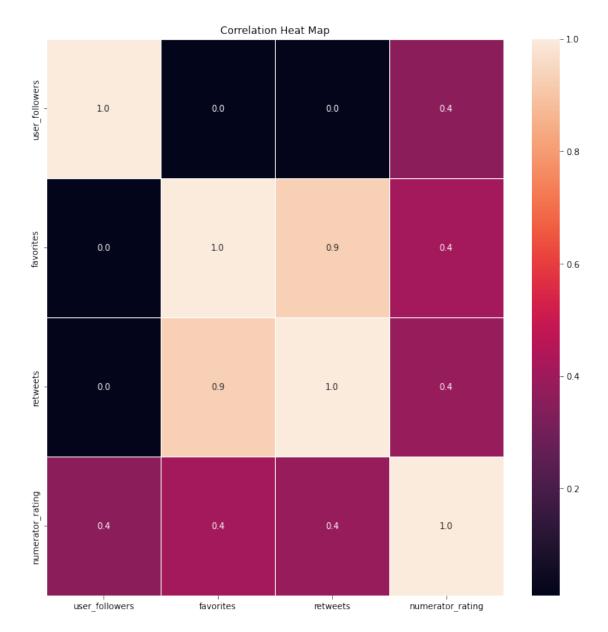
```
WeRateDogs Twitter Data: Analyses Report
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
import tweepy
import requests
import re
import time
import os
import json
import seaborn as sns
from tweepy import OAuthHandler
%matplotlib inline
df enhanced clean = pd.read csv('twitter archive master.csv')
df enhanced clean['tweet id'] =
df enhanced clean['tweet id'].astype(str)
df enhanced clean['timestamp'] =
pd.to datetime(df enhanced clean.timestamp)
df enhanced clean['text'] = df enhanced clean['text'].astype(str)
df enhanced clean['source'] =
df enhanced clean['source'].astype('category')
df enhanced clean['favorites'] =
df_enhanced_clean['favorites'].astype(int)
df enhanced clean['retweets'] =
df enhanced clean['retweets'].astype(int)
df enhanced_clean['user_followers'] =
df enhanced clean['user followers'].astype(int)
df enhanced clean['name'] = df enhanced clean['name'].astype(str)
df enhanced clean['numerator rating'] =
df enhanced clean['numerator rating'].astype(float)
df enhanced clean['denominator rating'] =
df enhanced clean['denominator rating'].astype(float)
Heatmap Correlation
# To come up with a correlation map
f,ax = plt.subplots(figsize=(12, 12))
sns.heatmap(df enhanced clean[['source', 'user followers', 'favorites', '
retweets',
               'numerator rating']].corr(), annot=True, linewidths=.8,
fmt= '.1f',ax=ax)
plt.title('Correlation Heat Map')
Text(0.5, 1.0, 'Correlation Heat Map')
```



Column Chart

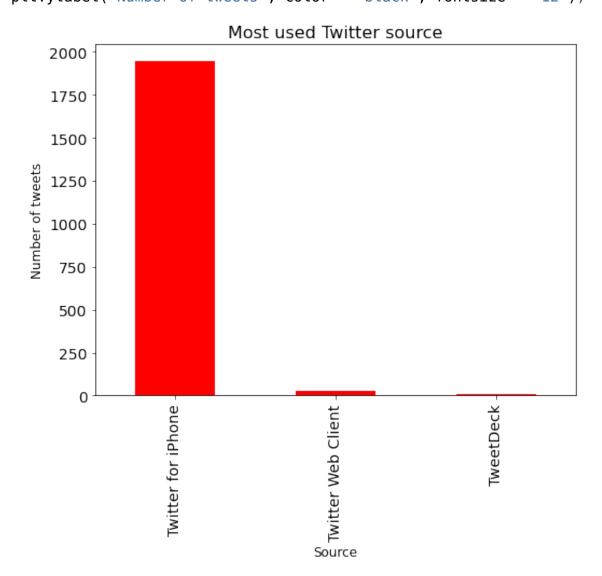
Column chart showing the most used twitter source

```
# To load the dataset

df_master = pd.read_csv('twitter_archive_master.csv')
source = df_master['source'].value_counts()
# To plot the column chart
source
g_bar = source.plot.bar(color = 'red', fontsize = 14)
```

```
#figure size(width, height)
g_bar.figure.set_size_inches(8, 6);

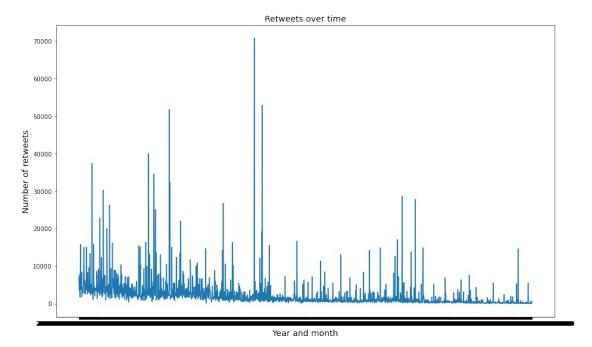
#Add labels
plt.title('Most used Twitter source', color = 'black', fontsize = '16')
plt.xlabel('Source', color = 'black', fontsize = '12')
plt.ylabel('Number of tweets', color = 'black', fontsize = '12');
```



Retweets overtime (Line Chart)

```
# To plot the line chart
sns.set_context()
plt.subplots(figsize=(15, 9))
plt.plot(df_master.timestamp, df_master.retweets)
plt.title('Retweets over time', color = 'black', fontsize = '14')
```

```
plt.xlabel('Year and month', color = 'black', fontsize = '14')
plt.ylabel('Number of retweets', color = 'black', fontsize = '14');
```

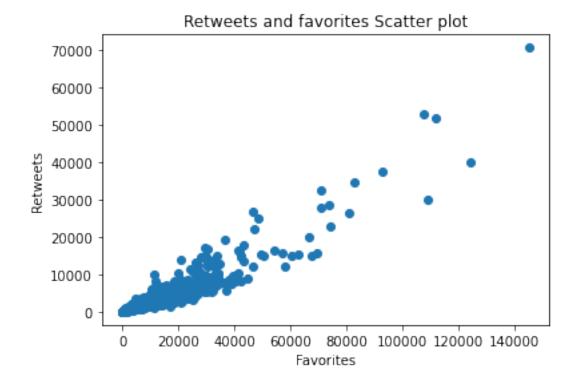


Scatterplot

This section is to plot a scatterplot showing the correlation between favorites and retweets

```
plt.scatter(df_enhanced_clean['favorites'],
df_enhanced_clean['retweets'])
plt.xlabel('Favorites')
plt.ylabel('Retweets')
plt.title('Retweets and favorites Scatter plot')

Text(0.5, 1.0, 'Retweets and favorites Scatter plot')
```



Conclusion

I can say that the analysis of WeRateDogs' tweets reveals a lot of fascinating information about how people's attitudes toward various dog breeds and canine life phases change over time. It also reveals that an individual's Twitter following is not directly correlated with the number of times their tweets are retweeted.