Matplotlib

Libraries Used:

Import matplotlib.pyplot as plt (more)

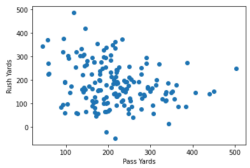
- Used to create graphical representations of our data and display trends

Matplotlib Plot Types:

.scatter() (more)

- Creates a scatter plot based on two parameters
- First parameter is values along x-axis, second is values along y-axis

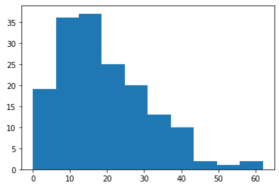
```
plt.scatter(df['pass yards'], df['rush yards'])
```



.hist() (more)

- Creates a histogram based on one parameter, the extracted df

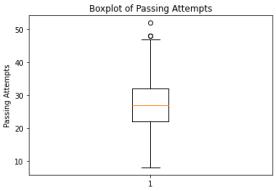
```
plt.hist(df["points against"])
```



.boxplot() (more)

- Creates a boxplot based on a series or dataframe similar to a histogram

```
plt.boxplot(pass_att_df)
```



.plot() (more)

- Used to make different graphs which can be specified in the parameters (kind = ___)
- Explore online to learn ab the types of graphs you can make
- Each kind of graph has its own additional parameters that can be used

Matplotlib Functions:

plt.show() (more)

- Must include this to actually show the graphs you create

plt.clf() (more)

- Clears the current graphical output for new graphs

plt.xlabel() (more)

- Adds a label to the x-axis

plt.ylabel() (more)

- Adds a label to the y-axis

plt.title() (more)

- Adds a label to the entire plot

plt.legend() (more)

- Adds a legend to the plot