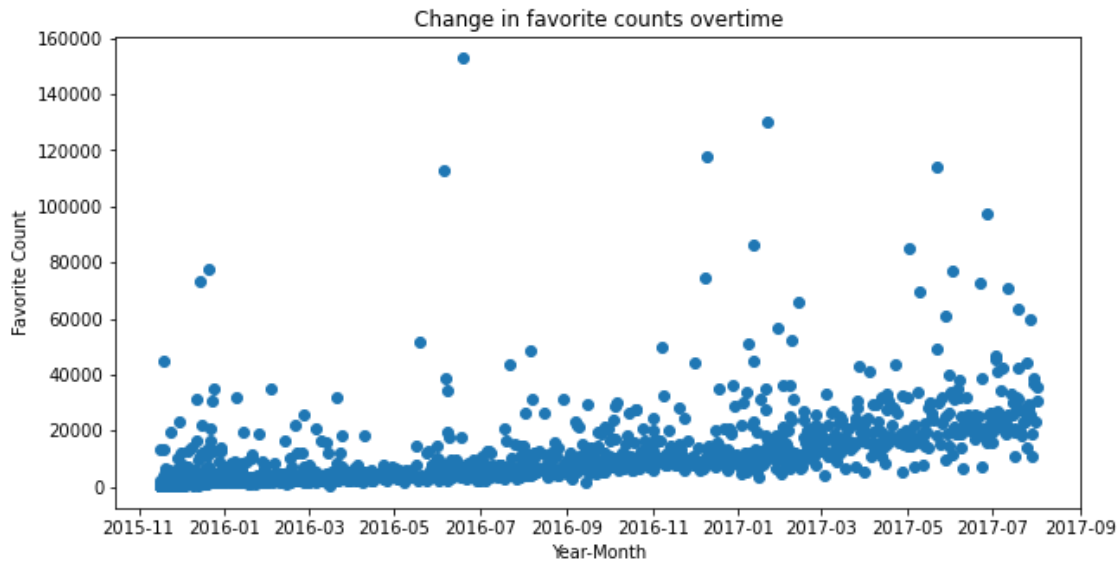


# Visualizations and Insights for WeRateDogs Twitter Page

By Jordan Mazza

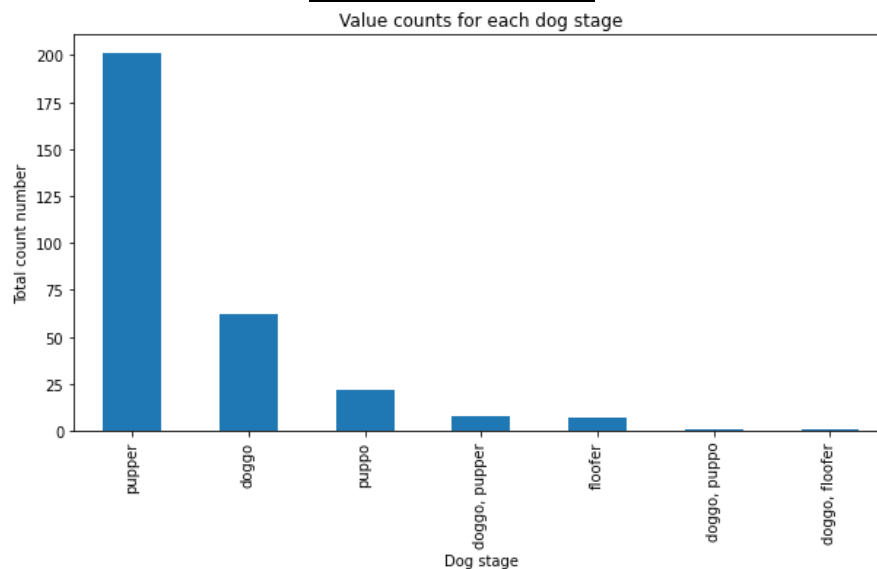
## First Visualization

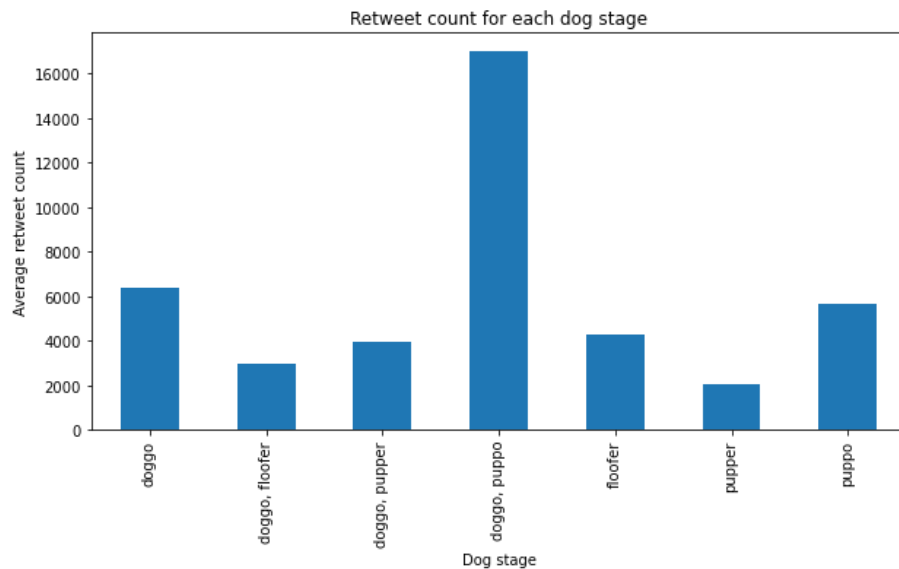


### Insights:

According to this graph, it appears that between late 2015 – when the account was first created – and late 2017, the twitter account has had a slow increase in favorite counts for their tweets. Unfortunately, we do not have the data to see how this trend continues for the most current years (2018-2020) because we do not have access to that information. It is also worth noting that overtime, tweets with high favorite counts, or outliers, become more frequent. During the earlier years, the favorite count is very consistently within the 0 to 20,000 range with a few spikes; however, near the later years, there are many more tweets with 40,000 of more favorite counts.

## Second Visualization

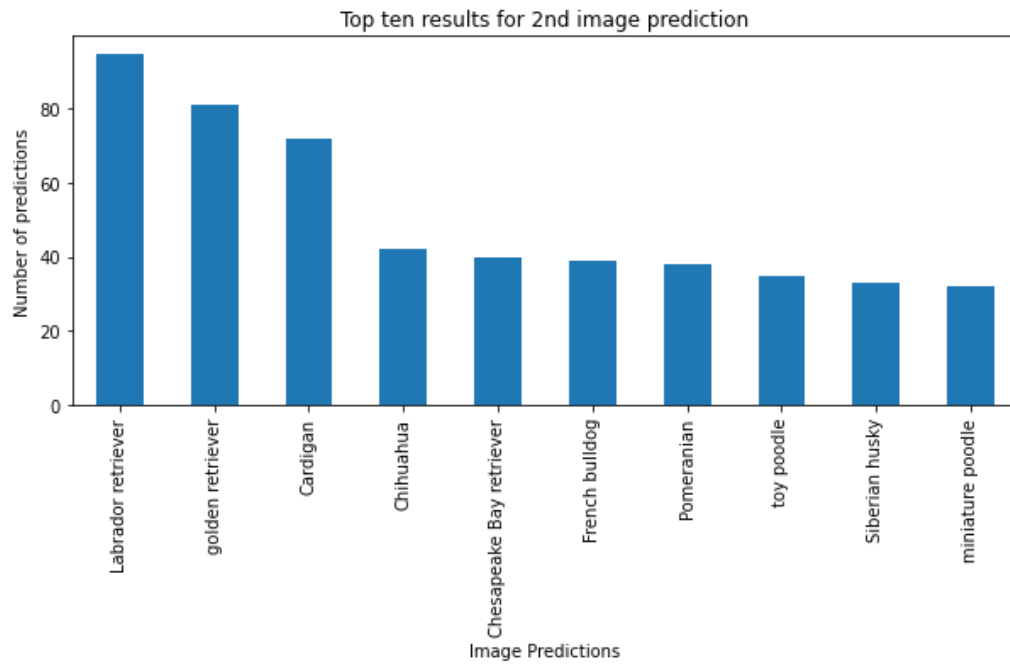
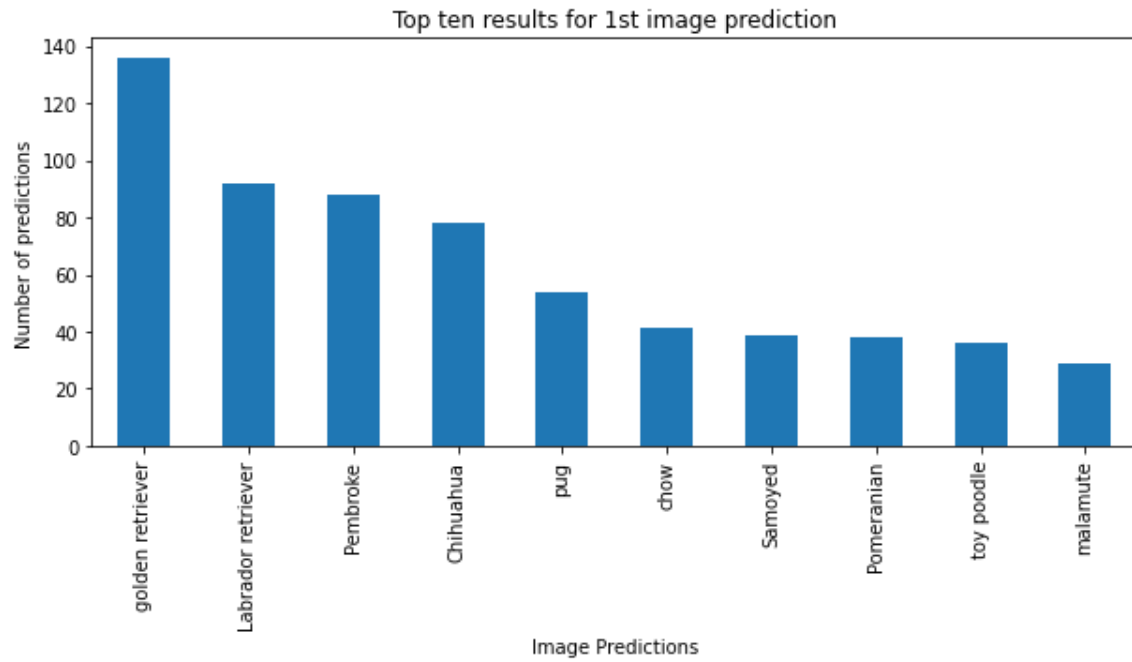


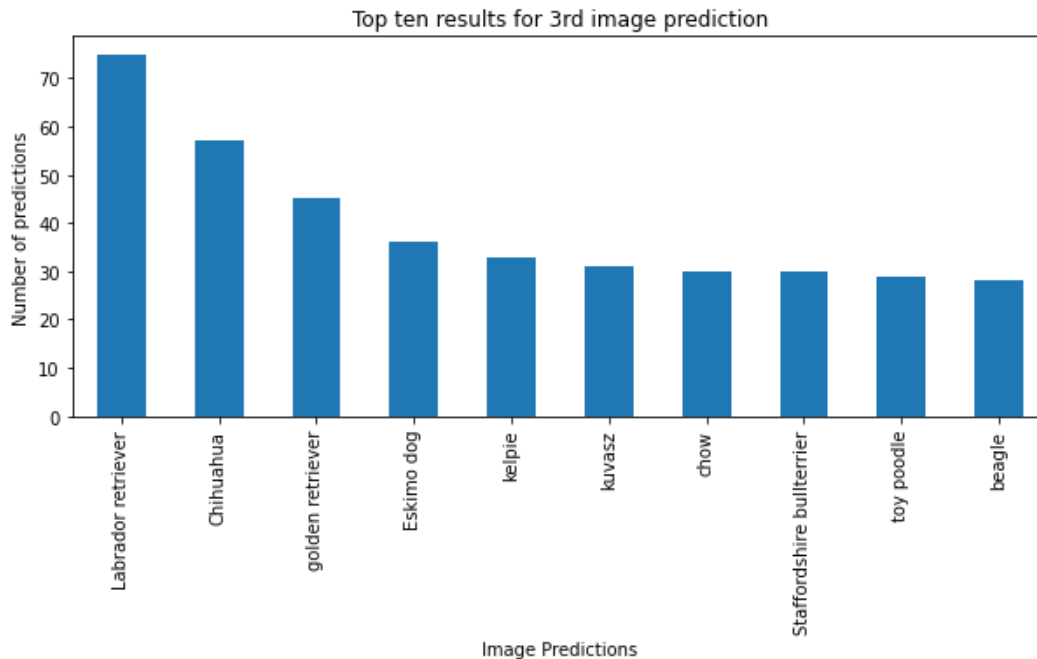


### Insights:

The visualization above shows the categorical spread of dog stages within this dataset. While many rows did not have an associated dog stage, there is still enough data in this chart to see some trends, the most obvious from this chart being pupper is mentioned overwhelming more than any other dog stage, even among tweets that list multiple dog stages such as ‘doggo, pupper’. According to the dogtionalary, pupper is defined as “a small doggo, usually younger” and “a doggo that is inexperienced [and] unfamiliar”. The second most noted dog stage is doggo, which is defined as “a big pupper, usually older” and “a pupper that appears to have its life in order”. Seeing how pupper is much more commonly used, I would assume most of the dogs posted to this twitter account were young puppies, or small dogs, followed by older, well-trained and behaved dogs. What is interesting, however, is given the second chart in this visualization – which shows the average retweet count based on dog stage – we can gather that of the posts including a dog stage, doggos are most popular (in terms of retweet count). So, while this twitter account mainly posts puppers, posts with doggos actually get retweeted more.

### Third Visualization (Set)





### Insights:

These three charts show which predictions are the most common for all three prediction cycles from the twitter image dataframe. According to these three charts, golden retrievers and Labrador retrievers are the most common predictions across the board. Chihuahuas, toy poodles, and Pomeranians also pop up multiple times and are quite popular. When examining these three columns, however, I found something very interesting.

The last analysis I ran in the wrangle\_act document shows what the predictions were for the top ten most retweeted posts for each prediction cycle (three in total). While looking at this, I noticed that almost every single one of the ten most popular tweets had an image prediction that was not a dog breed, but in fact household items and other animals such as cats and badgers. A screenshot from this can be found to the

right. I found this incredibly interesting and believe this shows perhaps the image prediction data should not be relied on too heavily as it seems to make many errors in its predictions.

	pl	favorite_count
221	laptop	60859.0
147	conch	43359.0
7	Angora	42684.0
226	limousine	42669.0
176	fountain	40956.0
..	...	...
269	piggy bank	305.0
349	trombone	274.0
197	hay	225.0
154	crash helmet	185.0
160	desktop computer	93.0