In this project I had to gather, assess, clean and analyze a dataset of tweets about dogs, breeds, their names, scores and number of retweets and favorites. This dataset consisted of three data sets:

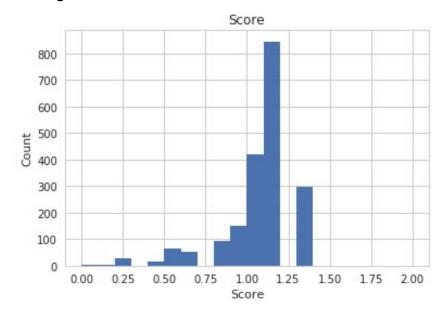
- 1. tweeter archive, provided by Udacity. I had to read that csv file by pd.read_csv()
- 2. tweeter dog's ranking and image prediction dataset. The url with the file was provided by Udacity, I had to gather it by using Python request library
- 3. To query Twitter Api using tweepy library to collect extended archive with data about number of retweets and favorites. This one I querried using list of tweet_id extracted from the first archive and the code, provided by Udacity, saved to tweet_json.txt and then read line by line into dataframe.

The average tweet text looks like:

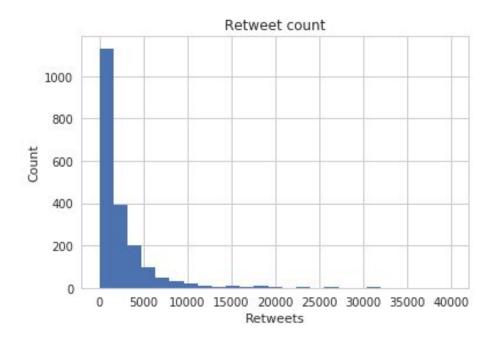
```
df_tweepy.full_text[0]
]: "This is Phineas. He's a mystical boy. Only ever appears in the hole of a donut. 13/10 https://t.co/MgUWQ76dJU"
```

After gathering, assessing and cleaning the three datasets, I've made next conclusions and visualizations:

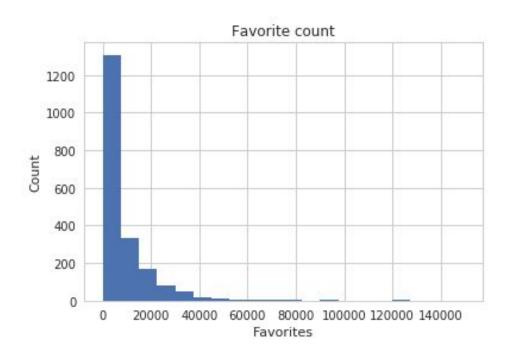
- histogram of scores distribution



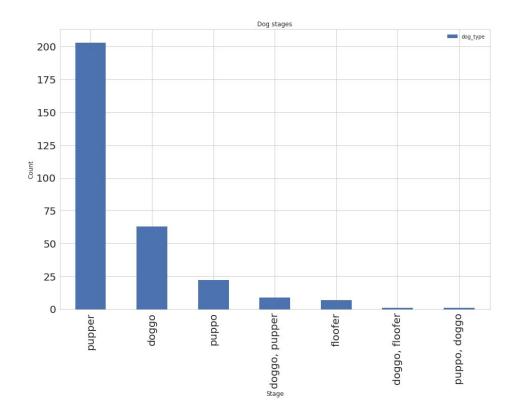
- histogram of retweets count distribution



- histogram of favorite count distribution

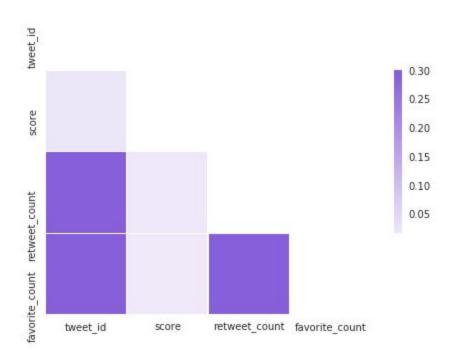


- bar chart of dog stages distribution



- heatmap of correlation between retweet counts, favorite counts, scores

Correlation Matrix



- as we see there is very strong 0.93 correlation between `retweet_count` and `favorite_count`, which makes sense
- there is almost no correlation between `retweet_count' and the `score`
- there is almost no correlation between 'favorite_count' and the 'score'
- the most 5 popular dog names are:

Lucy 9
Cooper 9
Oliver 8
Tucker 8
Penny 8

- the most 5 popular breeds are:

golden_retriever 139
Labrador_retriever 95
Pembroke 88
Chihuahua 79
pug 54

Which is true as retriever is considered everywhere as the most popular dog in US.

- the most popular dog stages are:

pupper 203 doggo 73 puppo 23 floofer 7

As we see, we have only 306 stages identified with 1975 unidentified which means the actual result could be different

- Score:
 - the distribution of scores is left skewed.
 - The range is from 0 till 1.5,
- the mean is 1.17 and mode is between 1 and 1.25
- Retweet_count:
- the distribution is significantly right skewed with few outlier which significantly affected the mean.
 - range is from 12 to 83 604
 - mean is 2 649 and mode is in range 0-1000
 - 75% is 3032

- Favorite_count:
- the distribution is significantly right skewed with few outlier which significantly affected the mean.
- range is from 78 to 164 220
- mean is 8724 and mode is in range 0-5000
- 75% is 10880

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