

## Report: act\_report

The 3 datasets provide insightful data about tweets posted on 'We rated dogs' from November 2015 to August 2017. Basically the posts provided the information and rate the user's dogs images.

Including some useful information for analysis the tweets:

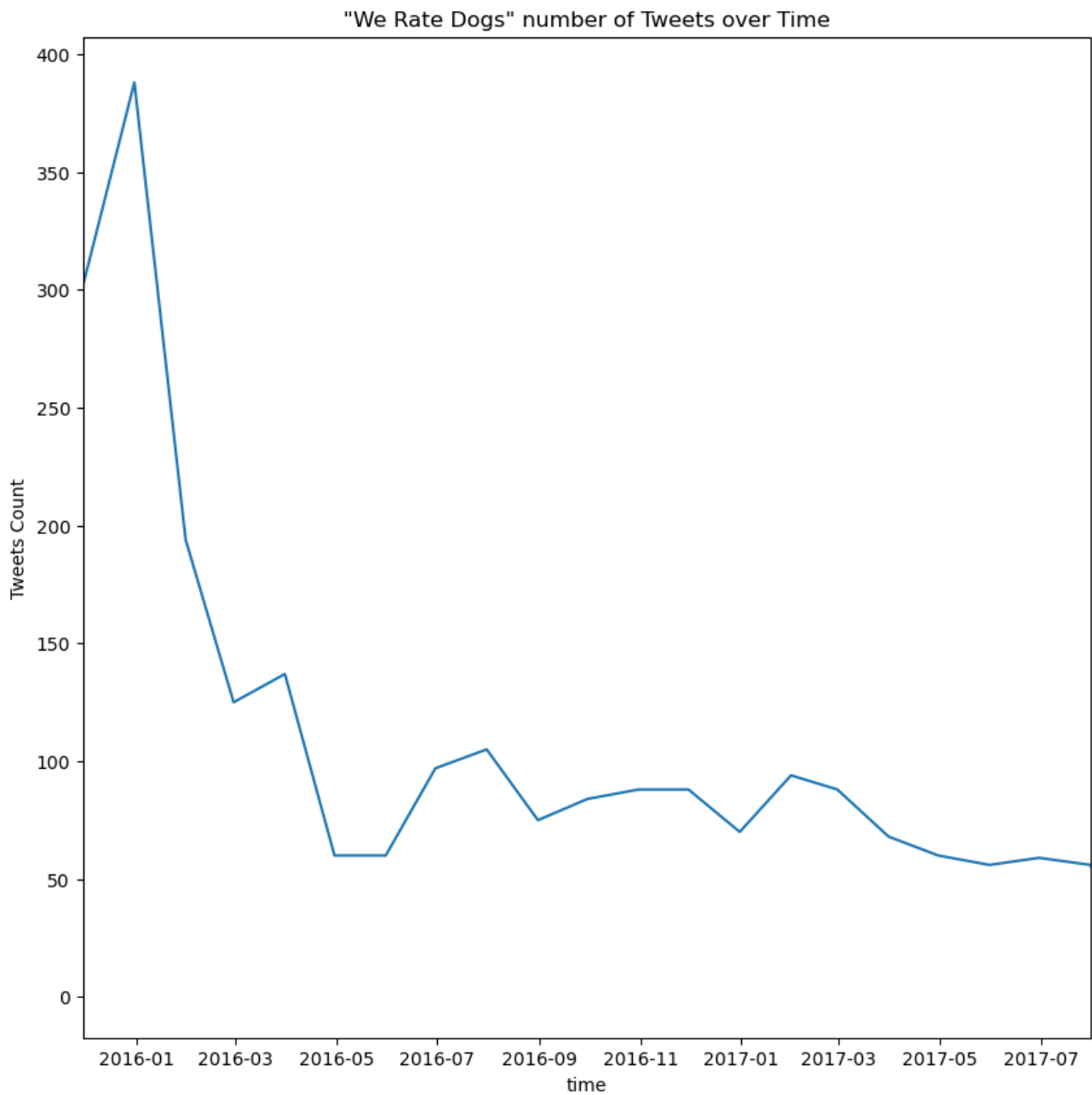
tweet_id:	ID of the tweet
timestamp:	Tweeting time
text:	Tweet's text contents
urls:	Tweet's URL
rating_score_(out_of_10):	Standardized rating from the tweet
name:	The dog names
stage:	Stage of the dog: puppo, pupper, doggo and floofer
jpg_url:	The attached images' URL
favorite_count:	The number of 'favorite' the tweet received.
retweet_count:	The number of 'retweet' the tweet received.

### 1. Visualizing the total number of tweets over the period to find its trend number over time.

The number of tweet per month table:

timestamp	tweet_id (number of tweets)
2015-11-30 00:00:00+00:00	302
2015-12-31 00:00:00+00:00	388
2016-01-31 00:00:00+00:00	194
2016-02-29 00:00:00+00:00	125
2016-03-31 00:00:00+00:00	137
2016-04-30 00:00:00+00:00	60
2016-05-31 00:00:00+00:00	60
2016-06-30 00:00:00+00:00	97
2016-07-31 00:00:00+00:00	105
2016-08-31 00:00:00+00:00	75
2016-09-30 00:00:00+00:00	84
2016-10-31 00:00:00+00:00	88
2016-11-30 00:00:00+00:00	88
2016-12-31 00:00:00+00:00	70
2017-01-31 00:00:00+00:00	94
2017-02-28 00:00:00+00:00	88
2017-03-31 00:00:00+00:00	68
2017-04-30 00:00:00+00:00	60
2017-05-31 00:00:00+00:00	56
2017-06-30 00:00:00+00:00	59
2017-07-31 00:00:00+00:00	56
2017-08-31 00:00:00+00:00	2

### Visualization:



### Insights:

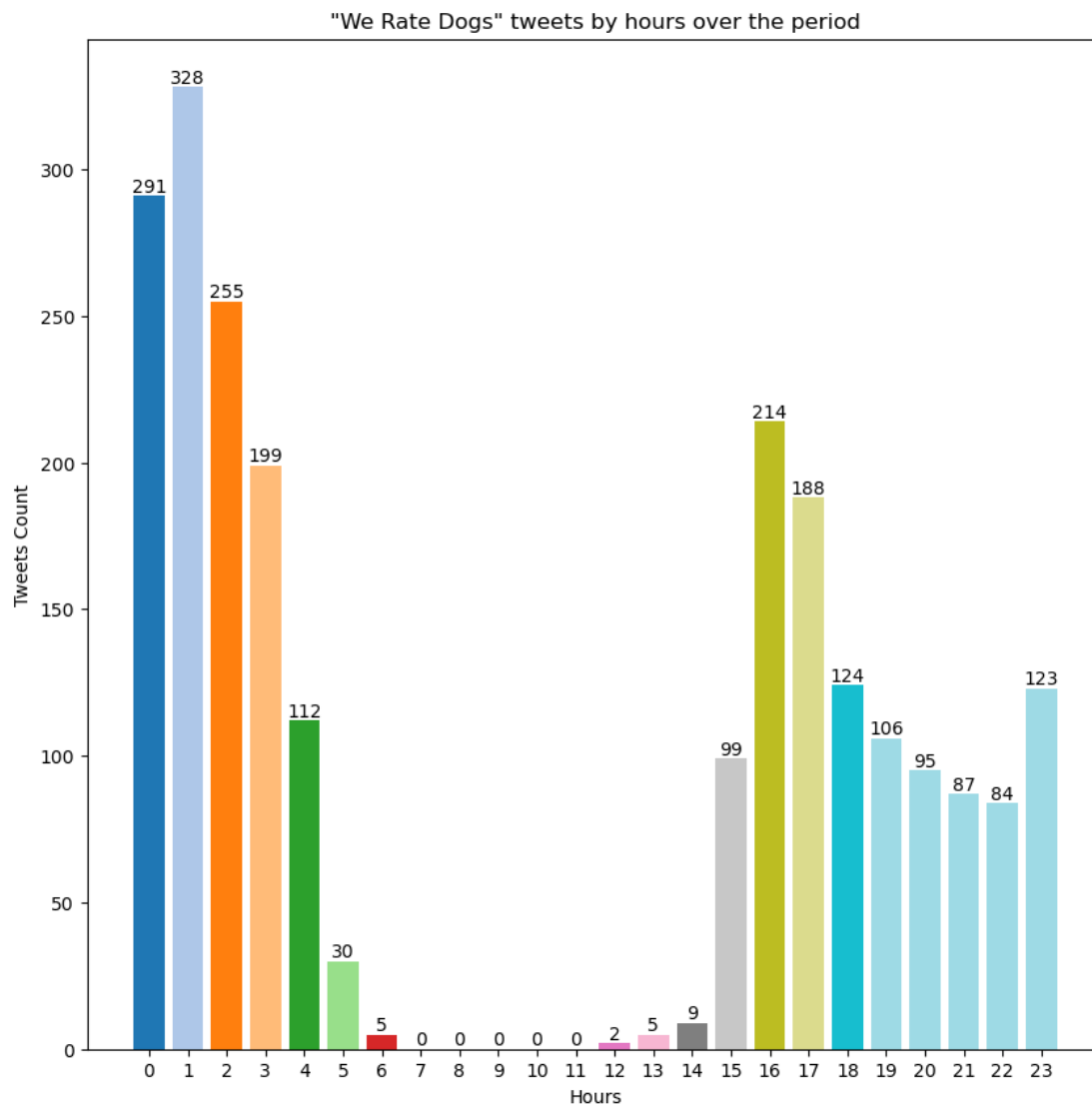
The number of tweets peaked in January 2019 at 388. Then dropped dramatically, to 60 in April and May. Before flunctuated between 56 and 106 over the remaining months of the period.

## 2. Visualizing numer of tweet by hours of the day:

The number of tweet for each hour during the period (UTC time zone):

Hour	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Tweet Count	291	328	255	199	112	30	5	0	0	0	0	0	2	5	9	99	214	188	124	106	95	87	84	123

Visualization:



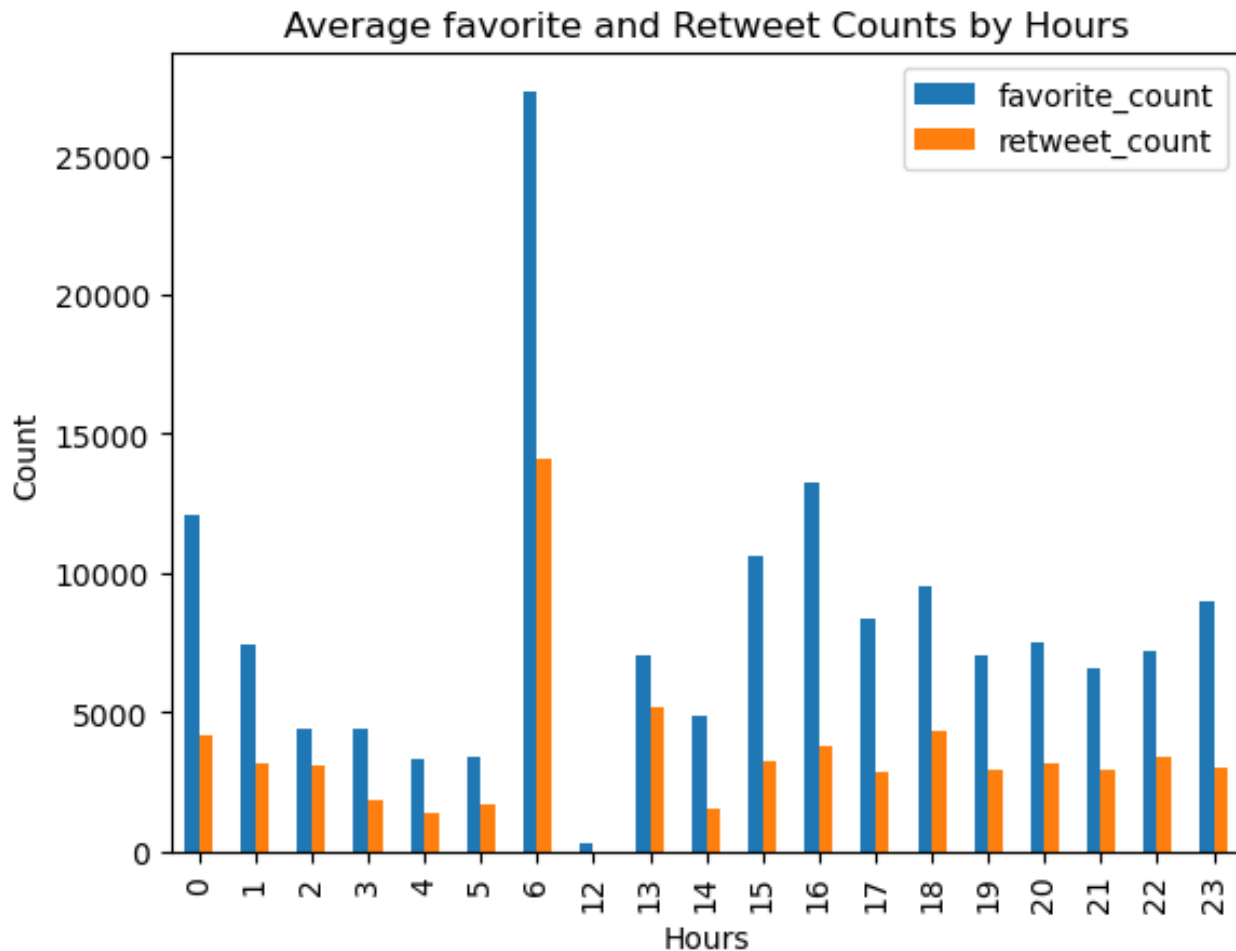
### Insights:

Over the period, the number of tweets at 1AM was 328, accounted for highest number among all hours of a day. While 12AM, 2AM, 3AM, 4PM and 5PM are the time of the days witnessed high frequency of tweets from 'We rate dogs'.

There was not tweets tweeted during 7AM to 11AM over the period.

### 3. Visualizing average favourite/reweet number based on the tweet's posting time:

Visualization:



Insights:

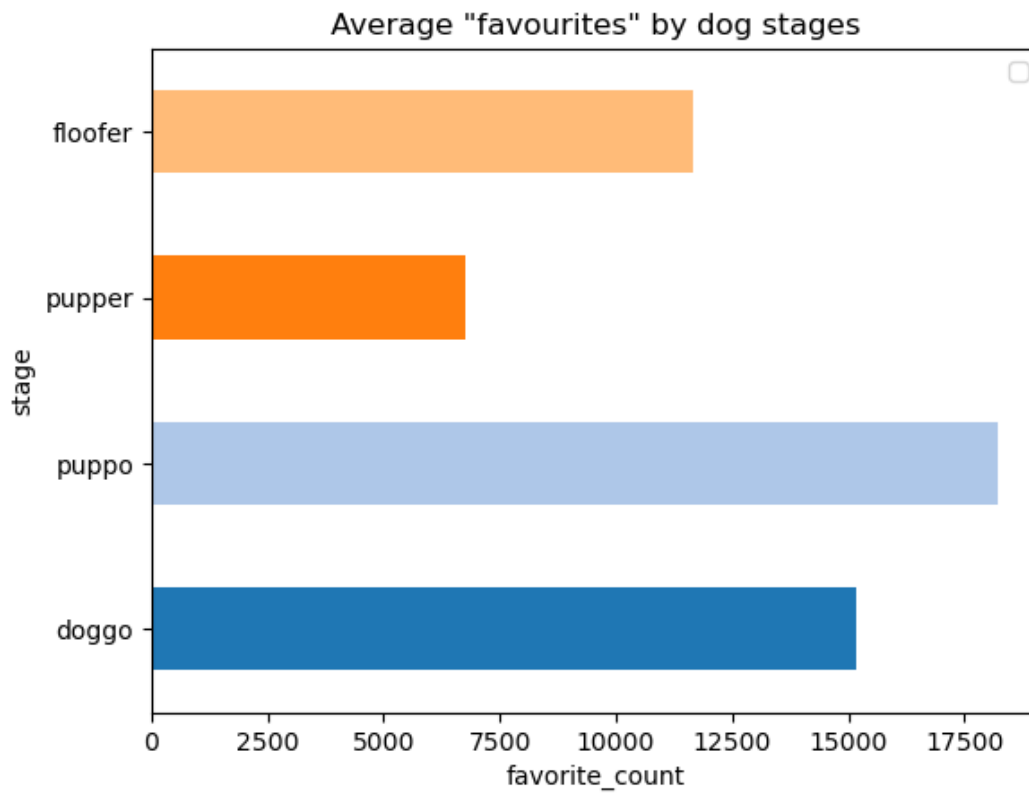
Overall, tweets posted at 6AM seemed to received the significantly high favorites(s) and retweeted(s). The anomaly high average might due to only 5 tweets were created at at 6AM. Tweets created during 0AM, 3PM and 4PM also have highest number of favorite(s).

### 4. Find out which types of dog stages attracted the most 'favorite':

The average favourite count of each dog's type table:

stage	favorite_count (average)
doggo	15157.11828
puppo	18225.9
pupper	6750.673228
floofer	11674.9

### Visualization:



### Insights:

'puppo' posts seemed to received the highest number of 'favourite' among 4 categorized dog stages. While 'pupper' images had the lowest average 'favorite' count.