# Analysis and visualization of the tweets of WeRateDogs

WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. WeRateDogs has over 4 million followers and has received international media coverage. Here we analysed over 2000 tweets of the original ratings (no retweets) with images, posted by WeRateDogs from November 15th, 2015 till August 1st, 2017 from a few aspects as below.

1. **Trends over time:**

As shown by the figure below, there were 269 original dog rating tweets posted in November 2015, which increased to 354 tweets in December 2015, after that, the tweet number gradually decreased with time to 51 in July 2017. Despite the decreased tweet number, the monthly total retweets remained similar, while the monthly likes increased over 5 times during the time-frame.

Retweeting and Favoriting Trends Over Time
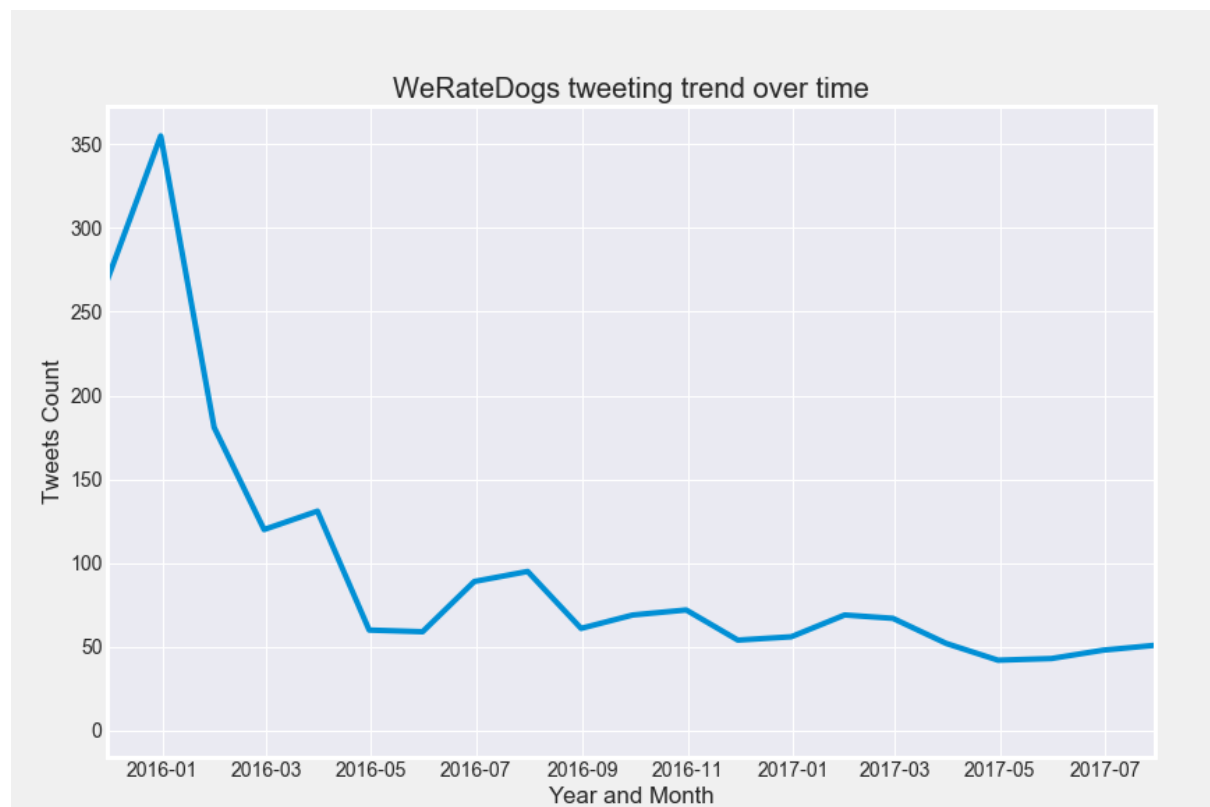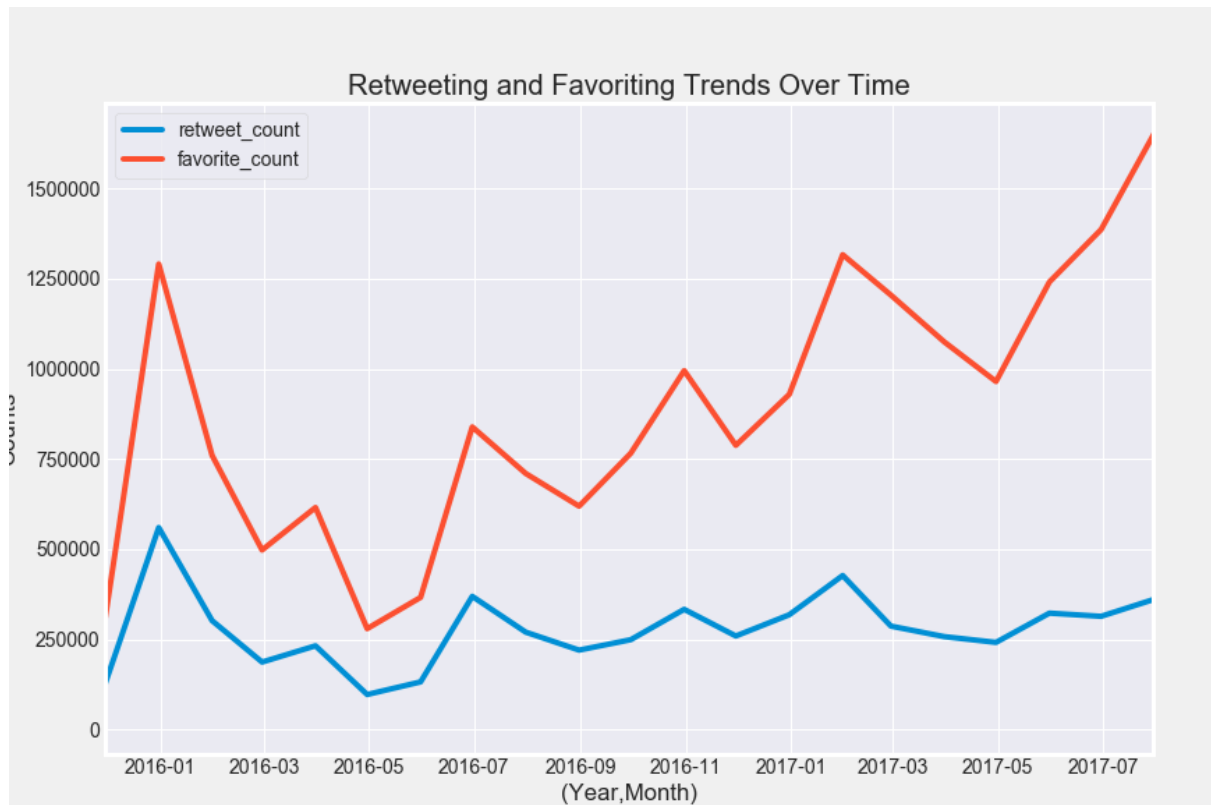
## 2. Rating numerators:

As known to all, WeRateDogs is famous about its unique rating system, which always contains a rating denominator of 10 and a numerator almost always greater than 10. From analysis, we can see that the most common rating numerators were 12, 10 and 11. It also makes sense that both retweets and likes went up with the increased ratings.
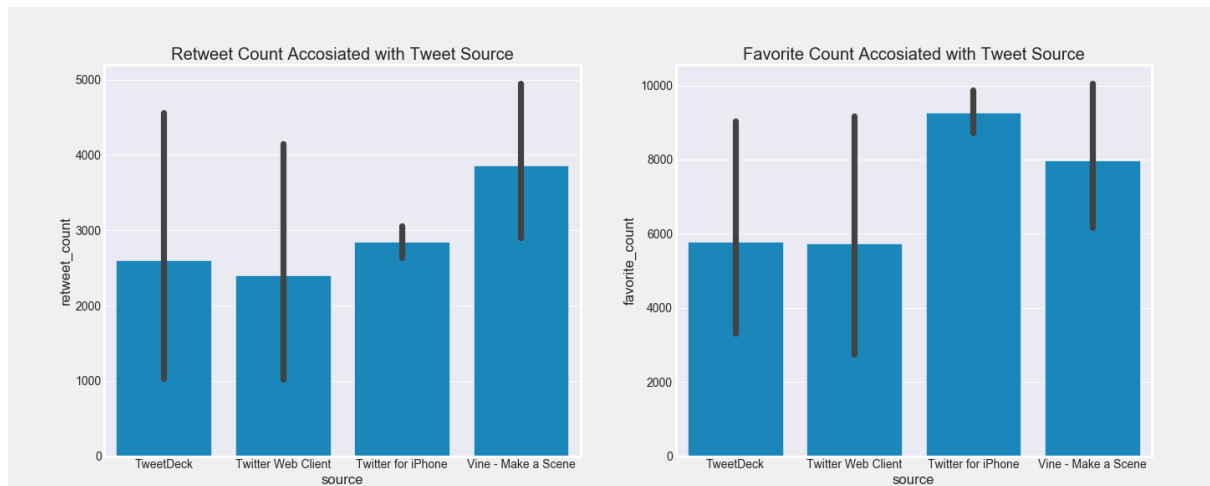


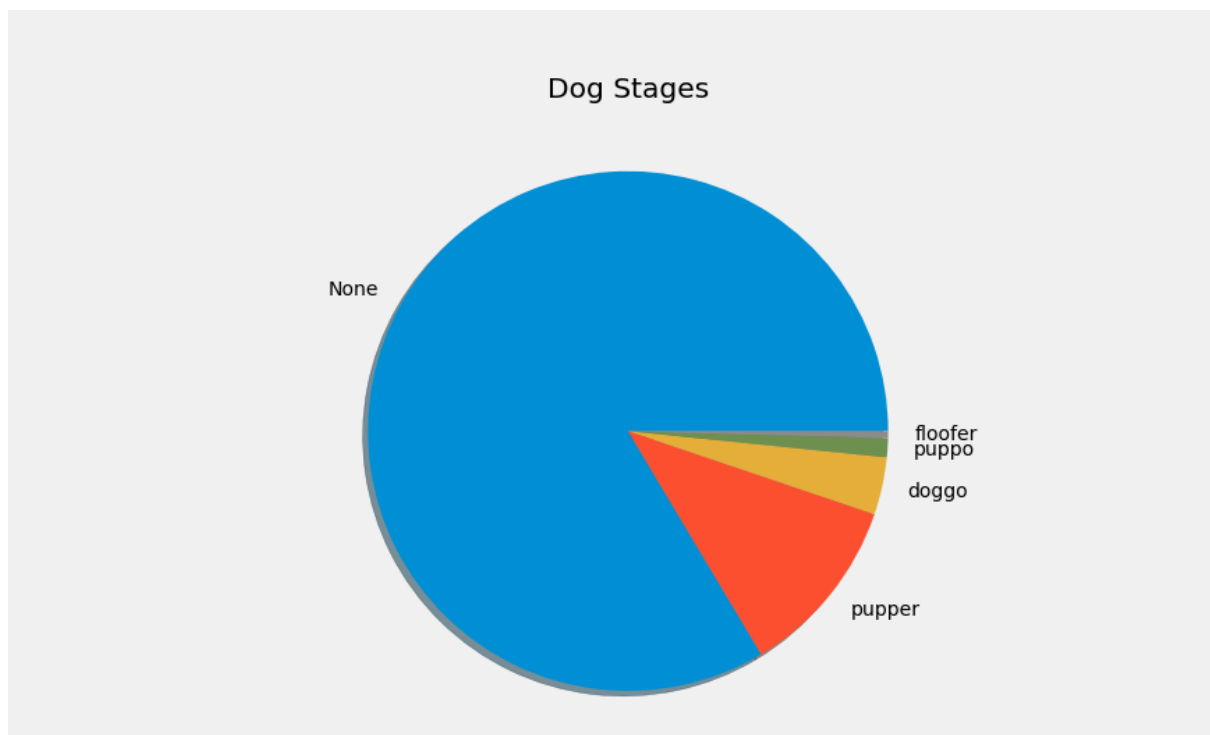Rating Counts
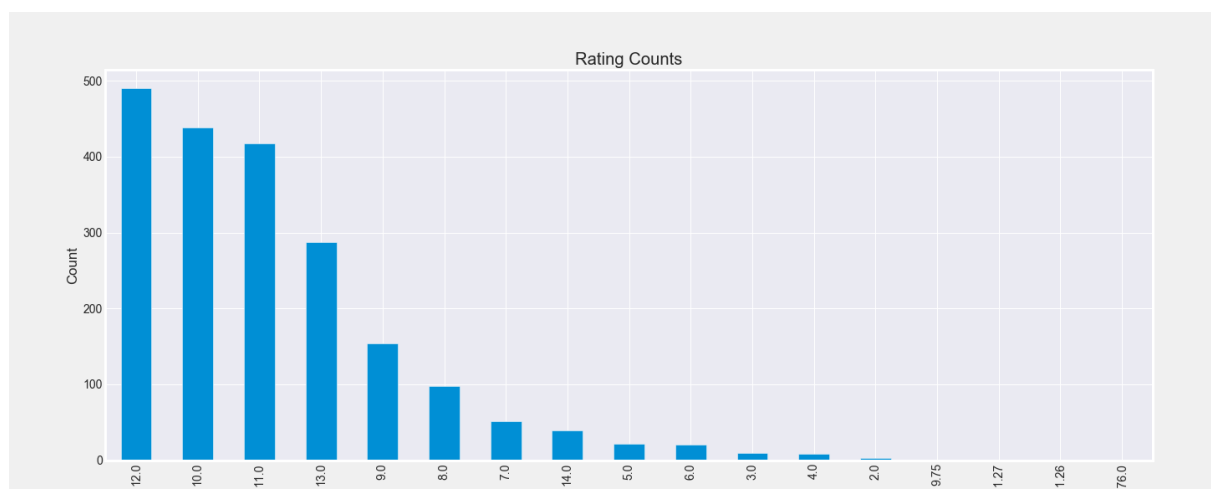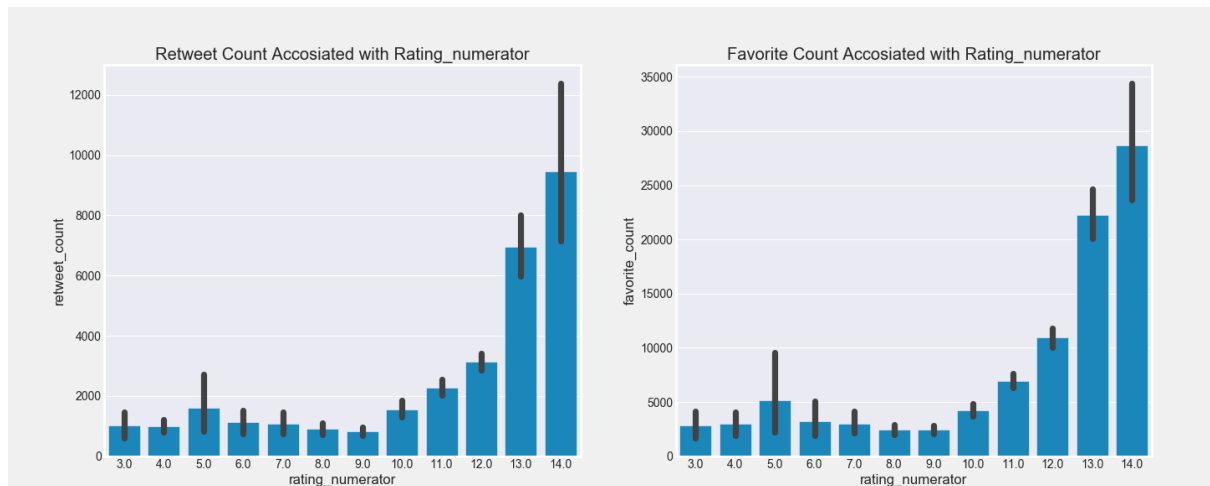
### 3. Twitter sources:

Among the four sources showed below, over 90% of twitters used Twitter for iphone, while the other three: Vine – Make a Scene, Twitter Web Client, and TweetDeck only contributed 10% in total. Although iphone twitters were also associated with highest likes, the highest retweets were gained by Vine – Make a Scene users.
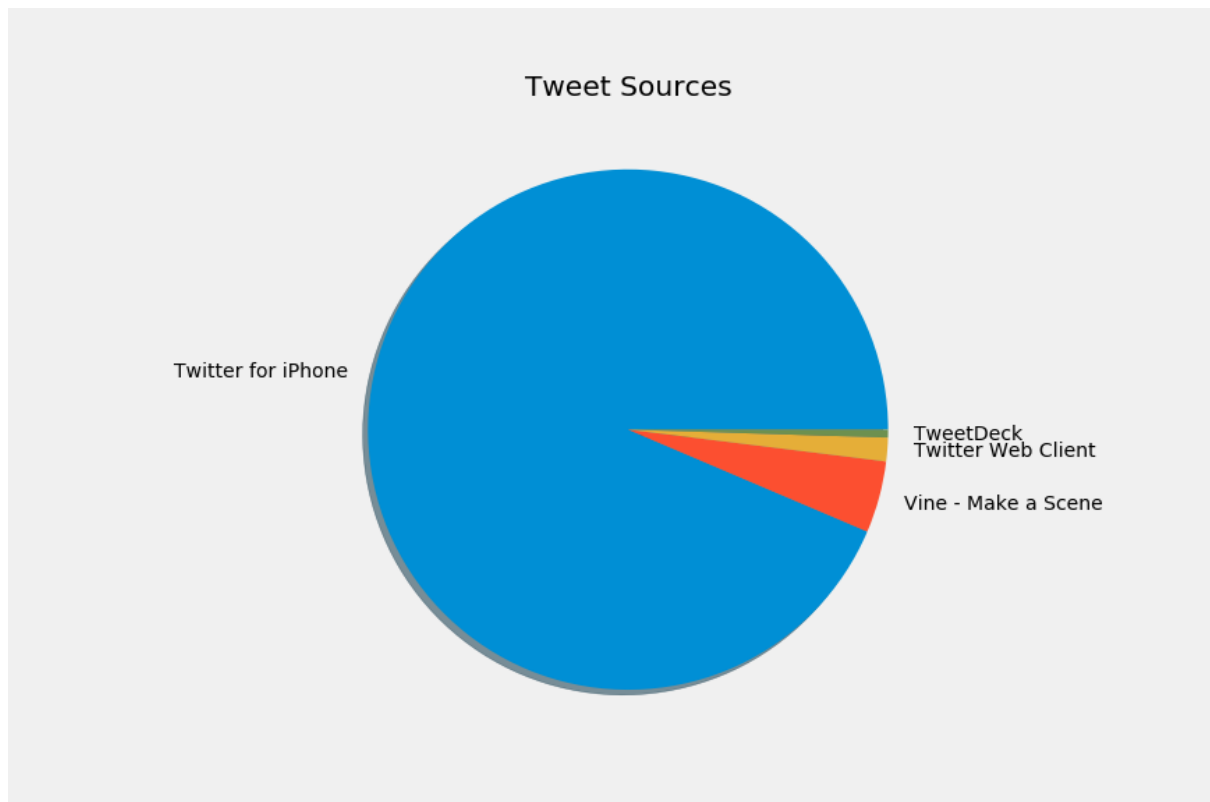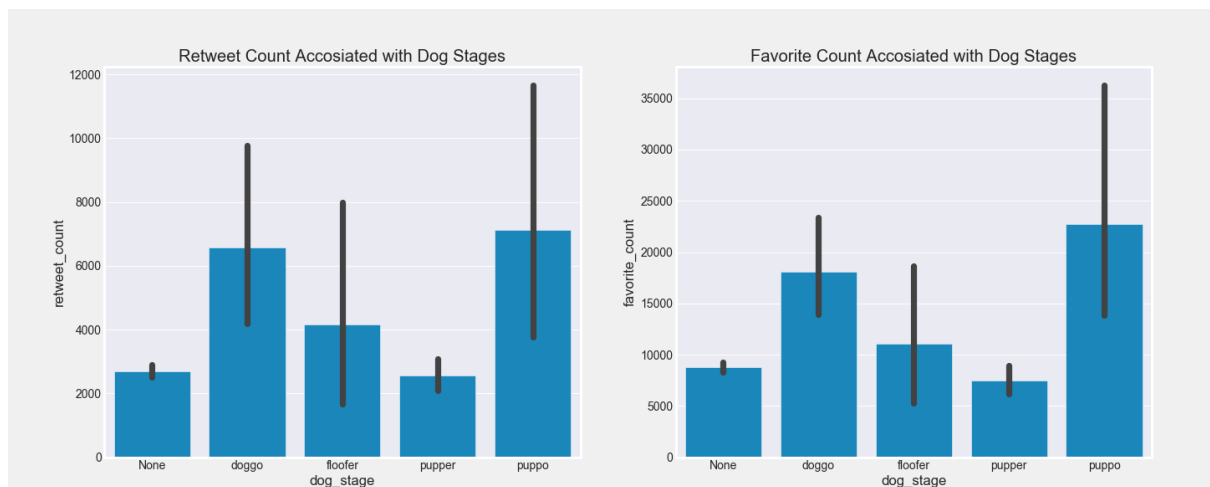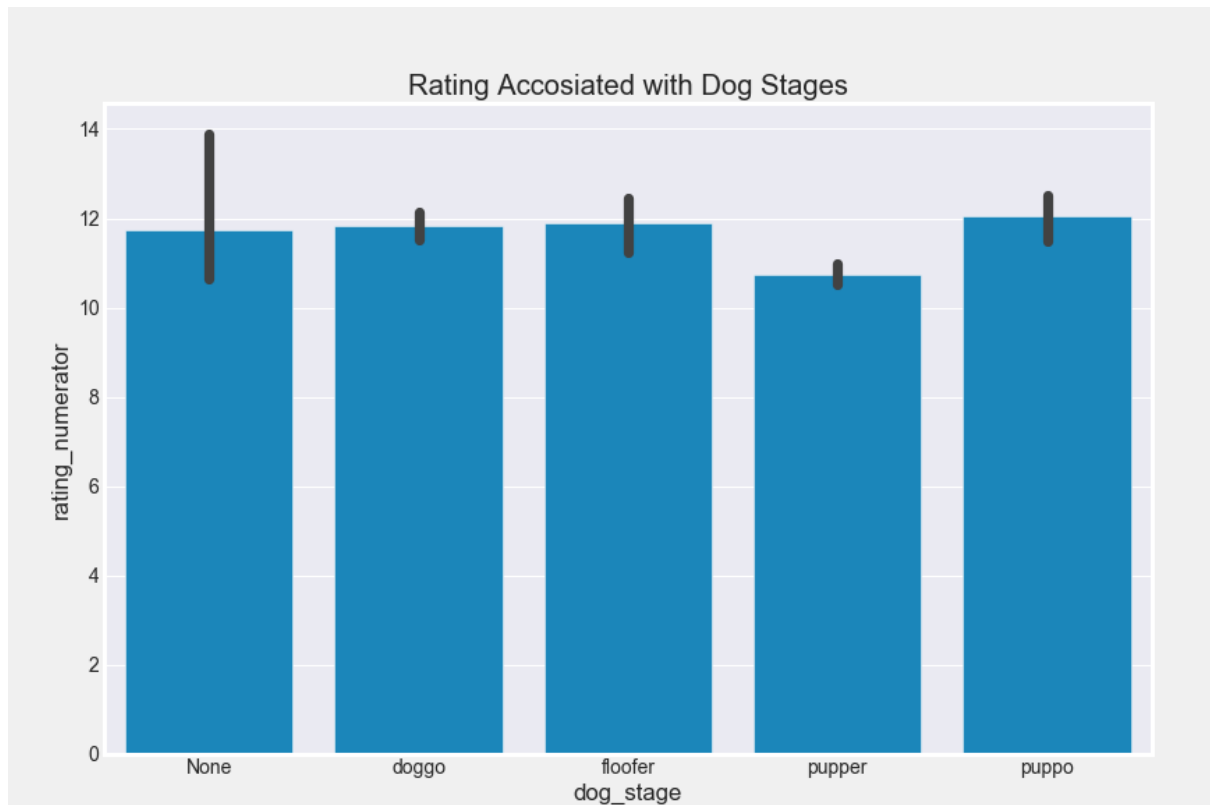
## 4. Dog stages:

Although 85% of the tweets didn't give a clear description of the stage of the dog rated, out of the remaining 15% tweets, the majority dog stage was pupper. However, the average rating of puppers was the lowest among the four stages. Again, puppers showed the worst performance when judging by the retweets and likes, while doggo and puppo were the clear winners.

Rating Accosiated with Dog Stages



Retweet Count Accosiated with Dog Stages

Favorite Count Accosiated with Dog Stages

### 5. Dog breeds:

According to the dog breeds predicted by the neural network, the top 10 dog breeds of these tweets were Golden retriever, Labrador retriever, Pembroke, Chihuahua, Pug, Toy poddle, Chow, Samoyed, Pomeranian and Malamute. Although Samoyed was not the most frequent dog breed showed in the tweet, it was the most popular one, which gained the highest ratings, retweets and likes.

Dog breeds

Dog breeds

Retweet Count Accosiated with Dog Breed

Favorite Count Accosiated with Dog Breed