

Wrangle-and-Analyze-Data Project

‘Analyzing and Visualizing Data’

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In the Analyzing and Visualizing Data’ stage, first I stored the data after cleaning it and then export it again using the lines of code below.

Storing Data

. "Save gathered, assessed, and cleaned master dataset to a CSV file named "twitter_archive_master.csv"

```
df.to_csv('twitter_archive_master.csv', encoding='utf-8', index=False)
```

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Analyzing and Visualizing Data

.In this section, analyze and visualize your wrangled data. You must produce at least three (3) insights and one (1) visualization

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

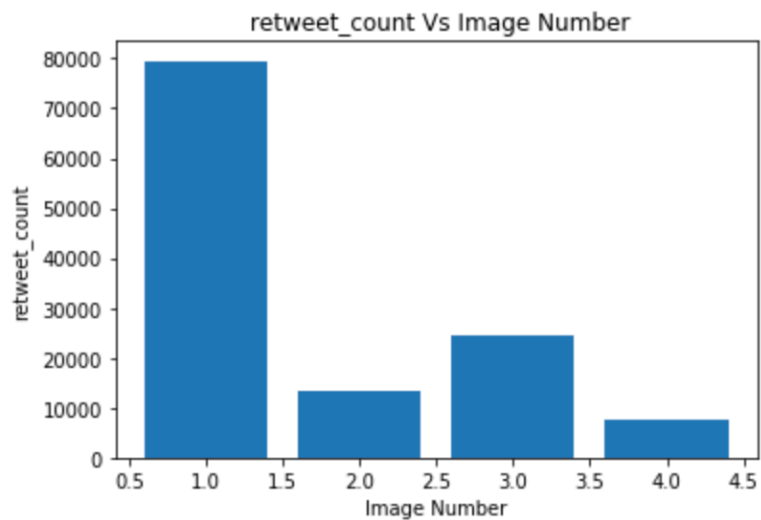
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Insight #1:

Plot of Retweet Count

```
plt.bar(df["img_num"], df['retweet_count'])  
  
plt.title(' retweet_count Vs Image Number')  
plt.ylabel('retweet_count')  
plt.xlabel('Image Number');  
plt.show()
```

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By looking at the graph, we can see that image 1, has a lot more retweets than the rest of the images.

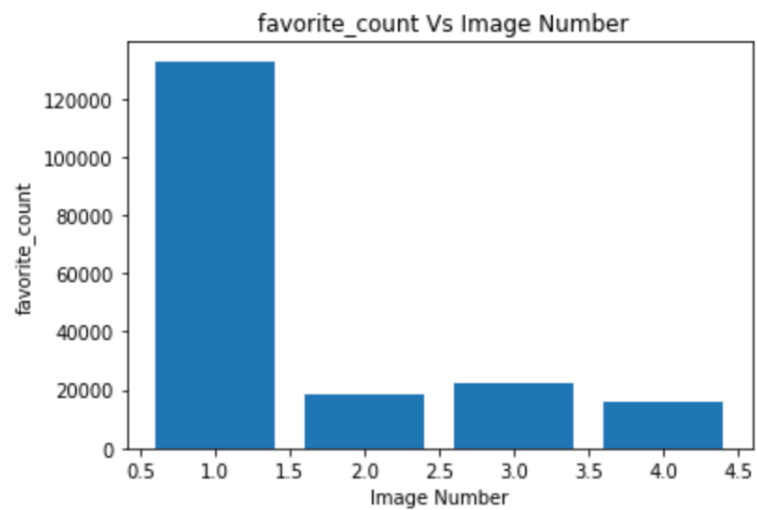
Insight #2:

Plot of favorite Count

```
plt.bar(df["img_num"], df['favorite_count'])

plt.title(' favorite_count Vs Image Number')
plt.ylabel('favorite_count')
plt.xlabel('Image Number');
```

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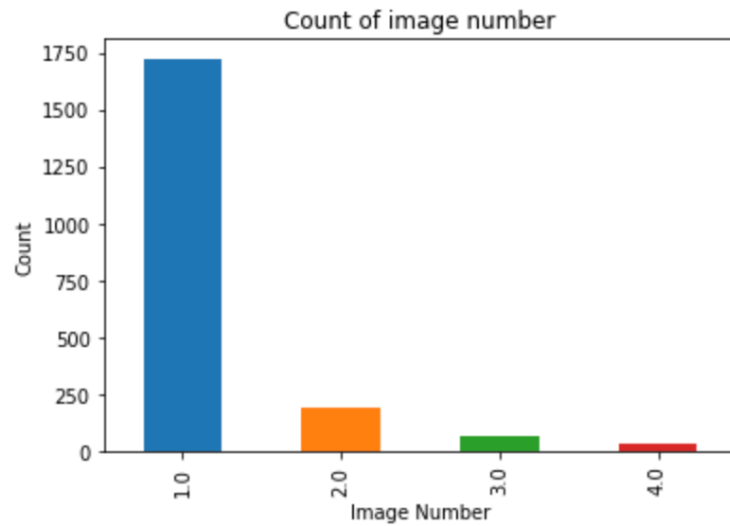
In terms of favorite, we also note that image #1 has a very high number of favorite compared to the rest of the image.

Insight #3 :

Plot of Image Number Count

```
df['img_num'].value_counts().plot(kind='bar')  
plt.title('Count of image number')  
plt.xlabel('Image Number')  
plt.ylabel('Count');
```

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We notice from the graphic that the first image has a much greater number of repetitions than the rest of the images, and I think that is why it has more retweets and favorite than the rest of the images.

Insight #4:

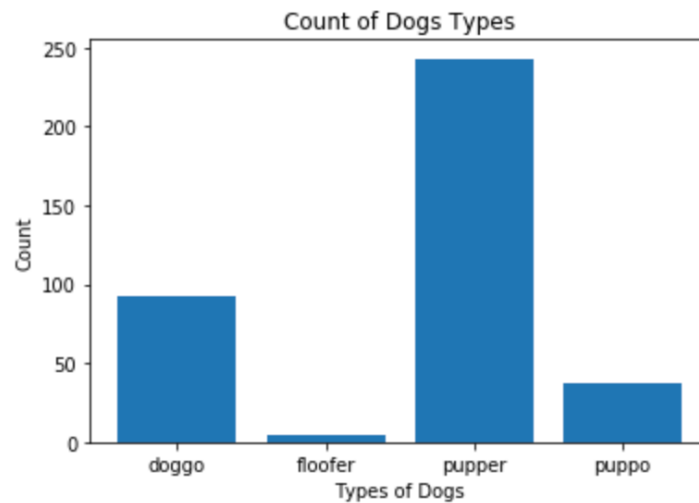
Plot of Dogs Types Count

```
x = list(df['type'].value_counts().index)
y = list(df['type'].value_counts())

plt.bar(x,y)
plt.title("Count of Dogs Types")
plt.xlabel("Types of Dogs")
plt.ylabel("Count")

plt.show()
```

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This chart describes the types and frequency of dogs. Here we note that the Pupper is more popular than other dog types, followed by the doggo.