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.

External Document

The wrangle and analysis of the we rate data sets has assessed correlations between different variables in the master data set.

Specifis questions addressed include:

- Which Image number has the highest count?
- Which Image number has the highest total rating?
- Which Image number has the highest total retweets?
- Which Image number has the highest total favourite counts?

The insights obtained from answering those questions in the data set include:

- Which Image number has the highest total ratings? The analysis shows that tweets with more than one image have a higher rating, which is a positive correlation between the two variables.I would recommend using more than one image to improve ratings.

- Which Image number has the highest total retweets? The analysis shows that four images recorded the most total retweets followed by two images. I would recommend as best to upload at least two images for more retweets.

- Which Image number has the highest total favoiurite counts? The analysis shows that four images recorded the most total favourites counts followed by two images. I would recommend as best to upload at least two images to improve favourite counts

Useful visualizations from wrangling and analyzing we rate dogs data sets are as below:
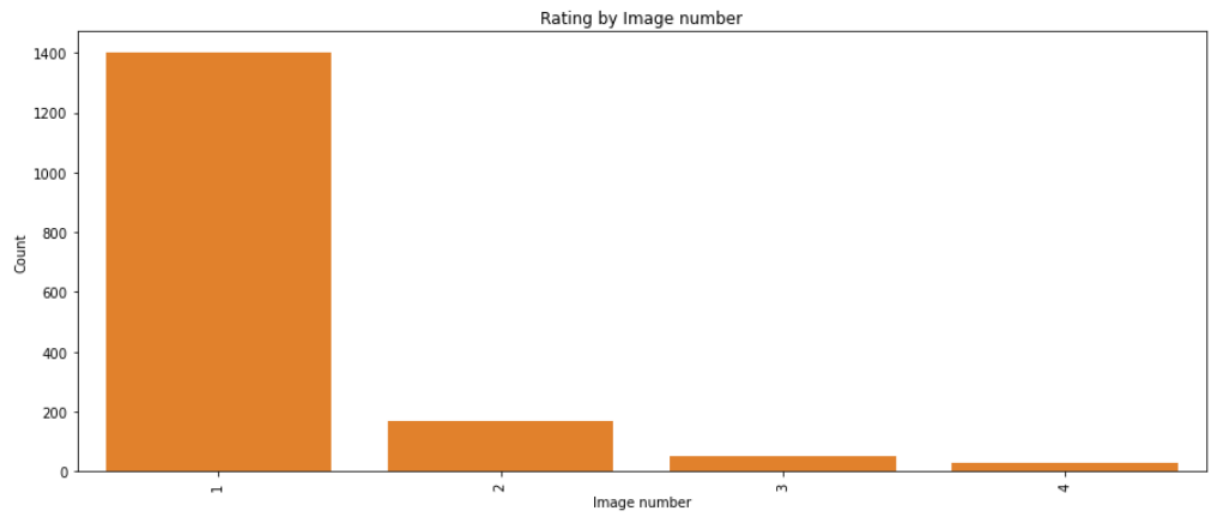
Count of image number visualization

Rating by Image number

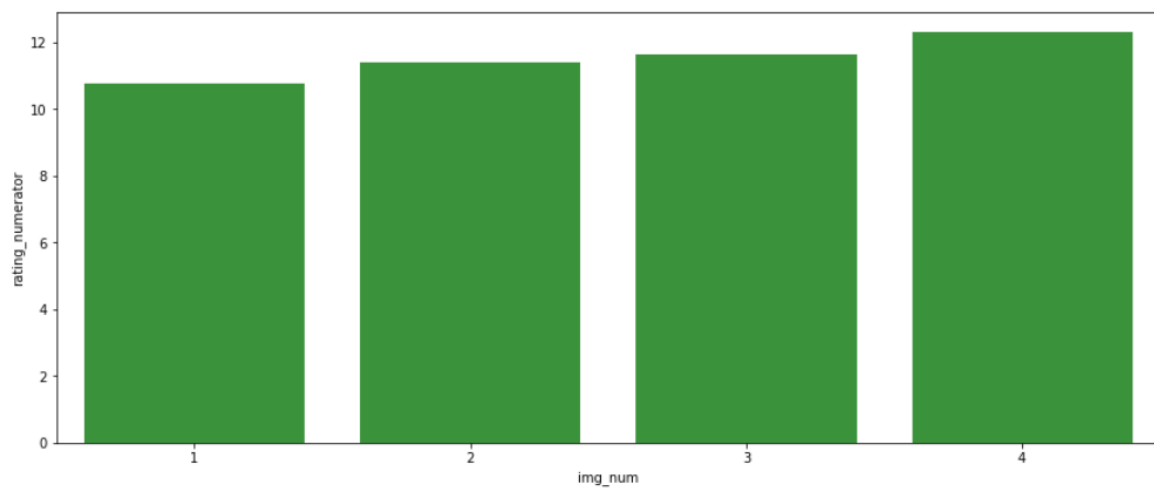## Image number by total ratings visualization

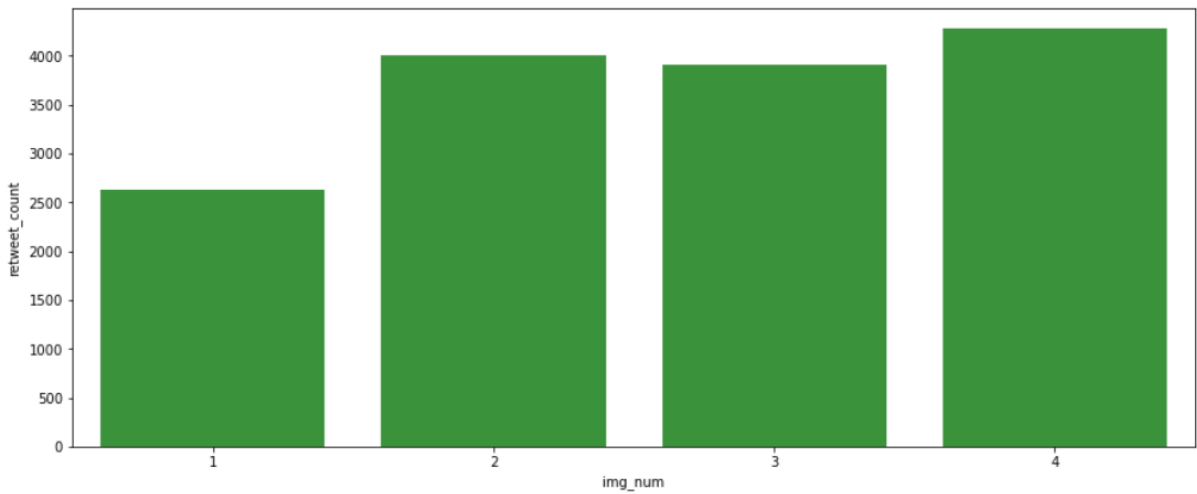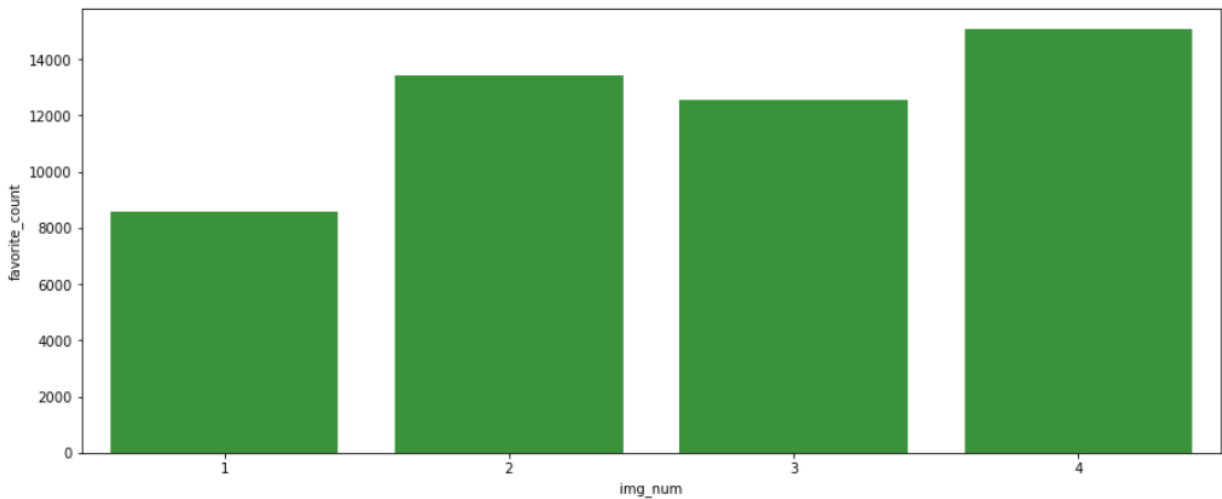**Image number by retweets count visualization**

Image number by favourite count visualization

A heatmap visualization of correlation between different variables in the twitter_archive master data set

	tweet_id	rating_numerator	rating_denominator	img_num	p1_conf	p1_dog	p2_conf	p2_dog	p3_conf	p3_dog	retweet_count	favorite_count
tweet_id	1	0.41		0.2	0.11	0.053	-0.0025	0.059	-0.056	0.021	0.4	0.65
rating_numerator	0.41	1		0.12	0.072	0.11	-0.0033	-0.0068	-0.022	0.037	0.25	0.32
rating_denominator												
img_num	0.2	0.12		1	0.21	-0.0093	-0.18	0.029	-0.14	0.033	0.093	0.12
p1_conf	0.11	0.072		0.21	1	0.09	-0.54	0.12	-0.73	0.079	0.06	0.084
p1_dog	0.053	0.11		-0.0093	0.09	1	0.1	0.21	0.02	0.11	-0.014	0.012
p2_conf	-0.0025	-0.0033		-0.18	-0.54	0.1	1	0.078	0.48	0.03	-0.021	-0.023
p2_dog	0.059	-0.0068		0.029	0.12	0.21	0.078	1	-0.011	0.088	-0.0057	0.019
p3_conf	-0.056	-0.022		-0.14	-0.73	0.02	0.48	-0.011	1	0.0012	-0.047	-0.056
p3_dog	0.021	0.037		0.033	0.079	0.11	0.03	0.088	0.0012	1	-0.0078	-0.0041
retweet_count	0.4	0.25		0.093	0.06	-0.014	-0.021	-0.0057	-0.047	-0.0078	1	0.91
favorite_count	0.65	0.32		0.12	0.084	0.012	-0.023	0.019	-0.056	-0.0041	0.91	1