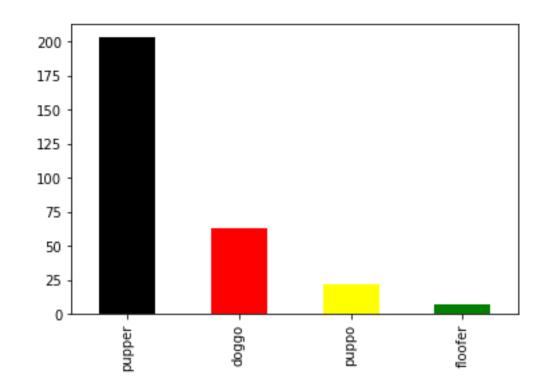
Data Analysis and Visualization Report

Analysis can be done in various ways. I used the following methods for analysis and plotting Visualizations to answer my questions.

1- What dog's stage more common in tweets?

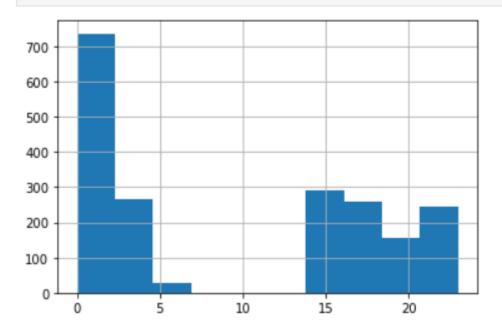


From above analysis and visualization, we have the following insights:

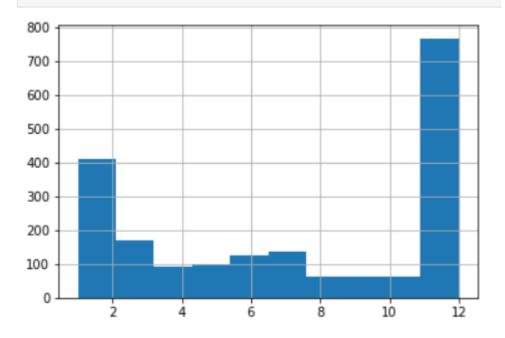
- 1- "pupper" is the most common.
- 2- "floofer" is the least common.

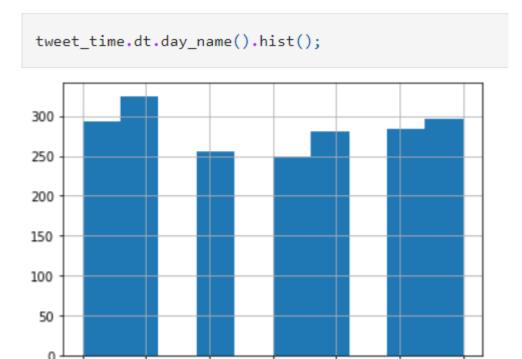
2- What is the most active time on the page?

tweet_time= twitter_archive_clean.timestamp
tweet_time.dt.hour.hist();



tweet_time.dt.month.hist();





From above analysis and visualization, we have the following insights:

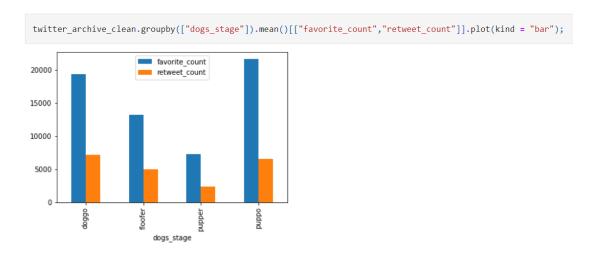
Sunday Saturday Friday ThursdayWednesday

- 1) About [12 am : 2am] is the most time that page is active.
- 2) About [7 am: 2pm] has the lowest activity.
- 3) Monday has the highest activity.

Tuesday Monday

- 4) Saturday has the lowest activity.
- 5) The last two month of the year has the highest activity on the page.

3- What is the most dog's stage that gets highest favorite counts and retweet counts?



From above analysis and visualization, we have the following insights:

- 1) "puppo" and "doggo" pictures are most liked and have more retweets.
- 2) "pupper" pictures are the lowest liked and have more retweets.

4- What is mean rating of in tweets?

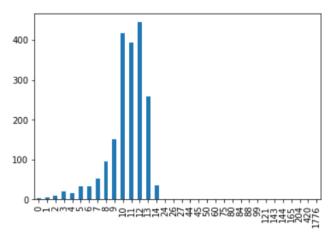
```
twitter_archive_clean["rating_numerator"].describe()
```

```
1983.000000
count
           12.286939
mean
std
           41.612332
min
            0.000000
25%
           10.000000
50%
           11.000000
75%
           12.000000
         1776.000000
max
```

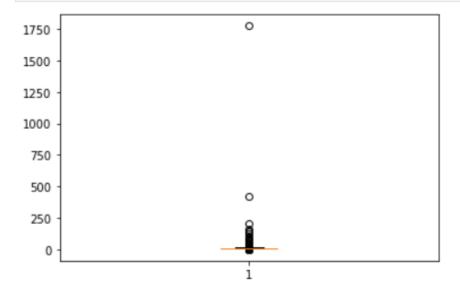
Name: rating_numerator, dtype: float64

```
twitter_archive_clean["rating_numerator"].value_counts().sort_index().plot(kind = "bar")
```

<AxesSubplot:>



plt.boxplot(twitter_archive_clean["rating_numerator"].values);



From above analysis and visualization, we have the following insights:

- 1- Average rating is 12.28.
- 2- "rating_numerator" has some outliers(e.g. max value = 1776).