# Analyzing and Visualizing WeRateDogs

Intro :

Real-world data rarely comes clean. Using Python and its libraries, you will gather data from a variety of sources and in a variety of formats, assess its quality and tidiness, then clean it. This is called data wrangling. You will document your wrangling efforts in a Jupyter Notebook, plus showcase them through analyses and visualizations using Python (and its libraries) and/or SQL.

The dataset that you will be wrangling (and analyzing and visualizing) is the tweet archive of Twitter user @dog_rates, also known as WeRateDogs. WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. These ratings almost always have a denominator of 10. The numerators, though? Almost always greater than 10. 11/10, 12/10, 13/10, etc. Why? Because "they're good dogs Brent." WeRateDogs has over 4 million followers and has received international media coverage.

Analyze Data :

Most common dog type:

in this histogram it show the most 10 dog names famous in the twitter tranding and Charlie it is the most popular name   between dogs.
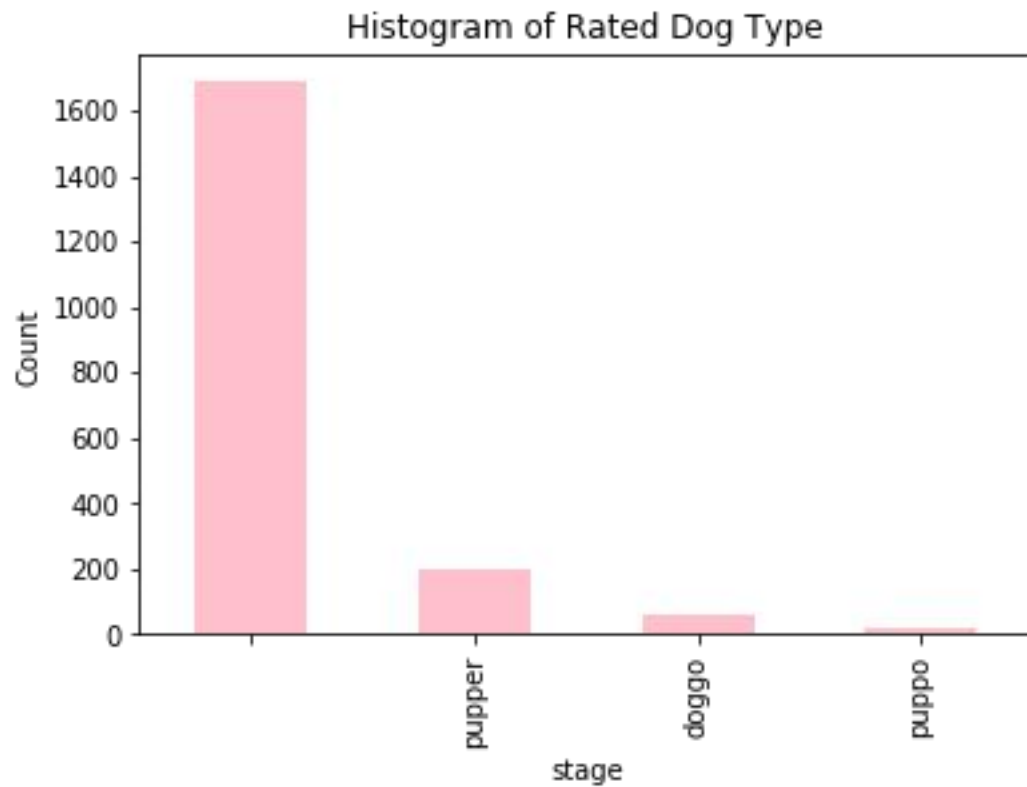
Top 10 common dog names
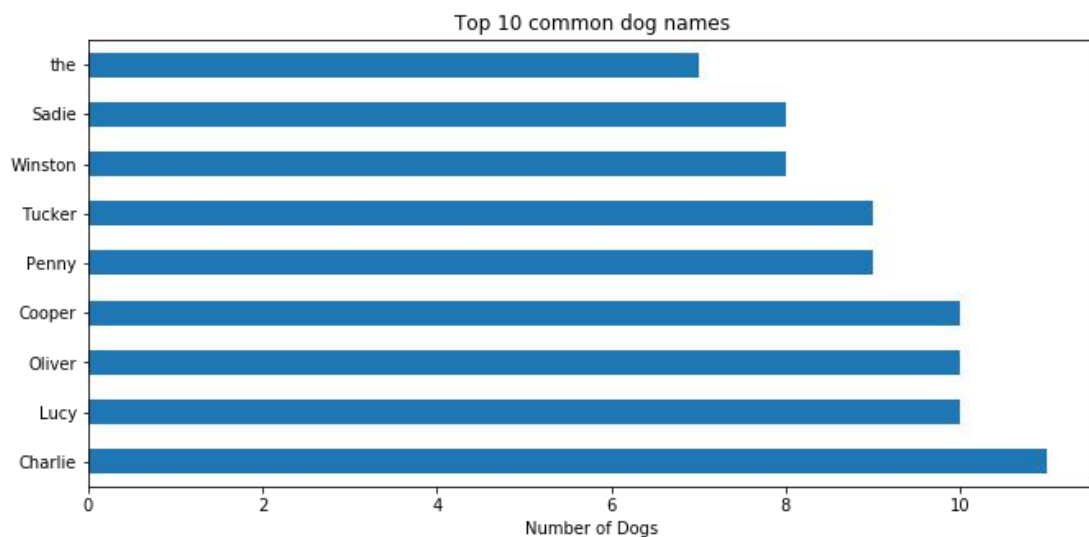
The stage of Dogs Type

Out[162]:

	doggo	floofer	pupper	puppo	count
0					1753
1				puppo	23
2			pupper		210
3		floofer			7
4	doggo				67
5	doggo			puppo	1
6	doggo		pupper		11
7	doggo	floofer			1

this table show the numbers of types Count

Histogram visulize the Count and types of dogs :
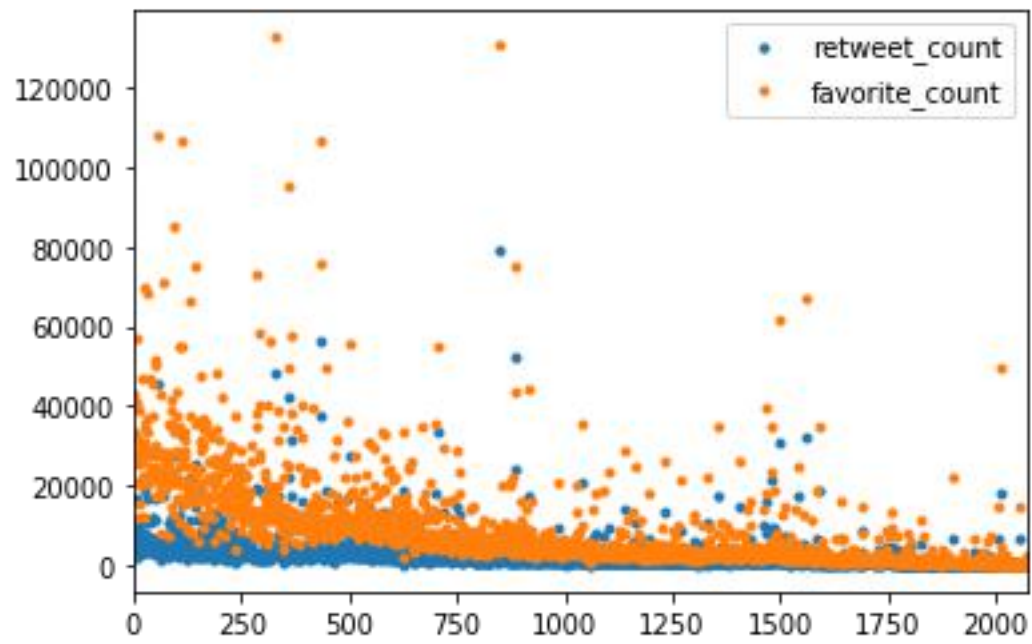
Histogram of Rated Dog Type

the relation between retweet count and type of dogs :

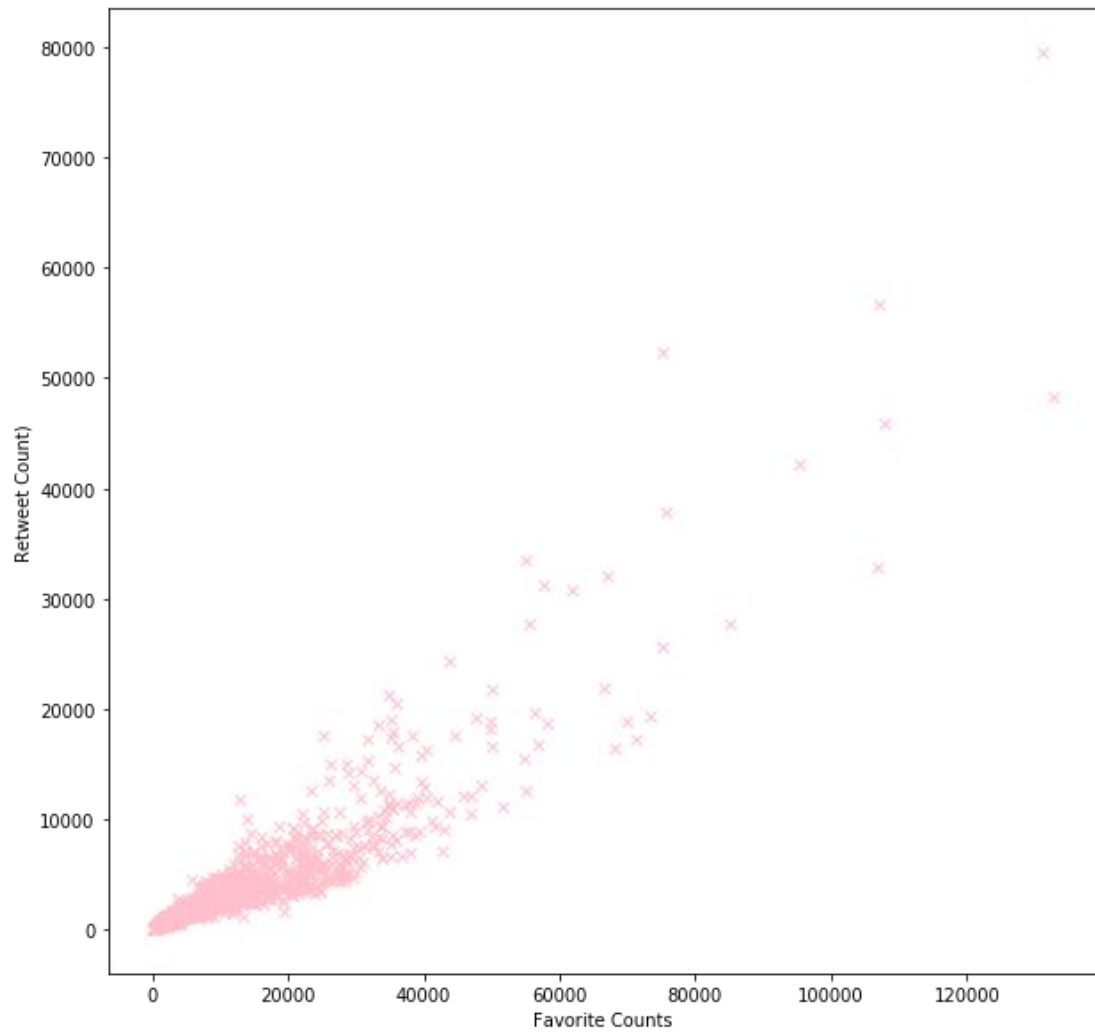the boxplot show the relation between retweet count and type of dogs

BoxPlot
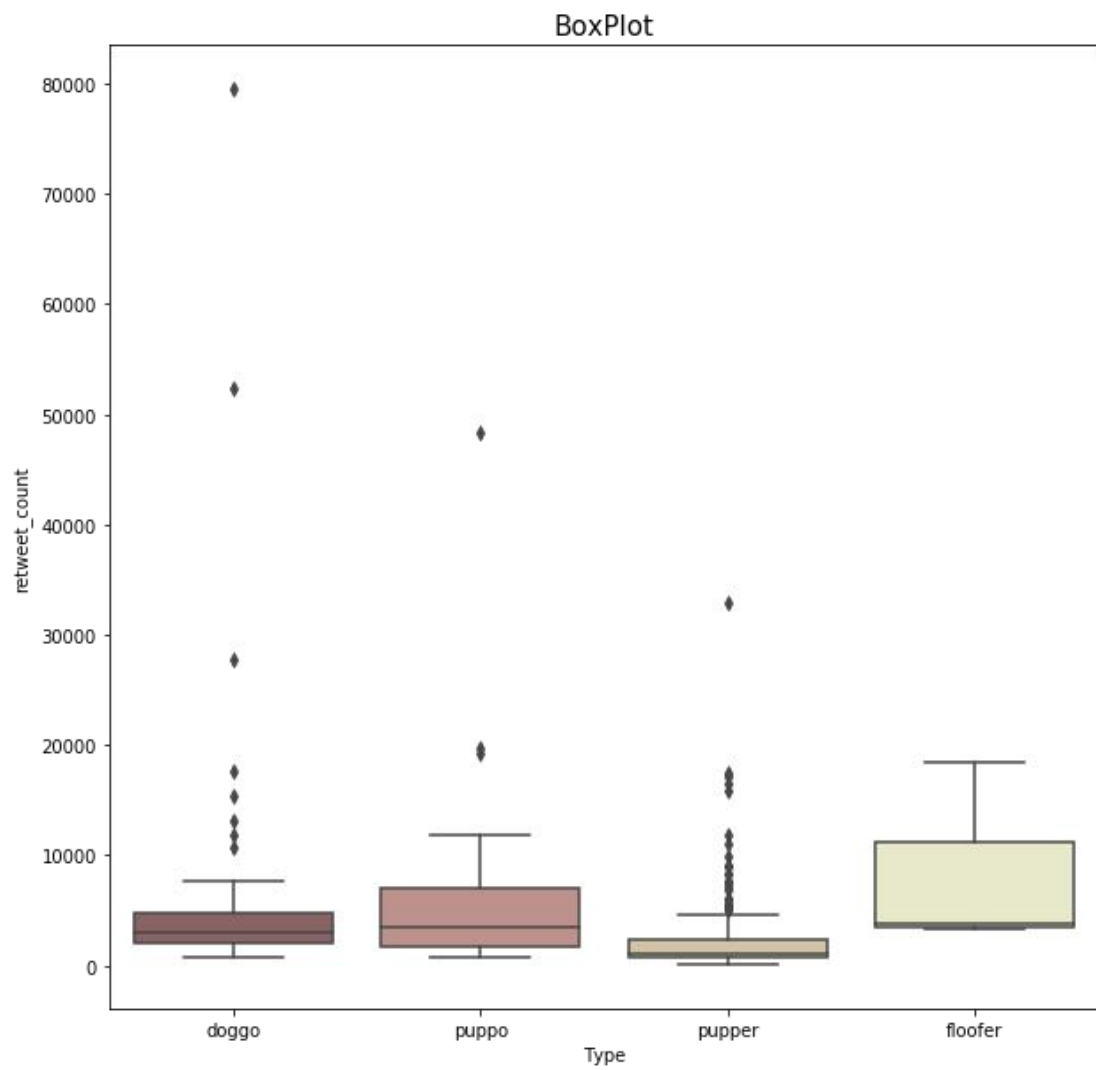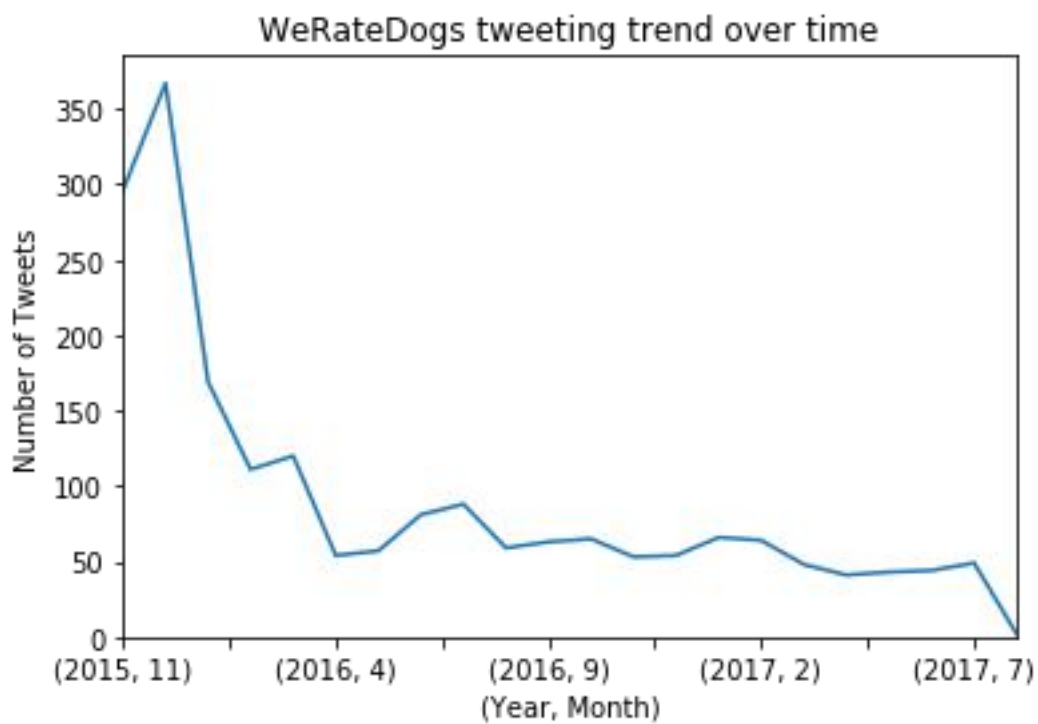
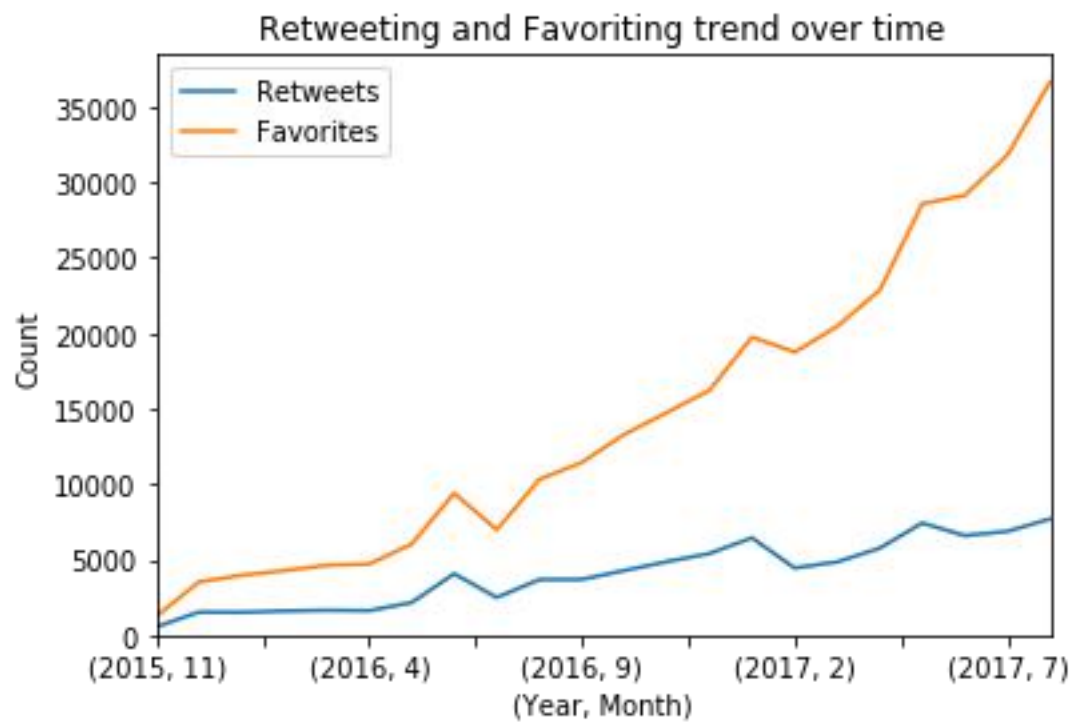**the relation between retweet count and favorite counts :**

Retweet and Favorite Counts

Favorite vs Retweet counts

Retweeting and Favoriting trend over time

WeRateDogs tweeting trend over time

The above plot shows an increasing trend of retweeting and favoriting tweets posted by WeRateDogs' since 11, 2015. However, the favoriting trend shows a much higher increase with time as compared to the retweeting trend.

Most dogs are rated 12/10 - 10/10 is a close 2nd, followed by 11/10

Most of the dogs are rated 12/10.

Excluding the 2 rating outliers.

the highest rating received by any dog is 14/10.

However, only 2%   dogs got this rating. So, we can say that WeRateDogs is probably very conservative when it comes to rating a dog the highest.

Dog Rating distribution

Number of Dogs (y-axis): 0, 50, 100, 150, 200, 250, 300, 350, 400, 450

Rating out of 10 (x-axis): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 24, 26, 27, 44, 45, 50, 60, 75, 80, 84, 88, 99, 121, 143, 144, 165, 204, 420, 1776