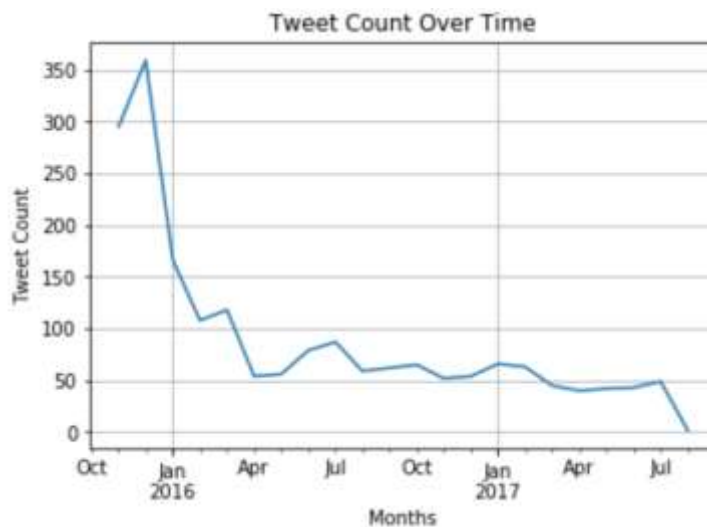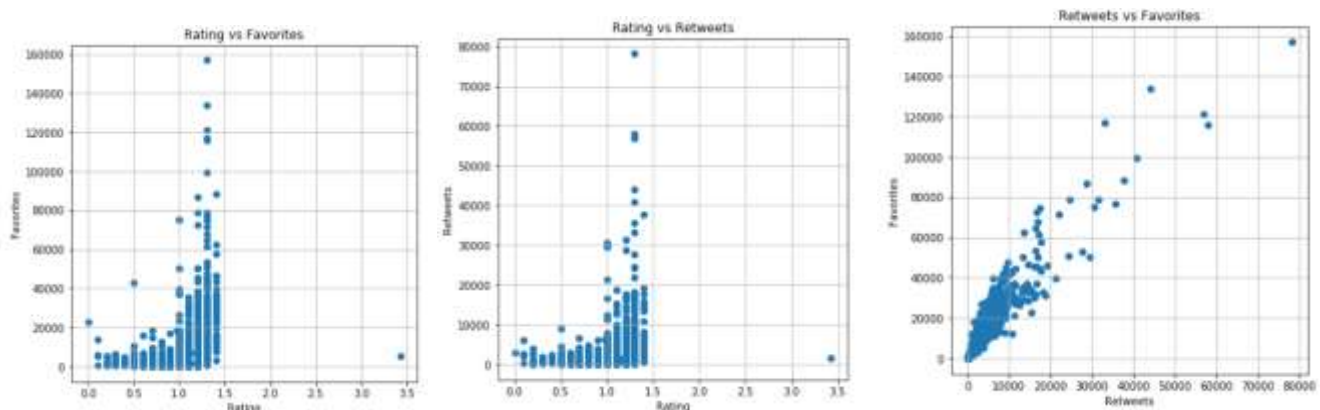# WeRateDogs Twitter Data

In doing a project from Udacity, I recently learned that people actually go online to get their dogs rated. How crazy is that we have gone to social media to have our beloved pets to get scored?!?! WeRateDogs does just that on Twitter account with a humorous comment about the dog! I was tasked to wrangle the messy Twitter data to share with you some interesting insights.
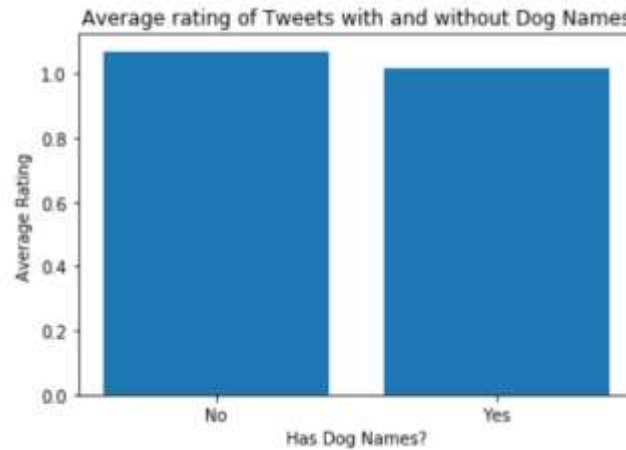
1. ***How has WeRateDogs Original Tweet volume (aka no retweets or response) change over time?*** Tweet counts peaked after October 2015 but shortly have been declining with a steep drop in January 2016. This may represent the public's declining interest in getting their dogs rated.
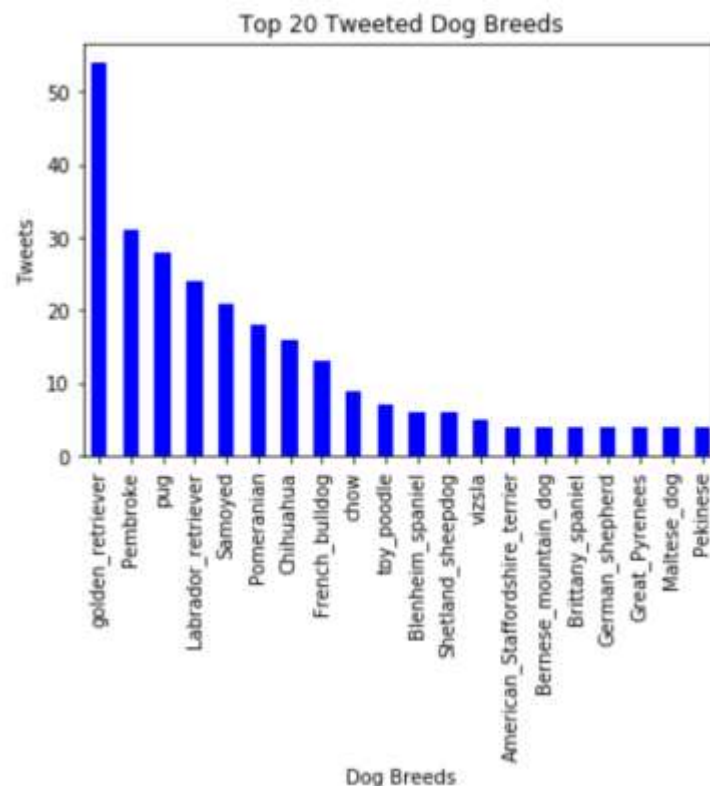

2. ***Is there a correlation between ratings, favorites, and retweets?*** As expected, there is a very strong positive correlation between Retweets and Favorites. There's also a strong positive correlation between rating to the number of retweets and favorites.

3. ***Is there a correlation between ratings and providing a dog name?*** Including the dog name(s) does not seem to have strong correlation on rating as average rating for tweets with names and without names are close to one another. Further hypothesis testing is needed to identify any statistical significance of including dog names in the tweet.

Average rating of Tweets with and without Dog Names

4. ***What are the top 20 most tweeted dog breeds?*** The below data was collected from a neutral network used to classify the dog breeds of the tweets. Of the predictions with over 85% confidence, the most tweeted dog breed is the golden retriever that has almost double the tweet count of the second most tweeted dog breed.

Top 20 Tweeted Dog Breeds

5. ***What breed or things have the top 20 average ratings?*** When we look at the dog breed or tweet subject of top 20 average rating (looking again at tweet predictions with 85% confidence), 12 of them are dogs whereas 8 of them are not. This leads to more questions. Why would WeRateDog rate non-dog tweets this high? Can this be attributing to the decline in Tweet counts since people actually want tweets about dogs? Further digging is needed.

Tweet Subject of Top 20 Average Rating