Analysis Report of WeRateDogs Twitter

Udacity DAND - Wrangle and Analyze Data Project

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■ Introduction

WeRateDogs is a famous Twitter that rates people's dogs in a houmorous manner.
For example, dogs quite often get rate higher than 10/10, like 25/10 rate, which is over full mark.

There are three commons in the tweets:

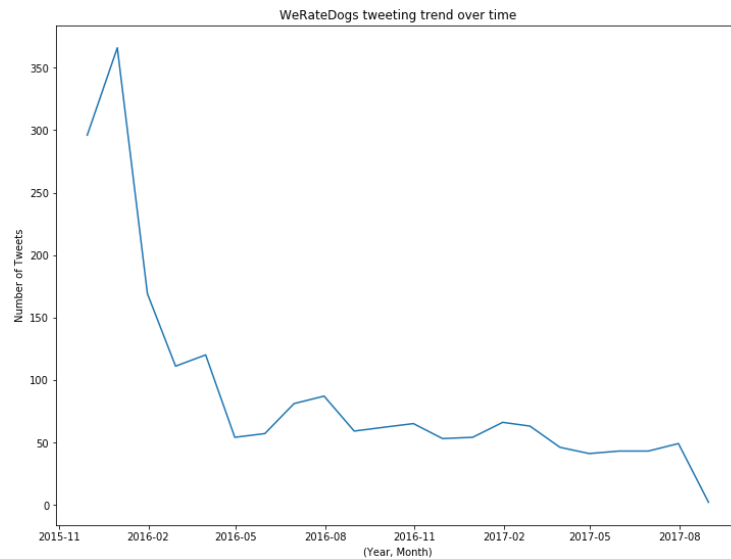Dog's pictures, comments and rates.

Here is an example of it :

Now we're finding out a variety of insight out of wrangling WeRateDogs twitter data.

■ Number of tweet changed over time

Let's see how many tweets are made and how does it change over time.

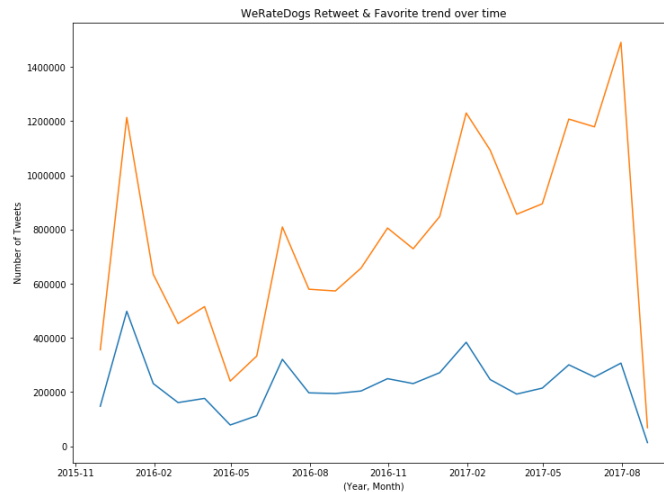
This is the plot of the number of tweets by month.

Tweets had been decreased continuously. Specially, There is a dramatic drop in early 2016. It seems to be turned into growth in mid 2016, but soon began to decline again

If I had a full-dataset of entire tweet count, I were able to compare with it, then I could know this decline trend is only for WeRatedogs or for Twitter platfrom.

In my personal opinion, It's more likely that latter is true since None of my use acquaintance use twitter these days.

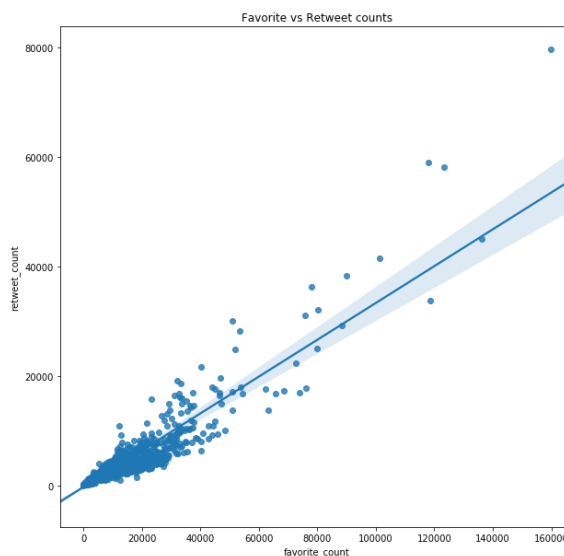## ■ Number of Retweets and Favorites.

How about the retweets and favorites while the tweets decreased ?

WeRateDogs Retweet & Favorite trend over time

Despite of the continuous decrease of tweets, The trend of retweet and favorite doesn't seems to be declined. Hypothetically speaking, while Twitter's user had been getting declined, the royalty of regular visitor of WeRateDog looks like bigger.

■ Favorite vs. Retweet Counts.

Seeing the previous plot, It looks like there is a correlation between favorite and retweet count. Let's figure it out.
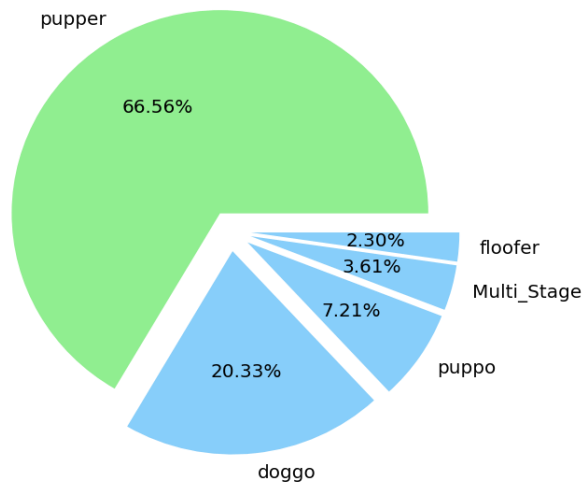

Favorite vs Retweet counts

Retween count of the tweet is in proportion to favorite count ,cosidering the linear regression plot.Given the slope of the line, favorite count is usually higher than retweet.

As the correlation is pretty strong, It is able to predict number of retweet count out of favorite count using some machine learning or statistics technique.
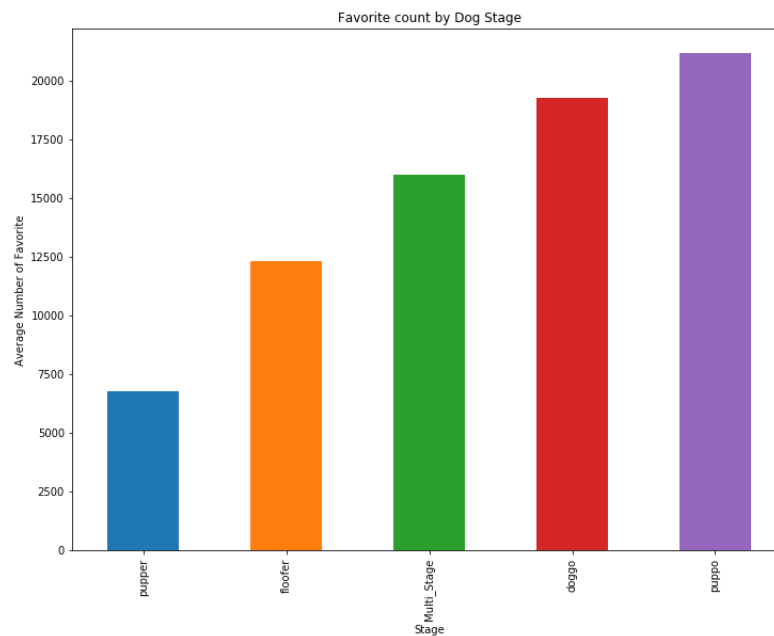
■ Favorite Dog Stage.

There are 4 dog stage in the dataset. Let's see what is the most popular.

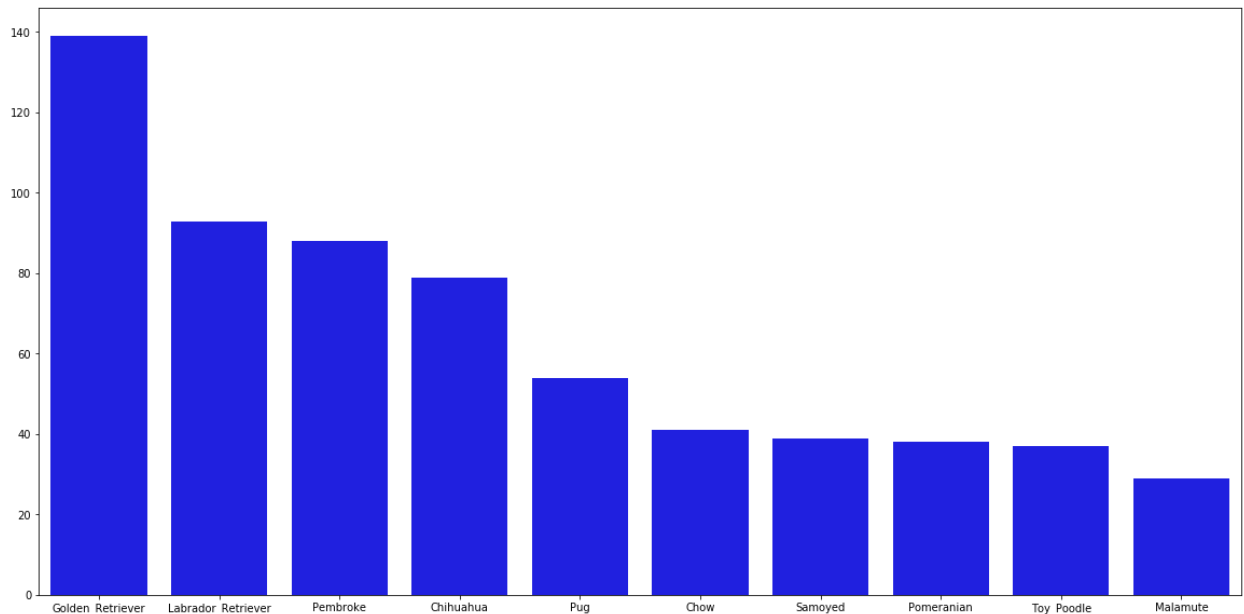By a wide margin, Most popular is 'pupper' based on count.

Next is the rank based on favorite count.

Puppo is the first this time.

■ Top 10 dogs breed

Using the prediction, Let's figure out what breed of dog is most popular.

Golden Retriever is most popular dog breed

Labrador Retriever, genetically very similar with Golden Retriever, is 2nd breed.

It shows that Retrievers is very popular to people.