



Analysis and Visualizing of WeRateDogs Data

24 May 2020

Introduction



This analysis focuses on the tweets from the tweet archive of Twitter user @dog_rates, also known as **WeRateDogs**. They have over 8 million followers and have received international media coverage.

Strong Correlation between Retweets and Favorites

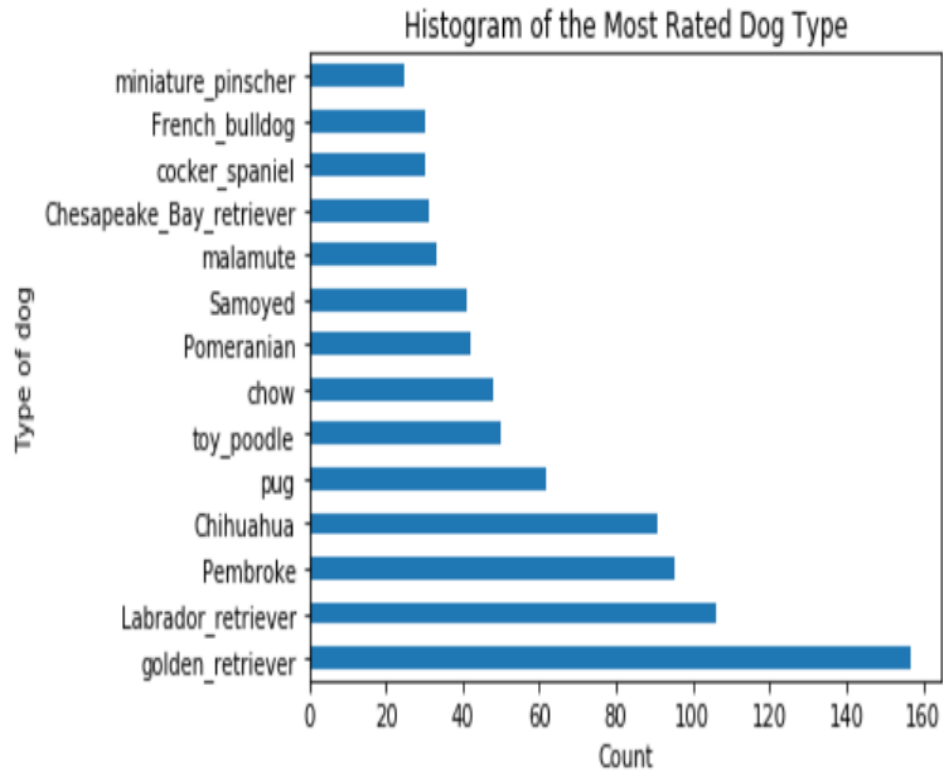
The correlation matrix showed that there was a strong positive relationship between between retweets and favorite counts (0.93). This suggest that as a tweet gains Favorites, one can expect to see retweets to increase and vice versa.

Out[50]:

	tweet_id	rating_numerator	rating_denominator	favorites	retweets	user_followers	user_favourites	year	month	day	rating
tweet_id	1.000000	-0.003946	-0.007773	0.024427	0.036592	0.015520	0.015583	0.006815	-0.011943	-0.036478	0.024508
rating_numerator	-0.003946	1.000000	0.972591	0.063483	0.049241	-0.016062	-0.005202	0.110080	-0.083024	-0.005781	0.236278
rating_denominator	-0.007773	0.972591	1.000000	-0.028948	-0.020645	-0.007500	-0.009696	-0.002374	-0.040049	0.004986	0.009769
favorites	0.024427	0.063483	-0.028948	1.000000	0.930970	-0.065675	-0.009127	0.513437	-0.142217	-0.018926	0.404880
retweets	0.036592	0.049241	-0.020645	0.930970	1.000000	-0.052881	-0.015765	0.315252	-0.078485	-0.037419	0.306255
user_followers	0.015520	-0.016062	-0.007500	-0.065675	-0.052881	1.000000	0.993880	-0.097882	0.025067	0.011281	-0.039128
user_favourites	0.015583	-0.005202	-0.009696	-0.009127	-0.015765	0.993880	1.000000	-0.004779	-0.012825	0.006804	0.018530
year	0.006815	0.110080	-0.002374	0.513437	0.315252	-0.097882	-0.004779	1.000000	-0.705384	-0.087455	0.501498
month	-0.011943	-0.083024	-0.040049	-0.142217	-0.078485	0.025067	-0.012825	-0.705384	1.000000	0.095344	-0.202900
day	-0.036478	-0.005781	0.004986	-0.018926	-0.037419	0.011281	0.006804	-0.087455	0.095344	1.000000	-0.049503
rating	0.024508	0.236278	0.009769	0.404880	0.306255	-0.039128	0.018530	0.501498	-0.202900	-0.049503	1.000000

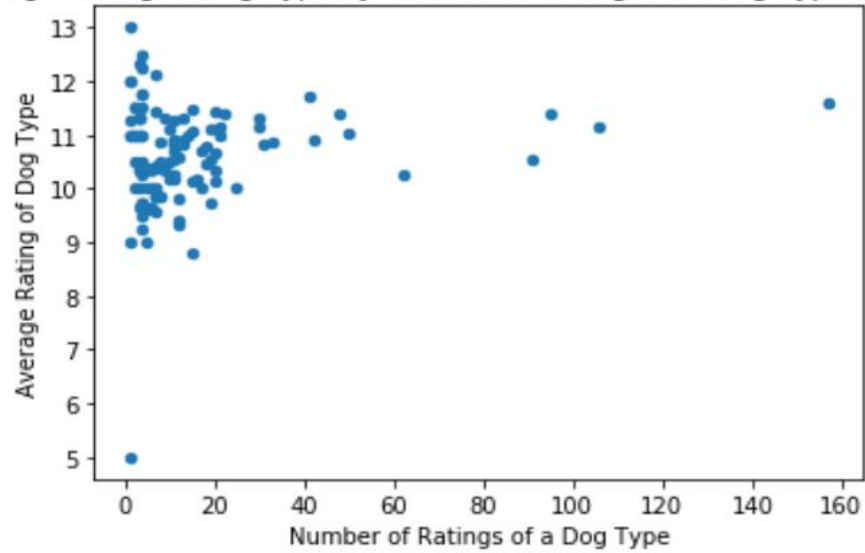
Most Common Dog Type

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 60000 times. However, there is no clear relationship between the ratings and the retweets.

