## act report

January 10, 2023

## 0.1 Reporting: act\_report by Abdulraqib Omotosho

This document communicates all the insights and displays the visualizations I produced from the data I wrangled.

## 0.1.1 Insights and Visualizations

- Most popular dog names: Tucker, Lucy and Cooper
- Most popuar dog type: Pupper
- Dog type with the highest confidence interval: Doggo
- Most popular dog breeds: golden retriever
- Most rated dog breeds: golden\_retriever
- Highest Mean retweet counts of dog types: doggo at 4914.918033
- Highest Mean retweet counts of dog breeds: Bedlington terrier at 6562.333333
- The average count of the most liked dog types: doggo at 15632.688525
- The average count of the most liked dog breeds: Bedlington terrier at 20995.666667
- The most popular source of tweets: Twitter for iPhone (1584)
- The highest average retweet counts by on dog names: Stephan at 50687.00

Importing the libraries used in the process

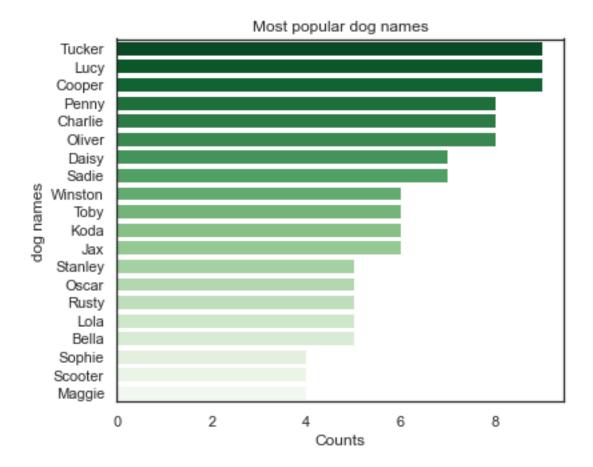
```
[28]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
sns.set_theme(style='white')
from PIL import Image
import warnings
warnings.simplefilter(action='ignore')

df = pd.read_csv('twitter_archive_master.csv')
```

• Most popular dog names

```
[3]: [Text(0.5, 1.0, 'Most popular dog names'), Text(0.5, 0, 'Counts'),
```

Text(0, 0.5, 'dog names')]



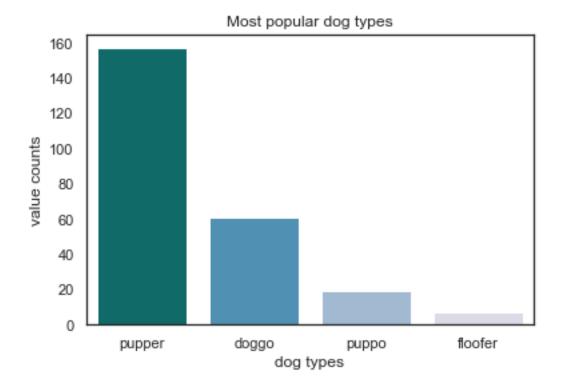
```
[33]: img = Image.open('tucker.jpg')
img
```

[33]:



The Tucker, Lucy and Cooper names are the most popular

• What dog types are the most popular

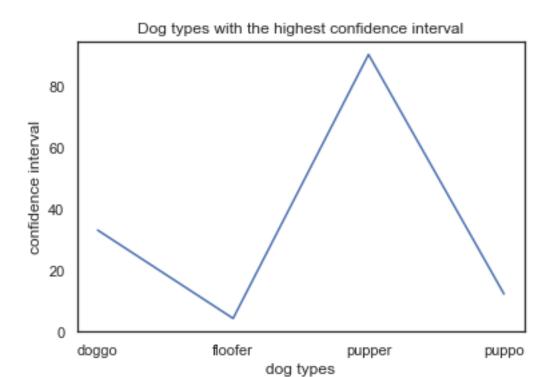


Pupper is the most popular dog type

• Which dog has the highest confidence interval

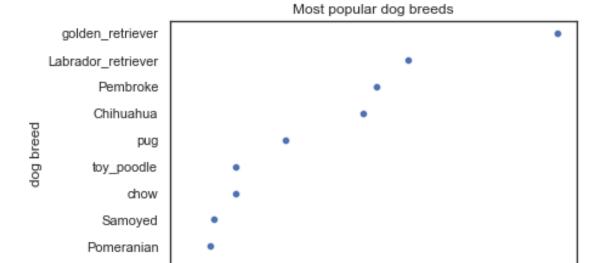
```
[7]: x = df.groupby('types')['confidence'].sum()
sns.lineplot(x.index, x.values, ).set(title='Dog types with the highest
confidence interval', xlabel='dog types', ylabel='confidence interval')

[7]: [Text(0.5, 1.0, 'Dog types with the highest confidence interval'),
    Text(0.5, 0, 'dog types'),
    Text(0, 0.5, 'confidence interval')]
```



Pupper has the highest confidence interval

• Most popular dog breeds



[35]: Image.open('gr.jpg')

60

80

100

Number of breeds

120

140

[35]:



golden\_retrievers are the most popular dog breeds

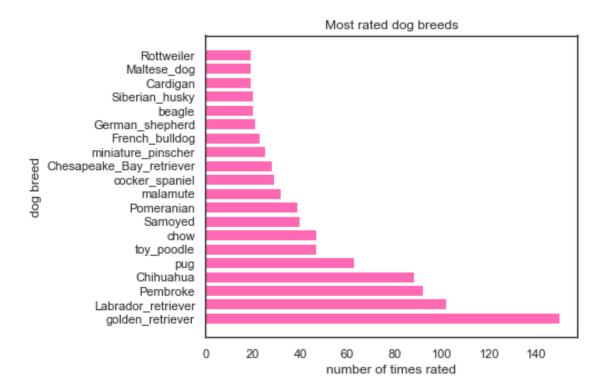
malamute

40

• Most rated dog breeds

```
plt.barh(x.index, x.values, color='hotpink')
plt.xlabel('number of times rated')
plt.ylabel('dog breed')
plt.title('Most rated dog breeds')
```

[11]: Text(0.5, 1.0, 'Most rated dog breeds')



Rottweilers are the dogs rated the most times

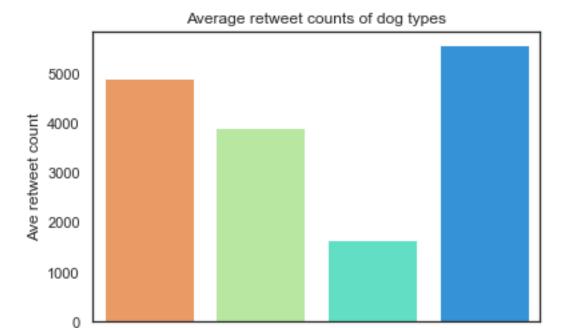
• Mean retweet counts of dog types

Text(0, 0.5, 'Ave retweet count')]

Text(0.5, 0, 'dog types'),

```
[13]: x = df.groupby('types')['retweet_count'].mean()
sns.barplot(x.index, x.values, palette='rainbow_r').set(title='Average retweet
→counts of dog types', xlabel='dog types', ylabel='Ave retweet count')

[13]: [Text(0.5, 1.0, 'Average retweet counts of dog types'),
```



Puppo has the highest average retweet counts of any dog types

doggo

• Mean retweet counts of dog breeds

```
[15]: plt.figure(figsize=(6, 5))

x = df.groupby('dog_breed')['retweet_count'].mean().

sort_values(ascending=False).head(20)

sns.lineplot(x.values, x.index, palette='rainbow_r').set(title='Average retweet_

counts of dog breeds', ylabel='dog breeds', xlabel='Ave retweet count')

[15]: [Text(0.5, 1.0, 'Average retweet counts of dog breeds'),

Text(0, 0.5, 'dog breeds'),

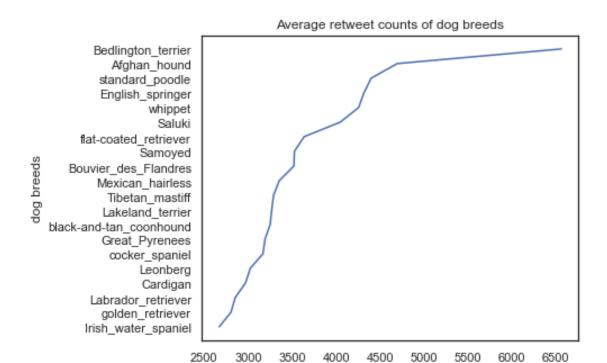
Text(0.5, 0, 'Ave retweet count')]
```

floofer

pupper

dog types

puppo



Ave retweet count

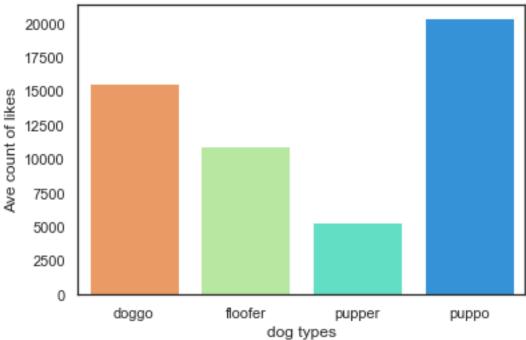
 $\operatorname{Bedlington\_terrier}$  has the highest average retweet counts of any dog breeds

• The average count of the most liked dog types

```
[17]: x = df.groupby('types')['favorite_count'].mean()
sns.barplot(x.index, x.values, palette='rainbow_r').set(title='Average counts_
of the most liked dog types', xlabel='dog types', ylabel='Ave count of_
olikes')

[17]: [Text(0.5, 1.0, 'Average counts of the most liked dog types'),
    Text(0.5, 0, 'dog types'),
    Text(0, 0.5, 'Ave count of likes')]
```





Puppo are the dogs with the highest favorite counts of any dog types

• The average count of the most liked dog breeds

```
[19]: x = df.groupby('dog_breed')['favorite_count'].mean().

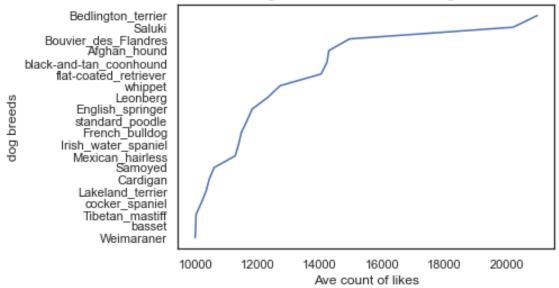
sort_values(ascending=False).head(20)

sns.lineplot(x.values, x.index, palette='rainbow_r').set(title='Average counts_

of the most liked dog breeds', ylabel='dog breeds', xlabel='Ave count of_

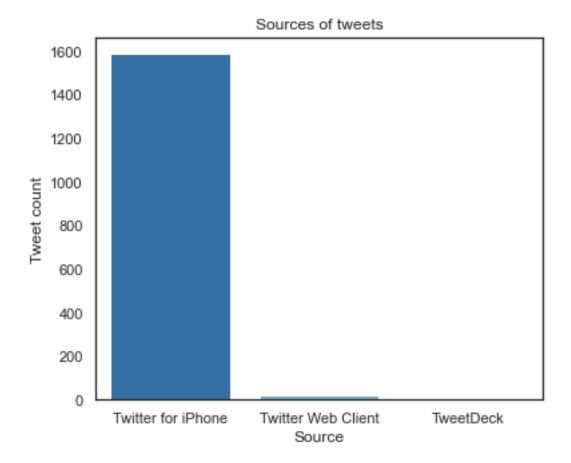
olikes')
```

## Average counts of the most liked dog breeds



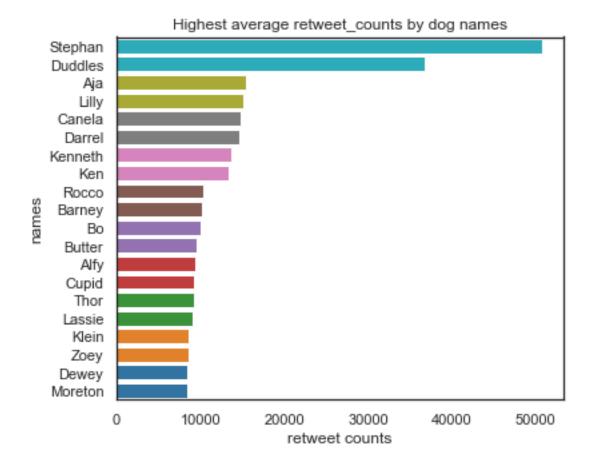
Bedlington\_terrier are the dogs with the highest favorite counts of any dog breeds

• The most popular source of tweets



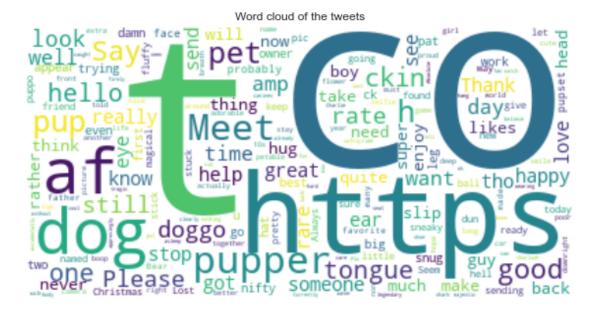
Most tweets where from an iPhone

• The highest average retweet counts by on dog names



Dogs named Stephan had the highest average retweet counts

• Word Cloud of the tweets



• Word Cloud of dog breeds

Word Cloud of dog breeds

