

act_report

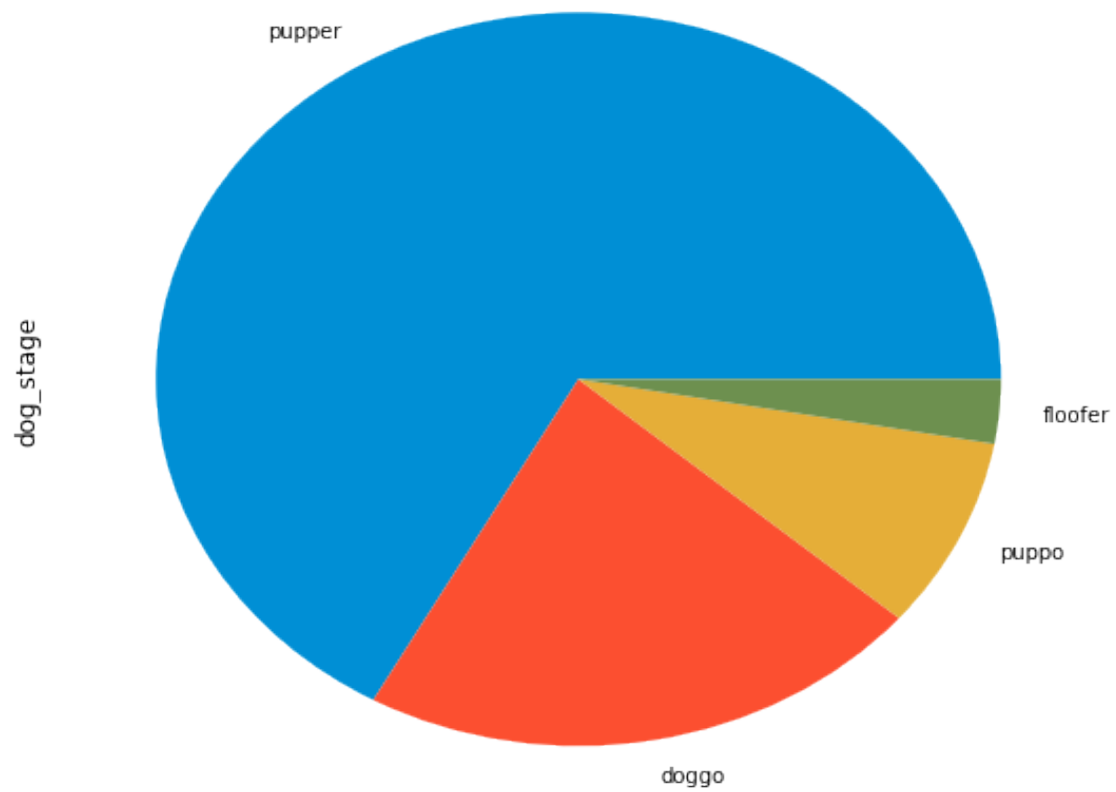
September 7, 2022

0.1 Report: act_report

- Create a **250-word-minimum written report** called "act_report.pdf" or "act_report.html" that communicates the insights and displays the visualization(s) produced from your wrangled data. This is to be framed as an external document, like a blog post or magazine article, for example.

As usual, first thing to do is 'import matplotlib.pyplot as plt' and I chose to set the style to `fivethirtyeight` because it's my favorite. The first visualization I included was a pie chart depicting the distribution of dog stages into the pie chart, I discovered that pupper is the most occurrent dog stage, then doggo, puppo comes after and finally floofer. I would have really loved if I could find a pattern to fill missing dog stages, as most of them was empty, A majority of missing data can make our conclusion biased.

In [8]: *#Here's what our plot looked like*



A pupper should look like this! Well that's obvious why he ranked first!

In [11]: Image(filename='pupper.jpg')

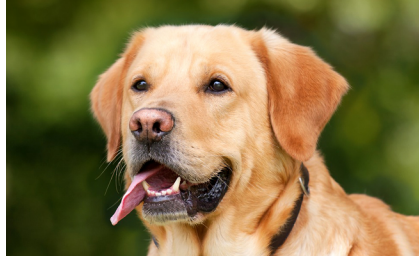
Out[11]:



Next I added a barchart to discover from where the majority of users post, and iPhone ranked as the first source followed by Vine, Twitter web client and finally Tweetdeck, which is normal because most people use the twitter mobile application to tweet. Then another barchart of the Distribution of Dog Breeds according to prediction 1 and the golden retriever was the most voted followed by Labrador retriever than Pembroke, for those who don't know how a Labrador looks like, here's an image of a good boy, how on earth can someone not love this cute hairball of love?

```
In [12]: Image(filename='Arabiccamel.jpg')
```

```
Out[12]:
```



As for my last visualization, I tried to see which dog breed is the most loved according to the users in our dataset, so I grouped by the prediction 1, and added the mean of favorite count and of course the 10 largest breeds using “nlargest(10)” were selected. I edited the plt.rcParams to (25,8) so the figure displays correctly. I ended up discovering that the most loved dog breeds are Arabic camel followed by Angora and Bubble which is kind of a surprise for me because I never knew Arabic camel was a dog breed and here’s how this good boy look like:

```
In [13]: Image(filename='Arabiccamel.jpg')
```

```
Out[13]:
```



A final word on this project experience : It was tough honestly, but insightful in a profuse way. Connect sessions grant us the courage and the impulse to fall in love with coding, whereas projects allow us to rely on ourselves to do a research, battle with a bug that you couldn't fix, scroll through hundreds of stackoverflow threads to get inspired and find the key element you're looking for to complete your code. If I am grateful for someone, that would be our mentors here, our career coaches and of course Udacity for this amazing opportunity to grow big and be more.