WeRateDogs Tweet Data Analysis:

In my analysis, we analyzed the WeRateDogs twitter account tweets between Nobember 11th, 2015 to August 1st, 2017. The analysis was based on my own curiosity within the data and the three questions I asked were:

1. What is the most common dog name?
2. What are the monthly tweet trends with the WeRateDogs Posts?
3. What are the trends with the WeRateDogs Posts (overall number of tweets)?

Datasets:
1. `Twitter_archive_enhanced.csv` : a list of tweets that were provided by Udacity to focus on and analyze
2. `tweet_json.txt` : a json .txt file that was created and sourced using the Tweepy library

What is the most common dog name?

```
Charlie     11
Oliver      10
Lucy        10
Cooper      10
Penny        9
```

Figure 1: Top 5 most common named dogs

In Figure 1, out of 956 names of dogs there were over 680 that were unnamed. I assume that the unnamed dogs' actual names weren't collected or shared on twitter which is why we only had under 33% of names to work with. The data is thus a subset. I found that the top names are Lucy, Charlie, Oliver, Cooper, and Penny. After doing a quick google search, 3 of the 5 top names are actually quite common names across the world for dogs.

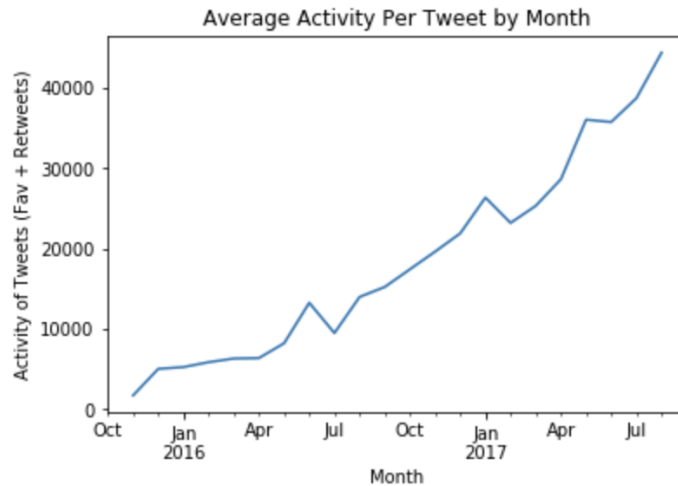## What are the monthly tweet trends with the WeRateDogs Posts?

Figure 2: Tweet Trend of WeRateDogs Posts from 2015 to 2017

Figure 2, we examine overall trends of tweets from WeRateDogs twitter account to see if there has been any substantial growth. What we see is the average activity by tweets per month is growing considerably and has increased by more than 20x in nearly 2 years.

What are the trends with the WeRateDogs Posts (overall number of tweets)?

```
2015-11    294
2015-12    364
2016-01    166
2016-02    109
2016-03    117
2016-04     52
2016-05     56
2016-06     80
2016-07     86
2016-08     59
2016-09     62
2016-10     64
2016-11     53
2016-12     53
2017-01     65
2017-02     64
2017-03     48
2017-04     41
2017-05     43
2017-06     44
2017-07     49
2017-08      2
```

Figure 3: Shows the trends in overall changes in tweets per month

In Figure 3, we observe that overall the number of tweets that WeRateDogs has been posting has gone down significantly. When you connect that to Figure 2 we realize that through popularity of the account we can infer that the following has grown and that even though tweets posted per month have dropped the favorites and retweets grew because of the content posted.