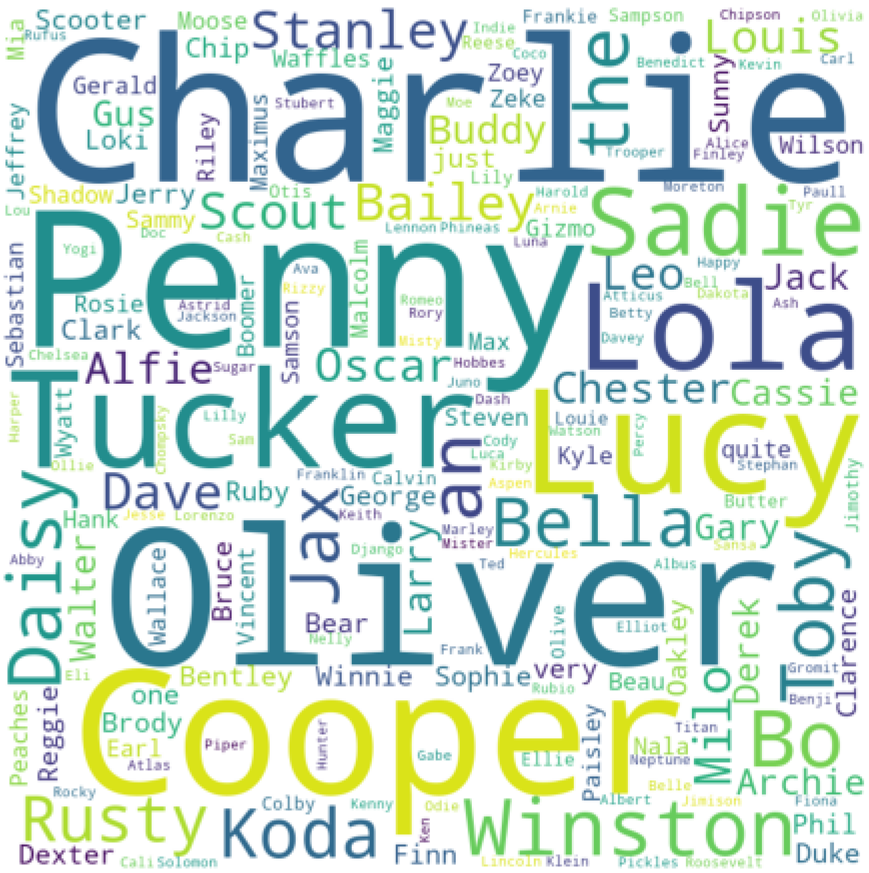
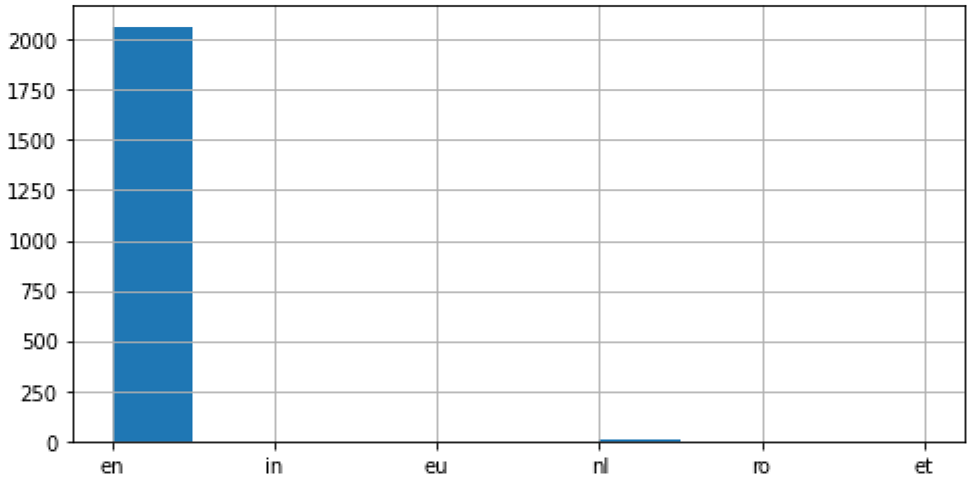
Analysis Report

Analysis Conclusion :

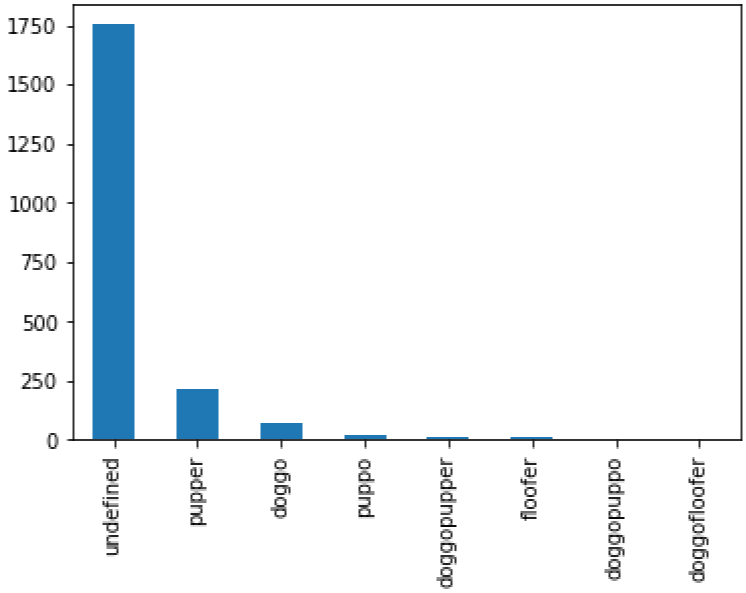
- Charlie, Oliver, Cooper, Penny and Lucy are few of the most common names given to dogs in our dataframe.

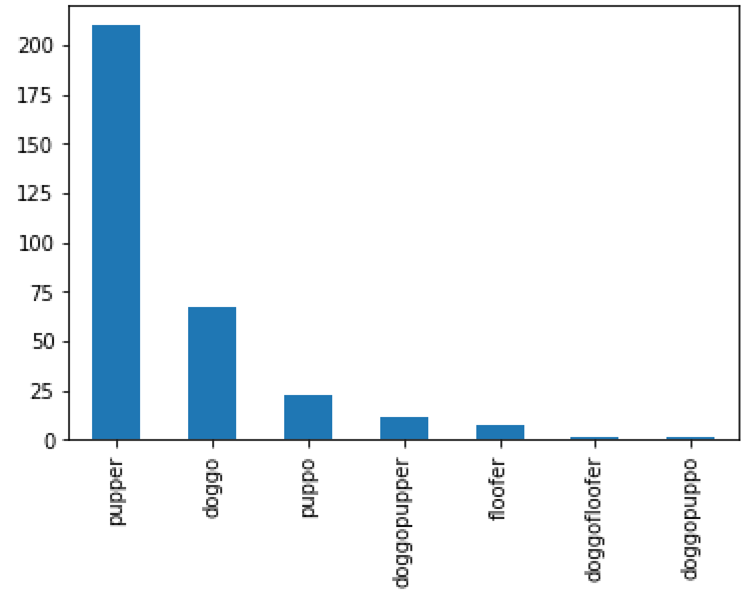


- We can clearly infer that, majority of our tweets (close to 99%) are in 'en', which stands for 'English' language.



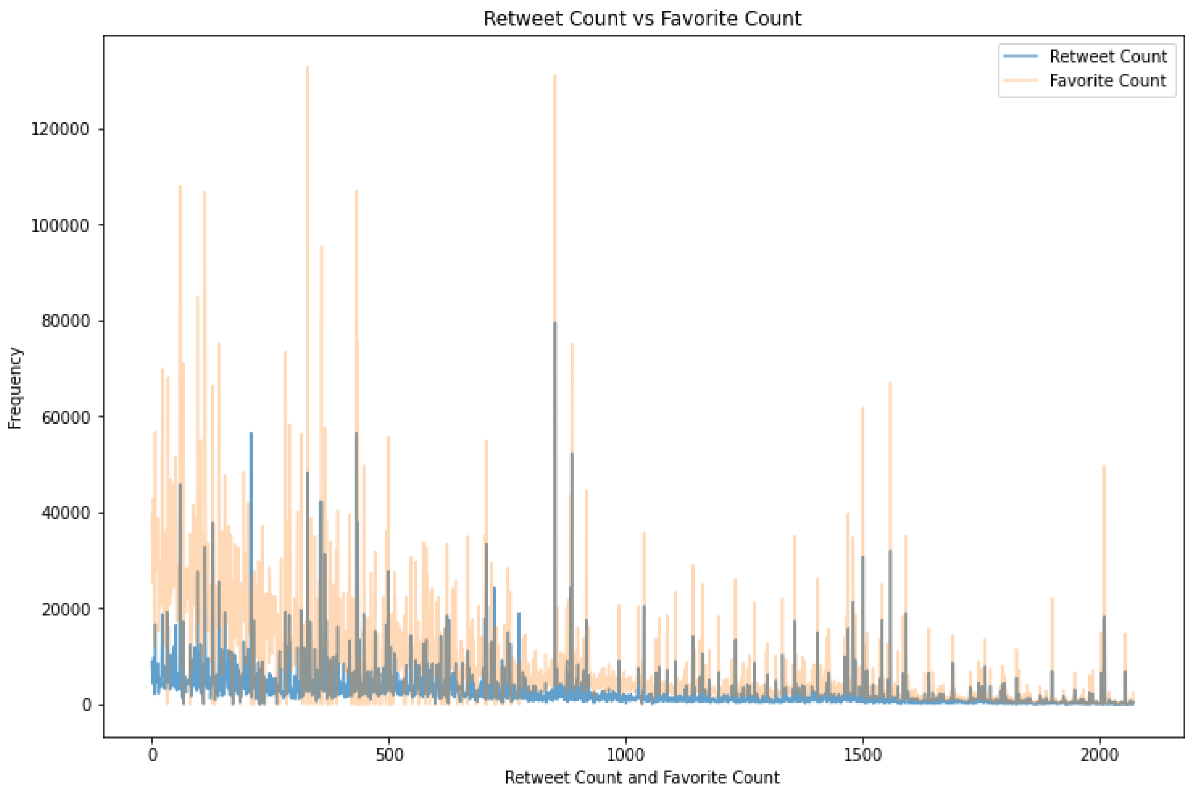
- Most dogs dont have a determined type yet dogs with defined type are : 'pupper'. Followed by : 'doggo' and 'puppo'





- Now Finally after analyzing required last two columns : Favorite Count and Retweet Count we Clear find the following observations:

    - Favorite Count has higher Maximum Value, close to 15000(approx), while Retweet count remains maxed out at 7800 (approx)
    - People tend to add a tweet to their favorite than retweeting a certain tweet.
    - Mean value of Favorite Count > Retweet Count. ('**2976.0892426435116**' and '**8556.718282682103**' respectively)
    - Ratio shared between these two entities (Favorite Count : Retweet Count) = 2.875155139864555: 1 .



Data Quality issues found during Analysis :

- Data provided by Tweepy API had redundant data, ie; most of its columns has None or NAN values stored and needed to be cleaned before analysis.
- Data provided regarding DogType is inadequate as most of tweets do not have type mentioned instead, have 'None' values filled.
- Unnecessary/ Irrelevant data provided in form various columns such as : ['id_str','full_text','truncated','display_text_range','place','contributors','entities','extended_entities'...... etc, which had to be dropped.
- English being the major language of almost all the tweets provided(99%), lang columns could not be used for analysis purposes.
- Column Possible Sensitivity has '0.0' as common value for every row throughout the data frame, defying its relevance in the dataframe.
- The Rating_Numerator column in the data frame has vague values throughout, which in turn had to be engineered from the text column.

- ID column provided in tweet_json has column name different to other two data frames making alterations compulsory for smooth accessibility throughout the data frames.
- Data type of Date column is string where it should have been a date and time object.

Tidiness issues found during Analysis :

- Rows with NULL values existed in all three datasets provided making it untidy.
- Data scattering and unorganized data found across all dataframes.

Concluding Statement : The conclusions provided do not showcase the complete scenario, as due to reasons such as unavailability of data, we here may have infered biased resuls.