

Report: WeRateDogs Insights and Visualization

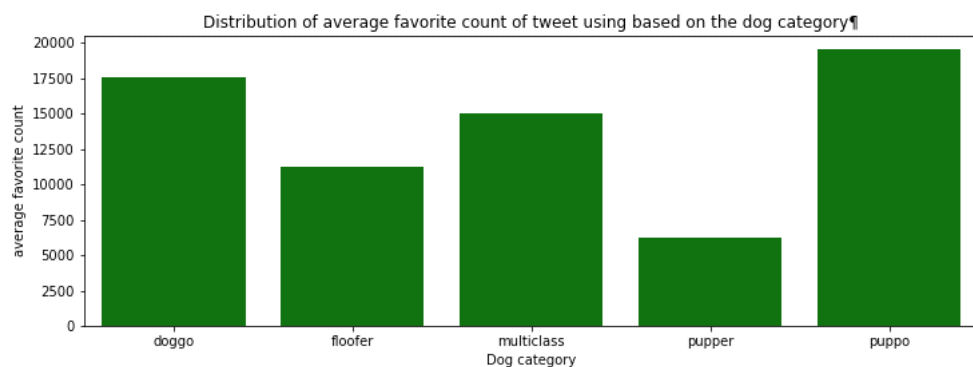
In the following, we are going to find out the hidden patterns within the twitter archive master dataset and visualize them.

Insights

- Visualizing the distribution of dog category based on the favorite tweet count by their users on twitter
- Visualizing the distribution of dog category based on the retweet count by their users on twitter
- Visualizing the most used devices by WeRateDogs users
- Visualizing the most common name of dog
- Line plot of like and retweet by twitter users on WeRateDogs account
- Visualizing 20 dogs breed P2 predicted by twitter user on WeRateDogs
- Visualizing 20 dogs breed P3 predicted by twitter user on WeRateDogs
- Visualizing the dog category with the highest rating score
- Visualizing the dog category with maximum favorite count
- Visualizing the dog category with minimum retweet count
- Visualizing Total Tweets made by WeRateDogs per month
- Visualizing some of the dog names in image prediction p1

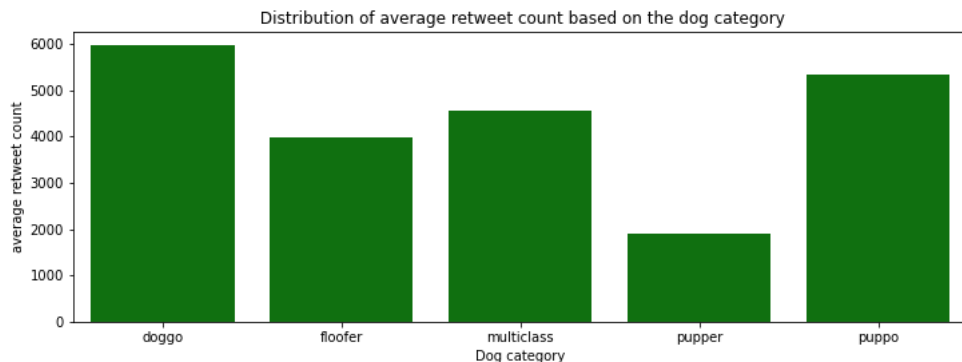
Visualization

- Distribution of dog category based on favorite count on WeRateDogs account



doggo has 17599.225806 tweet favorite counts the most
 floofer with 11223.857143 tweet favorite counts
 multiclass has 15008.909091 tweet favorite counts
 pupper has 6204.975369 tweet favorite counts
 puppo has 19573.545455 tweet favorite counts the least

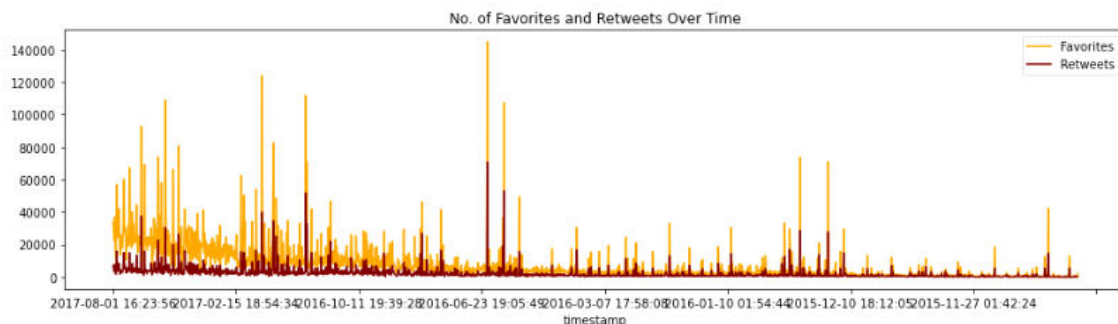
- Distribution of dog category based on average retweet count on WeRateDogs account



Among the dog category

- doggo has 5972.709677 average retweet counts the most
- followed by puppo with 5325.318182 average retweet counts
- multiclass has 4548.272727 average retweet countss
- floofer has 1909.453202 average retweet counts
- pupper has 5325.318182 average retweet counts the least

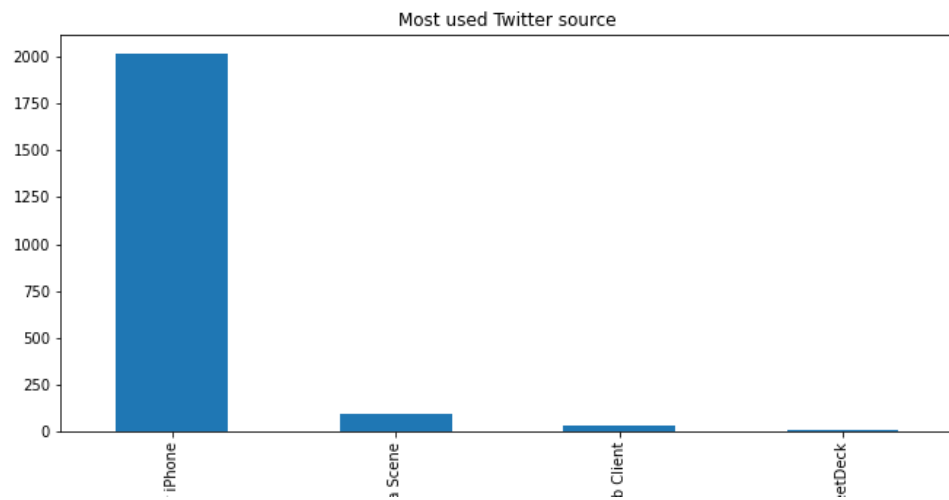
- Plotting likes and retweets



From

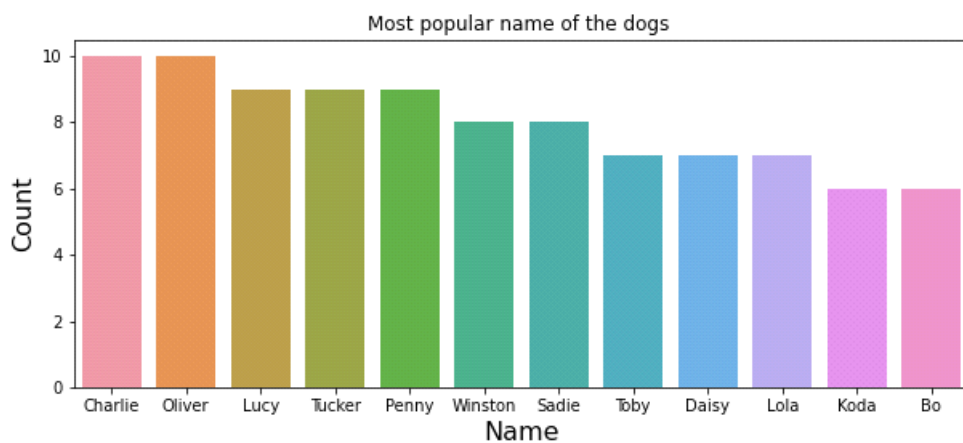
the plot of likes vs retwets we notice that WeRateDogs twitter account started in December,11,2015 with zero likes and retweets. In June,23,2016 over 65k users retweeted post of the account and 140k people like the post as their favorites. In February,16, 2017, the account got more popularity over 100k people like the post on the account as their favorites and 25k people retweeted the posts about WeRateDogs. In August 1,2017 few people retweets about their dogs and only 58k people like the post of dogs as their favorites

- Distribution of the most used devices by users on WeRateDogs twitter account



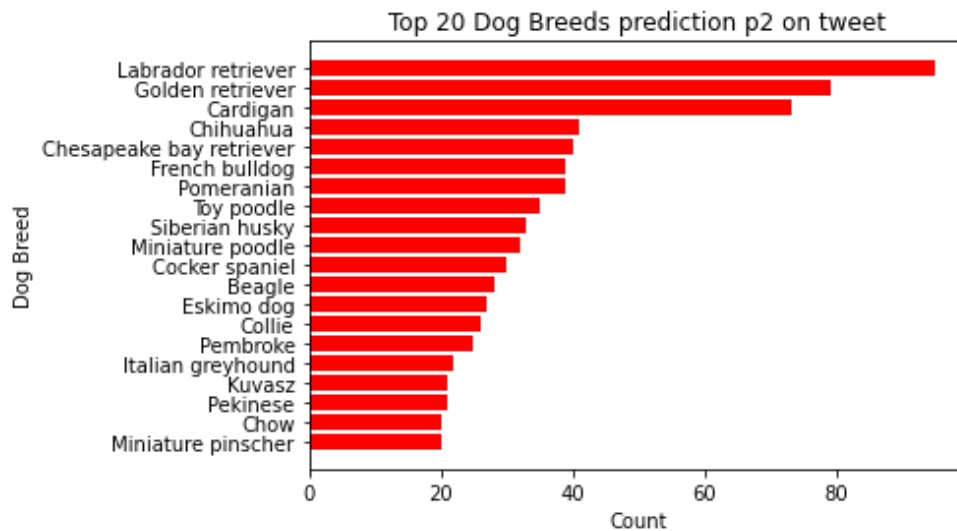
From the bar plot above, most of the WeRateDogs users used Twitter for iPhone

- Visualizing the most popular name of the dogs



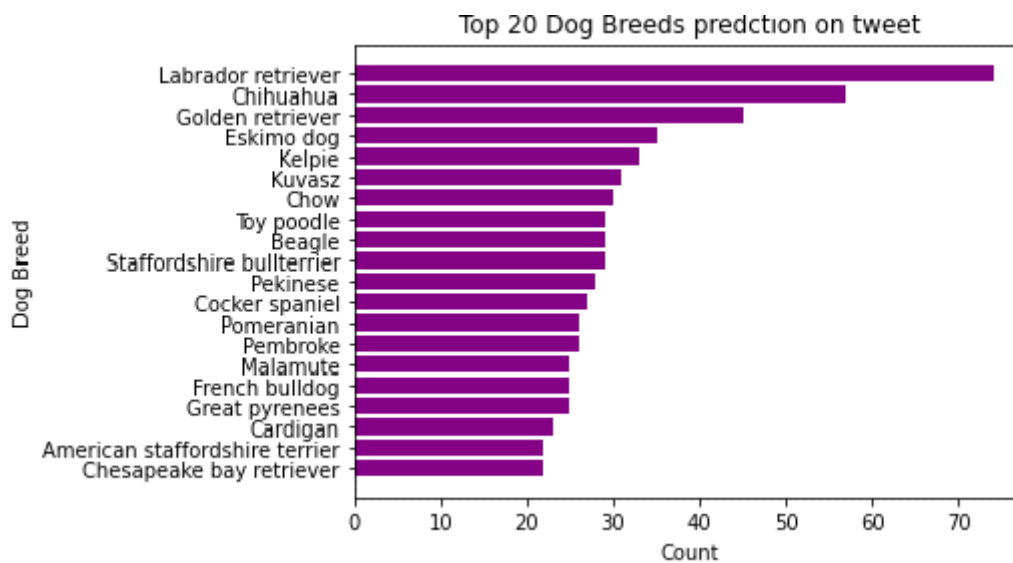
From the above plot the most common name among the dogs are Charlie, Oliver, Lucy, Tucker, Penny, Winston, Sadie, Toby, Daisy, Lola, Koda and Bo

- Visualizing 20 dogs breed P2 predicted by twitter user on WeRateDogs



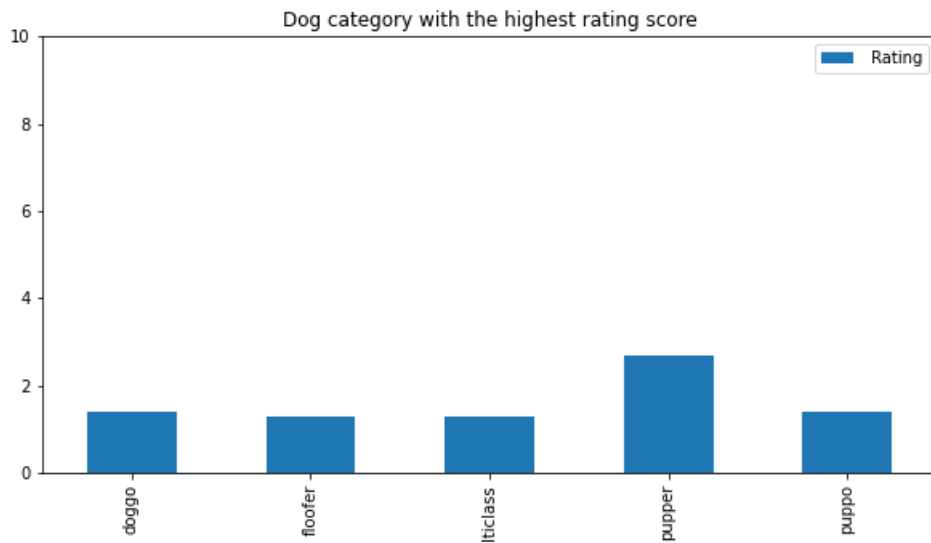
From the above plot, the most predicted dog image by twitter users on WeRateDogs is Labrador retriever

- **Visualizing 20 dogs breed P3 predicted by twitter user on WeRateDogs**



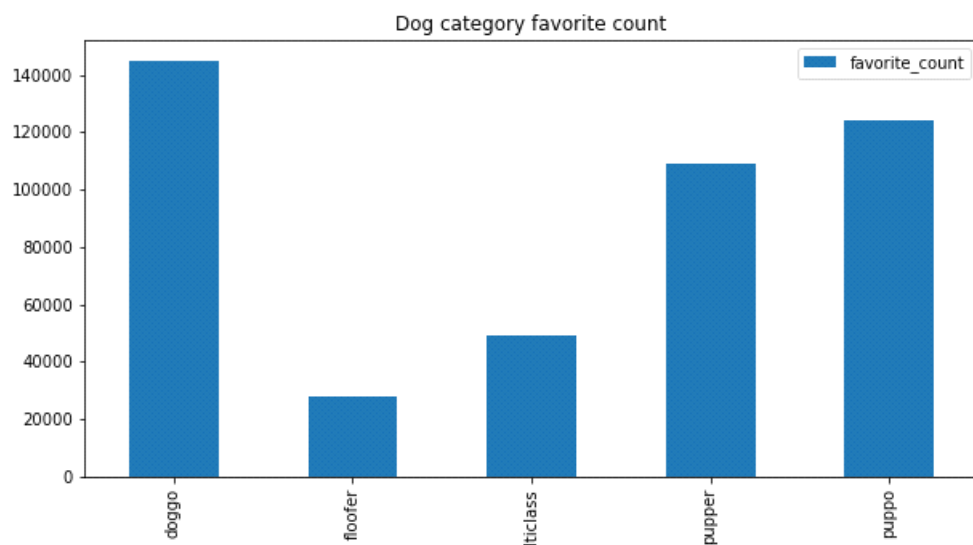
The most predicted dog image by twitter users on WeRateDogs is Labrador retriever

- **Visualizing the dog category with the highest rating score**



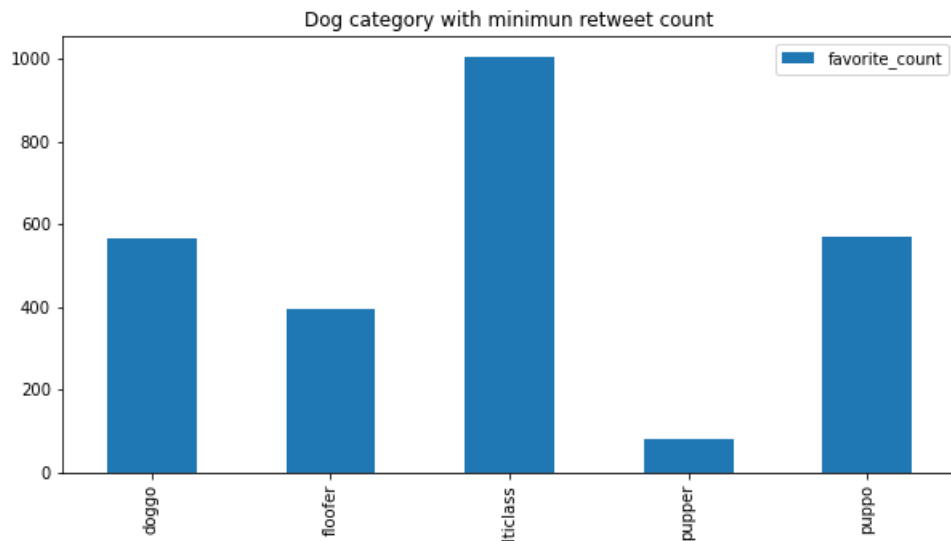
From the above plot, pupper has the most highest rating dog.

- Visualizing the dog category with maximum favorite count



From the above plot doggo is the dog with maximum twitter favorite count

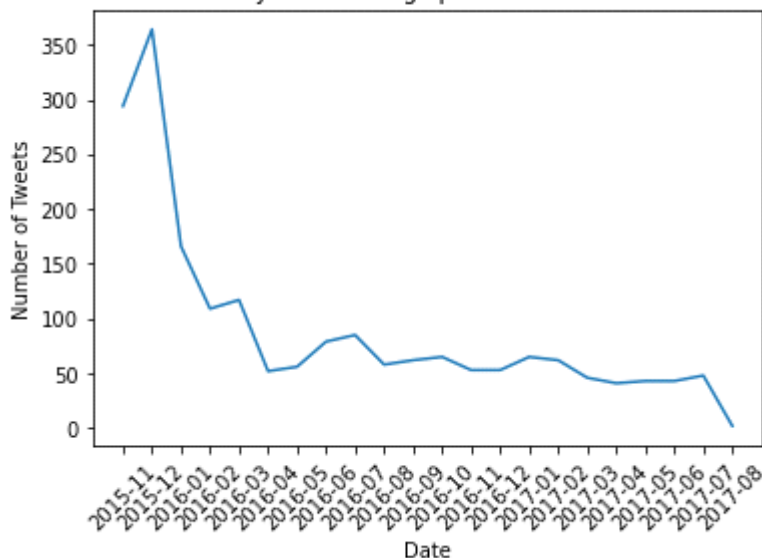
- **Visualizing the dog category with minimum retweet count**



From the above plot pupper has the least retweet count. However multiclass has the most retweet count.

- **Visualizing Total Tweets made by WeRateDogs per month between 2015 to 2017**

Total Tweets made by WeRateDogs per month between 2015 to 2017



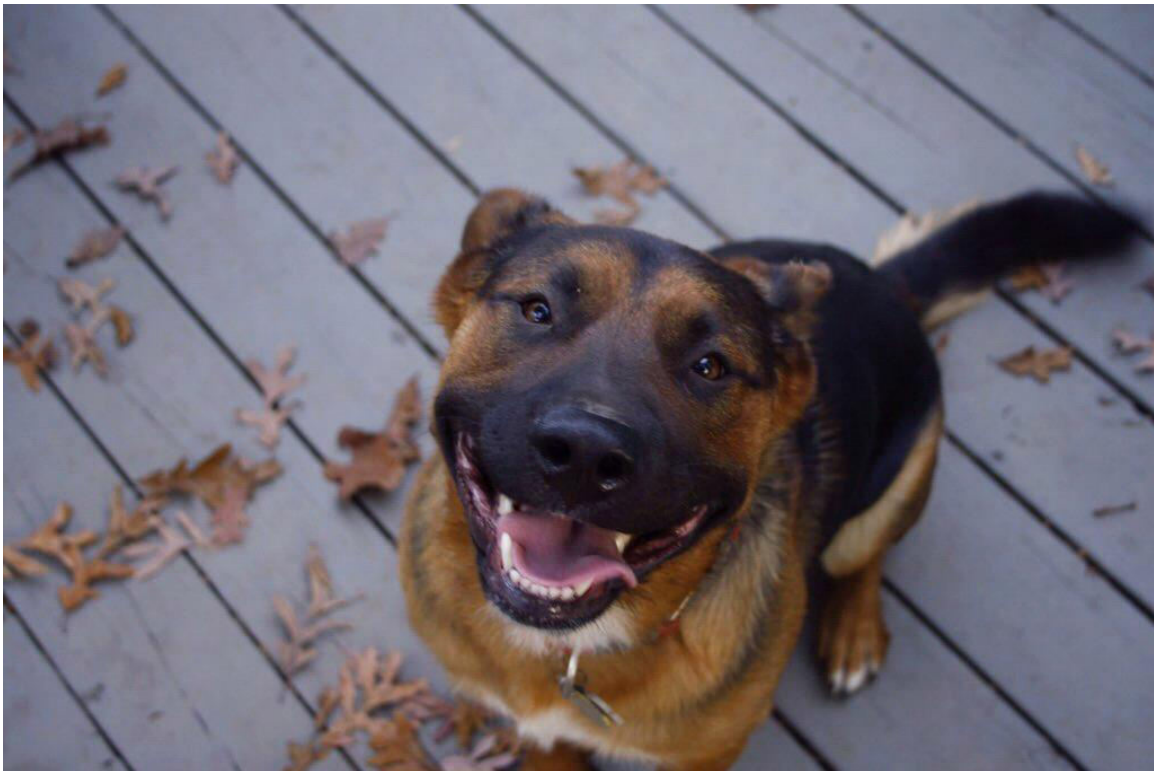
From the plot above, we notice in November,2015, 350 people tweeted on WeRateDogs. However, the number gradually decreased in August 2017, the plot revealed that the number of tweets had dropped to 0 tweet.

- **Visualizing some of the dogs image prediction p1**

- Miniature_pinscher



- **German Sheperd**



- **Rhodesian ridgeback**

