ACT Report - Analyzing and Visualizing the WeRateDogs Data

I kept my analysis short and simple, only completing four insights and one visualization with its own insight. They are as follows:

1. *First Insight* - **When does this data start and end (what dates)?**
   - Through indexing the lowest date (by -1) and the highest date (by 0), I was able to find that the master dataset contains data from 11/15/2015 through 08/01/2017.

2. *Second Insight* - **What is the most common dog breed?**
   - Through using .value_counts() on the top_prediction column of the master dataset, it was revealed that Golden Retrievers were the highest predicted dog breed on the image_url at 128 counts. Coming in second was Labrador Retriever at 90 counts, and third was the Pembroke at 87 counts.

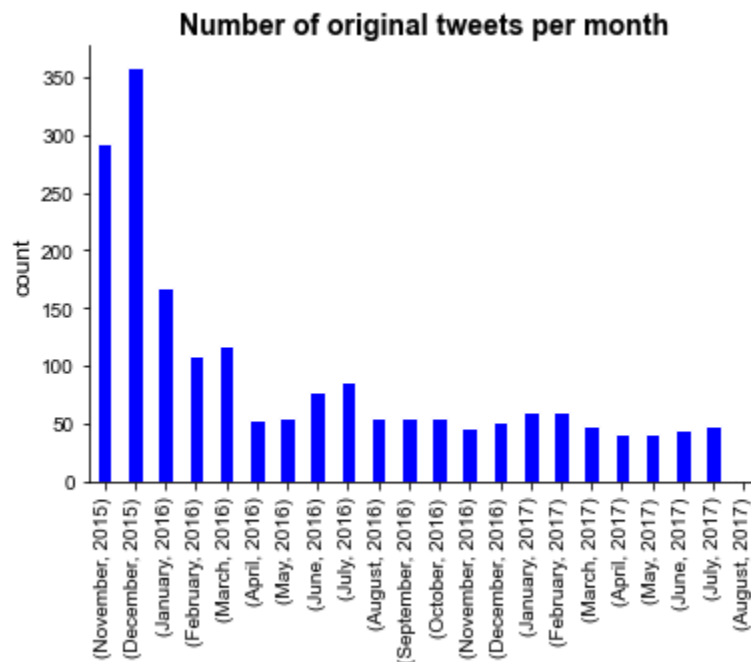3. *Second Insight, Part II* - **What are the top 5 most common dog names?**
   - Through using .value_counts() on the name column of the master dataset, it was revealed that Charlie is the most common dog name, then Lucy, Oliver, Cooper, Penny. This is, of course, ignoring the first two "names" that popped up: "none" and "a". These were ignored due to, more than likely, being erroneous data.

4. *Third Insight* - **Compare descriptive statistics of the master dataset.**
   - I was able to view all descriptive statistics by using the .describe() function on the master dataset.
   - The descriptive statistics showed the following data:
     i. The mean rating for this dataset is 12.3
     ii. On average, 7,017 twitter users favorited each WeRateDogs original tweet(s).
     iii. However, the average retweet count is significantly lower at only 2,006 retweets.
     iv. The tweet with the highest likes had 142,045 likes.
     v. The most retweeted tweet had 69,593 retweets.
     vi. The tweet with the lowest amount of likes only had 64 likes.
     vii. The least retweeted tweet only had 11 retweets.

Visualization

The visualization that follows shows how many original tweets were posted to the WeRateDogs account from November 2015 through August 2017. It shows that the twitter user started off strong, at 293 original tweets in 11/2015, and then 359 original tweets in 12/2015, while the last month shown, 08/2017 only has 2 original tweets posted.

November 2015 and December 2015 were the busiest months for WeRateDogs twitter account, with the number of original posted tweets, both exceeding 250. From April 2016 through August 2017, every month had less than 100 original tweets total.