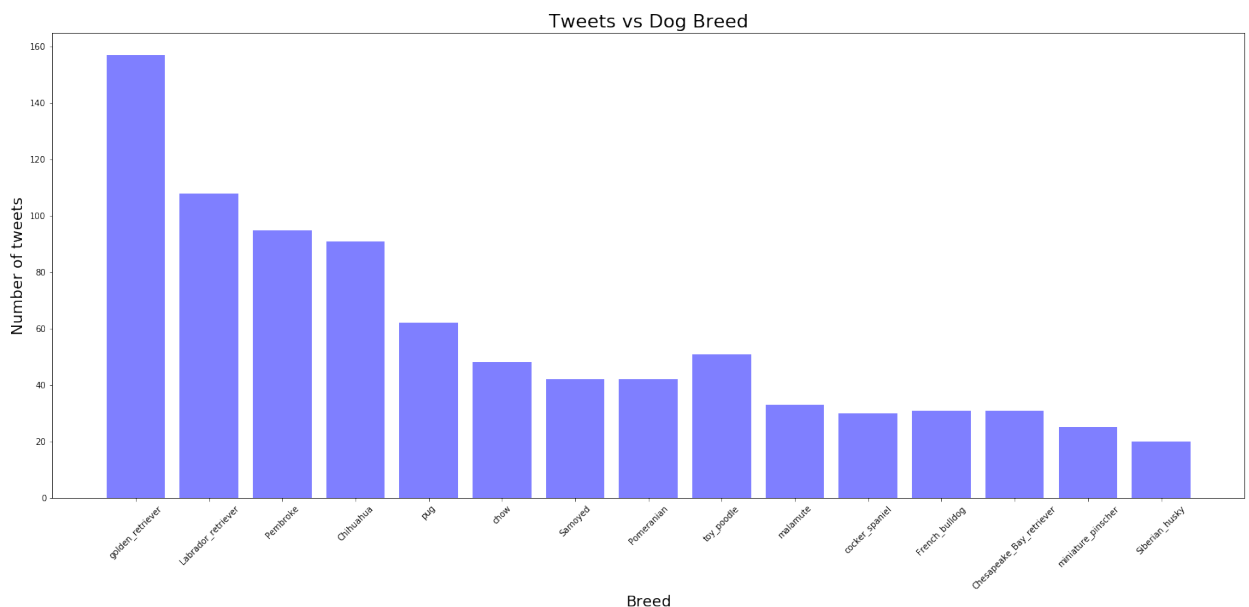


## Analysis

Once all the data was collected and cleaned, we were able to begin analyzing the data. I chose to try and tackle the following 3 questions:

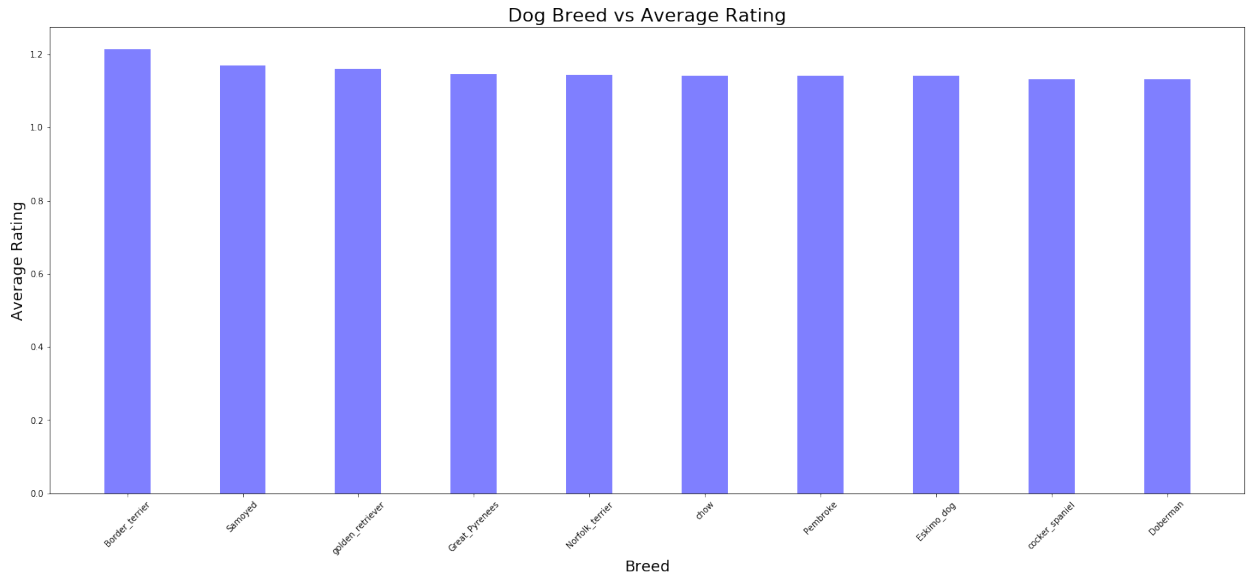
- 1) Look at the number of tweets for each dog to see which dog was tweeted the most
- 2) Find out which dog get's the highest rating on average to find the "cutest" dog
- 3) Look at the average ratings given overtime (regardless of breed) to see how people's opinions on dog cuteness have changed over time

- 1) To answer the first question we first have to count how many times each dog came up according to the p1, p2, and p3 values. If p1\_dog != True, meaning the algorithm did not detect a dog, I would use the p2 value instead of p1. If we then found the same was true for p2 (p2\_dog != True) after going through p1, then we would use p3. If all 3 p values could not detect a dog from the image, we ignored the entry all together. Then I summed up the data and plotted the results in a bar graph shown below:



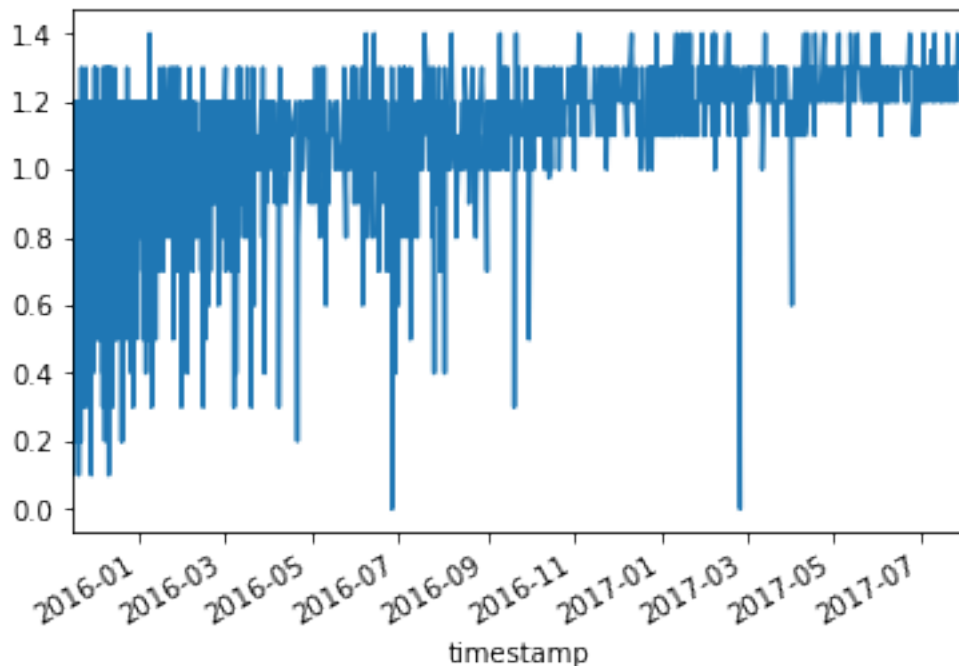
As the plot above shows, the golden retriever has the highest number of tweets by a substantial margin, sitting at a grand total of 157 tweets across our dataset

- 2) To answer the second question we would analyze the data in the same way as the first question, except this time we would need to calculate an 'overall\_rating' for each entry. To do this, I divided rating\_numerator by rating\_denominator and then plotted the top 10 results in a bar graph shown below (2 entries had to be removed as they were very clearly outliers and would have skewed the dataset):



After plotting, we see that the highest rated dog according to our specifications was the Border terrier with a average rating of 1.214 from 7 entries

- 3) The last question could be answered by simply plotting the 'timestamp' against the 'overall\_rating' calculated in the last question.



After removing the 2 outliers found in part 2, we see that there has been a general positive trend towards the ratings people give regarding their tweets