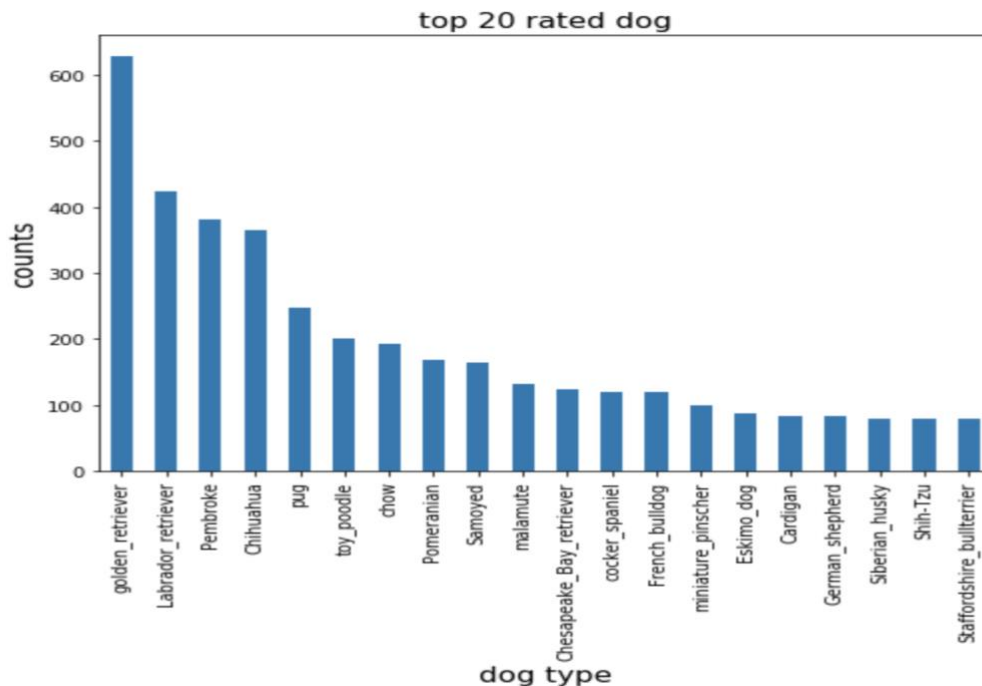# We Rate Dog Report

By Pengfei Huangfu

INTRODUCTION:

Real-world data rarely comes clean. WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. These ratings almost always have a denominator of 10. The numerators, though? Almost always greater than 10. 11/10, 12/10, 13/10, etc. Why? Because "they're good brent". WeRateDogs has over 4 million followers and has received international media coverage.

The goal of this project is to utilize what I learned from Udacity to gather, assess, analyze, visualizes twitter dog rating data and derive insights from it. In the following, I will answer:
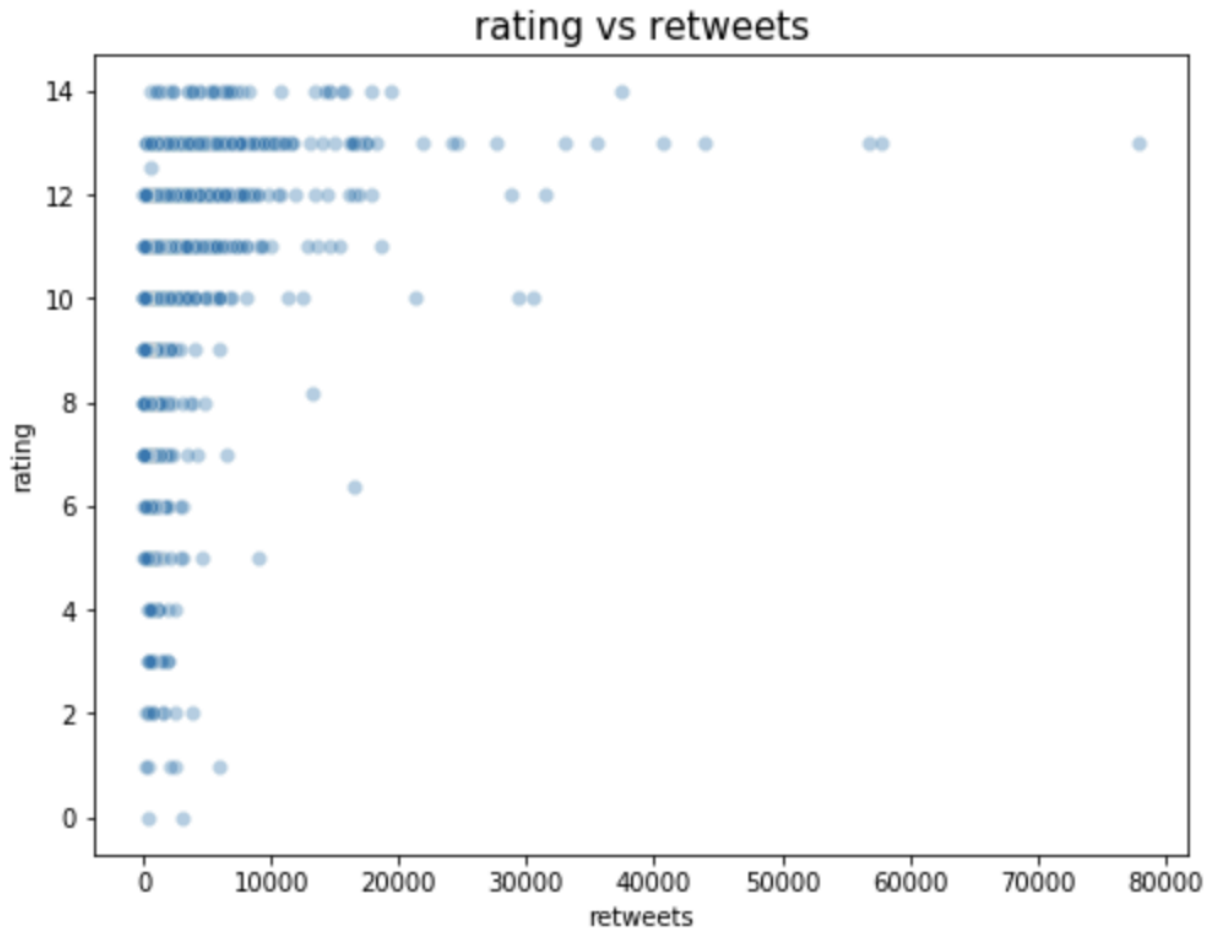1. what are the most common rated types of dog?
2. What is the relation between rating and number of retweets?
3. What is the relation between rating and number of favorites?
4. And what is the relation between retweets and favorites?
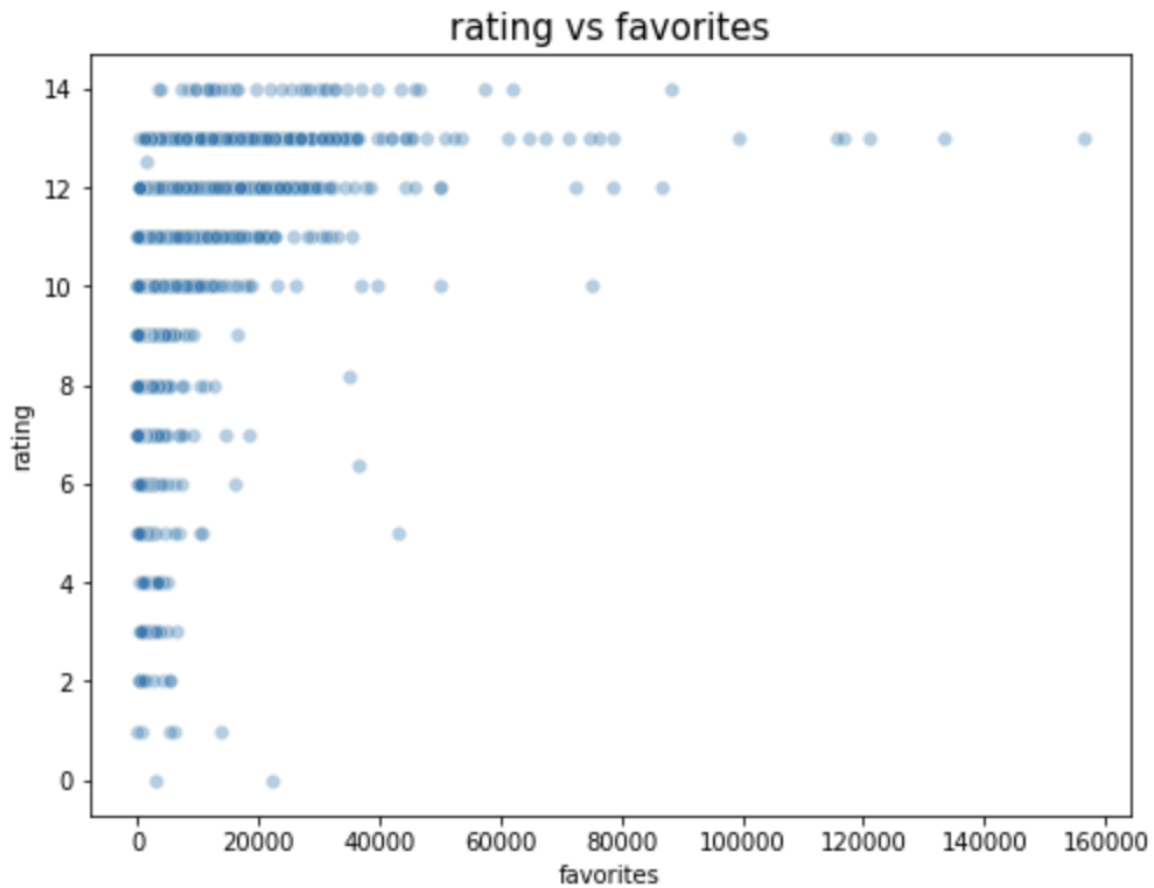
1. Most common rated types of dog:

From the bar chart above, we can see that the most three common rated types of dog are golden retriever, Labrador and Pembroke.

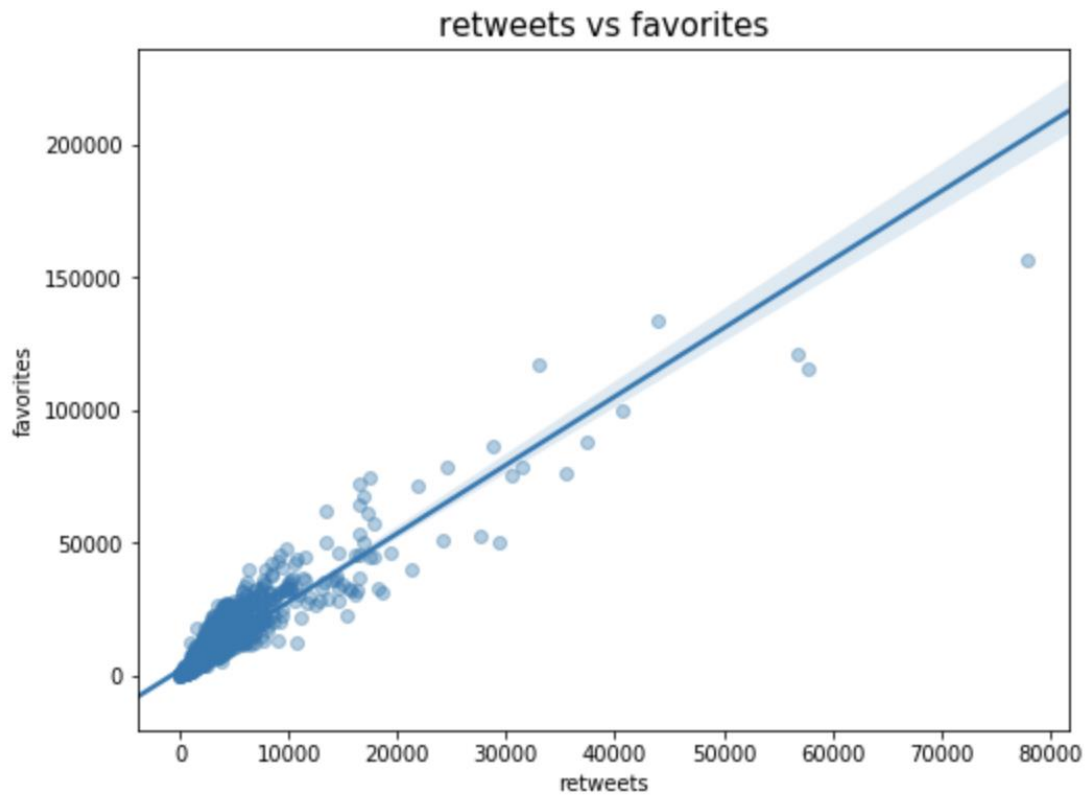2. What is the relation between rating and # of retweets?

From the chart above, we can capture a trend that as rating goes up, the number of retweets goes up. However, it is interesting to see that the highest rating is not associated with highest number of retweets.

3. What is the relation between rating and number of favorites?

rating vs favorites

From the chart above, we can see the trend is very similar to the last one. As the rating goes up, the number of favorites goes up. And it is worth thinking that the highest score is not associated with highest number of favorites. What is the reason in it?

4. And what is the relation between retweets and favorites?

retweets vs favorites

From the chart above, we can clearly see that there is a positive correlation between retweets and favorites. And I think that retweets can be a good predictor to predict the number favorites in machine learning algorithm.