

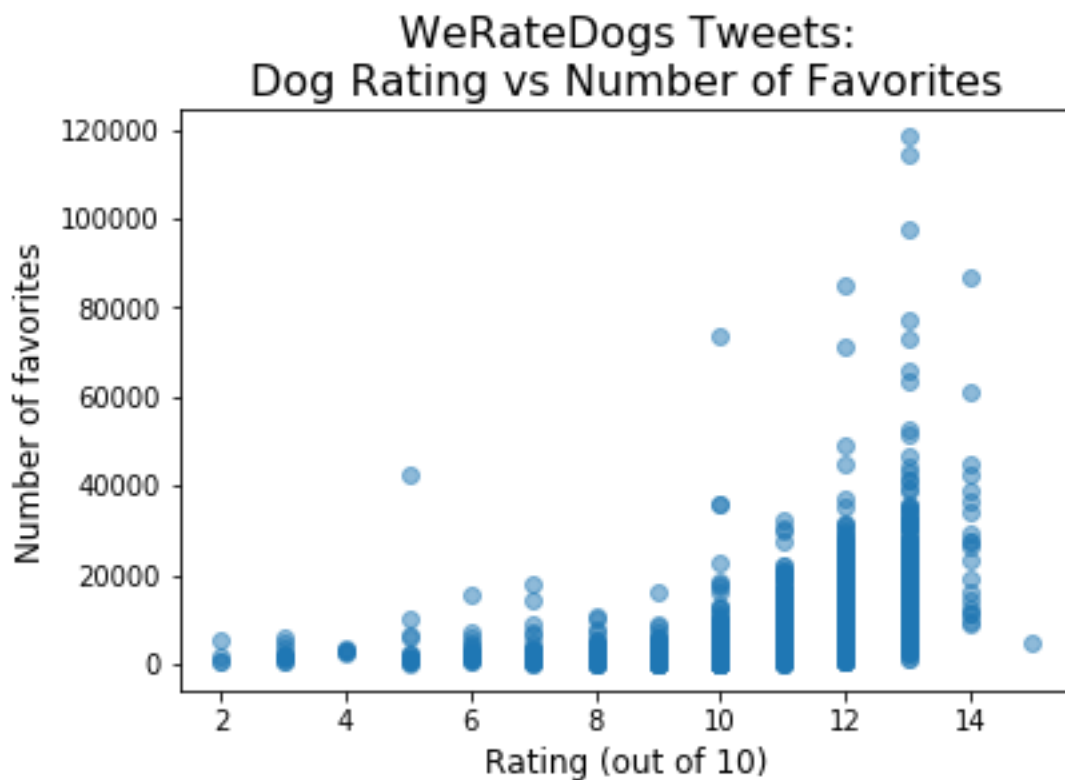
# WeRateDogs Tweets Act Report

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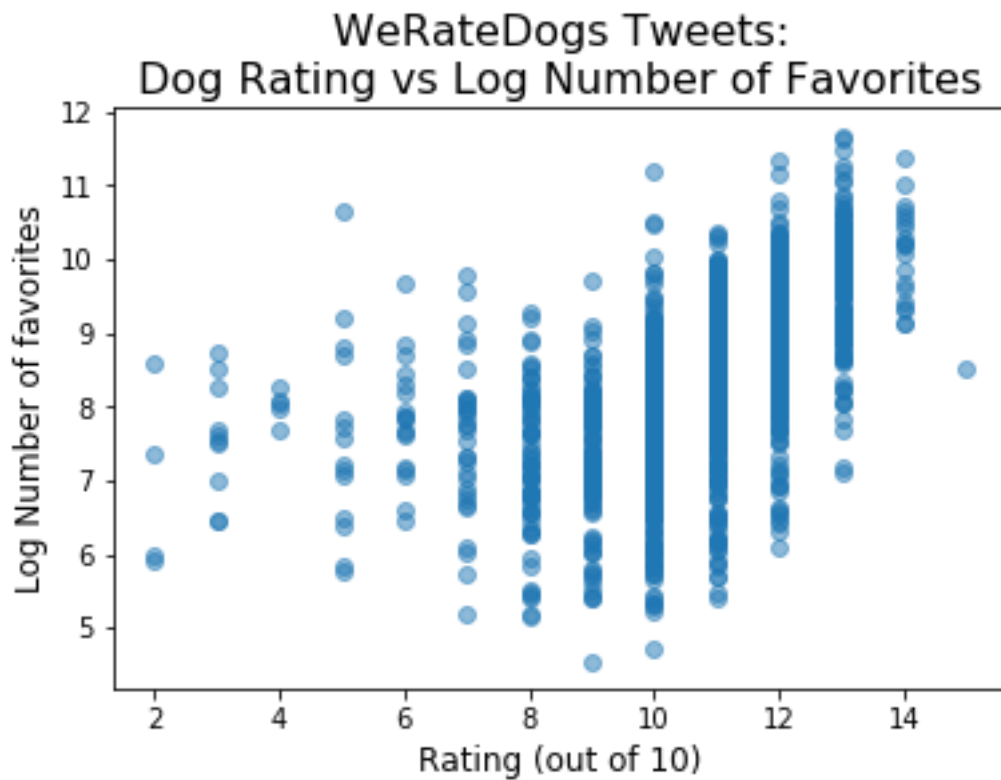
WeRateDogs is a twitter account on which dogs are rated on a score out of ten. Often, they are rated above 10/10. We analysed data on tweets by WeRateDogs to discover some of the factors that might influence the ratings, and the number of retweets and favorites.

Is there a correlation between dog rating and the number of times the tweet is favorited?

A scatterplot of these dog rating vs number of favorites showed that a correlation is likely, although it was difficult to discern the relationship because of the distribution of the number of favorites (which is positively skewed).



Taking log of the number of favorites gave a clearer picture of the relationship.

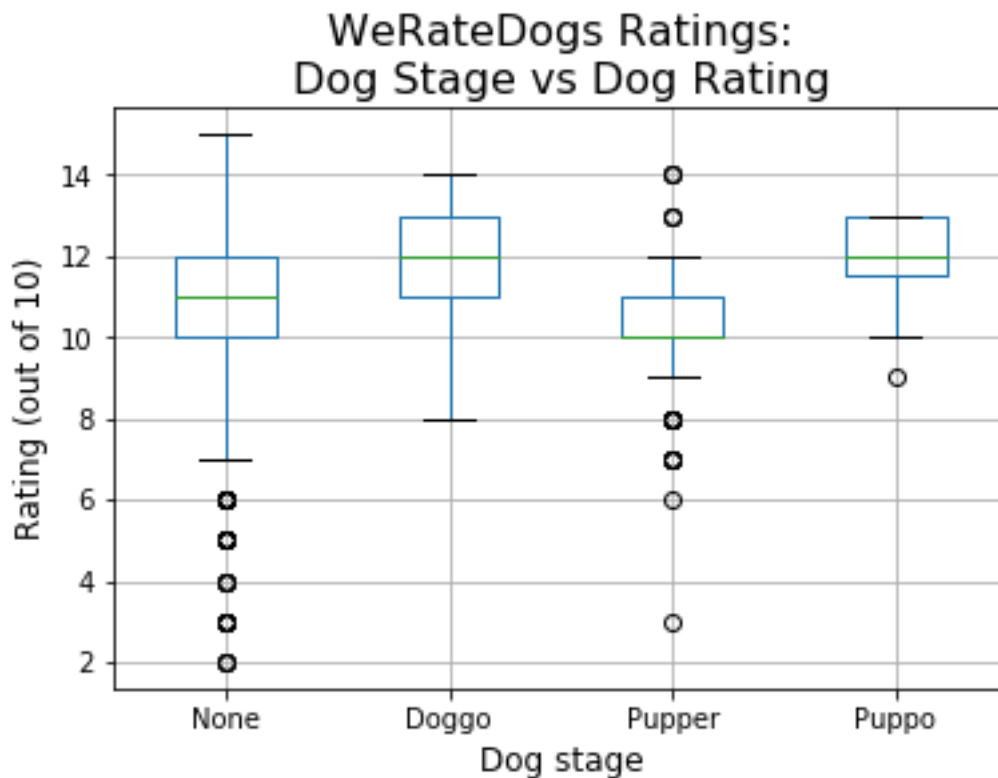


We can clearly see that above 10/10, a higher dog rating is correlated with more tweet favorites. Below 10/10, it looks possible that the rating doesn't make much difference.

### Which stage dogs get the best and worst ratings on average?

Here, stage refers to maturity stage, with puppies being the least mature dogs, doggos the most mature, and puppos somewhere in between.

Boxplots of the ratings for each stage gave a good understanding of the data.



While it's difficult to separate Doggo and Puppo dogs for best ratings, surprisingly (for me at least) Pupper dogs, the youngest category, get the worst ratings on average.

### Which type of dog averaged the most retweets according to the image predictions?

The image prediction algorithm had interpreted some images as being items other than dog breeds, but we were provided with its top three guesses for each tweet. We first extracted the most confident guess that was indeed a dog breed, and then took the average number of retweets per post for each.

The top ten were:

<b>English_springer</b>	<b>10608</b>
<b>standard_poodle</b>	5682
<b>briard</b>	5529
<b>whippet</b>	5179
<b>Afghan_hound</b>	5104
<b>Saluki</b>	5025
<b>French_bulldog</b>	4746
<b>Irish_water_spaniel</b>	3872
<b>cocker_spaniel</b>	3761
<b>Irish_setter</b>	3706

English Springer was the clear winner with an average of 10,608 retweets per post.