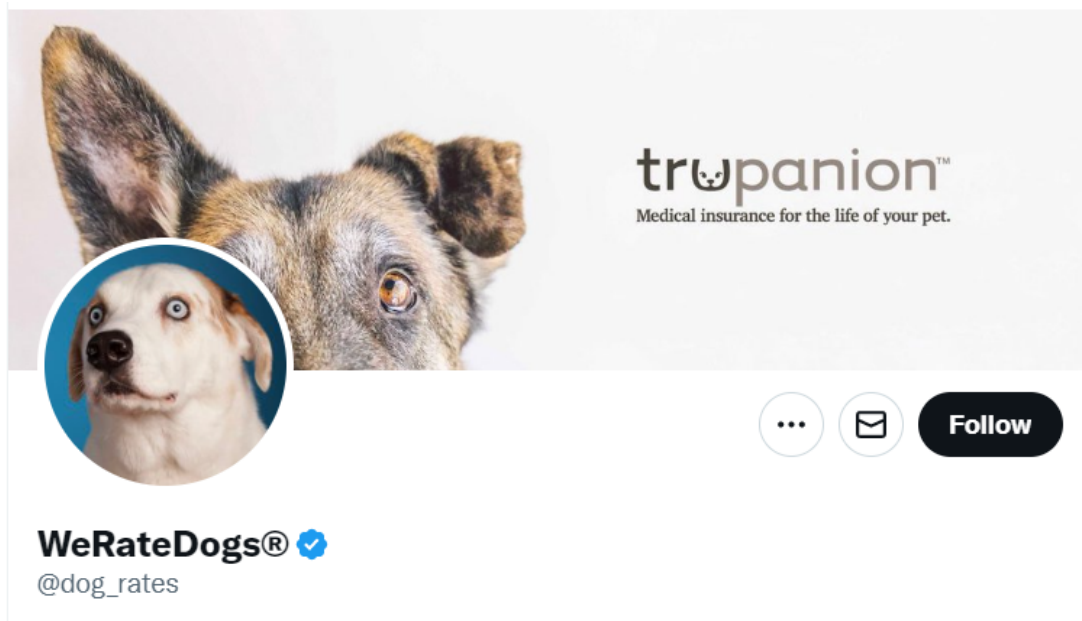


WeRateDogs Data Wrangling and Analysis

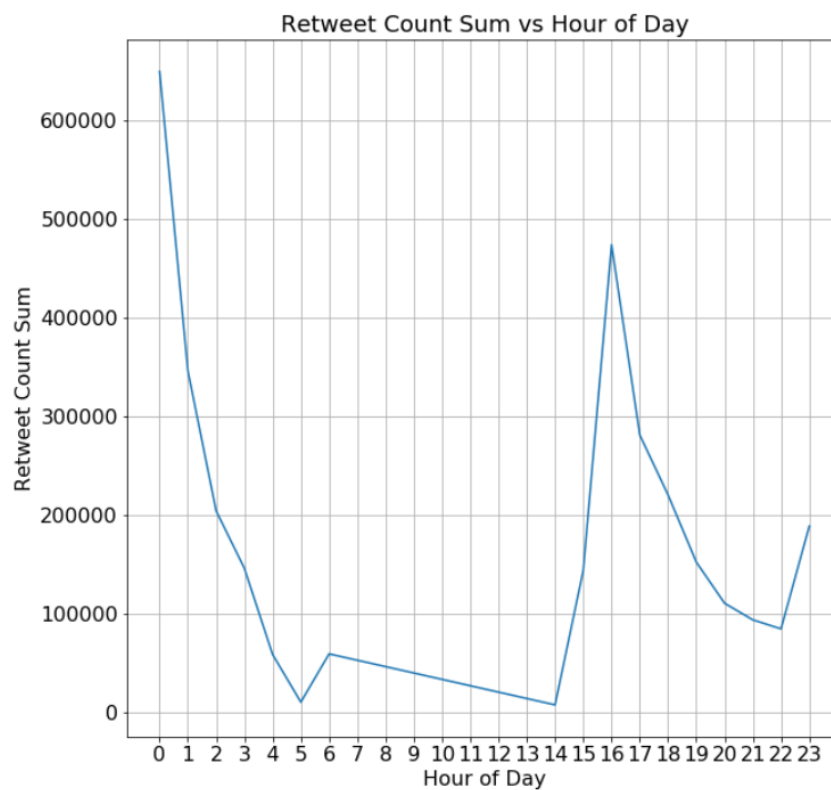


We will cover the analysis results and insights for WeRateDogs. WeRateDogs is an account on Twitter that allows users to rate dogs.

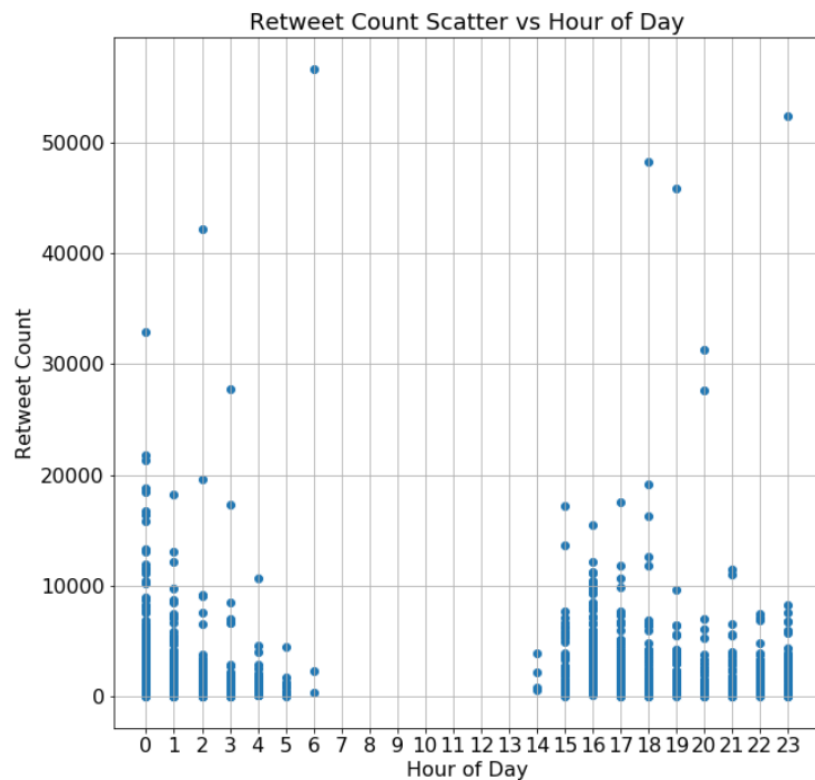
Peak Times of Retweets

By plotting the sum of the retweet counts for every hour of the day we get the table

hr	retweet_count
0	648884
1	345992
2	204120
3	145910
4	58647
5	10361
6	59236
14	7591
15	144086
16	473511
17	280822
18	220207
19	152208
20	110544
21	93688
22	84549
23	188574



There are two peak times at 12:00 AM and 16:00 PM or retweets with sum of retweet counts reaching 648884 and 473511 respectively.

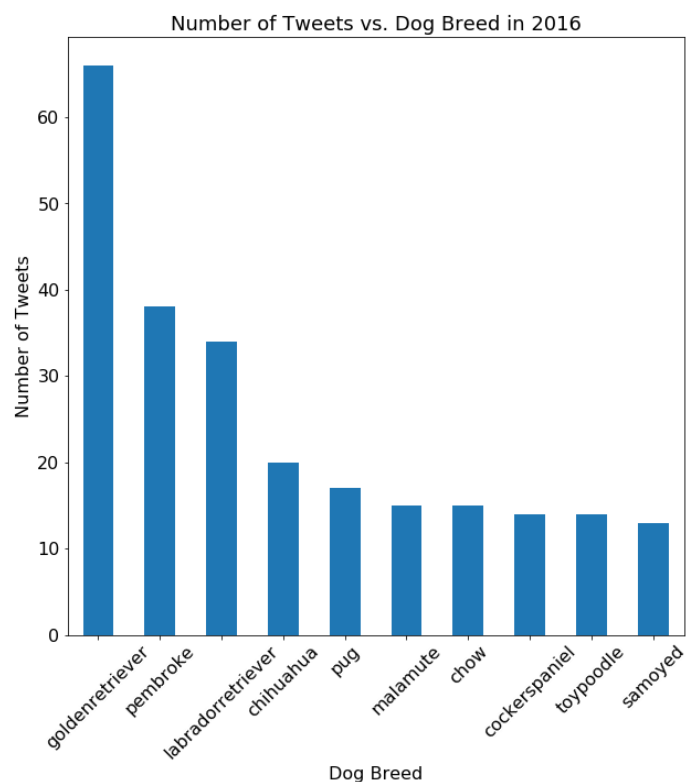


By further investigating the distribution of the retweet counts for every hour of the day, we find that tweets are zero during the period 7:00 AM to 1:00 PM.

Dog Breed with highest Number of Tweets and Retweets in 2016

We include the bar chart of top 10 dog breeds and corresponding number of tweets in 2016 along with the table for the values matching the graph. Golden Retriever has the largest number of tweets (counting the number of tweets for each breed) (66 tweets) followed by Perbroke (38 tweets), and Labrador Retriever (34 tweets) in 2016.

index	number of tweets
goldenretriever	66
pembroke	38
labradorretriever	34
chihuahua	20
pug	17
malamute	15
chow	15
cockerspaniel	14
toypoodle	14
samoyed	13



For the total number of retweet counts (summing the retweet_counts of each breed), the table shows that Golden Retriever breed has the largest number of total retweets counts (221653 tweets) followed by Pembroke (98058 tweets), and Chihuahua (93770 tweets) in 2016.

breed	total_retweet_count
goldenretriever	221653
pembroke	98058
chihuahua	93770
labradorretriever	92502
eskimodog	63462
samoyed	58935
malamute	41734
cockerspaniel	38498
chow	32982
miniaturepinscher	31892

Day of the Week with the Largest Number of Total Retweets in 2016

Monday has the largest number of total retweets (sum of retweet_count) (250439) followed by Friday(240056), and Wednesday(211173) in 2016

day_of_week	retweet_count
Mon	250439
Fri	240056
Wed	211173
Tue	196793
Sun	189200
Sat	186960
Thu	178383

Monthly Tweets Count in 2016

In 2016, January had the highest number of tweets 98, while in May the number of tweets were the lowest with only 30.

