

# Project Two Visualization Report: Twitter Dog Rating Data Investigation

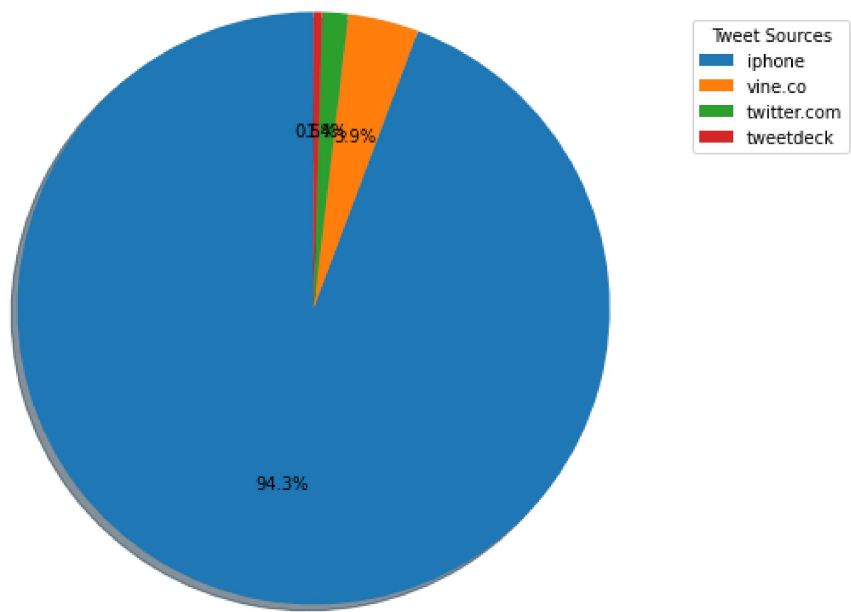
This report presents the some insights into the wrangled WeRateDogs dataset, with additional information derived from three datasets [Enhanced Twitter Archive](#), [Tweet Image Predictions](#), and Additional data using the Twitter API.

Exploring the sources of the tweets for the WeRateDogs Twitter Archive reveals that majority of the tweets were made using the Iphone (about 94.3%), while other tweets 5.7% were done via vine.co , twitter.com and tweetdeck

```
master_df.tweet_source.value_counts()
```

Tweet Source	Prorportion (%)
iphone	2221 (94.27)
vine.co	91 (3.86)
twitter.com	33 (1.40)
tweetdeck	11 (0.47)

Distribution of devices used to tweet for the Dog Rating



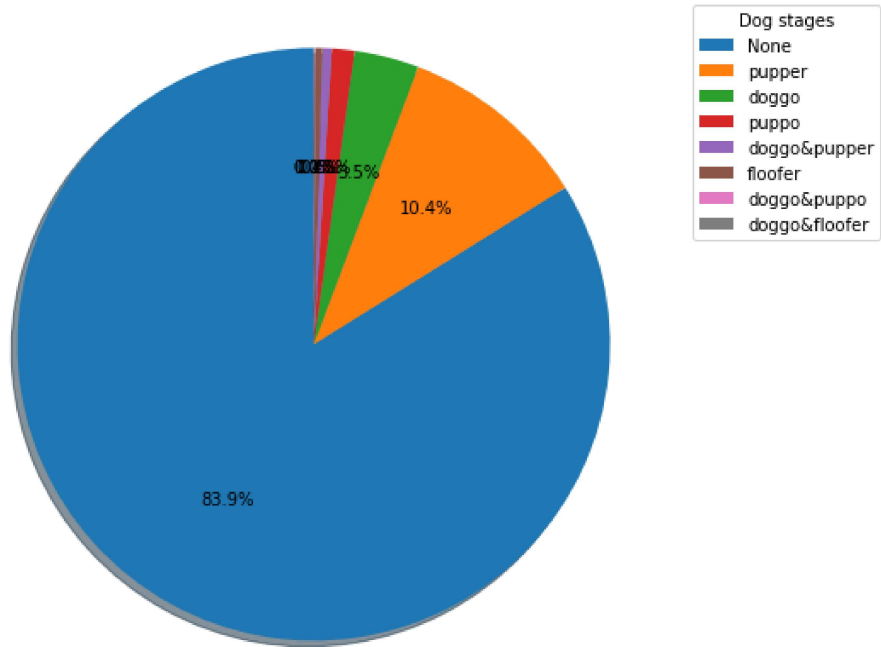
The dogs rated in this wrangled data were identified as either doggo , floofer , pupper , or puppo . Majority (~84.9%) of the tweets rated did not have any stage assigned to them, while ~0.6% of the tweets were assigned two stages. A table of proportion of the tweet with dog stages are presented below:

```
master_df.dog_stages.value_counts()
```

Stage	Proportion (%)
None	1976 (83.87)
pupper	245 (10.40)
doggo	83 (3.52)
puppo	29 (1.23)
doggo&pupper	12 (0.51)
floofer	9 (0.38)

Stage	Proportion (%)
doggo&puppo	1 (0.04)
doggo&floofer	1 (0.04)

Distribution of dog stages for the Dog Rating by users

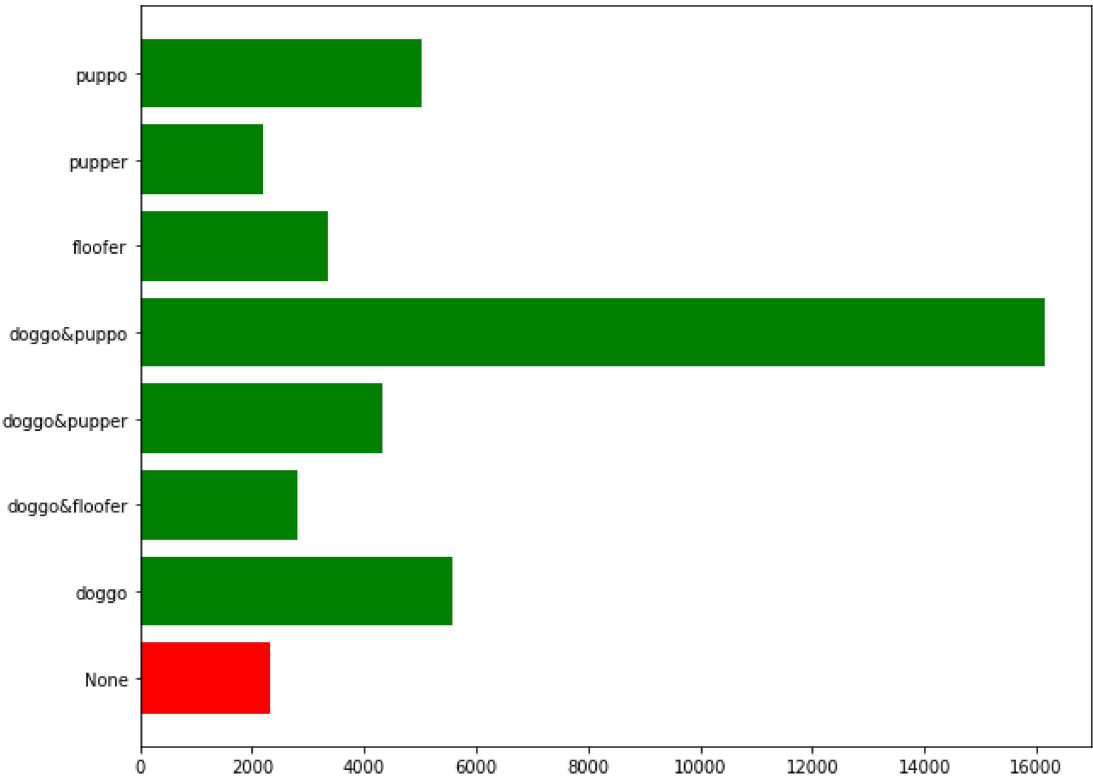


A further exploration of the dog stages assigned to the tweets for rating and the retweet counts, showed that tweets with assigned dog stages were retweeted more times than those without assigned dog stages. A table describing the counts and measures of the retweet counts by grouping with the dog stages is presented below:

```
master_df.groupby(['dog_stages'])['retweet.count'].describe()
```

dog stage	count	mean	std	min	25%	50%	75%	max
None	1976.0	2280.758603	3564.187273	0.0	442.25	1059.0	2730.0	51738.0
doggo	83.0	5563.626506	10883.318717	0.0	1568.50	2321.0	4431.0	70820.0
doggo&floofer	1.0	2798.000000	NaN	2798.0	2798.00	2798.0	2798.0	2798.0
doggo&pupper	12.0	4324.583333	5275.199117	1006.0	1930.75	2246.0	2818.0	15558.0
doggo&puppo	1.0	16149.000000	NaN	16149.0	16149.00	16149.0	16149.0	16149.0
floofer	9.0	3343.222222	4452.148520	397.0	932.00	2053.0	3085.0	14752.0
pupper	245.0	2204.987755	3392.603575	0.0	552.00	1019.0	2566.0	30242.0
puppo	29.0	5028.206897	7580.914487	148.0	1188.00	2589.0	6757.0	39965.0

Mean frequency for number of retweets with reference to the dog stages used for the Dog Rating by users



This report acknowledges the ALX-Udacity team