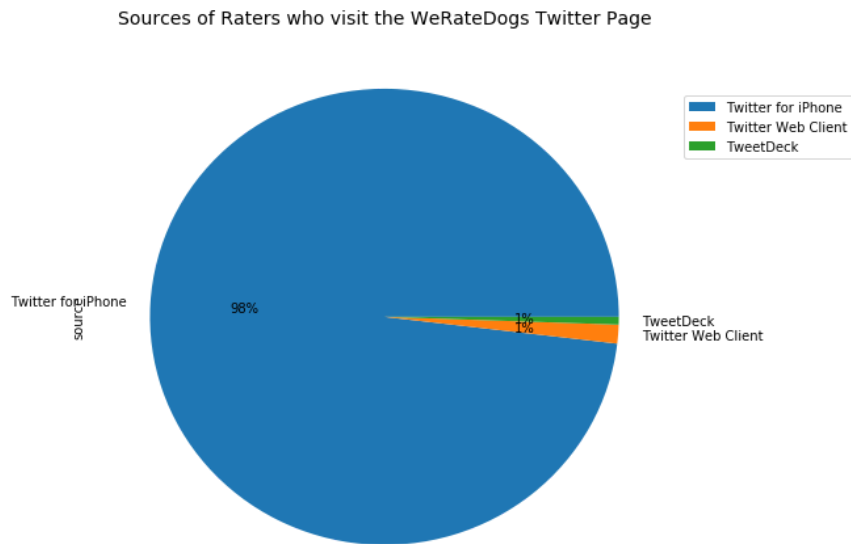# Report: WeRateDogs Project

 WeRateDogs is a twitter page that rates people's dogs all over the social media network. They typically rate dogs by grading them over 10 and leaving some comments which could be funny, catchy or simply squeezing the moment in the pictures! Here is their official twitter Page

- ➢ The twitter archive data contains various information like ratings scores, device sources, replies, dog name, dog stage/category, etc. It contains 2356 rows and 17 columns from which we carry out our analysis.

- ➢ The Image prediction file is a tsv format with unique image links posted by the twitter handle. It houses information such as predictions whether an image is a dog, the dog breed, and confidence intervals of such predictions.

- ➢ The third dataset is from the twitter API based on request approvals to access the API. I used the alternative json file provided as my request for access was unsuccessful. The file houses different data, however, we retrieved the favorite and retweet counts of different visitors on each dog posted.

- ➢ These three data sources were individually cleaned and merged using a common key(tweet_id) to give the final twitter archive data (final_archive_data.csv) used for exploratory analysis.
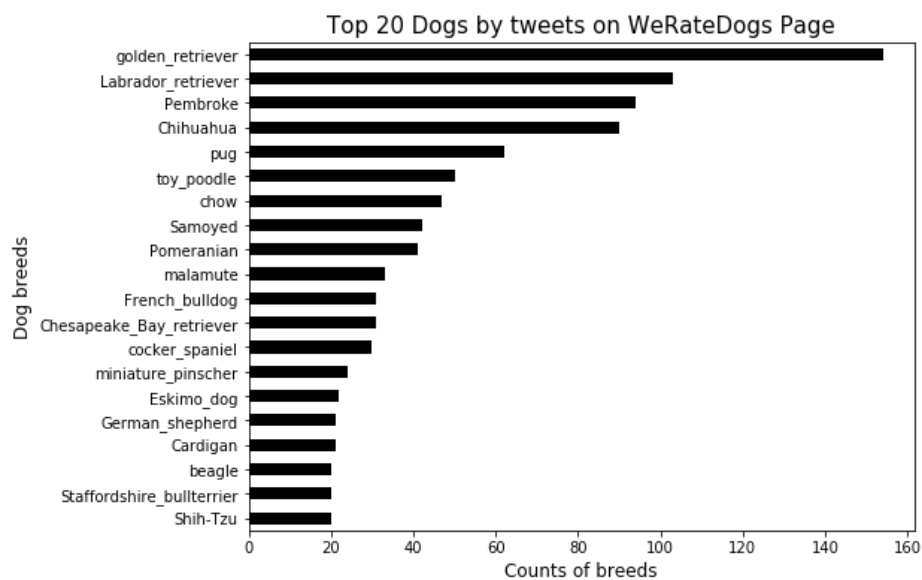
From the exploratory analysis, the following questions were answered:

1) **What are the sources of people who come to rate dogs on WeRateDogs Page?**

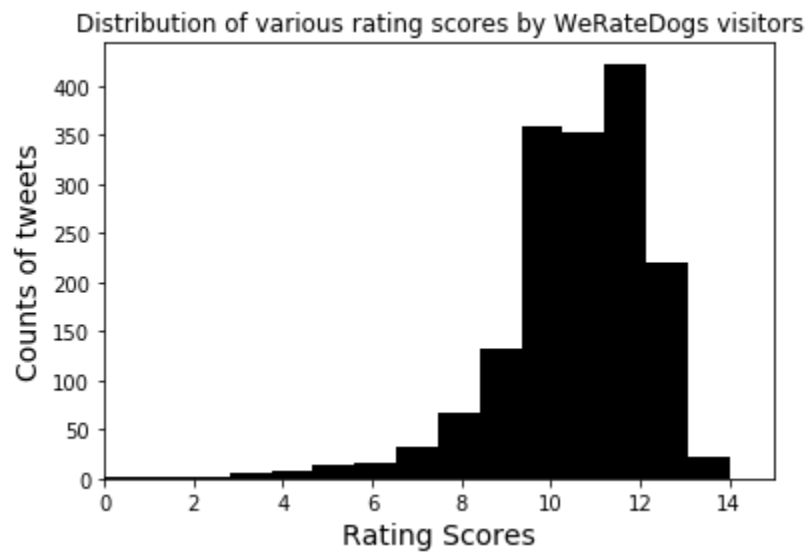Sources of Raters who visit the WeRateDogs Twitter Page

 The most common users or visitors use an iOS device (1600+ counts) - Twitter for iPhone.

2) **Which dog breeds are the most popular on WeRateDogs platform? First top 20**
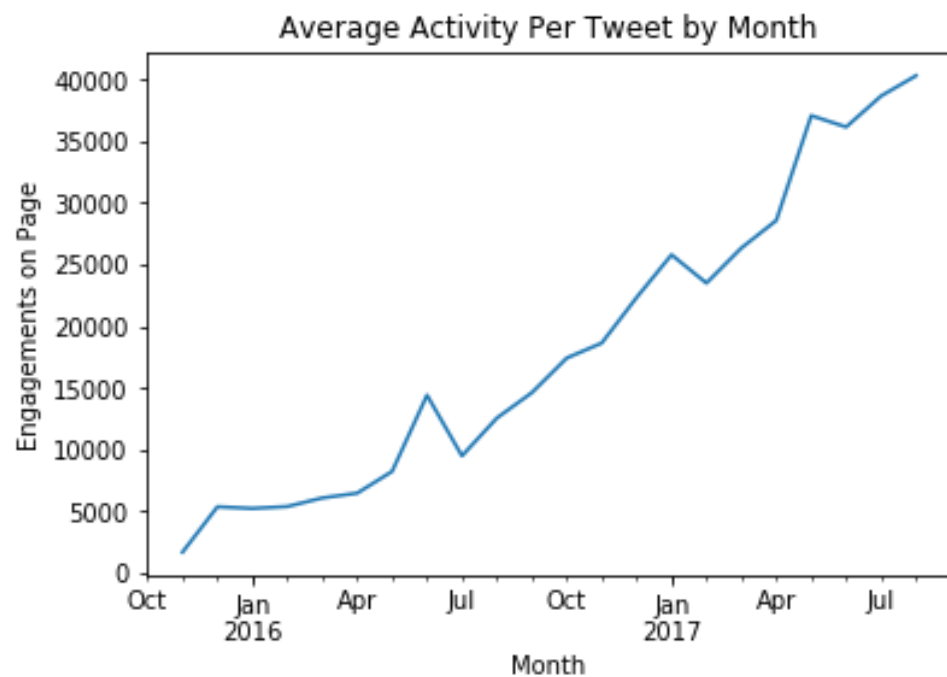

Top 20 Dogs by tweets on WeRateDogs Page

We see a list of the top 20 dogs; The Golden Retriever is the most popularly rated dog breed.

(3) What are the most common ratings for dogs by WeRateDogs visitors?

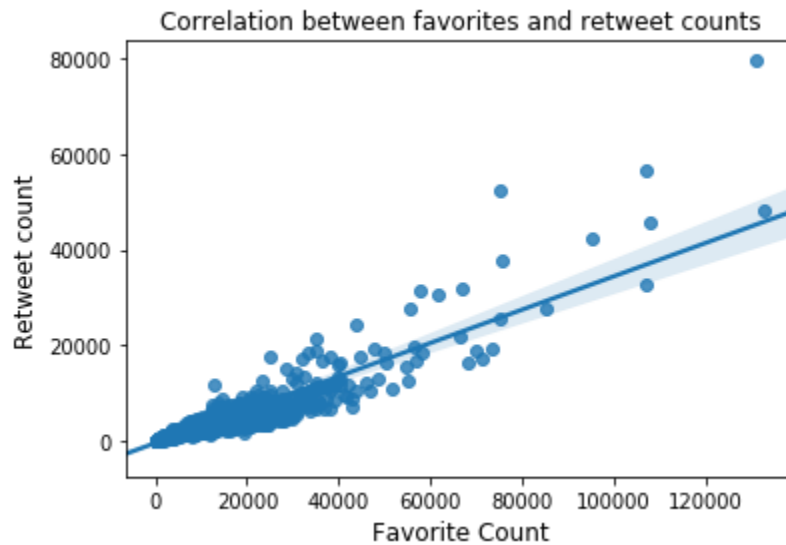Distribution of various rating scores by WeRateDogs visitors

We see that the most popular rating is a score of 12. The average rating for all the dogs is a 10.

(4) What is the monthly interaction or engagement on WeRateDogs

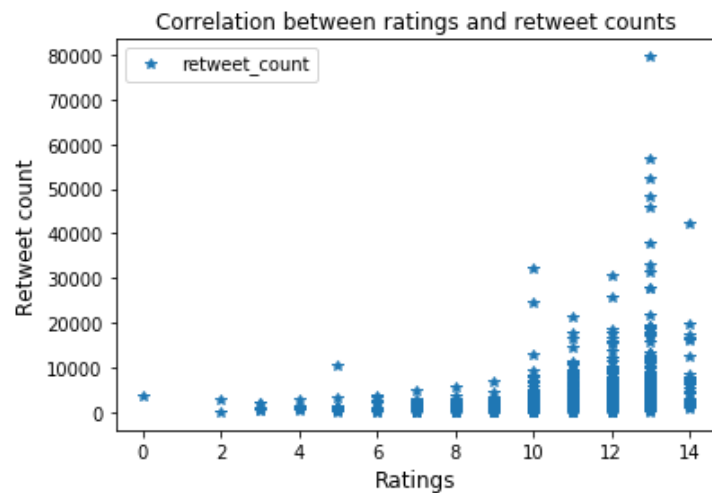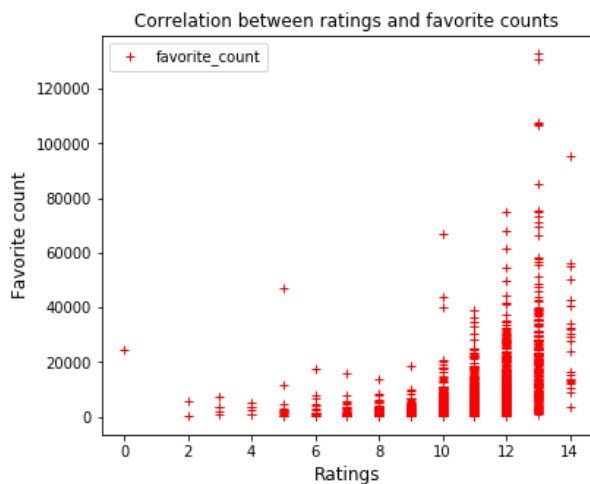Average Activity Per Tweet by Month

5) What is the correlation between the favorites and retweets counts?

We see a strong positive correlation between retweet and favorite counts indicating that most people who like a particular post often retweet them.

5) Relationships between Ratings vs Retweets and Ratings vs Favorite counts?

We equally see a positive correlation between ratings vs retweet counts and ratings vs favorite counts.