

Analysis and Visualization of WeRateDogs

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Introduction

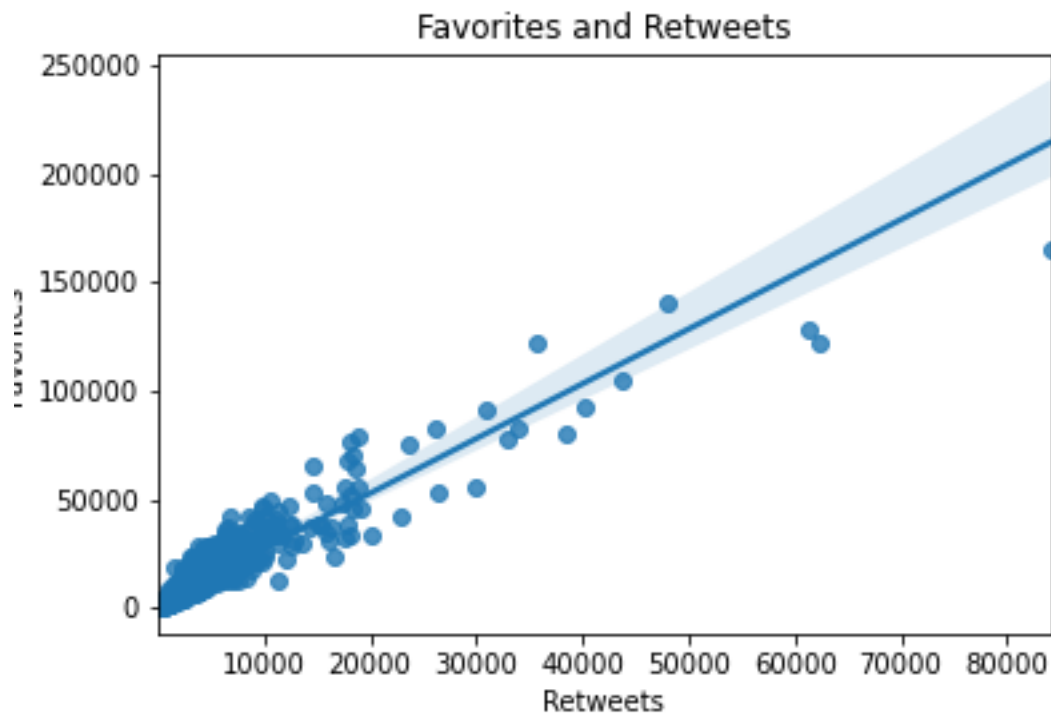
This analysis focuses on the tweets from the tweet archive of Twitter user **@dog_rates**, also known as **WeRateDogs**. They have over 6 million followers and have received international media coverage.



Strong Correlation between Retweets and Favorites

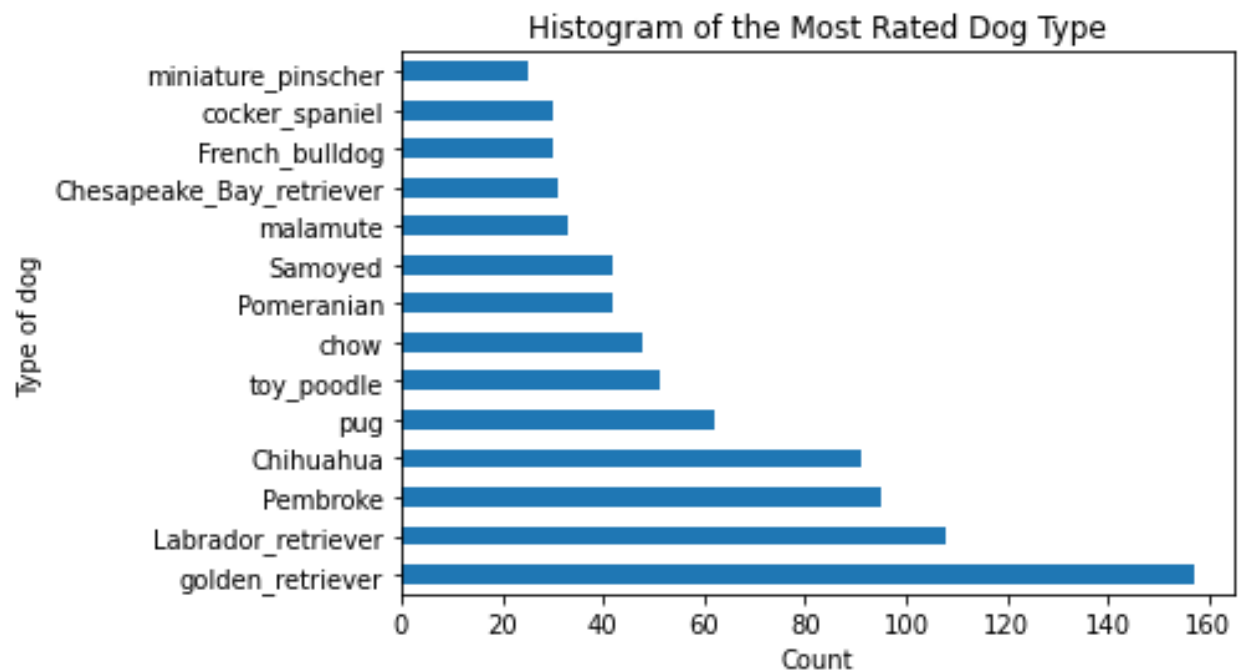
The correlation matrix showed that there was a strong positive relationship between retweets and favorite counts (0.93). This suggests that as a tweet gains Favorites, one can expect to see retweets to increase and vice versa.

	tweet_id	rating_numerator	rating_denominator	favorites	retweets	user_followers	user_favourites	year	month	day	rating
tweet_id	1.000000	-0.003976	-0.007578	0.020885	0.033396	-0.047075	-0.052789	0.006593	-0.012262	-0.038597	0.023477
rating_numerator	-0.003976	1.000000	0.972491	0.063941	0.049535	0.015347	-0.012670	0.110596	-0.083410	-0.006153	0.236466
rating_denominator	-0.007578	0.972491	1.000000	-0.029120	-0.020842	0.010781	-0.007937	-0.002601	-0.039911	0.005020	0.009526
favorites	0.020885	0.063941	-0.029120	1.000000	0.931613	0.022560	0.003126	0.514754	-0.143561	-0.020933	0.406881
retweets	0.033396	0.049535	-0.020842	0.931613	1.000000	0.032485	0.009532	0.316436	-0.079247	-0.037787	0.307838
user_followers	-0.047075	0.015347	0.010781	0.022560	0.032485	1.000000	0.935787	0.119980	-0.214920	0.017712	0.022084
user_favourites	-0.052789	-0.012670	-0.007937	0.003126	0.009532	0.935787	1.000000	-0.030827	0.003924	0.014891	-0.022182
year	0.006593	0.110596	-0.002601	0.514754	0.316436	0.119980	-0.030827	1.000000	-0.705925	-0.090148	0.503803
month	-0.012262	-0.083410	-0.039911	-0.143561	-0.079247	-0.214920	0.003924	-0.705925	1.000000	0.097154	-0.204817
day	-0.038597	-0.006153	0.005020	-0.020933	-0.037787	0.017712	0.014891	-0.090148	0.097154	1.000000	-0.051198
rating	0.023477	0.236466	0.009526	0.406881	0.307838	0.022084	-0.022182	0.503803	-0.204817	-0.051198	1.000000



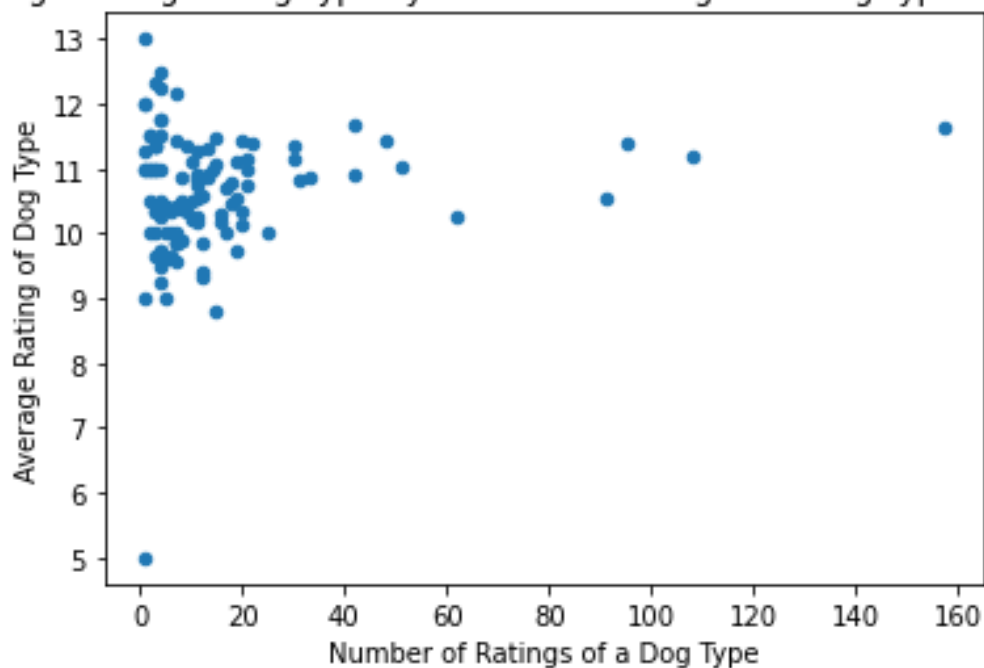
Most Common Dog Type

The most rated dog was golden retriever with more than 140 ratings. On the opposite end of the scale was the miniature pinscher.



The blue dot on the very right, in the plot below, represents the approximately 140 ratings of golden retriever. On average these ratings are high 11.59. This shows that the golden retriever is very popular.

Average Rating of Dog Type by Number of Ratings of a Dog Type Scatter Plot



Retweets

Many tweets have been retweeted more than 1000 times some more than even 50000 times. However, there is no clear relationship between the ratings and the retweets.

