Data Analysis and Insights: WeRateDogs Twitter account

WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog.   WeRateDogs has over 4 million followers and has received international media coverage. They have a unique system of rating, in which the denominator is almost always equal to 10, and the numerator almost always, greater than 10. In this project we have wrangled and analysed data from the WeRateDogs twitter account. The insights are findings obtained on analysis of the data are documented in this report.

Most common dog names:

We identified the 10 most common dog names appearing on this twitter account. Cooper, Oliver, Charlie and Lucy topped the list of the most popular names (excluding all the names that were not known).
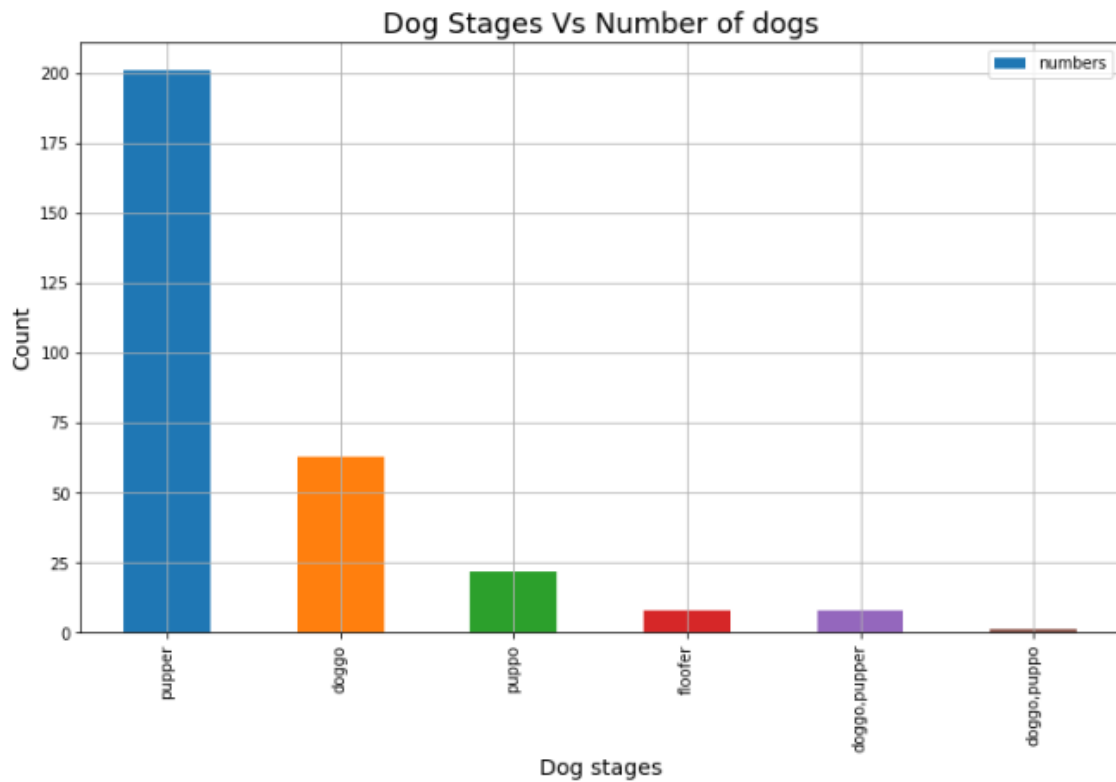
Average dog rating, average favourite count and average retweet count:

The statistical summary table was created, and the various statistical parameters were obtained from this table. The average rating was found to be 12.226, average favourite count as 8765.77 and average retweet count obtained as 2660.61
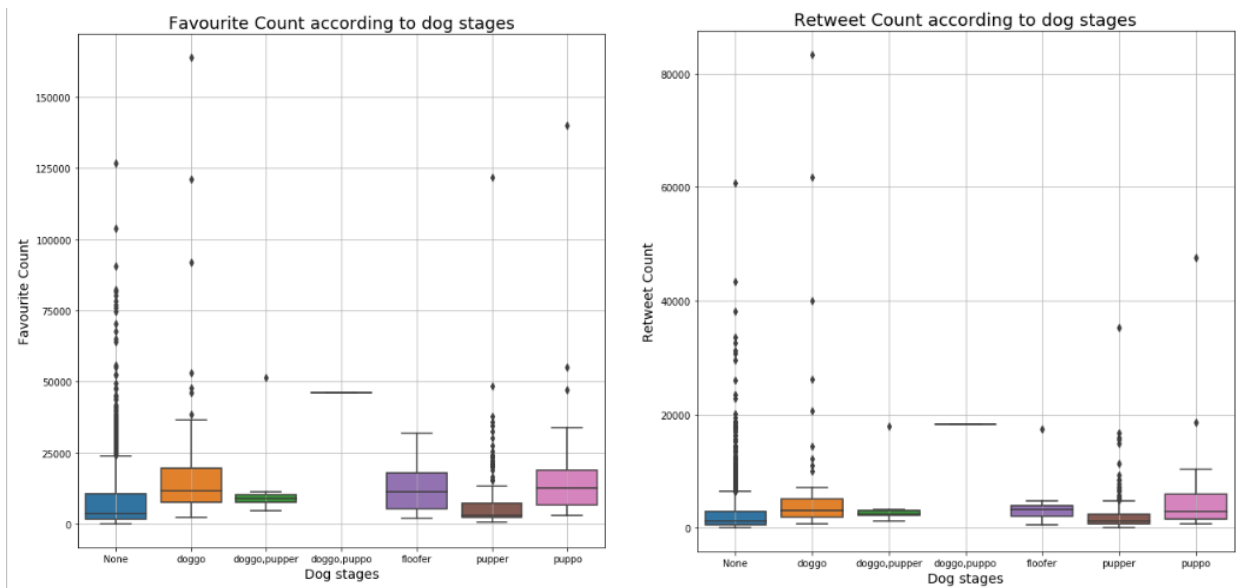
	retweet_count	favorite_count	rating_numerator	rating_denominator	p1_conf	p2_conf	p3_conf
count	1967.000000	1967.000000	1967.000000	1967.000000	1967.000000	1.967000e+03	1.967000e+03
mean	2660.608541	8765.766650	12.225724	10.478393	0.594131	1.346345e-01	6.023006e-02
std	4736.170250	12837.312318	41.676305	6.860210	0.272163	1.010457e-01	5.096530e-02
min	11.000000	78.000000	0.000000	2.000000	0.044333	1.011300e-08	1.740170e-10
25%	591.000000	1882.000000	10.000000	10.000000	0.362880	5.339800e-02	1.608055e-02
50%	1281.000000	3951.000000	11.000000	10.000000	0.587372	1.174020e-01	4.947150e-02
75%	3038.500000	10934.000000	12.000000	10.000000	0.847139	1.955655e-01	9.158675e-02
max	83352.000000	163892.000000	1776.000000	170.000000	1.000000	4.880140e-01	2.734190e-01

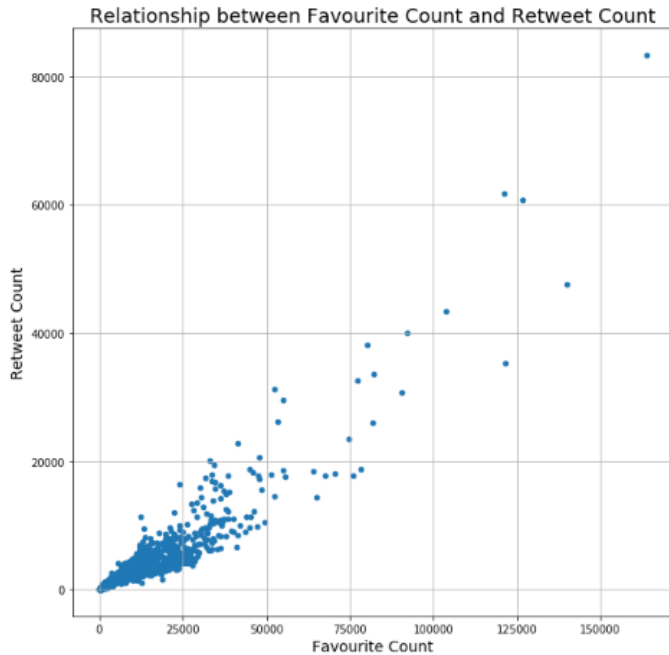## Number of dogs belonging to different dog stages

The dogs have been assigned to different stages (Pupper, Doggo, Puppo, Floofer, Doggo-pupper and Doggo-puppo). We analysed the data to find the number of dogs in each of these categories, excluding those which did not have an assigned category for the purposes of this analysis.

Dog Stages Vs Number of dogs

Analysis of favourite_count and retweets according to dog stages

Favourite Count according to dog stages

Retweet Count according to dog stages

Although the puppers have the highest population, their average number of favourite_counts and retweet_counts are lower compared to the other stages. The average number of retweets for floofers are the highest, whereas for average favourite count, puppos and floofers lead the rankings.

Favourite Count and Retweet Count

We analysed the relationship between the favourite_count and the retweet_count. From the plot we observed that there is a strong positive correlation between the favorite_count and the retweet_count. This makes logical sense as the favourite tweets are expected to be retweeted more often by the users.

We also calculated the value of Correlation coefficient which was found to be 0.93, thus indicating a strong positive correlation between favorite_count and retweet_count.

Interesting Facts

We then dived further into the dataset and retrieved some interesting facts. Here we get to meet three of the dogs !

On the left is Atticus, the dog with the highest ever rating of 1776! An analysis of the tweet shows that this image was tweeted on 4th July 2016 with the text: "This is Atticus. He's quite simply America af.."The dog in the centre received the lowest rating of 0/10; on investigating this further I found that this was a case of plagiarism by the user who posted this tweet. The image on the right is actually a still from a video for a 'doggo' who has the highest number of favourites and retweets !