## Introduction:

The goal of this project is to wrangle, analyze and visualize data from 3 sources associated with WeRateDogs Twitter account. People send their dogs photos to the account, then the account tweets selected photos with humorous comment and a rating that almost often higher than 10/10. After collecting the data, assessing and cleaning data issues were done. Finally, insights and visualizations were produced. They can be seen below.
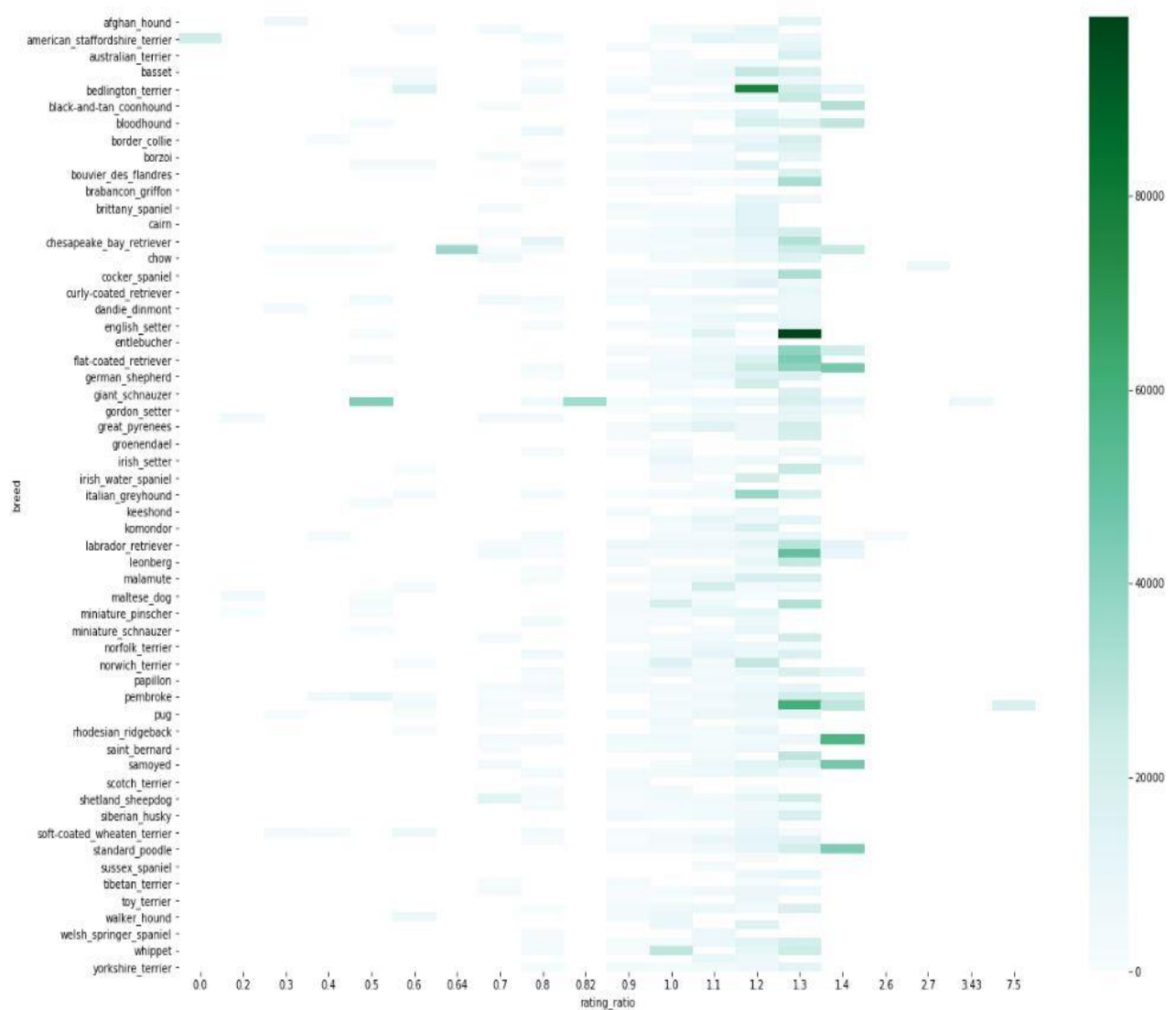
The most common dog names
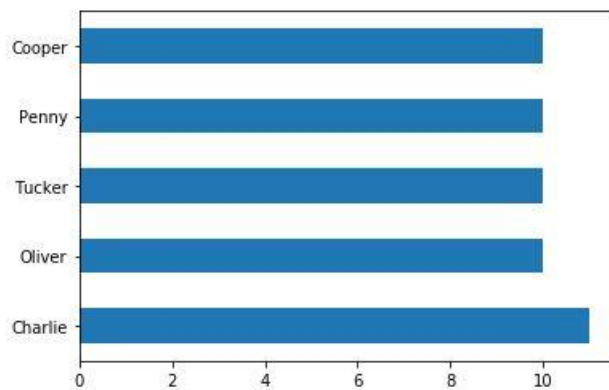
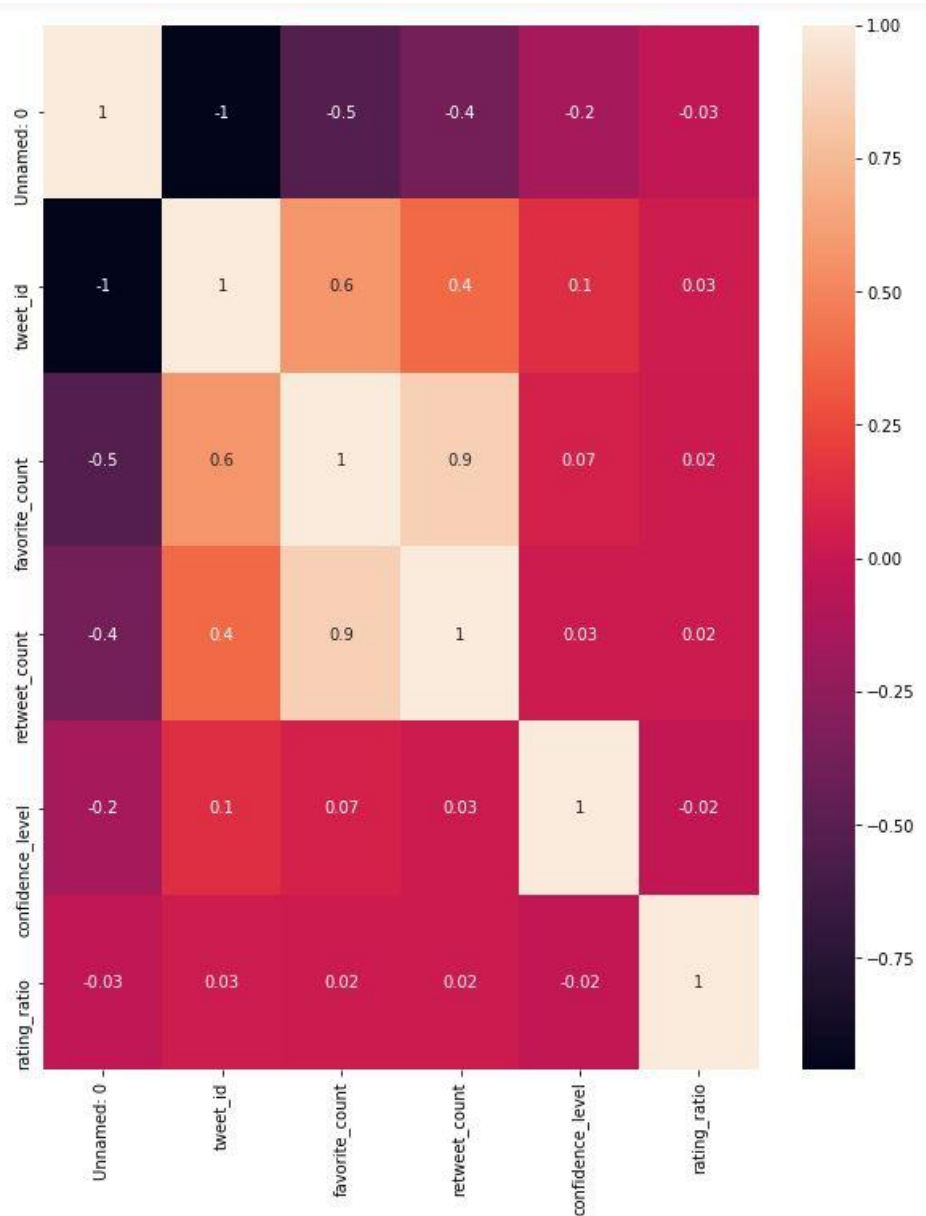The most 5 popular dog name in WeRateDogs are Charlie, Oliver, Tucker, Penny and Cooper.

Dog breeds rating ratio

The heatmap illustrates that the majority of breeds have rating between 10 to 13.
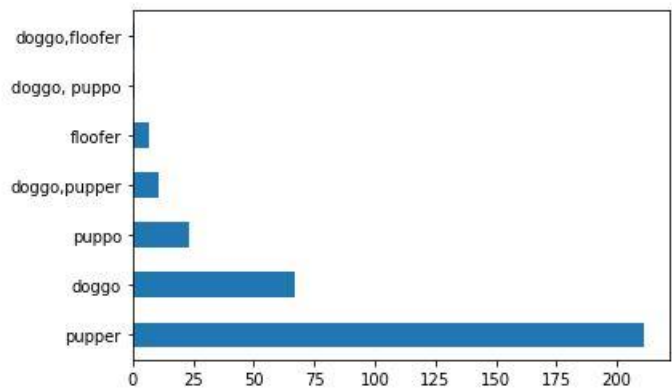
Correlation

The heatmap shows that the WeRateDogs tweets rating ratio has no relationship with retweet count and favorite count. However, there is a strong correlation between retweet count and favourites count which means an increase in retweets would lead to an increase in likes.

|	Unnamed: 0	tweet_id	favorite_count	retweet_count	confidence_level	rating_ratio
Unnamed: 0	1	-1	-0.5	-0.4	-0.2	-0.03
tweet_id	-1	1	0.6	0.4	0.1	0.03
favorite_count	-0.5	0.6	1	0.9	0.07	0.02
retweet_count	-0.4	0.4	0.9	1	0.03	0.02
confidence_level	-0.2	0.1	0.07	0.03	1	-0.02
rating_ratio	-0.03	0.03	0.02	0.02	-0.02	1

The most common dog type

The bar chart shows that Pupper is the most common dog type in WeRateDogs while Floofer is least common one.

How retweet counts changed over time?

We cut the time and count the retweet counts obtained every month. The line chart shows that during the specific time period, the retweet count is particularly high in the early spring of 2016, then it sharply decreases with spikes in activity during mid-summer of 2016, and it has a steady decrease from there.
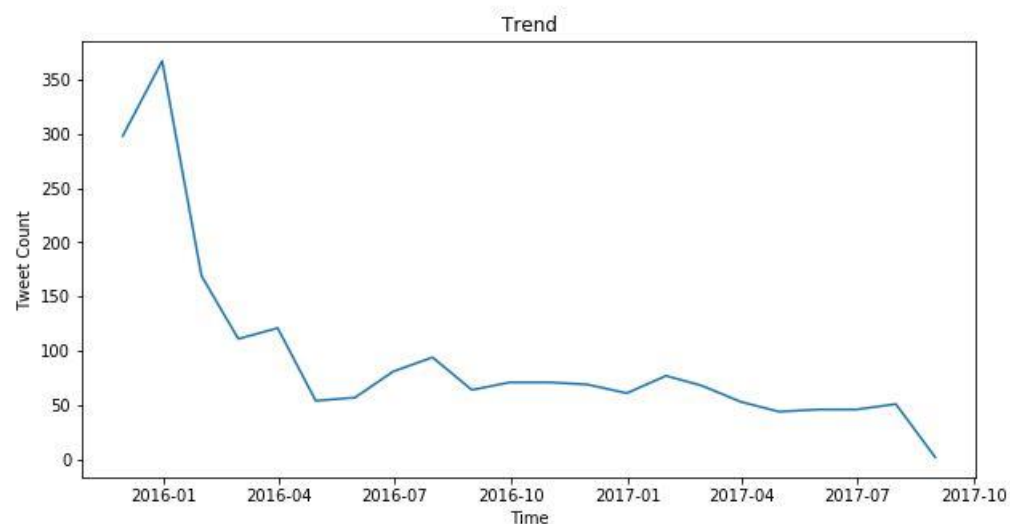
Top rated dog breeds

Top Rated Dog Breed
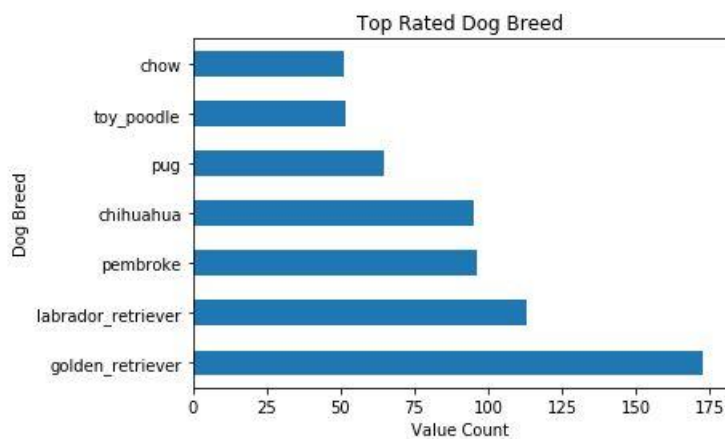
We use the bar graph to show that the top 3 rated dog categories are Golden Retriever, Labrador Retriever and Pembroke. This might help the account owner to drive user traffic to the page by utilizing the popularity of certain breeds.