act_report

April 13, 2018

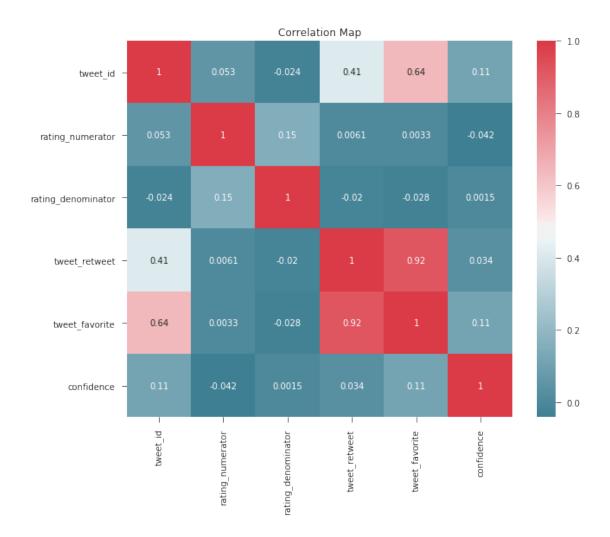
0.1 Analyzing, and Visualizing Data

WeRateDogs dateset after wrangling...By Prasad Kintali

```
In [1]: import matplotlib
        import matplotlib.pyplot as plt
        import pandas as pd
        import datetime as dt
        import seaborn as sns; sns.set(style="ticks", color_codes=True)
        import numpy as np
        %matplotlib inline
In [2]: WeRateDogs_master = pd.read_csv('twitter_archive_master.csv')
In [3]: WeRateDogs_master.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2174 entries, 0 to 2173
Data columns (total 15 columns):
tweet id
                      2174 non-null int64
tweet_time
                      2174 non-null object
tweet_source
                     2174 non-null object
tweet_text
                      2174 non-null object
                      2174 non-null object
tweet_url
                     2174 non-null float64
rating_numerator
                     2174 non-null int64
rating_denominator
dog_name
                      2174 non-null object
                      1994 non-null object
jpg_url
                      1420 non-null float64
tweet_retweet
                      1420 non-null float64
tweet_favorite
dog_type
                      367 non-null object
dog_gender
                      901 non-null object
                      1686 non-null object
predictions
                      2174 non-null float64
confidence
dtypes: float64(4), int64(2), object(9)
memory usage: 254.8+ KB
```

```
In [4]: ### Change the datatypes of some of the columns
        WeRateDogs_master['tweet_time'] = pd.to_datetime(WeRateDogs_master['tweet_time'])
        WeRateDogs_master['dog_gender'] = WeRateDogs_master['dog_gender'].astype('category')
In [5]: WeRateDogs_master.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2174 entries, 0 to 2173
Data columns (total 15 columns):
tweet_id
                      2174 non-null int64
                      2174 non-null datetime64[ns]
tweet_time
                      2174 non-null object
tweet_source
                      2174 non-null object
tweet_text
                      2174 non-null object
tweet_url
                      2174 non-null float64
rating_numerator
                      2174 non-null int64
rating_denominator
                      2174 non-null object
dog_name
jpg_url
                      1994 non-null object
                      1420 non-null float64
tweet_retweet
tweet_favorite
                      1420 non-null float64
                      367 non-null object
dog_type
dog_gender
                      901 non-null category
predictions
                      1686 non-null object
                      2174 non-null float64
confidence
dtypes: category(1), datetime64[ns](1), float64(4), int64(2), object(7)
memory usage: 240.1+ KB
```

0.1.1 Plot correlation between some of the variable in the dataset

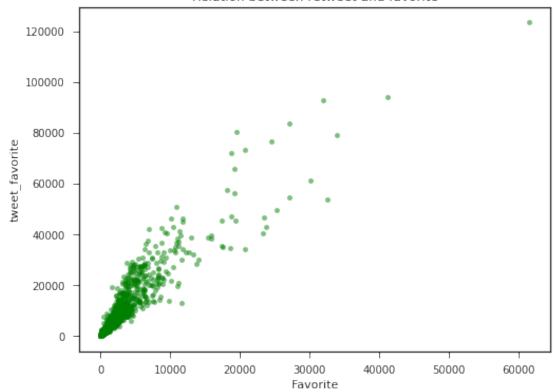


- The only strong correlation we see here is between tweet_favorites and tweet_retweet, this is normal (more favorites mean more retweets)
- Ignore the correlation 1, bacause it is the correlation between the same field

Let dig more into the relation between tweet_favorites and tweet_retweet

0.1.2 Retweet and Favorites

Relation between retweet and favorite



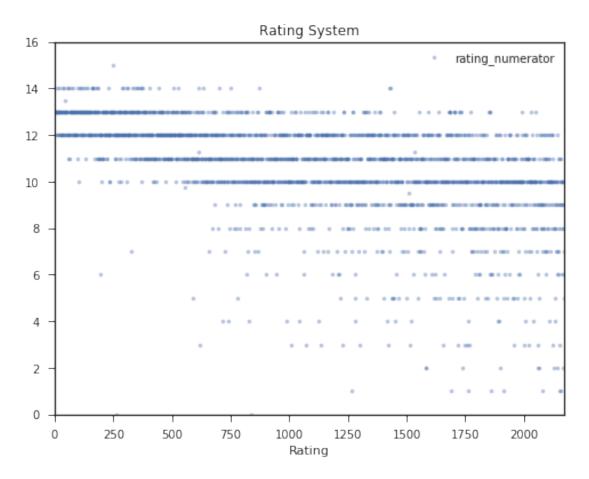
As the correlation map shows if the count of retweet is high the count of favorites go high

Also I would like to show here the tweet with maximimum retweet and favorite counts

0.1.3 Rating

```
In [10]: WeRateDogs_master.plot(y= 'rating_numerator', ylim=[0,16], style = '.', alpha = .4, fi
    plt.xlabel('Retweet')
    plt.xlabel('Rating')
    plt.title('Rating System')
```

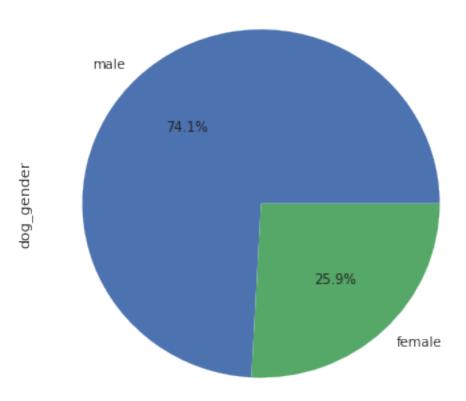
Out[10]: Text(0.5,1,'Rating System')



0.1.4 Dog Genders

Out[11]: Text(0.5,1,'Dogs gender')

Dogs gender



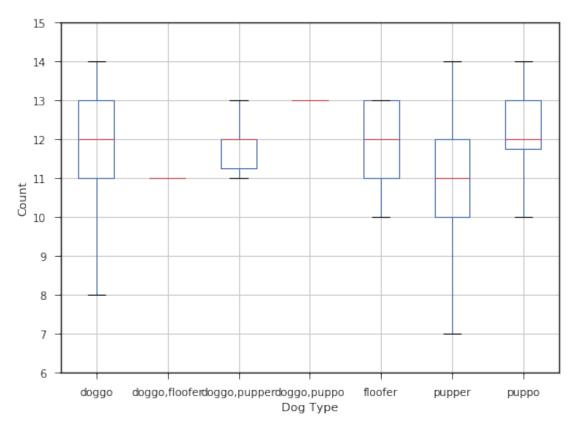
According the above anlysis, we have 74% male dogs, where as we have only 26% of female dogs. But the average rating for the female dogs are above than the male dogs.

0.1.5 Famous dog Stages

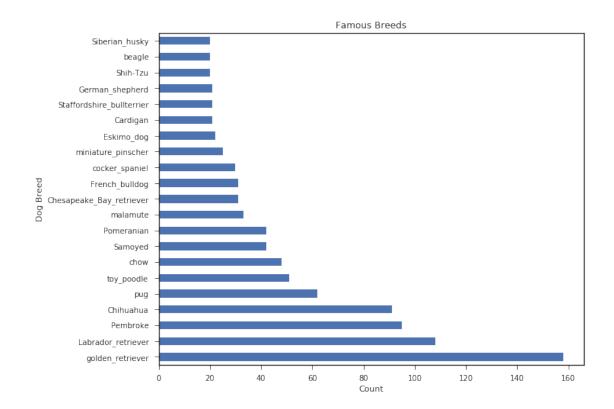
/opt/conda/lib/python3.6/site-packages/numpy/core/fromnumeric.py:57: FutureWarning: reshape is of
return getattr(obj, method)(*args, **kwds)

Out[13]: Text(0,0.5,'Count')

Boxplot grouped by dog_type



0.1.6 Famous Breeds



• Top two famous breeds are : Golden_retriver and Labrador_retriver according to a meural network that can classify breeds of dogs

0.2 Conclusion

The Twitter account WeRateDogs (@dog_rates) is devoted to humorously reviewing pictures of dogs doing adorable poses. Dogs are rated on a scale of one to ten, but are invariably given ratings in excess of the maximum, such as "13/10". It has acquired over 4.50 million followers since its debut.

If you are thinking of adopting a dog, get a floof(er) - far away from being pupper at least still in the stage of puppo yet not a doggo to live more togother - take pictures, send it to @dog_rates and get funny cute comments with high rates:)