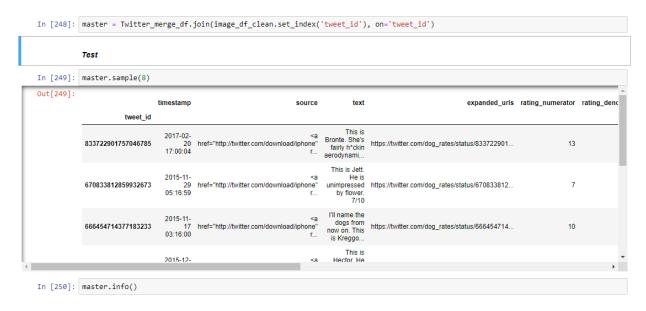
After gathering, analyzing, and cleaning the three datasets, I consolidated them into one and gave it the name "twitter archive.csv". I opened pandas and read the file to get started. I updated the master csv file timestamp's datatype from object to datetime. After gathering, assessing and cleaning the data, I stored the data into csv file. The master csv file was then read into pandas DataFrame. I did find some three insights to work on then and then did some visualizations.



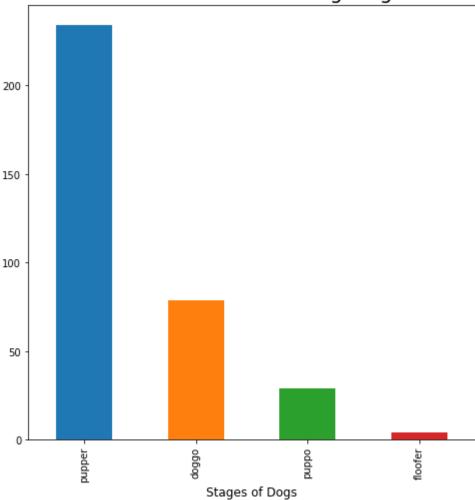
INSIGHTS

What is the most popular dog stage?
 As seen below we found the popper stage to be most popular stage of the four dog stages. I

```
twit_arch_clean.dog stage.value counts()
            234
 pupper
             79
 doggo
 puppo
             29
 floofer
             4
 Name: dog_stage, dtype: int64
 plt.figure(figsize=[8,10])
 master.dog_stage.value_counts().sort_values(ascending=False).plot(kind ='bar')
 plt.xticks(rotation=90)
 plt.xlabel('Stages of Dogs', fontsize=12)
 plt.ylabel('counts', fontsize=12)
 plt.title('Distribution between dog stages', fontsize=20)
Text(0.5,1,'Distribution between dog stages')
```

I used .value counts to calculate the number of dogs in each stage. The popper dog was first with the count of 234 followed by doggo which had the count of 79. The least popular stage was the floofer stage which only had the count of 4.

Distribution between dog stages



2. Which dog tweets got the least retweets

I used. head () and. tail () to get the least retweets by sorting the retweet count and also the top 5 dog tweets that got the highest favorite count.

check 10 least retweets
master.sort_values(by = 'retweet_count', ascending = True).tail(10)

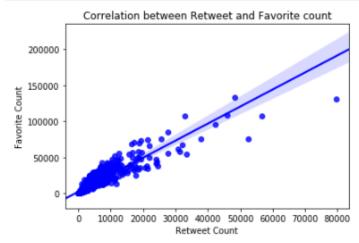
	timestamp	source	text	expanded_urls	rating_n
1572	NaT	<a href="http://twitter.com/download/iphone" r<="" th=""><th>This is Kenneth. He's stuck in a bubble. 10/10</th><th>https://twitter.com/dog_rates/status/676219687</th><th></th>	This is Kenneth. He's stuck in a bubble. 10/10	https://twitter.com/dog_rates/status/676219687	
115	NaT	<a href="http://twitter.com/download/iphone" r<="" th=""><th>This is Jamesy. He gives a kiss to every other</th><th>https://twitter.com/dog_rates/status/866450705</th><th></th>	This is Jamesy. He gives a kiss to every other	https://twitter.com/dog_rates/status/866450705	
668	NaT	<a href="http://twitter.com/download/iphone" r<="" th=""><th>Oh boy oh boy</th><th>https://twitter.com/dog_rates/status/761672994</th><th></th>	Oh boy	https://twitter.com/dog_rates/status/761672994	
418	NaT	<a href="http://twitter.com/download/iphone" r<="" th=""><th>"Good afternoon class today we're going to lea</th><th>https://twitter.com/dog_rates/status/806629075</th><th></th>	"Good afternoon class today we're going to lea	https://twitter.com/dog_rates/status/806629075	
348	NaT	<a href="http://twitter.com/download/iphone" r<="" th=""><th>This is Bo. He was a very good First Doggo. 14</th><th>https://twitter.com/dog_rates/status/819004803</th><th></th>	This is Bo. He was a very good First Doggo. 14	https://twitter.com/dog_rates/status/819004803	
60	NaT	<a href="http://twitter.com/download/iphone" r<="" th=""><th>This is Duddles. He did an attempt. 13/10 some</th><th>https://twitter.com/dog_rates/status/879415818</th><th></th>	This is Duddles. He did an attempt. 13/10 some	https://twitter.com/dog_rates/status/879415818	
324	NaT	<a <="" href="http://twitter.com/download/iphone" th=""><th>Here's a super supportive puppo participating</th><th>https://twitter.com/dog_rates/status/822872901</th><th></th>	Here's a super supportive puppo participating	https://twitter.com/dog_rates/status/822872901	

3. Which dog tweets got the highest favorite count

	timestamp	source	text	expanded_urls	rating_numerator	rating_denominator	name	dog
2060	NaT	<a ef="http://twitter.com/download/iphone" r</a 	Oh my. Here you are seeing an Adobe Setter giv	https://twitter.com/dog_rates/status/000102155	11	10	None	
2041	NaT	<a href="http://twitter.com/download/iphone" r<="" td=""><td>This is Scout. She is a black Downton Abbey. I</td><td>https://twitter.com/dog_rates/status/666447344</td><td>9</td><td>10</td><td>Scout</td><td></td>	This is Scout. She is a black Downton Abbey. I	https://twitter.com/dog_rates/status/666447344	9	10	Scout	
1010	NaT	<a f<="" href="http://twitter.com/download/iphone" td=""><td>Reminder that we made our first set of sticker</td><td>https://twitter.com/stickergrub/status/7099191</td><td>12</td><td>10</td><td>None</td><td></td>	Reminder that we made our first set of sticker	https://twitter.com/stickergrub/status/7099191	12	10	None	
1949	NaT	<a href="http://twitter.com/download/iphone" r<="" td=""><td>I can't do better than he did. 10/10</td><td>https://twitter.com/dog_rates/status/668291999</td><td>10</td><td>10</td><td>None</td><td></td>	I can't do better than he did. 10/10	https://twitter.com/dog_rates/status/668291999	10	10	None	
2058	NaT	<a href="http://twitter.com/download/iphone" r<="" td=""><td>Very concerned about fellow dog trapped in com</td><td>https://twitter.com/dog_rates/status/666268910</td><td>10</td><td>10</td><td>None</td><td></td>	Very concerned about fellow dog trapped in com	https://twitter.com/dog_rates/status/666268910	10	10	None	

Retweet and favorite counts for a tweet are strongly correlated; in other words, if a tweet has a high favorite count, it will also have a high retweet count. The figure below, which was created by comparing these two data, clearly demonstrates a high number of connection by the tightly packed collection of dots as from 0 to 2500.

```
]: sns.regplot(x= Ret, y= Fav, marker= 'o', color= 'blue')
plt.xlabel('Retweet Count')
plt.ylabel('Favorite Count')
plt.title('Correlation between Retweet and Favorite count')
plt.legend
plt.show(),
```



The correlation between favorite count and Retweet count was found to be 9. Which is a strong positive correlation.