## act\_report

January 30, 2019

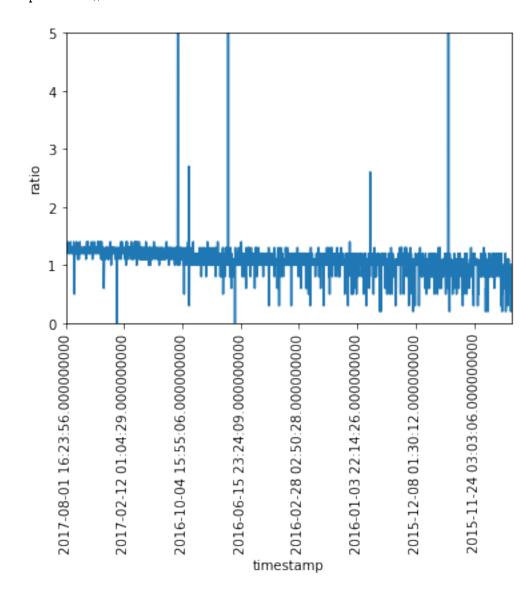
## 1 Analysis

dog\_stage

```
In [1]: import pandas as pd
        import matplotlib.pyplot as plt
In [2]: twitr_clean_df=pd.read_csv('/home/workspace/image_predctns/twitter_archive_master.csv')
In [3]: twitr_clean_df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1916 entries, 0 to 1915
Data columns (total 25 columns):
Unnamed: 0
                          1916 non-null int64
tweet_id
                          1916 non-null int64
in_reply_to_status_id
                          1916 non-null float64
                          1916 non-null float64
in_reply_to_user_id
                          1916 non-null object
timestamp
source
                          1916 non-null object
                          1916 non-null object
text
expanded_urls
                          1916 non-null object
                          1916 non-null int64
rating_numerator
rating_denominator
                          1916 non-null int64
                          1916 non-null object
name
retweets
                          1916 non-null float64
                          1916 non-null float64
favourites
jpg_url
                          1916 non-null object
                          1916 non-null float64
img_num
р1
                          1916 non-null object
p1_conf
                          1916 non-null float64
                          1916 non-null bool
p1_dog
                          1916 non-null object
p2
                          1916 non-null float64
p2_conf
p2_dog
                          1916 non-null bool
                          1916 non-null object
рЗ
                          1916 non-null float64
p3_conf
                          1916 non-null bool
p3_dog
```

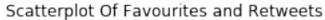
1916 non-null object

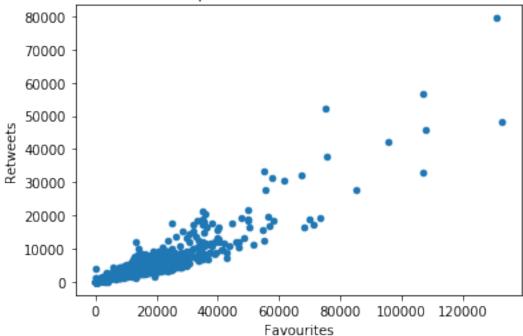
```
dtypes: bool(3), float64(8), int64(4), object(10)
memory usage: 335.0+ KB
In [4]: twitr_ana_df=twitr_clean_df[['timestamp','rating_numerator','rating_denominator',
                                      'retweets', 'favourites']].copy()
        twitr_ana_df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1916 entries, 0 to 1915
Data columns (total 5 columns):
timestamp
                      1916 non-null object
rating_numerator
                      1916 non-null int64
                      1916 non-null int64
rating_denominator
retweets
                      1916 non-null float64
                      1916 non-null float64
favourites
dtypes: float64(2), int64(2), object(1)
memory usage: 74.9+ KB
In []:
In [5]: twitr_ana_df['rating_obtained']=twitr_ana_df['rating_numerator']/twitr_ana_df['rating_de
        twitr_ana_df.rating_obtained.value_counts()
Out[5]: 1.0
                 615
        1.2
                 437
        1.1
                 381
        1.3
                 257
        0.8
                  93
        1.4
                  34
        0.5
                  33
        0.6
                  32
        0.3
                  18
        0.2
                   9
                   2
        0.0
        2.6
                   1
        2.7
                   1
        177.6
                   1
        42.0
                   1
        7.5
                   1
        Name: rating_obtained, dtype: int64
In [6]: # set the timestamp as index to get the time display in plots against
        # the rating obtained
        twitr_ana_df.set_index(twitr_ana_df['timestamp'],inplace=True)
```



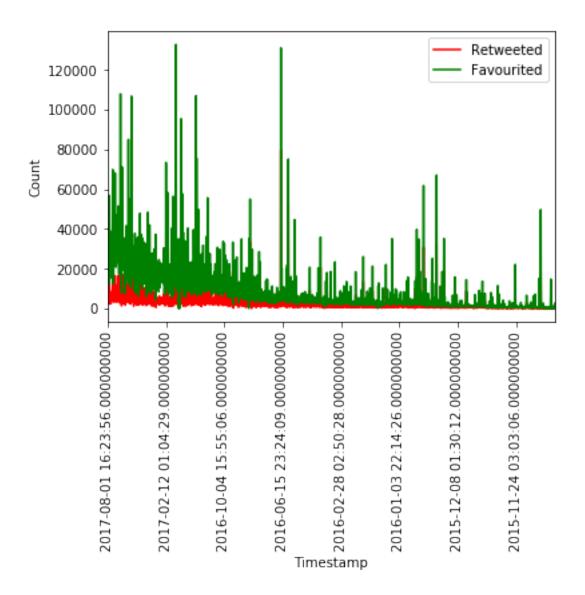
So now we see that the ratings are mostly ranging around from 0 to 1 except for few occassions where the rating happened exorbitantly high by few users. Maybe they were extremely happy or so and did that.

```
plt.title('Scatterplot Of Favourites and Retweets')
plt.show()
```





The scatter plot shows that the retweets and favourites have strong positive correlation, meaning if a tweet is liked then it is most likely that it will be retweeted too.



We can see that the favourited numbers are generally more than the retweets.

In [ ]: