

# Act Report

## Intro

This report will breakdown the insights, analysis and visuals from the data retrieved from the WeRateDogs twitter feed.

## Analysis and Visuals

### *1. Tweet Source*

The source of tweets are dominated by the iPhone, taking roughly 93% of all WeRateDogs' tweet history. While the other three combine for about 7%; not very relevant.

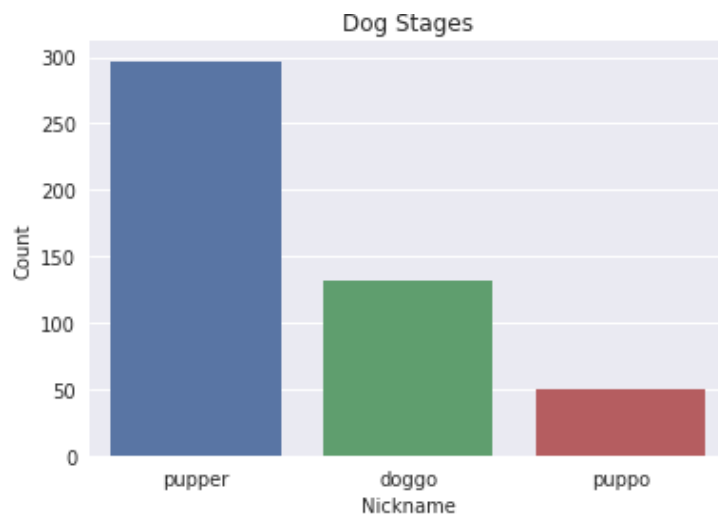
iPhone: 2199

Vine: 91

Twitter Web Client: 33

TweetDeck: 10

### *2. Dog Nicknames*

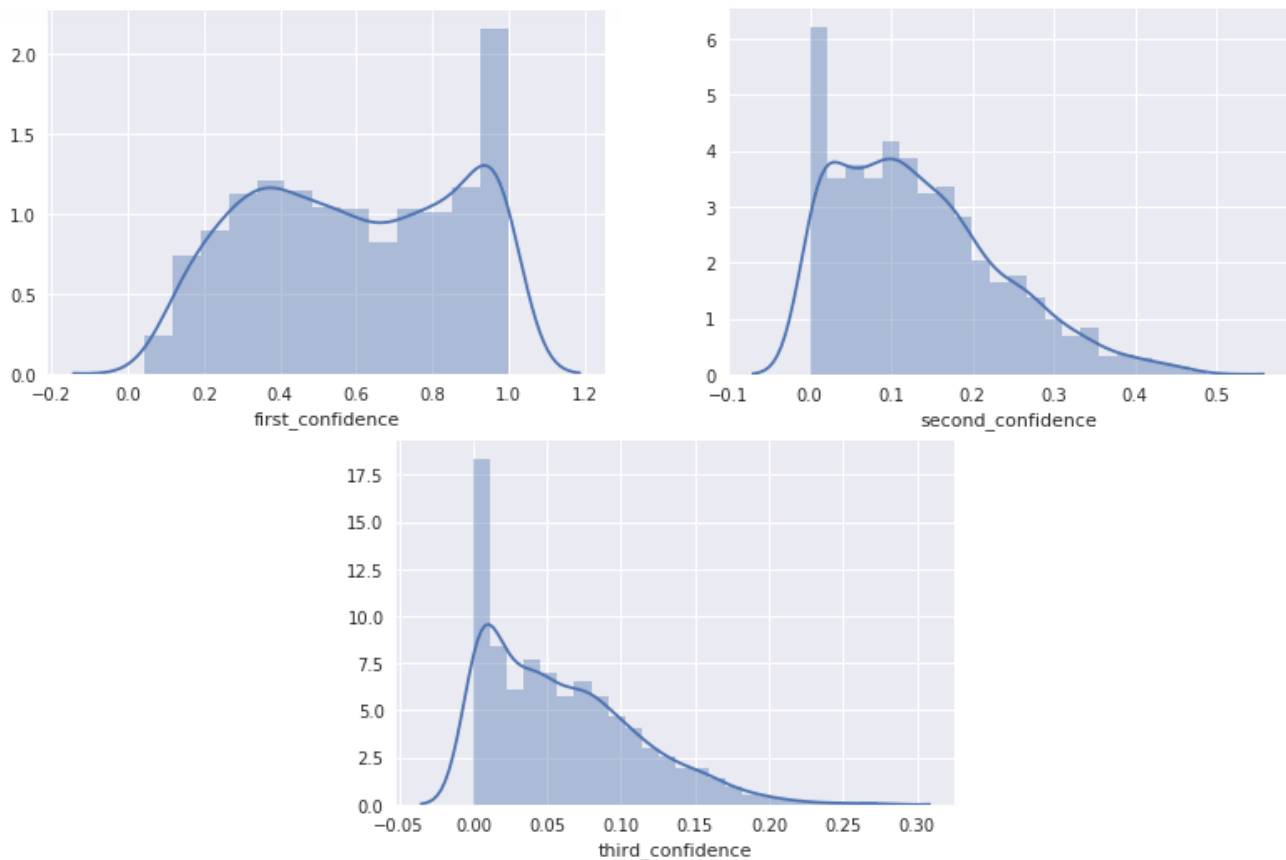


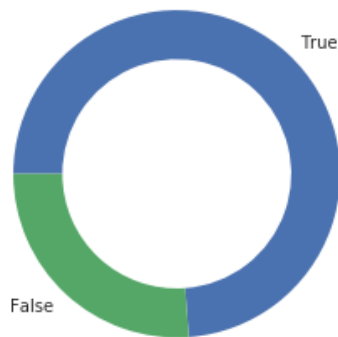
Right off the bat, it's easy to see that "pupper" is the most popular name used amongst the tweets. It makes sense, even though all dogs are cute, that a puppy would be the most popular. I would proceed with a little bit of caution with this visual, as it appears only about 500 of the 2,000+ tweets populated a dog stage.

### 3. Dog Predictions and Confidence Levels

```
Golden_retriever      150
Labrador_retriever    100
Pembroke              89
Chihuahua             83
Pug                   57
Chow                  44
Samoyed               43
Toy_poodle            39
Pomeranian            38
Cocker_spaniel        30
Malamute              30
French_bulldog        26
Chesapeake_bay_retriever 23
Miniature_pinscher    23
Seat_belt             22
Staffordshire_bullterrier 20
Siberian_husky        20
German_shepherd       20
Cardigan              19
Web_site              19
Name: first_prediction, dtype: int64
```

The image predictions data set and chart and pretty interesting. We do have some unrelated item names near the bottom of the query I ran above. Golden, Lab, Pembroke and Chihuahua are in a league of their own, in terms of the number of times they showed up in the model. I'm curious; could these predictions be related to the sheer number of images of these breeds on the internet, as the golden and lab are no doubt the two most popular dogs to own.





The first three charts represent the overall confidence levels of the software, through the three iterations of predictions. The initial prediction shows a large amount of extremely confident picks. However, the success rate drops off significantly as you venture into the second and third prediction categories. The substantial amount of low confidence percentages (0.1 - 0.8) in the first graph is something to worry about, though. The bottom true/false chart represents how accurate the predictions actually were; roughly 75%.