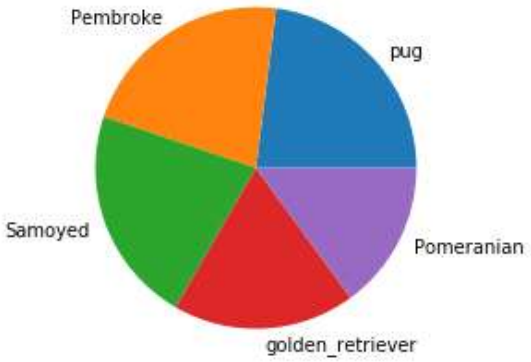
# Act Report

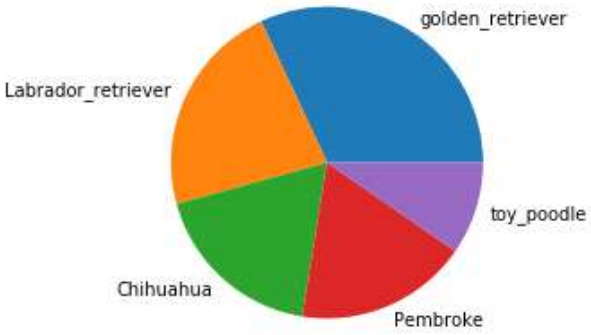
For this project, I analysed tweets from the twitter page WeRateDogs, specifically those made up to August 1, 2017. I also analyzed data from a machine learning algorithm that tries to classify the type of dog by looking at photos of it. The results are as follows:

The machine learning algorithm makes 3 predictions of what type of dog might be in the picture and ranks them based on how confident it is in each choice. I took the first prediction, the most confident one, and analyzed only conclusions that had a confidence level of at least 95%. I also analyzed conclusions that were less than 95%. I then took the top 5 most predictions from each.

Number of predictions made for each of the top 5 among statistically significant confidence levels.

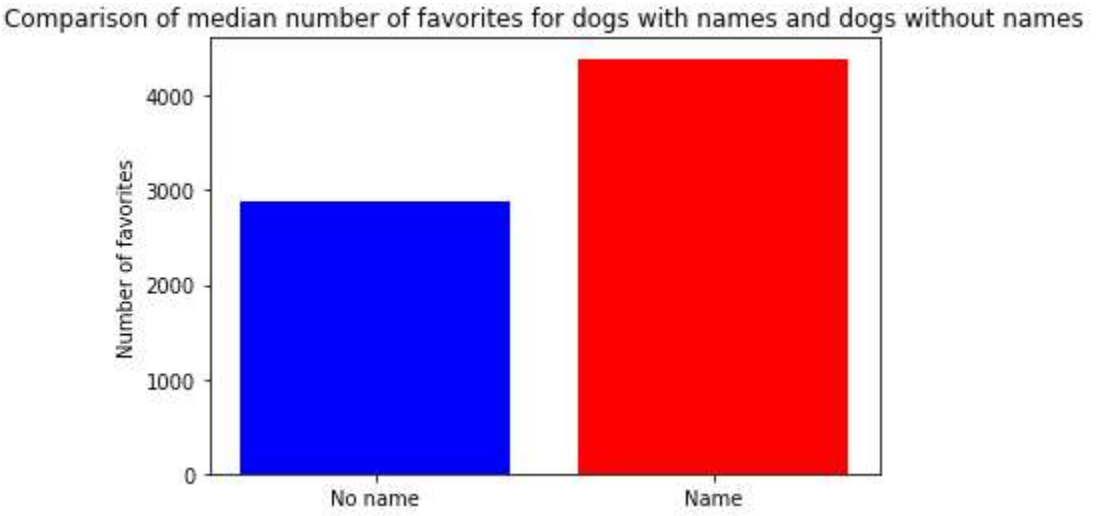


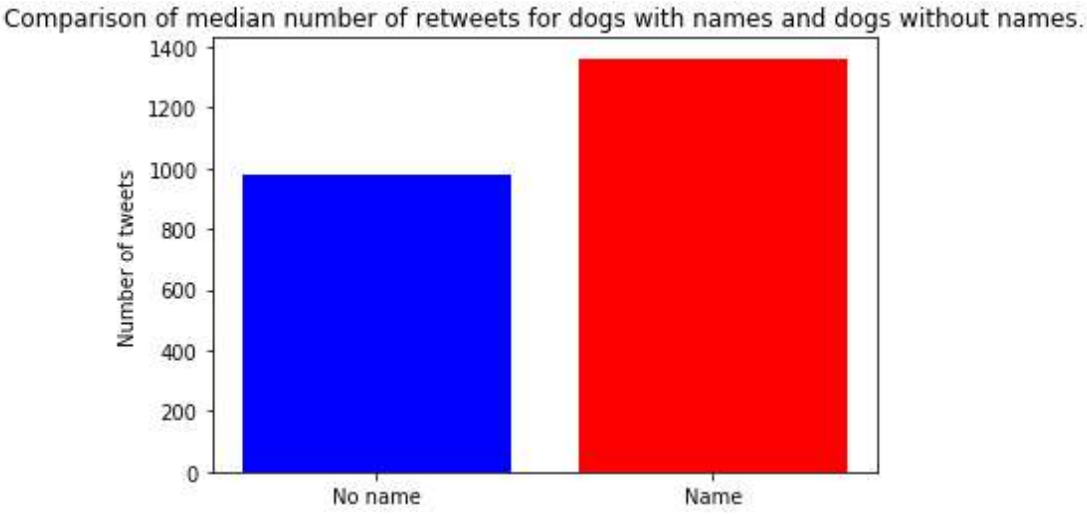

Number of predictions made for each of the top 5 among statistically non-significant confidence levels.




Based on this data, It would appear that the algorithm has an easier time identfying some dogs, like golden retrievers, than it does others, like sayoneds.

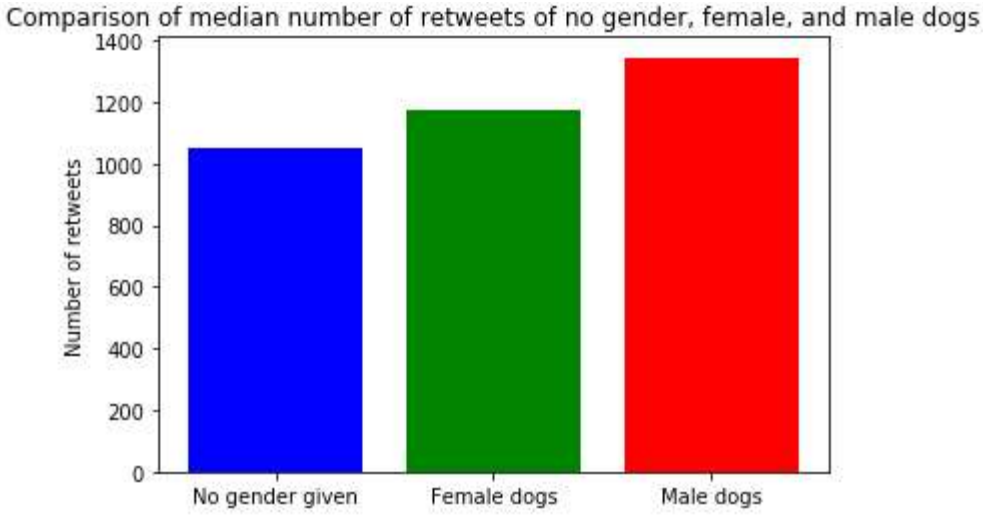
Next, I took the median retweet level for dogs that have listed names and dogs that do not. I then did the same things with the median number of favorites.

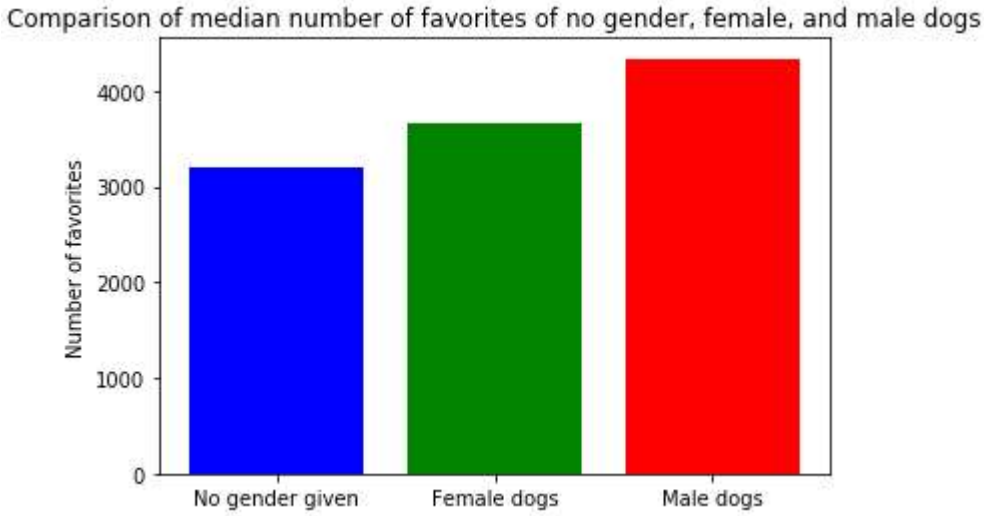



Dogs that have listed names have a median retweet level that is aprrox. 29% higher than dogs that do not. Dogs that have listed names also have an approx. 35% higher median favorite level than dogs that do not.

Finally, I looked at the retweet and favorite level of dogs that are identified as male and female, and those that have no given gender.




Here, male dogs have a retweet level that is approx. 13% higher than female dogs, who in turn have approx. 10% more than dogs with no given gender. Also, male dogs beat dogs with no gender by approx. 22%. In the case of favorites, it is largely the same story. The male dogs rise above female dogs by approx. 15%, who in turn outrank dogs with no gender by approx. 12%. The male dogs also exceed the no gender dogs by approx. 26%.