

Analysis and visualizations of WeRateDogs

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The analyzed and visualized dataset is the tweet archive of Twitter user [@dog_rates](#), also known as [WeRateDogs](#). WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. These ratings almost always have a denominator of 10 while the numerators are almost always greater than 10. Although the rates should be 1 to 10 in theory, WeRateDogs disagree by admitting that almost all dogs deserve a 10 and sometimes more than that.

WeRateDogs has more than 6 million followers along with international media coverage. One of those media coverage even includes a quote “they’re good dogs Brent” where WeRateDogs shut down a person for having an issue with its rating system in humorous ways.

What's the outlier dog with in the rating_numerator? What dog type is the most favorite? What dog type has the lowest average rating?

	rating_numerator	rating_denominator	favorite_count	retweet_count	img_num	p1_conf	p2_conf	p3_conf
count	1994.000000	1994.000000	1994.000000	1994.000000	1994.000000	1994.000000	1.994000e+03	1.994000e+03
mean	12.280843	10.532096	8895.725677	2766.753260	1.203109	0.593941	1.344195e-01	6.024848e-02
std	41.497718	7.320710	12213.193181	4674.698447	0.560777	0.271954	1.006807e-01	5.089067e-02
min	0.000000	2.000000	81.000000	16.000000	1.000000	0.044333	1.011300e-08	1.740170e-10
25%	10.000000	10.000000	1982.000000	624.750000	1.000000	0.362857	5.393988e-02	1.619283e-02
50%	11.000000	10.000000	4136.000000	1359.500000	1.000000	0.587635	1.174550e-01	4.950530e-02
75%	12.000000	10.000000	11308.000000	3220.000000	1.000000	0.846285	1.951377e-01	9.159438e-02
max	1776.000000	170.000000	132810.000000	79515.000000	4.000000	1.000000	4.880140e-01	2.734190e-01

Key Points:

- The average rating for a dog was 12.281/10 with an maximum value of 1776/10
- The average retweet count for an original tweet was 2766 and a maximum value of 79515.
- The average favorite count for an original tweet was 8895 and a maximum value of 132810.
- The neural network appears to perform the best on the 1st iteration with an average of 0.594

What's the outlier dog with in the rating_numerator?

- The outlier in the rating_numerator seems to be a dog named Atticus. The dog classifier couldn't predict the breed of Atticus due to bowtie and sunglasses.



The most favorite dog

- The most favorite dog looks like Labrador retriever and appears to have no owner. The most favorite dog doesn't have the retweets.

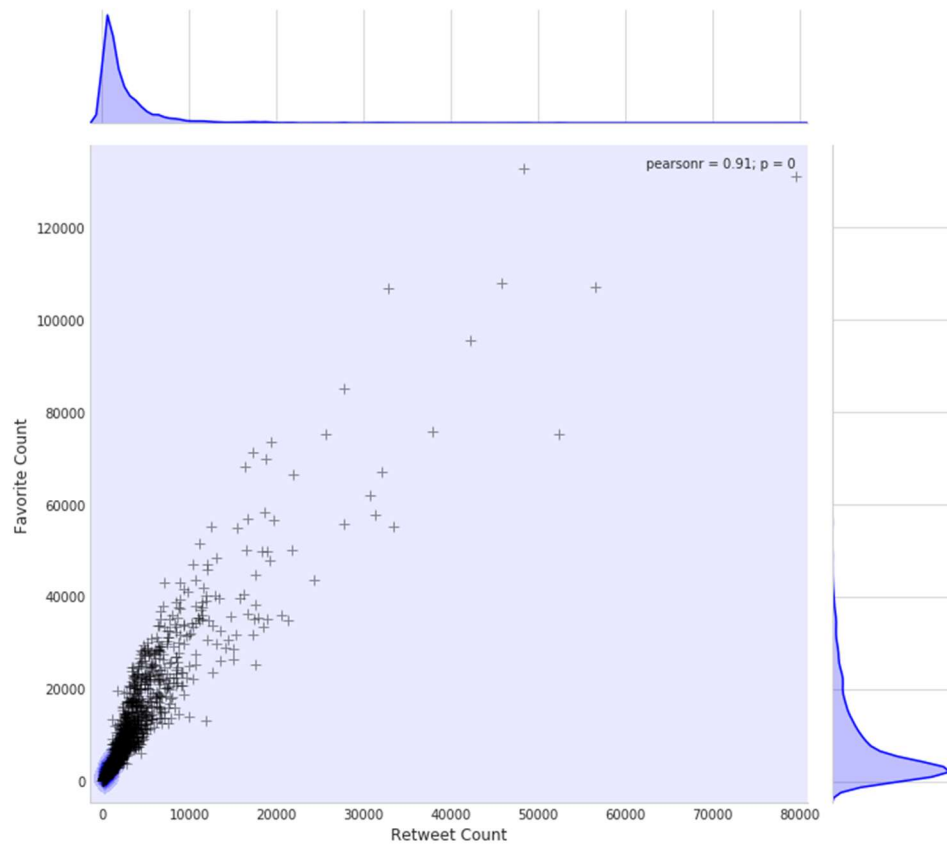


The lowest average rated dog

- The lowest average rated dogs looks like Toy Poodle and appears to have no owner.



What is the correlation between the retweet & favorite counts?



- The plot seems to show a strong correlation between Favorite count and Retweet count with a Pearson correlation coefficient, r equals 0.91, which makes sense since the more popular a tweet, the higher the retweet count and favorite count.