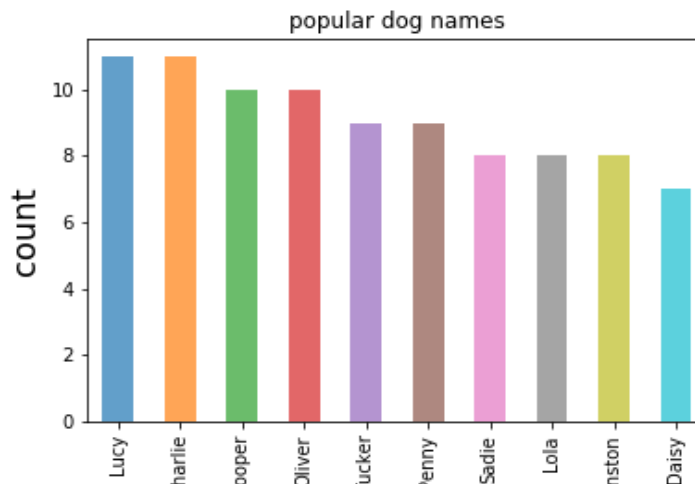


## Act Report

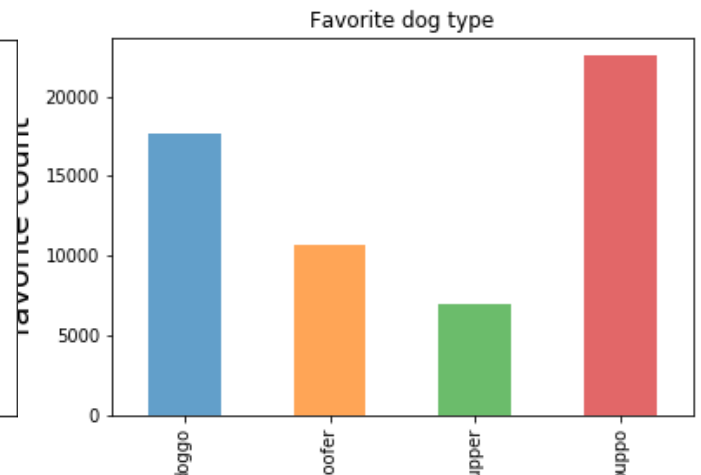
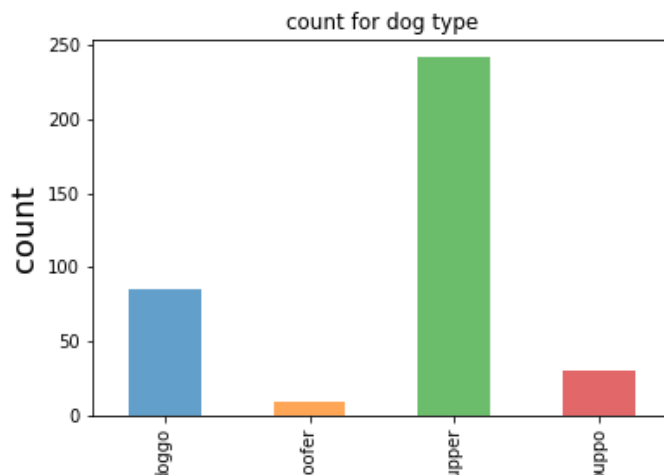
### Introduction

The dataset is the tweet archive of WeRateDogs from Twitter. This report is a summary of the data analysis, and visulization conducted in Python. There are many insights we could explore. But for this report, I want to find what are the popular names of the dogs, the favorite counts, and retweet counts for different types of dogs, if the neural network algorithm is doing good job on predicting the dog breeds. Last I want to take a look at the images of the dogs who received highest favorite counts, retweet counts and rating.

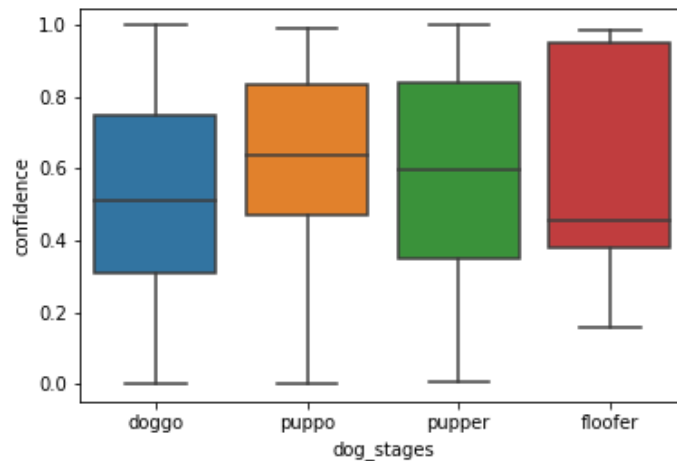
1. From the figure showing below, the top 10 popular names for dog are Lucy, Charlie, Cooper, Oliver, Tucker, Penny, Sadie, Lola, Winston, and Daisy.



2. Puppies are posted on tweet most, but type of dog received the highest favorite counts are puppos. And the favorite counts are consistent with the retweet counts. So I did not post the diagram for retweet counts here.



3. There are only 226 out of 2075 observations with `p1_conf` with higher 0.95 . It seems that the probability of prediction the dog breeds is dependent on the dog types. The diagram showed that the mean confidence only for `puppo` is higher than 0.6. It could be because the population of `puppo` posted on tweeter is much less, according to the diagram of count for dog type shown above.



4. This is Atticus. Isn't he cute? No wonder he is the highest rated dog to date -- 1776/10 !!



But he is not the guy who received the highest retweet counts. It is this guy-- 83810 retweet count and **164536** favorite count!

