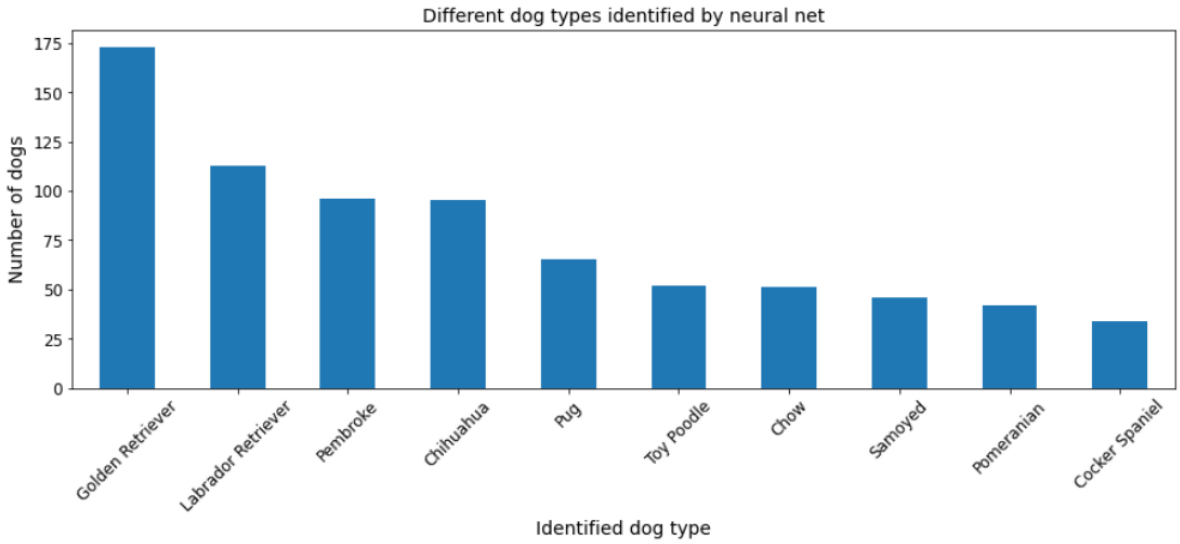
Analysing tweets from WeRateDogs®

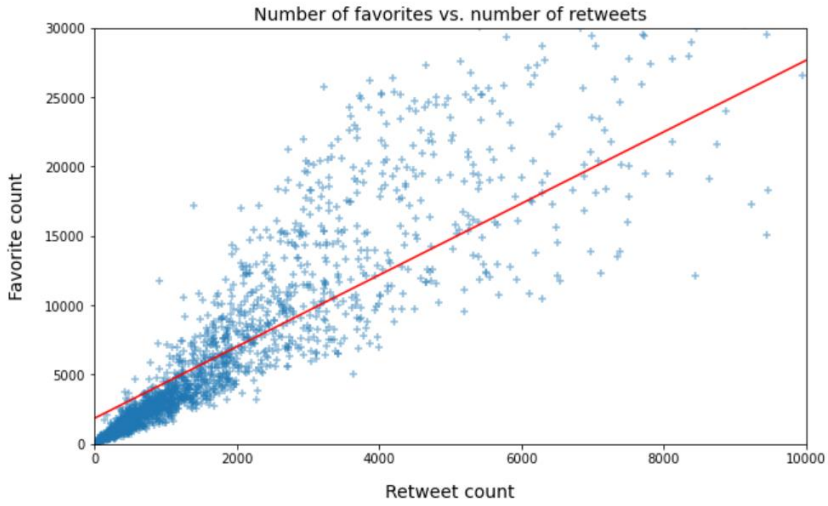
We analysed the record of tweets from the account WeRateDogs® (@dog_rates) to discover some interesting insights about dogs and dog-lovers. We accessed the twitter archive for WeRateDogs® prior to August 1st, 2017, analysed those tweets and ran their associated images through a neural network that classifies the breed of dogs. After cleaning the data, we analysed tweets for 2069 dogs. Here are our findings.

Common dog names in the tweets include 'Lucy', 'Charlie', 'Oliver' and 'Cooper'. The most common dog types that were identified by the neural net are shown in the bar chart below. A win for the trusty golden retriever!



Of all the dogs which were assigned a "stage", the most popular stage was the "pupper". As explained in "The Dogtionary", as defined in the #WeRateDogs book, these are "doggos" which are usually younger and inexperienced in the ways of doggo life. (Doggo is defined circularly as a big pupper!)

We also found that twitter users were more likely to "favorite" a tweet than to retweet it. (This is not unexpected, as the "favorite" option has come to be used by twitter users more as a "like" button than a "favorite" button.) Nevertheless, the most favorited tweets were also the most retweeted tweets:



The equation of the regression line here is:

$$(\text{Favorite Count}) = 2.58 \times (\text{Retweet Count}) + 1852$$

This equation allows us to predict how many likes a tweet will have (i.e., the Favorite count) based on the number of retweets *and vice versa*.

Lastly, using the unique rating system, where the number is out of ten but often higher than ten, we found that most dogs received scores of 10, 11 and 12.