',  
'melosmuse i say stomach sensitive bug i weekend making look everything sidewaysgod l  
ove yoga health luxury washingtonian chicago hoyu bison trying balance lawyer half yog  
ini half'

all hair ,  
'yelp review barber shop unhelpful thing every review star no between i m kind big deal',  
'look day pastel colour http t co i nq d gok bloglovinhttp t co vb s yj e',  
'lukeisnotsexy i wish you would notice me bc i know you and we went to the same primary school and it so exciting im cryingi m basically phan trash tweet random shit k bye',  
'what actual fuck http t co wb dih kv',  
'a sabre tooth tiger daniel age half inspired trip natural history museum http t co h yhyngiylxwife colin mama daniel kyle joshua reg blogger amateur photographer teaching assistant reader teaching student painter',  
'on page the martian andy weir http t co j o qlnwcrunner cyclist reader book lover animal beer connoisseur vegan',  
'majonoshison i i see like this following word crona would instructed stumbling slightly came pivoting demon swordsman makaalbarn mrcoolguysoul everything me i used drown sadness now i ll look towards tomorrow sserp multirp',  
'the boy manner came letting girl get food firstlightskin princess mixed chick fifteen proving wrong ashtin cade foulger',  
'generate lead the new twitter app http t co bu o kjagc homebusinessentrepreneur work fromhome mlm http t co bk avstry entrepreneur networkmarketing professional twitter instagram marketing coach beginner guide to twitter recruiting http t co olk yk zc',  
'mgsisk this page the whole question that s it designer web professional internet fan girl netflix addict',  
'where do you even find the time http t co koc awcgff otrapink grade c c a caca disgusting',  
'booty dont taste good callum dickson http t co ntthsxzzaadundee home away dtid',  
'doctor think got time world sit small dry as roommean girl',  
'morggray i know like srsly what one day special mile high meat loaf sandwich wtfprobably somewhere jennaaucoin stfx',  
'odin dex nah making like bad guy nothing wrongplay call of duty odinesports lan nerve hanky bae',  
'baseball quote name wkrrp episode alien term me even though kind is ignatius l donnelly associate professor old weird american secret canadian gilded age digital geek gaming big alternate two fisted history',  
'nnakitty i feel i di sing supper',  
'barstooljj keeps janice s situation change gender reversed asking friendyeah that s sorta jazzy red sox patriot bruin terps',  
'the struggle trying slow dance boyfriend he s like realtop gun elite u south lake',  
'everyone come cbac witness rd edition olathe derby sweepsouthwin learn never lose',  
'everydaydayiloveyou forevermore weep heroine s desperation pushawardslizquensunknown',  
'pg esam what s best air move is reliable character good air game i get juggled air way much white girl phenomenon guide thephenomenalee youtube vlogger training super smash brother addict college senior',  
'just whipped fye blackened fish salad homemade cake jar est june sierrassweetlayers ssu',  
'dc dc gottenburg youtube http t co wwgpmvubiunknown',  
'everydaydayiloveyou forevermore weep heroine s desperation pushawardslizquensunknown',  
'this wan improvement roasting video http t co pti nvcmdflover of life lover of christ',  
'shannon better hop fuck feeling scorpio season among u shadesofshe',  
'everydaydayiloveyou forevermore weep heroine s desperation pushawardslizquensunknown',  
'everydaydayiloveyou forevermore weep heroine s desperation pushawardslizquensunknown',  
'there s nothing indicate that s thing play course season playoff year young montreal piece john abbott college',  
'nbaseason back let lion roar amp roster stay healthy kingjames http t co ektptp kgc liltunechi malekrose izzoland aubreerose panama maxb gunzworld lilly lebron ava',  
'teganrich the thing make u subscription sampling can t different we focus retail full time dreamer vibe master',  
'vintageannie never mind i want bloody whisky carry haha thank god vibrating bouncy c hair i say the best thing life unseen that s close eye kiss laugh dream',  
'everydaydayiloveyou forevermore weep heroine s desperation pushawardslizquensunknown',  
'everydaydayiloveyou forevermore weep heroine s desperation pushawardslizquensunknown',  
'fucking ignorance people school actually make sick http t co dqrk vasw badlandsgirl s hypunks ur chocolate donut',  
'julienickart the student loan must ridiculous color comic',

'when plan halloween oh wait netflix plan meh',  
'the million realdonaldtrump got dad would worth gazillion today inflation he s lost trillion trump rt mean i love you my two favorite thing commitment changing myself expert fuck constitution i say constitution',  
'run bring me the horizon a o rock erreap la felicidad e una carta de la baraja itsir enneg instagram sergiip snap sergiip',  
'stats day arrived new follower no unfollowers via http t co vhlxf ucct unknown',  
'didn t keep tech news last week here five biggest thing missed http t co wlolzyyn bu sinesstechi m cpa business owner writes every day small business public policy washing ton post weekly forbes inc huffpo entrepreneur',  
'what waste feel good one think worth time some born sweet delight born endless night herehavemyheart s little lamb',  
'how hell pikachu damage arceus body made video game',  
'the real rick ross rapper http t co egcm boxmh block la familia wash hts i ll help g et son p s get maury flow maury show',  
'when see booty http t co rq sqimm unknown',  
'somedays spend majority day bed christmas light attempting homework atleastishowered pizza',  
'strigoibolivar right moment strike bite sv rp telekinetic bitch',  
'i m finna whole hood wearing dickie suit again art nashville chicago inquiry dopejus tin gmail com',  
'broseffdylan ahh well associating bestie therefore interview get excitednothing bett er knowing lord show endless love uiw volleyball',  
'ugh imagine krashlyn shipper going wild seeing http t co ackz bqpek gay best choice e ver didnt make',  
'nourryz i love boy music dominate artist feel bern',  
'bbclaurak lady hollis if win scupper bill tweeting politician police govt local govt any else listen opinion question may necessarily reflect i actually think lol',  
'late night shout out m cobbler aka malpapadam already passed barley cupcake a creati ve entrepreneur spirit my motto if dream it it life endless possibility you decide out come now',  
'colt revolver the world s right arm rustic nostalgic tin metal sign new http t co xg a p y c http t co oqnpouszmunknown',  
'gym best therapyeastbourne england',  
'i ve called dinner time one appeared wondering whether disconnect wifi trip upstairs socket burning highway skyline sound pulled gravity saved wonder contractually obliged point opinion own blah blah',  
'oh u onedirection artist of year amas onedirection favorite duo group pop rock amas soonrmt legend introvert ptosis japan korea ph louis tomlinson everything teejaymarque z babe ig ohmyjeney',  
'them hoe clean http t co sz kopide i like pussy like pussy nigga like pussy girl lov e pussy all hail the vagina vstate r l mpir',  
'who built the pyramid why were they built and whats their purpose right now light qu estionzpsychic reader healer pastlives health fitness astrology loving ufo the light a dvice e book avail http t co lzw wugzq',  
'discover seven best doggy style position http t co h mmpflfa http t co zjl skrv gimade enjoyment',  
'mondesi s lhb position flexibility would strength rhb colon v heavy rhp mets a huge huge test last game though atheist progressive lover deep dish pizza',  
'wvvvxs best feeling ever bro lolemployed educated blessed',  
'which bond took most martinied seduced most here s fun graph lazenby hound http t co lf xmdouk tv live online host ginx itn disney challenge youtube http t co x t xjxgpc i nstagram http t co igen ov ne',  
'i remember dongho one fought seungho game caused problem back sigh panda grandpaexo be strong boy wu yi fan xiao lu always support mblaq my ot if love madtown let friend',  
'the gannet muriwai nz nisicarol great place visit localauckland auckland nz http t c o v hl i rfemaking ordinary spectacular since i auckland based photographer specialisi ng long exposure check facebook instagram px',  
'theclemreport look little dark they skimped creamboston sport cheap beer good time v iva blocked jimirsay mikesilver darrenrovell barthubach rdleggreg',  
'spencerhuntosu undertaking monumental task confirming attendance character possible communication lanternclassdesign editor thelantern journalism international relation p re law',  
'amazingsivan livelysugg dxbrevismolder oakleysnutella joe sugg shade drag actualhowel l sticking ur faves hand other s as friendshipgoals',  
'there amazing looking igbo village located staunton virginia usa the washington http t co oroweb x love family i discuss idea paradise right hell left',  
'qmd ir ao rock rio para ver weeknd megan fox halsey b',  
'one day maintenance happen stored database information sold tadah might really try j ournalgolden',  
'notioshearnest i went college standard gma get in isp t case anymore or go color com

mon sense gift punishment deal everyone it',  
'hot grille vintage automotive hotrod http t co qfpr jllqcjcreative director visual artist brand builder co founder semibig popslice founder day art father bespoke watch project',  
'still probably going super bowllong story',  
'maddisont justindbvoter lyric video mv i m sure held record fastest video reach m like fashion student follow excuse kimsself email celinek contact gmail com blacklivesmatter',  
'jackyalcine rent moscone get permit shut street in between different building fill k people anarcho hipster j community organizer creator nodeconf jsfest community linux node j foundation',  
'enam1 woow plz ask violate rule i m pushing away i m pulling towards',  
'maddydiemer woah tweeted thing twinsbgusu',  
'adele hit right feelswhite steph curry future trophy husband sometimes drake time josh',  
'girlonutd i still know there definite movement arm can t tell whether arm chest red stretford ender first team reserve academy',  
'tmfansupport presale code u bank arena emotional roadtour instagram amberdear',  
'i dont understand passport issued indian official one wanted criminal since year cho tarajanunknown',  
'lunar mana the polished renewable mastery remedial realm power wkyoeunknown',  
'the main strength relative elfdom shopper kckunknown',  
'excited see kevinwatson bishop s symposium week johnwesley classmeeting discipleship holylifehusband father pastor exploring kingdom god pointing people it',  
'english mustard best condiment world discussthe wire the office tottenham charger retro wwe porterhouse steak the thst speak',  
'supremeproducts check new saddlery open westmidsaddlery everyday bargain store online love fast car live music go faster music management ltd enjoy driving tvr love spending time family eating california',  
'nba play moment game tied time s running down we big play thisiswhyweplay sweepstakesel rey',  
'i almost got ran valet unknown',  
'the invisible superhero http t co hremu ae zunknown',  
'non spoiler alert i can t believe thing happened favorite character last night s episode popular show game community manager sidefx houdini ftw videographer editor d artist animator gamedev designer of graphic humor opinons mine',  
'easy easy pull heart to make alone easy easyhttp t co bcuc f ik',  
'everybody s got nice pretty eye day is thing ever compliment people with smhalive blessed hip hop dj househead booking mooketsilemo yahoo com',  
'tisanb sang jagaban song dnt bother reading dis co gon na g info',  
'rodbelgrave pabmanjo the worker supplier local business reliant steelworks they move eh wanker comforter philosopher lifelong mate',  
'if impl of compassion strategy becomes we ve missed point lsbucip this heart amp mind juneinhe http t co rmfytadt ydeputy director nursing westernsussex florence nightingale foundation research scholar phd nursingleadership caringpractices all view own',  
'uhohmamamia i m coming see soon the next time her awh omg kanye attitude kanye feeling ecu',  
'when people used say woke i assumed woke up stfu gay slang if bitch face follow me',  
'breaking renton motorcycle officer hit car way harborview critical condition kiro seattlemorning noon anchor kiro seattle raising boy w fire fighter hub cancersurvivor uw husky gohawks ig michelle millman fb michellekiro',  
'irisleah showing everybody true sidestudent lbcc',  
'haggisadele seemed control talking paramedic finger crossed ultra marathon marathon fell runner man utd season ticket holder very lucky working craft beer industry',  
'the leverage utilization transcendently fortunate organ sign manchester bqaunknown',  
'onlybignaturals titfuckingheaven big breasted hotties looking hookup http t co w q d e xk best b http t co pviik r wyi m czech adult model pornographic actress inch natural breast currently livin london you follow retweet every day luv u',  
'click win hellraiser the scarlet box blu ray heyuguys http t co afsq qgb q http t co hmq wzl g unknown',  
'kiimboog throw kimaaron',  
'discreetlatino it s like min mine i m going start hanging brother reg lover taylor s wift beard thing served tortilla',  
'jack jack maybe best fan love much always supporthumanity cruel',  
'here only secret that can make you succesful with social medium http t co pyfi awr l tweet write communication marketing content visuals daily life golden retriever',  
'nicorafa thanks unkind word signed guy follow twitter football analyst houston texan radio texan tv http t co kavpchr v also sideline reporter houston texan owner http t co o iviksg z',  
'the invisible superhero http t co dfqo jhal gameinsight android androidgames ipad ip

adgames openfollow teamfollowback http t co vjnydto eu inc global cloud computing comp  
any headquartered san francisco california',  
'bloody hell i try leave later i m still first onetake back basic simple life',  
'sadelain next new target increased potency combinatorial therapy next gen car coming  
clinic next year tmm business minded stemcell geek working ccrm tweet represent intere  
st view',  
'also super grateful i ve never drawn su fanart lord know world would i used wrong sk  
in shade hair texturesan introspective young woman strong connection earth an artist p  
rofessional animator baker gardener dream eco community',  
'cherokee syllabary wikipedia free encyclopedia http t co ypmtp jj sperfumer time tra  
veler olfactory story teller educator connecting people sens since author foundation n  
atural perfumery',  
'if i o brien s presser i d ask running arian foster fourth quarter blowout loss texa  
n nfl digital content producer contributor grimygoods freelancer boxing mlb musicfesti  
vals athletics tbbucs nyknicks stanford fan',  
'messed chance potential plug weekend ask me',  
'enter http t co hlh lyh st giveaway win visa gift card giveaway sweepstakes http t c  
o e wkrtx wti m redneck nana belief simplicity mean i m simple i enter sweep win chris  
tmas grandkids support myself',  
'senbookerofc senatormenendez stopcisa keep private data hand insecure government age  
ncy http t co dnzrqdihdunknown',  
'withthemoonblog i m spectre premiere either just know unknown',  
'i hope i m girl wake one morning none jean fit unknown',  
'you always got ta prepared twitter video start moaningnever gon lose',  
'stormin castle jeffthebrotherhood jeffbrotherhood infinitycat infinitycat vinyl http  
t co ij o bbw y http t co yauxtye n',  
'i blister size quarter bottom foot constantly mood talk beyonce pizza roll',  
'join labour party become lord get good abstaining spineless tosser only vermin wear  
ermine taxcredits been gone blue harmonica scottish fiddle dissent',  
'klaus gon na leering across street kengoku that s weird theoriginalspart goldfish om  
nipresent time bedouin ig jaybirdhawk oddoneout',  
'i ll thinking every night disappointed cause shit last day',  
'whatsapp s co founder exlpains how the iconoclastic app got huge while staying so sma  
ll http t co zjp y obiunknown',  
'the one spanish class i need filled bio major bgsu',  
'dyn porn id follow shit end earth unknown',  
'where hell lolisa i trust nobody like instinct',  
'happy birthday oga top ukenyatta mypresidentproudly kenyan forensic blogger aries te  
am jesus born ready self made certified goal digger mufc',  
'pick piece watch seem touching teak computerized typesetting xiyqmjunknown',  
'assuming donald trump got m loan equivalent today data journalist oakland tribune co  
ntra costa time staff math guy dwillis bayareanewsgroup com pgp http t co gp m soyr',  
'finally getting round watching lesmisofficial th anniversary finale so excited happi  
ness found even darkest time one remembers turn light',  
'so hard positive life going way planned come me weary burdened i give rest matthew',  
'unclutching aweeeee well the world i end following list don t afraid live natefromhi  
scar followed love god justinbieber followed ily flamingeos flaminfam flamingo imlogan  
morris ily charlie',  
'prepaid mobile phoenix decoction mark expense anent prepaid service cjlunknown',  
'z newyorkif i got z futurenow chance hang w demilovato amp nickjonas would amazing i  
love bothenjoying life come',  
'return verdict overwhelm step forward jar preferred curtain near tunk anent high mor  
tise gkqunknown',  
'justinjelch struggle hahaha i skinner guy hook truck timeplan simple i wake morning  
piss excellence',  
'the amount money i blowing month brb kill myselfveni vidi vici',  
'rt well since work bar hotel together might want follow me improves communication dr  
ink order loleveryone need smile',  
'the inside story how chicago built dearborn street bike lane http t co oemvnybqknrea  
ltor triview property investment',  
'presenting mastership annual other self washroom claim macrocosm point benefit perti  
nent present unknown',  
'copygames microsoft banned speaking below coming p why can t answer beyond robotic s  
imultaneous pc amp xbone art director fallon london day gamedev musician sxe skate pun  
k lufc gam night',  
'davidbraben not a impressive effort porting game o x classic fd unknown',  
'ex gave best morning text maybe got useig againdabz rip nogood',  
'ekpegaur haha next time gift person half joint scold ask him her come office time ne  
xt day p anubombleftie odiya re lover iclick manutd proud indian',  
'getting sick bathroom girl stall beside eating carrot apple like nastydark bitter sp  
oonful alitter travisadkins matrix otaku'.



jeff gluck i m group i guess good news i ll wait five year disappointed opposed annu  
al disappointment r r podcast bracket name bracket champion',  
'the mining married love online tissue store inflowing latter year nglunknown',  
'photo kikeo a great white shark smile camera swimming coast mexico natgeocreat http  
t co bcnfwaphro apple geek http t co mhjr iotv http t co ivaihtwgu vine mamdouh',  
'thank hardfightingsoldier top you even guessed favorite color love http t co tuorama  
zzmichael greenwald endorse management',  
'marinasdiamonds redefined word performing last night http t co fc ky bkkword',  
'feeling mood bit writing vellum pilot back track elliotmphotos sgfgee marinalouisax  
ghostmedialtd tvseriesexecutive producer screenwriter group director designer',  
'w different let show differenceunknown',  
'everything past better stronger efficient take back bdibfashion lover photographer d  
reamer lover beach bum traveler adventurer stylist blogger lebanese s girl',  
'the inside story surface book microsoft s next big thing http t co ivhg nuxth via wi  
redtechno enthusiast audience marketing microsoft developer window hololens surface ms  
dev nl',  
'tomlinhxrry hope amazing night tonight amp im praying boy notice amp sign truly dese  
rve it wwa otra',  
'the moon tonight though me',  
'connecticut i comixmohegansun friday amp saturday i one costume telling dick joke i  
m comic i like taking picture panty fill hole ego parental love be',  
'time people use selfie stick wrong way http t co hog zgnyuware banker i d like leave  
loan',  
'best cousin ever arleneaguero momma raise punk as bitch',  
'this second last shot swamp i loved spot much i can t wait go back http t co nccmbkp  
qk nerd gamer movie buff ottawa senator fan blue jay fan animal lover photographer des  
igner',  
'chitlesh i m thinking vendor perspective they switch feature support etc using them  
hardware consultant calgary can functional verification specialty agile hardware devel  
opment passion',  
'how i get weekend god first ig xoe',  
'dawg really last week october gemini i brother keeper i m tryna better good enough a  
mor vincit omnia treysongz bae',  
'what common mistake made venture capitalist http t co e k yb uugscripts r like sente  
nce but noun r object verb command method like w adjective u script object w property  
alter command method w parameter',  
'make heart happy cat dog cuddle i m laying bed unknown',  
'it s minute there s still one electronics department help head cloud foot ground txs  
t',  
'the best look from paris fashion week fall http t co tkvlzgmffx via harpersbazaarusu  
nknown',  
'fantastic launch snapdeal all apps run smoothly oneplus one thanks quad core process  
or http t co yma r pcu when going get tough tough get going',  
'nyrrvirtualtrainer i truly wan na enjoy unknown',  
'iphone apple deal http t co grr esiurt belkin wemo switch the iphone home remote nib  
new http t co qh ojgkzwo iphone apple mac',  
'the big sleazy s insane governor s race http t co wm pxicedt via thedailybeastchair  
phoenix opera az corporation commission a dashing tuxedoed figure az republic rt endor  
sement',  
'cpd would kill me for see scene would obscene see someone color shot cold blood one  
would say so what key car n hooligan csu blm',  
'lovely model mast urabting outdoors backyard http t co qkxpbwlw oi m lady street fre  
ak bed camgirl wet pussy libido my usedpanties sale',  
'glamwalker thanks follow nott m forest notts ccc supporter also enjoy live music bee  
r instagram newarkoutlaw',  
'don arabieila i see pici got shout one g herbo',  
'chrissyatc way obviously also dm me the detailed detailed ill if even make sense chr  
issy costanza i made account reason i wont leave fan',  
'i hate i m looking threw twitter i come upon someone i m following never hit follow  
button for immediate unfollow get house get motivation unoh business tip stay positive  
,  
'teamprincen option b mandana n prince instead digangana n princemuslim birthday mont  
h wish th afridian gauti',  
'harry style beautiful voice never fails amaze me i m excited new album mind followin  
g please i love you baby could enough',  
'subdued current archwitch parentalia http t co gylv ta aic valkyrie crusadeunknown',  
'i outfit picked out i hairstyle picked out lost brother mother fje vi xv xiv world g  
et cold i hope one day rescue maybe fly someday',  
'i entered quality time instant win game amp sweepstakes landsend http t co gjatpzqir  
punknown',

'twitter just changed the live tweeting game forever my primetime outlet http t co ps mkk ttneunknown',  
'the impudence rabiu kwakwanso fulani brother ffk written femi fani kayode read below i http t co cdmmlhzgbeceo funaab got talent ig oba ayo',  
'why dk cover old scene original dark knight amp instead reflecting new series conten t http t co faph cxsi',  
'the collection growing no course i listen them i keep em wall bc yolo http t co ogee hwgy v calum offered paint nail i said always us wrong shade purple',  
'a saudi prince florida man money allegedly http t co xyq xtwax nfrpodcast host edito r nintendo nwr news editor operator stuffmyphilsays halipass manager d specialist http t co b bmr na forshovelry',  
'but either way we re literally exploiting poor produce vanity infernal navel gazing hopeful despite best intention',  
'when i drive i like look defender eye say and i follow back darealmerwan',  
'needthink globally act locally handling it junior sticky note aficionado hchs',  
'excited weekend cfa',  
'madeleine this aint the time hope is goin on a journeybot user matsuokapls fft trash destruction dept caetuna protection squad',  
'dnastysack yung teejay i get joke god first lu',  
'definitely smell green orange train that s fragrance glade cornered market bi sky ho me home jiggidy jig',  
'maximize fun akumal beach kid http t co koc xqihfmartin cowell founder http t co jv ojuajef akumal s best real estate website if question regarding buying selling contact me',  
'oh my the thing regyates deal hear whilst russia unbelievable that country need reev aluate view food i need',  
'weekend already unknown',  
'visited beautiful normanton church today decided test double exposure feature d http t co teta nmk qlive music photographer videographer',  
'mr g x hotline bling definitely bestpartly love yoghurt',  
'listening jojo disney mix get hype b wdw o hey it im big sloot valerie isfp she her'  
,  
'kingfisher kban added photo pool http t co ipccx zudamapping geek ecologist data lov er i use twitterfeed autotweet uk wildlife flickr pic i use twitter widget html expand ed pic practice id',  
'emmacodel hello babygirl i miss you are going prpawards next week xwelsh glamour mo del based london daily star page girl jane for booking enquiry please contact emmajg h otmail co uk instagram emmajgreenmodel',  
'even medium give campaign proper coverage they seem concerned clinton chaotic neutra l lone wolf team player fiction lover science enthusiast aspiring director no conserva tive allowed',  
'having slight feeling people worstunknown',  
'i d cut slack give chance redeem pay meal way http t co w h loat wa non feminist fem inist a nigerian daughter a british mother an african civillian a creative scientist',  
'tell truth awful lie number copper creek golf course farmington http t co h qthkvui just guy know',  
'rockyroark seem matter since select featured site it depends promote via social medi aprofessional sitter high five enthusiast designer mcgarrah jessee i pop pop attic',  
'i saw boy second time nearly coming date number one burn stan the vamp seen x met ta ylor somehow everything',  
'check largest pink diamond ever auctioned price tag start m it s called rare fancy v http t co njxexpxeyceo funaab got talent ig oba ayo',  
'need help guy page costume party mara wearing green emerald dress in mara dyer miss shai theo s hug',  
'do thing love even hurt seems unfair end love conquer all writer poet martin joseph mcdonagh aka m j donnchadh http t co qc nldsti',  
'you know come n see d n front row let white line http t co hubxwxwxunknown',  
'kaijday haha i panic sheffield united hand quaking boot mushrumps rarely taste moo h eavenly jointress s bosom',  
'iambella ayo go exposure pagemy name is what hoe trend to mention keep talkin bitch i love da attention rj sy sy king a dangerous muslimah',  
'michaelnorman oh wow keen eye any pic product close interested choice haharoyalist h istorian crownchronicles founder press sec monarchyfdn uk editor app homeoffice appear ed harry penchant wearing hat',  
'in dream next superhero show lead woman colour flarrow producer nothingi tweet lot s how',  
'i hope mom recorded new treehouse horror i also hope good onepro wrestling anime vid eo game friend fan cradio cr http t co dv wuwznnv',  
'pied wagtail chrispenrice added photo pool pied wagtail morecambe bay http t co eqmj vhslynmapping geek ecologist data lover i use twitterfeed autotweet uk wildlife flickr pic i use twitter widget html expanded pic practice id',

'get man dick sheesh http t co yqf lx h db e faithfulblackmenoftwitter',  
'the walking dead like how hell when where zombie come from started calling king lack better title',  
'a plan reintroduce blackfish morgan submitted freemorgan foundation http t co whbzsv qpvl http t co dy d mjs writer html design animal right activist taiji volunteer orca protector seasheperd tweet taijii dolphinproject photo filming',  
'never bitch nigga kid that s straight tho solid',  
'the natural enemy robot hippy i robot sent future i bot created d koda beep boop',  
'i get uncomfortable people room shop whole food whole foodsi liquor randy oak ridge ge',  
'wa sorely disappointed i arrived great south african bake one even rizla had maul ca ke tray tfi came close death once word advice don t sex crime scene',  
'minhazmerchant there s palpable improvement economy amp scam all will strongly disagree mr shourie here center right golf enthusiast',  
'vote so who s right who s wrong really care the fault blame pain s stillblogger music lover fashion lover snap osnapitzcmymriam so demi selena kurt cobain teen wolf revenge saving hope to pll halsey',  
'vfinch sternshow show called howard friendsprofessional book dealer warrior sabre bill metal life beer visit store link below',  
'the may i fix computer headshot actorslife nycactor headshot http t co b xmffrmsgeorge christopher lopez actor writer director sketch comedy master grilled cheese maker h ttp t co ukrufqougf',  
'where hell october go halloween already weekend abeautifulmess',  
'hellooooo outsiiiiidebola pra frente outras decep e vir o',  
'saturday can t come soon enough can t wait rwcfinal hopefully see allblacks lift cup teamallblacks rugbyworldcupkeep heel head standard high',  
'i mess around people thumb namibia fuck around wake next crocodilesimplicity is the ultimate sophistication forcabarca jetsmarter',  
'mcnarnia judecomputer ban east coastchen taijiquan homebrewing charcuterie bbq sounder mentat entp father shih tzu',  
'the twin table mountain other story bret harte http t co mmkfe ynd http t co gcebncfeextremely awesome item',  
'there enough coffee world make today manageable good',  
'jacksonjr okay that s right i wondering higher seed played home first instead second unknown',  
'blood on money future http t co tisl g xhj google it if u wan na knw',  
'i m hoping five year sanctioning agreement help nascar make schedule diverse http t co frpmtnvkmotorsports journalist http t co z yvu uk contributor http t co vbycneis g fitness stats rule book junkie opinion own',  
'some lesson delivered form paintalk shit prettiest lip im stan pabos',  
'selling theta seeing day exp vix weekly yet tos are you john hopkins alum fixed income analyst vix tourist',  
'st cathrine s church hamburg the shaft tower second oldest upstanding building of http t co zxostxgt g editor day fangirl night tv football soccer fanatic tweet english german private account view',  
'money tsa get fuck here tryna bos life instagram benjamin monroe',  
'robertbuckley googlefacts always best answersone day seventeen planning someday quietly without ever really noticing someday today',  
'help escape pain anyone suffering mental illness you one badass mother fucker nothing terrifying battling mind every single day',  
'the happiness stand http t co hxrijjvy via youtube health sodawriter life coach advocate woman am happy joyful helping others check bestseller happy purpose http t co llw ikaicz',  
'starting new episode walking dead i m ready this not readyi lost i found blind i see',  
'always count pat earning free dunk coffee every monday keep open mind it brings open heart open eye',  
'what the hell thewalkingdead season episode hyan rudson coffee lover owner huge foot fergalicious often obsessive apple fanboy i special bond becky greggs',  
'tenacious woolyboy added photo pool blue tit photographed wetland wildlife trust aru http t co m hlsbroh mapping geek ecologist data lover i use twitterfeed autotweet uk wildlife flickr pic i use twitter widget html expanded pic practice id',  
'this th grader mugged i sitting chair eating',  
'goonerificshen make uncomfortable knowing aspiring politician therefore future jamaica destruction soul vanity stayhumble',  
'when still annoyed tennant big finish news http t co xbtmneke time lord nintendo enthusiast film lover sandler hater tea drinker occasional ranter caterer the correct answer always moops',  
'riotlouism dcyph rayq lol fam like whilst i m ripping playstation nation european call of duty player for rifthq rezvolt stun gun xl insightt psn id revoltpls',

't tq nxcgsostpz great meet you here link new song get to know ya http t co mqmmzjnxz taward winning singer songwriter model actor book rickyjaybooking gmail com press pr r ickyjarman com i choose followback cuz every deserves feel important',

'yasirshah taken test wicket spinner first test third bowler worldclass pakvengfounder kreativekrowd phd lancastermanage cricket crowdsourcing creativity fan i write blog supply chain procurement http t co jikyia fhu',

'messy bun short short i pull up http t co zxiddbgghindigo kid never die',

'kellyfury just think spoil crap firstborn pudding may wait half year still there s positive retired police detective former wrestler now enjoying life wife joeyreyesthomas half brother asunareiko fictional character rp account',

'bickley marotta how card beat er worse seachickensunknown',

'harry style i love much mean much me i can t wait hear made in the a m i excited x i really love one direction',

'maddyrenda tell julian looking female today i others won t tomorrow i accomplish others can t jerry rice new york',

'so clearly thing unfair other this going fun evil time http t co cakhf zpythe bad as hacker in the world i emily beth kik xoemilybetts doglife fl rp',

'mistaphill tomleykis cumulusmedia last trading one medium stock green ticker out out frontmediausgame changer',

'we get level feeling fed up thats feel unknown',

'the new oracle golden gate cloud service integrates public cloud private cloud oow for oow leoff easyblogsunknown',

'negro senpai i believe adaptation change required day age i believe anarchy smirk',

'news pro golfer nail himself in the groin with shot gone horribly wrong video http t co tmbidvhxglininterests cigar brown indian buckeye politics catholicism love wife kid from steubenville oh live greenville nc attend east carolina university',

'when hairdresser asks u product normally use hair suspect saying shampoo acceptable answeri hold blue peter badge passed cycling proficiency first time winning',

'cptfussybuckets seriously struggle real treatyourfamilyunknown',

'another fun question fuck business commute adelaide i m confusedaustralian art type pianist composer creative coder training angry queer not dj',

'daniel purvis th floor paul ruggeri th vault will draggy bump final gymnastics super fan former cheerleader world s competitor packaging designer gymcastic chief fashion',

'can someone send pic ela worksheet just',

'mrpr sid nt oh definitely something definitely changed partly company swallowing pride needing moneythe rebirth thepunisher twitter s like making love know left down rotate degree engage rotor straightedge marriageequality',

'starling chrispenrice added photo pool starling morecambe bay http t co k ezmjxwdmappping geek ecologist data lover i use twitterfeed autotweet uk wildlife flickr pic i use twitter widget html expanded pic practice id',

'djrdman thats good just keep trucking slow steady win race let know get home sending huggardener animal lover nascar nut nfb when foot hit floor every morning devil say oh crap',

'just announced houston tx dec the bull s ten man jam http t co kdnvz xjafplatinum selling country music singer songwriter',

'chinkichun lool yeah he satisfied service i m slicker than your average',

'richardjixon you sir upset pfeif god replying text im going nun plan again let em see fangz',

'i need make run beauty supply in love with jermyrien est add me on sc alldolledupfyt b head strong determined motivated and ambitious',

'sitting mcdonald s deciding i get food make healthy alternative go home eat slice to ast yr old chasing dream beautiful woman side',

'olivianuzzi bpolitics try vealnational correspondent bw bpolitics infrequent columnist bostonglobe',

'hi harry style thank nice fave art even best artist draw follow me please hey angel'

'...

In [61]:

```
from sklearn.feature_extraction.text import CountVectorizer
max_features=1000
count_vectorizer=CountVectorizer(max_features=max_features,stop_words="english")

sparse_matrix=count_vectorizer.fit_transform(text_list).toarray()
print("{} most common words: {}".format(max_features,count_vectorizer.get_feature_names()))
```

1000 most common words: ['able', 'account', 'act', 'action', 'activist', 'actor', 'actually', 'add', 'addict', 'adult', 'adventure', 'advice', 'advocate', 'af', 'african', 'age', 'agent', 'ago', 'agree', 'ain', 'air', 'aka', 'album', 'alive', 'alum', 'amas',

'amazing', 'america', 'american', 'amp', 'analyst', 'angel', 'animal', 'anime', 'annoying', 'answer', 'anti', 'app', 'apparently', 'apple', 'area', 'arsenal', 'art', 'article', 'artist', 'artistoftheyear', 'ask', 'asked', 'aspiring', 'assistant', 'author', 'automatically', 'available', 'award', 'away', 'awesome', 'awkward', 'babe', 'baby', 'bacon', 'bad', 'bae', 'bag', 'ball', 'band', 'bank', 'bar', 'based', 'basically', 'basketball', 'bc', 'beach', 'bear', 'beat', 'beautiful', 'beauty', 'bed', 'beer', 'believe', 'best', 'better', 'bieber', 'big', 'biggest', 'bio', 'birthday', 'bit', 'bitch', 'black', 'blame', 'blessed', 'blog', 'blogger', 'blood', 'blue', 'board', 'body', 'bond', 'book', 'booking', 'born', 'bout', 'box', 'boy', 'boyfriend', 'brain', 'brand', 'break', 'breaking', 'bring', 'british', 'bro', 'broken', 'brother', 'brown', 'build', 'building', 'bus', 'business', 'buy', 'ca', 'cake', 'called', 'came', 'canadian', 'cancer', 'candy', 'car', 'card', 'care', 'case', 'cat', 'catch', 'cause', 'center', 'ceo', 'champion', 'chance', 'change', 'channel', 'character', 'chat', 'check', 'checked', 'cheese', 'chicago', 'chief', 'child', 'chill', 'chocolate', 'choice', 'christ', 'christian', 'church', 'city', 'class', 'click', 'close', 'clothes', 'cloud', 'club', 'coach', 'coffee', 'cold', 'college', 'color', 'com', 'come', 'comic', 'coming', 'communication', 'community', 'company', 'computer', 'concert', 'conservative', 'consultant', 'contact', 'content', 'control', 'cook', 'cool', 'copy', 'costume', 'country', 'couple', 'course', 'cover', 'crazy', 'creative', 'creator', 'credit', 'culture', 'cup', 'currently', 'cut', 'cute', 'cuz', 'da', 'dad', 'daddy', 'daily', 'damn', 'dance', 'daniel', 'dark', 'data', 'date', 'daughter', 'david', 'day', 'dead', 'deal', 'death', 'deep', 'definitely', 'deserve', 'design', 'designer', 'desk', 'developer', 'development', 'diamond', 'dick', 'did', 'die', 'died', 'difference', 'different', 'digital', 'direction', 'director', 'disney', 'dj', 'dm', 'doctor', 'dog', 'don', 'dont', 'door', 'drake', 'draw', 'dream', 'dreamer', 'dress', 'drink', 'drive', 'driving', 'drop', 'dude', 'dumb', 'early', 'earth', 'easy', 'eat', 'eating', 'ed', 'editor', 'education', 'el', 'em', 'email', 'en', 'end', 'endorsement', 'engineer', 'english', 'enjoy', 'enthusiast', 'entire', 'entrepreneur', 'episode', 'er', 'especially', 'evening', 'event', 'everybody', 'everyday', 'everydayiloveyou', 'ex', 'excited', 'experience', 'expert', 'extra', 'eye', 'face', 'facebook', 'fact', 'fair', 'faith', 'fake', 'fall', 'family', 'fan', 'fanatic', 'fantasy', 'far', 'fashion', 'fast', 'fat', 'father', 'favorite', 'fc', 'fear', 'feel', 'feeling', 'felt', 'female', 'feminist', 'fight', 'fighting', 'film', 'final', 'finally', 'fine', 'fish', 'fit', 'fitness', 'follow', 'followed', 'follower', 'following', 'food', 'foodie', 'foot', 'football', 'forever', 'forevermore', 'forget', 'form', 'forward', 'founder', 'free', 'friday', 'friend', 'fuck', 'fucking', 'fun', 'funny', 'future', 'game', 'gamer', 'gave', 'gay', 'geek', 'general', 'getting', 'gift', 'girl', 'giveaway', 'given', 'giving', 'glad', 'global', 'gmail', 'goal', 'god', 'going', 'gold', 'gon', 'gone', 'good', 'google', 'got', 'government', 'grad', 'graduate', 'graphic', 'great', 'greatest', 'green', 'group', 'grow', 'growing', 'gt', 'guess', 'guitar', 'guy', 'gym', 'ha', 'haha', 'hair', 'half', 'halloween', 'hand', 'happen', 'happened', 'happens', 'happiness', 'happy', 'hard', 'harry', 'hate', 'head', 'health', 'healthy', 'hear', 'heard', 'heart', 'hell', 'hello', 'help', 'helping', 'hero', 'hey', 'hi', 'high', 'hill', 'hip', 'history', 'hit', 'hoe', 'hold', 'home', 'honestly', 'hop', 'hope', 'host', 'hot', 'hotel', 'hour', 'house', 'http', 'huge', 'human', 'humble', 'hurt', 'husband', 'ice', 'id', 'idea', 'ig', 'ill', 'im', 'important', 'incredible', 'independent', 'industry', 'info', 'inside', 'inspiration', 'insta', 'instagram', 'instead', 'interested', 'interesting', 'international', 'internet', 'issue', 'jack', 'james', 'jesus', 'jet', 'job', 'joe', 'john', 'join', 'joke', 'journalist', 'junkie', 'just', 'justice', 'justin', 'justinbieber', 'kath', 'key', 'kid', 'kill', 'kind', 'king', 'kiss', 'knew', 'know', 'known', 'la', 'lady', 'language', 'late', 'later', 'latest', 'laugh', 'law', 'le', 'lead', 'leader', 'league', 'learn', 'learning', 'leave', 'left', 'let', 'lie', 'life', 'lifestyle', 'light', 'like', 'liked', 'lil', 'line', 'link', 'list', 'listen', 'listening', 'literally', 'little', 'live', 'living', 'll', 'lmao', 'local', 'lol', 'london', 'long', 'look', 'looked', 'looking', 'lord', 'lose', 'lost', 'lot', 'louis', 'love', 'loved', 'lovely', 'lover', 'loving', 'low', 'lt', 'lucky', 'ma', 'mad', 'major', 'make', 'maker', 'makeup', 'making', 'male', 'man', 'management', 'manager', 'marketer', 'marketing', 'married', 'master', 'matter', 'maybe', 'mean', 'meat', 'medium', 'meet', 'meeting', 'member', 'memory', 'men', 'met', 'metal', 'mi', 'michael', 'middle', 'military', 'million', 'min', 'mind', 'minute', 'miss', 'mobile', 'model', 'mom', 'moment', 'monday', 'money', 'month', 'moon', 'morning', 'mother', 'mouth', 'movie', 'mr', 'mum', 'music', 'musician', 'na', 'nap', 'nation', 'national', 'nature', 'nba', 'nd', 'need', 'nerd', 'netflix', 'network', 'new', 'news', 'nfl', 'nice', 'nigga', 'night', 'non', 'north', 'note', 'nsfw', 'number', 'ny', 'nyc', 'obsessed', 'october', 'office', 'official', 'oh', 'ok', 'okay', 'old', 'omg', 'onedirection', 'online', 'open', 'opinion', 'order', 'outside', 'owner', 'page', 'paid', 'pain', 'paper', 'parent', 'park', 'partner', 'party', 'passion', 'passionate', 'past', 'patriot', 'pay', 'peace', 'people', 'perfect', 'person', 'personal', 'phone', 'photo', 'photographer', 'photography', 'pic', 'pick', 'picture', 'piece', 'pink', 'pizza', 'place', 'plan', 'play', 'played', 'player', 'playing', 'pls', 'plus', 'pm', 'podcast', 'point', 'police', 'policy', 'political', 'politics', 'poor', 'pop', 'positive', 'possible', 'post',

'power', 'ppi', 'pr', 'practice', 'premiere', 'president', 'pretty', 'price', 'princes  
s', 'pro', 'probably', 'problem', 'producer', 'product', 'professional', 'professor',  
'project', 'proud', 'public', 'pumpkin', 'purpose', 'pushawardslizquensunknown', 'qual  
ity', 'que', 'queen', 'question', 'quote', 'radio', 'rain', 'raised', 'random', 'read'  
, 'reader', 'reading', 'ready', 'real', 'reality', 'realize', 'really', 'reason', 'rec  
ord', 'red', 'relationship', 'remember', 'report', 'reporter', 'research', 'respect',  
'rest', 'retired', 'return', 'retweets', 'review', 'rich', 'ride', 'right', 'ring', 'r  
ip', 'road', 'rock', 'roll', 'room', 'round', 'rp', 'rt', 'rule', 'run', 'runner', 'ru  
nning', 'sad', 'said', 'sale', 'saturday', 'save', 'saw', 'say', 'saying', 'sc', 'scen  
e', 'school', 'science', 'se', 'season', 'second', 'secret', 'security', 'seeing', 'se  
en', 'self', 'selling', 'send', 'senior', 'sense', 'series', 'seriously', 'service', 's  
et', 'sex', 'sexy', 'share', 'shirt', 'shit', 'short', 'shot', 'shut', 'sick', 'sign',  
'simple', 'singer', 'single', 'sister', 'sit', 'site', 'sitting', 'situation', 'size',  
'sleep', 'small', 'smile', 'snap', 'snapchat', 'soccer', 'social', 'son', 'song', 'son  
gwriter', 'soon', 'sorry', 'soul', 'sound', 'south', 'space', 'speak', 'speaker', 'spe  
cial', 'specialist', 'spectre', 'spend', 'spirit', 'sport', 'st', 'staff', 'stand', 's  
tar', 'start', 'started', 'state', 'stats', 'stay', 'step', 'stop', 'storage', 'store'  
, 'story', 'straight', 'street', 'strength', 'strong', 'struggle', 'student', 'study',  
'stuff', 'stupid', 'style', 'success', 'suck', 'sun', 'sunday', 'super', 'support', 's  
upporter', 'sure', 'sweet', 'ta', 'tag', 'taken', 'taking', 'talent', 'talk', 'talking'  
, 'tax', 'taylor', 'tea', 'teacher', 'team', 'tech', 'technology', 'teen', 'tell', 't  
elling', 'test', 'texas', 'text', 'th', 'thank', 'thanks', 'thats', 'thing', 'think',  
'thinking', 'tho', 'thought', 'ticket', 'till', 'time', 'tip', 'tired', 'today', 'told'  
, 'tomorrow', 'tonight', 'took', 'tour', 'town', 'track', 'trade', 'train', 'trainer',  
, 'training', 'transforming', 'trash', 'travel', 'tree', 'tried', 'trip', 'true', 'tru  
mp', 'trust', 'truth', 'try', 'trying', 'turn', 'turned', 'tv', 'tweet', 'tweeting', '  
twin', 'twitter', 'type', 'ugly', 'uk', 'understand', 'unfollowed', 'unfollowers', 'un  
it', 'united', 'university', 'unknown', 'update', 'ur', 'usa', 'use', 'used', 'using',  
've', 'vegan', 'vibe', 'video', 'view', 'visit', 'voice', 'vote', 'voted', 'wa', 'wait  
, 'waiting', 'wake', 'walk', 'walking', 'wall', 'wan', 'want', 'wanted', 'war', 'watc  
h', 'watched', 'watching', 'water', 'way', 'wear', 'wearing', 'weather', 'web', 'websi  
te', 'wedding', 'week', 'weekend', 'weird', 'welcome', 'went', 'west', 'white', 'wife'  
, 'wild', 'win', 'wine', 'winner', 'winning', 'winter', 'wish', 'woman', 'wonder', 'wo  
nderful', 'word', 'work', 'workbench', 'working', 'world', 'worse', 'worst', 'worth',  
'wow', 'wrestling', 'write', 'writer', 'writing', 'written', 'wrong', 'wwe', 'xx', 'ya  
, 'yeah', 'year', 'yes', 'yesterday', 'yo', 'york', 'young', 'youtube', 'youtuber', '  
yr']

## Training and Testing the Model

In [62]:

```
from sklearn.metrics import accuracy_score, confusion_matrix, precision_score, recall_
score, f1_score

# function to print individual train and test accuracy along with classification repor
t and confusion matrix
def print_score(clf, X_train, Y_train, X_test, Y_test, train=True):
    if train:
        pred = clf.predict(X_train)
        print("Train Result:\n=====")
        print(f"Accuracy Score: {accuracy_score(Y_train, pred) * 100:.2f}%")
        print("_____")
        print("Classification Report:", end='')
        print(f"\tPrecision Score: {precision_score(Y_train, pred) * 100:.2f}%")
        print(f"\t\t\tRecall Score: {recall_score(Y_train, pred) * 100:.2f}%")
        print(f"\t\t\tF1 score: {f1_score(Y_train, pred) * 100:.2f}%")
        print("_____")
        print(f"Confusion Matrix: \n {confusion_matrix(Y_train, pred)}\n")

    elif train==False:
        pred = clf.predict(X_test)
        print("Test Result:\n=====")

        print(f"Accuracy Score: {accuracy_score(Y_test, pred) * 100:.2f}%")
        print("_____")
        print("Classification Report:", end='')
        print(f"\tPrecision Score: {precision_score(Y_test, pred) * 100:.2f}%")
        print(f"\t\t\tRecall Score: {recall_score(Y_test, pred) * 100:.2f}%")
```

```
print(f"\t\t\tF1 score: {f1_score(Y_test, pred) * 100:.2f}%")
print("_____")
print(f"Confusion Matrix: \n {confusion_matrix(Y_test, pred)}\n")
```

In [63]:

```
y=df.iloc[:,0].values# male or females classes
x=sparse_matrix
#train test split
from sklearn.model_selection import train_test_split
X_train, X_test, Y_train, Y_test=train_test_split(x,y,test_size=0.1,random_state=42)
#naive bayes
from sklearn.naive_bayes import GaussianNB
nb=GaussianNB()
nb.fit(X_train,Y_train)
#predict
Y_pred=nb.predict(X_test)
print("accuracy nlp: ",nb.score(Y_pred.reshape(-1,1),Y_test))
from sklearn.metrics import classification_report, confusion_matrix
print (classification_report(Y_test, Y_pred))
#evaluation
```

```
accuracy nlp: 0.5221789883268483
              precision    recall  f1-score   support

    0         0.61         0.52         0.56         614
    1         0.61         0.69         0.65         671

 accuracy
macro avg         0.61         0.61         0.61         1285
weighted avg         0.61         0.61         0.61         1285
```

## Accuracy

In [64]:

```
# calling the print_score function
print_score(nb, X_train, Y_train, X_test, Y_test, train=True)
print_score(nb, X_train, Y_train, X_test, Y_test, train=False)
```

```
Train Result:
=====
Accuracy Score: 66.96%
```

```
Classification Report: Precision Score: 66.23%
Recall Score: 74.33%
F1 score: 70.05%
```

```
Confusion Matrix:
[[3275 2278]
 [1543 4468]]
```

```
Test Result:
=====
Accuracy Score: 61.25%
```

```
Classification Report: Precision Score: 61.43%
Recall Score: 69.30%
F1 score: 65.13%
```

```
Confusion Matrix:
[[322 292]
 [206 465]]
```

In [65]:

```
test_score = accuracy_score(Y_test, nb.predict(X_test)) * 100
```

```
train_score = accuracy_score(Y_train, nb.predict(X_train)) * 100

results_df = pd.DataFrame(data=["Natural Language Processing", train_score, test_score],
                           columns=['Model', 'Training Accuracy %', 'Testing Accuracy %'])
results_df
```

Out[65]:

|   | Model                       | Training Accuracy % | Testing Accuracy % |
|---|-----------------------------|---------------------|--------------------|
| 0 | Natural Language Processing | 66.9578             | 61.245136          |

## Random Forest

In [66]:

```
from sklearn.ensemble import RandomForestClassifier
rfc = RandomForestClassifier()
# training on the same model as NLP on training data
rfc.fit(X_train, Y_train)
```

Out[66]:

```
RandomForestClassifier(bootstrap=True, ccp_alpha=0.0, class_weight=None,
                       criterion='gini', max_depth=None, max_features='auto',
                       max_leaf_nodes=None, max_samples=None,
                       min_impurity_decrease=0.0, min_impurity_split=None,
                       min_samples_leaf=1, min_samples_split=2,
                       min_weight_fraction_leaf=0.0, n_estimators=100,
                       n_jobs=None, oob_score=False, random_state=None,
                       verbose=0, warm_start=False)
```

In [67]:

```
y_pred = rfc.predict(X_test)
#predict
from sklearn.metrics import classification_report, confusion_matrix
print (classification_report(Y_test, y_pred))
#evaluation
```

|              | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0            | 0.62      | 0.62   | 0.62     | 614     |
| 1            | 0.65      | 0.65   | 0.65     | 671     |
| accuracy     |           |        | 0.64     | 1285    |
| macro avg    | 0.64      | 0.64   | 0.64     | 1285    |
| weighted avg | 0.64      | 0.64   | 0.64     | 1285    |

## Accuracy

In [68]:

```
# call the print_score function
print_score(rfc, X_train, Y_train, X_test, Y_test, train=True)
print_score(rfc, X_train, Y_train, X_test, Y_test, train=False)
```

Train Result:

```
=====
Accuracy Score: 98.48%
```

```
-----
Classification Report: Precision Score: 97.88%
                      Recall Score: 99.22%
                      F1 score: 98.55%
```



---

Confusion Matrix:

```
[[5424 129]
 [ 47 5964]]
```

Test Result:

=====

Accuracy Score: 63.58%

---

Classification Report: Precision Score: 65.13%

Recall Score: 65.13%

F1 score: 65.13%

---

Confusion Matrix:

```
[[380 234]
 [234 437]]
```

In [69]:

```
test_score = accuracy_score(Y_test, rfc.predict(X_test)) * 100
train_score = accuracy_score(Y_train, rfc.predict(X_train)) * 100

new_row = {'Model': "Random Forest", 'Training Accuracy %': train_score, 'Testing Accuracy %': test_score}
results_df = results_df.append(new_row, ignore_index = True)
#appending to the dataframe to compare the accuracy
```

In [70]:

```
results_df
```

Out[70]:

|   | Model                       | Training Accuracy % | Testing Accuracy % |
|---|-----------------------------|---------------------|--------------------|
| 0 | Natural Language Processing | 66.957800           | 61.245136          |
| 1 | Random Forest               | 98.478035           | 63.579767          |

## LOGISTIC REGRESSION

In [71]:

```
import pandas as pd
```

In [72]:

```
df=pd.read_csv('Information.csv', encoding = "ISO-8859-1")
#df contains the file information which is in csv format
```

In [73]:

```
df['gender_gold'].isnull().sum()
#gives the total number of NaN values for the specified index
```

Out[73]:

20000

In [74]:

```
df.dropna(subset=['gender', 'gender:confidence'], how='any', inplace=True)
#drops the rows with NaN values for the specified indices
```

In [75]:

```
df.drop(df[df['gender']=='brand'].index, inplace=True)
```

```
df.drop(df[df['gender']=='unknown'].index,inplace=True)
```

In [76]:

```
df['tweet_coord'].isnull().sum()
```

Out[76]:

```
12816
```

In [77]:

```
df.drop(['tweet_coord','gender_gold', 'profile_yn_gold'], axis=1, inplace=True)
```

In [78]:

```
df['tweet_location'].fillna(value='unknown', inplace=True)
df['user_timezone'].fillna(value='unknown', inplace=True)
#to fill the NaN values for the specified indices with "unknown"
```

In [79]:

```
df['description'].fillna(value='Unknown',inplace=True)
df['_last_judgment_at'].fillna(value='Unknown',inplace=True)
```

In [80]:

```
df.set_index('_unit_id',inplace=True)
```

In [81]:

```
df['profile_yn'].unique() #no need to consider this as feature because its univalued
```

Out[81]:

```
array(['yes'], dtype=object)
```

In [82]:

```
from sklearn.preprocessing import LabelEncoder

label_encoder=LabelEncoder()

df['profile_yn']=label_encoder.fit_transform(df['profile_yn'])
```

In [83]:

```
df['_unit_state'].unique() #no need to consider this as feature because its univalued
```

Out[83]:

```
array(['finalized', 'golden'], dtype=object)
```

In [84]:

```
df['_golden'].unique() #no need to consider this as feature because its univalued
```

Out[84]:

```
array([False,  True])
```

In [85]:

```
df['gender']=label_encoder.fit_transform(df['gender'])
df['_unit_state']=label_encoder.fit_transform(df['_unit_state'])
df['_golden']=label_encoder.fit_transform(df['_golden'])
```

In [86]:

```
df.head()
```

Out[86]:

|           | _golden | _unit_state | _trusted_judgments | _last_judgment_at | gender | gender:confidence | profile_yn | profile_yn:c |
|-----------|---------|-------------|--------------------|-------------------|--------|-------------------|------------|--------------|
| _unit_id  |         |             |                    |                   |        |                   |            |              |
| 815719226 | 0       | 0           | 3                  | 10/26/15 23:24    | 1      | 1.0000            | 0          |              |
| 815719227 | 0       | 0           | 3                  | 10/26/15 23:30    | 1      | 1.0000            | 0          |              |
| 815719228 | 0       | 0           | 3                  | 10/26/15 23:33    | 1      | 0.6625            | 0          |              |
| 815719229 | 0       | 0           | 3                  | 10/26/15 23:10    | 1      | 1.0000            | 0          |              |
| 815719230 | 0       | 0           | 3                  | 10/27/15 1:15     | 0      | 1.0000            | 0          |              |

5 rows x 22 columns



In [87]:

```
#gender_confidence
#retweet_count
#Are the 2 features taken into consideration
```

In [88]:

```
df.drop(['_trusted_judgments', '_golden', '_unit_state', 'profile_yn'], axis=1)
```

Out[88]:

|           | _last_judgment_at | gender | gender:confidence | profile_yn:confidence | created        | description                                       | fav_number |
|-----------|-------------------|--------|-------------------|-----------------------|----------------|---|------------|
| _unit_id  |                   |        |                   |                       |                |   |            |
| 815719226 | 10/26/15 23:24    | 1      | 1.0000            | 1.0                   | 12/5/13 1:48   | i sing my own rhythm.                             | 0          |
| 815719227 | 10/26/15 23:30    | 1      | 1.0000            | 1.0                   | 10/1/12 13:51  | I'm the author of novels filled with family dr... | 68         |
| 815719228 | 10/26/15 23:33    | 1      | 0.6625            | 1.0                   | 11/28/14 11:30 | louis whining and squealing and all               | 7696       |
| 815719229 | 10/26/15 23:10    | 1      | 1.0000            | 1.0                   | 6/11/09 22:39  | Mobile guy. 49ers, Shazam, Google, Kleiner Pe...  | 202        |
| 815719230 | 10/27/15 1:15     | 0      | 1.0000            | 1.0                   | 4/16/14 13:23  | Ricky Wilson The Best FRONTMAN/Kaiser Chiefs T... | 37318      |

| ...       | ...               | ...    | ...               | ...                   | ...              | ... | ...   | ...        |
|-----------|-------------------|--------|-------------------|-----------------------|------------------|-----|---|------------|
|           | _last_judgment_at | gender | gender:confidence | profile_yn:confidence | created          |     | description   | fav_number |
| 815757670 | Unknown           | 0      | 1.0000            | 1.0                   | 8/5/15<br>21:16  |     | (rp)  | 302        |
| 815757681 | Unknown           | 1      | 1.0000            | 1.0                   | 8/15/12<br>21:17 |     | Whatever you like,<br>it's not a problem<br>at all. ... | 2513       |
| 815757830 | Unknown           | 1      | 1.0000            | 1.0                   | 9/3/12<br>1:17   |     | #TeamBarcelona<br>..You look lost so<br>you should f... | 50         |
| 815757921 | Unknown           | 0      | 0.8489            | 1.0                   | 11/6/12<br>23:46 |     | Anti-statist; I<br>homeschool my<br>kids. Aspiring t... | 70804      |
| 815757985 | Unknown           | 0      | 1.0000            | 1.0                   | 4/14/14<br>17:22 |     | Teamwork makes<br>the dream work.                       | 3348       |

12894 rows x 18 columns

In [89]:

```
import pandas as pd
import pylab as pl
import numpy as np
import scipy.optimize as opt
from sklearn import preprocessing
%matplotlib inline
import matplotlib.pyplot as plt
```

In [90]:

```
X = np.asarray(df[['gender:confidence', 'retweet_count']])
X[0:5]
```

Out[90]:

```
array([[1.      , 0.      ],
       [1.      , 0.      ],
       [0.6625, 1.      ],
       [1.      , 0.      ],
       [1.      , 0.      ]])
```

In [91]:

```
y = np.asarray(df['gender'])
y [0:5]
```

Out[91]:

```
array([1, 1, 1, 1, 0])
```

In [92]:

```
from sklearn import preprocessing
X = preprocessing.StandardScaler().fit(X).transform(X)
X[0:5]
```

Out[92]:

```
array([[ 0.50697159, -0.04395904],
       [ 0.50697159, -0.04395904],
       [-1.53369911,  0.61206864],
       [ 0.50697159, -0.04395904],
       [ 0.50697159, -0.04395904]])
```

In [93]:

```
#we split our dataset into train and test set
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split( X, y, test_size=0.2, random_state=4)
print ('Train set:', X_train.shape,  y_train.shape)
print ('Test set:', X_test.shape,  y_test.shape)
```

```
Train set: (10315, 2) (10315,)
Test set: (2579, 2) (2579,)
```

## Modeling (Logistic Regression with Scikit-learn)

Lets build our model using LogisticRegression from Scikit-learn package. This function implements logistic regression and can use different numerical optimizers to find parameters, including 'newton-cg', 'lbfgs', 'liblinear', 'sag', 'saga' solvers. You can find extensive information about the pros and cons of these optimizers if you search it in internet.

The version of Logistic Regression in Scikit-learn, support regularization. Regularization is a technique used to solve the overfitting problem in machine learning models. C parameter indicates inverse of regularization strength which must be a positive float. Smaller values specify stronger regularization. Now lets fit our model with train set:

In [94]:

```
#Modeling (Logistic Regression with Scikit-learn)
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import confusion_matrix
LR = LogisticRegression(C=0.01, solver='liblinear').fit(X_train,y_train)
LR
```

Out[94]:

```
LogisticRegression(C=0.01, class_weight=None, dual=False, fit_intercept=True,
                    intercept_scaling=1, l1_ratio=None, max_iter=100,
                    multi_class='auto', n_jobs=None, penalty='l2',
                    random_state=None, solver='liblinear', tol=0.0001, verbose=0,
                    warm_start=False)
```

In [95]:

```
y_pred = LR.predict(X_test)
y_pred
```

Out[95]:

```
array([1, 1, 0, ..., 0, 0, 0])
```

In [96]:

```
yhat_prob = LR.predict_proba(X_test)
yhat_prob
#predict_proba returns estimates for all classes, ordered by the label of classes. So,
the first column is
#the probability of class 1,  $P(Y=1|X)$ , and second column is probability of class 0,  $P(Y=0|X)$ :
```

Out[96]:

```
array([[0.47899568, 0.52100432],
       [0.48159238, 0.51840762],
       [0.52749855, 0.47250145],
       ...,
       [0.53408576, 0.46591424],
       [0.53408576, 0.46591424],
       [0.53408576, 0.46591424]])
```

In [97]:

```
#Evaluation
#jaccard index
#If the entire set of predicted labels for a sample strictly match
#with the true set of labels, then the subset accuracy is 1.0; otherwise it is 0.0.
from sklearn.metrics import jaccard_similarity_score
jaccard_similarity_score(y_test, y_pred)
```

C:\Users\vaishnavi\anaconda3\lib\site-packages\sklearn\metrics\\_classification.py:664: FutureWarning: jaccard\_similarity\_score has been deprecated and replaced with jaccard\_score. It will be removed in version 0.23. This implementation has surprising behavior for binary and multiclass classification tasks.  
FutureWarning)

Out[97]:

0.5494377665761924

In [98]:

```
LR.score(X_test,y_test) #The accuracy for Lofistic Regression is 54.94% ie 55%
```

Out[98]:

0.5494377665761924

In [99]:

```
#confusion matrix
#Another way of looking at accuracy of classifier is to look at confusion matrix
from sklearn.metrics import classification_report, confusion_matrix
import itertools
def plot_confusion_matrix(cm, classes,
                           normalize=False,
                           title='Confusion matrix',
                           cmap=plt.cm.Blues):
    """
    This function prints and plots the confusion matrix.
    Normalization can be applied by setting `normalize=True`.
    """
    if normalize:
        cm = cm.astype('float') / cm.sum(axis=1)[:, np.newaxis]
        print("Normalized confusion matrix")
    else:
        print('Confusion matrix, without normalization')

    print(cm)

    plt.imshow(cm, interpolation='nearest', cmap=cmap)
    plt.title(title)
    plt.colorbar()
    tick_marks = np.arange(len(classes))
    plt.xticks(tick_marks, classes, rotation=45)
    plt.yticks(tick_marks, classes)

    fmt = '.2f' if normalize else 'd'
    thresh = cm.max() / 2.
    for i, j in itertools.product(range(cm.shape[0]), range(cm.shape[1])):
        plt.text(j, i, format(cm[i, j], fmt),
                 horizontalalignment="center",
                 color="white" if cm[i, j] > thresh else "black")

    plt.tight_layout()
    plt.ylabel('True label')
    plt.xlabel('Predicted label')
print(confusion_matrix(y_test, y_pred, labels=[1,0]))
```

```
[[ 340  912]
 [ 250 1077]]
```

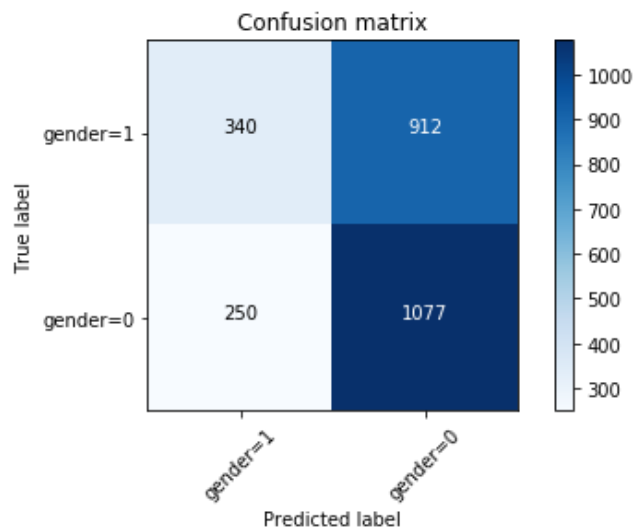
In [100]:

```
# Compute confusion matrix
cnf_matrix = confusion_matrix(y_test, y_pred, labels=[1,0])
np.set_printoptions(precision=2)

# Plot non-normalized confusion matrix
plt.figure()
plot_confusion_matrix(cnf_matrix, classes=['gender=1','gender=0'],normalize= False,  title='Confusion matrix')
```

Confusion matrix, without normalization

```
[[ 340  912]
 [ 250 1077]]
```



In [101]:

```
print (classification_report(y_test, y_pred))
```

|              | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0            | 0.54      | 0.81   | 0.65     | 1327    |
| 1            | 0.58      | 0.27   | 0.37     | 1252    |
| accuracy     |           |        | 0.55     | 2579    |
| macro avg    | 0.56      | 0.54   | 0.51     | 2579    |
| weighted avg | 0.56      | 0.55   | 0.51     | 2579    |

## To implement Logistic Regression without sklearn

```
class LogisticRegression: def init(self, lr=0.01, num_iter=100000, fit_intercept=True, verbose=False): self.lr = lr self.num_iter = num_iter self.fit_intercept = fit_intercept self.verbose = verbose
```

```
def __add_intercept(self, X):
    intercept = np.ones((X.shape[0], 1))
    return np.concatenate((intercept, X), axis=1)

def __sigmoid(self, z):
    return 1 / (1 + np.exp(-z))

def __loss(self, h, y):
    return (-y * np.log(h) - (1 - y) * np.log(1 - h)).mean()

def fit(self, X, y):
    if self.fit_intercept:
        X = self.__add_intercept(X)

    # weights initialization
```

```

self.theta = np.zeros(X.shape[1])

for i in range(self.num_iter):
    z = np.dot(X, self.theta)
    h = self.__sigmoid(z)
    gradient = np.dot(X.T, (h - y)) / y.size
    self.theta -= self.lr * gradient

    z = np.dot(X, self.theta)
    h = self.__sigmoid(z)
    loss = self.__loss(h, y)

    if(self.verbose ==True and i % 10000 == 0):
        print(f'loss: {loss} \t')

def predict_prob(self, X):
    if self.fit_intercept:
        X = self.__add_intercept(X)

    return self.__sigmoid(np.dot(X, self.theta))

def predict(self, X):
    return self.predict_prob(X).round()

```

## Modeling and prediction

```
model = LogisticRegression(lr=0.1, num_iter=300000) %time model.fit(X, y)
```

```
preds = model.predict(X) (preds == y).mean() model.theta
```

In [102]:

```

test_score = accuracy_score(y_test, LR.predict(X_test)) * 100
train_score = accuracy_score(y_train, LR.predict(X_train)) * 100

new_row2 = {'Model':"Logistic Regression", 'Training Accuracy %':train_score, 'Testing A
ccuracy %': test_score}
results_df = results_df.append(new_row2, ignore_index = True)
#appending to the dataframe to compare the accuracy

```

In [103]:

```
results_df
```

Out[103]:

|   | Model                       | Training Accuracy % | Testing Accuracy % |
|---|-----------------------------|---------------------|--------------------|
| 0 | Natural Language Processing | 66.957800           | 61.245136          |
| 1 | Random Forest               | 98.478035           | 63.579767          |
| 2 | Logistic Regression         | 53.339796           | 54.943777          |

***So, among the 3 classification algorithms used above, it is observed that Random Forest model gives 63% accuracy followed by and NLP (61%) and Logistic Regression (55%)***

In [ ]: