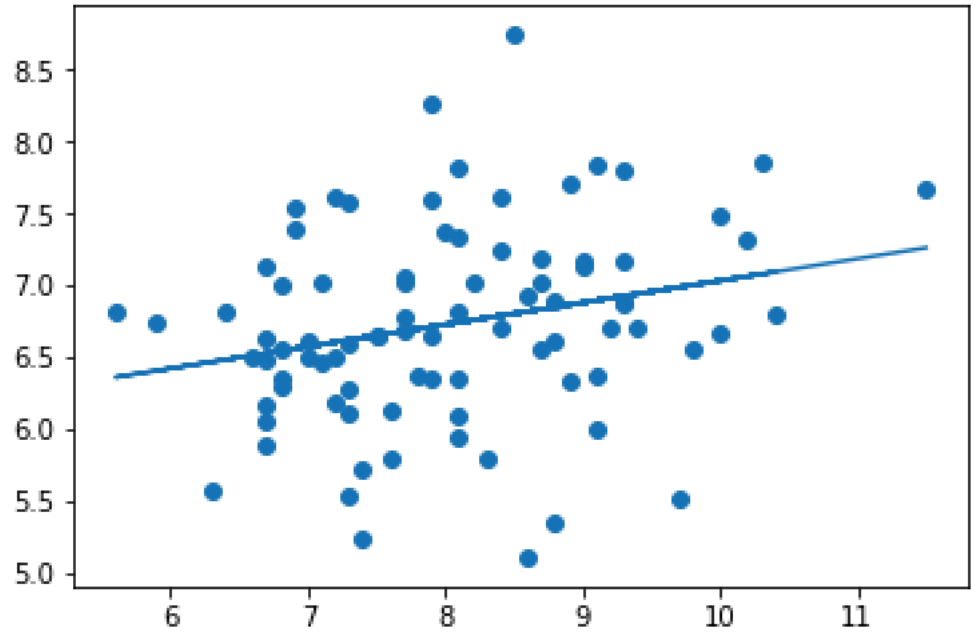
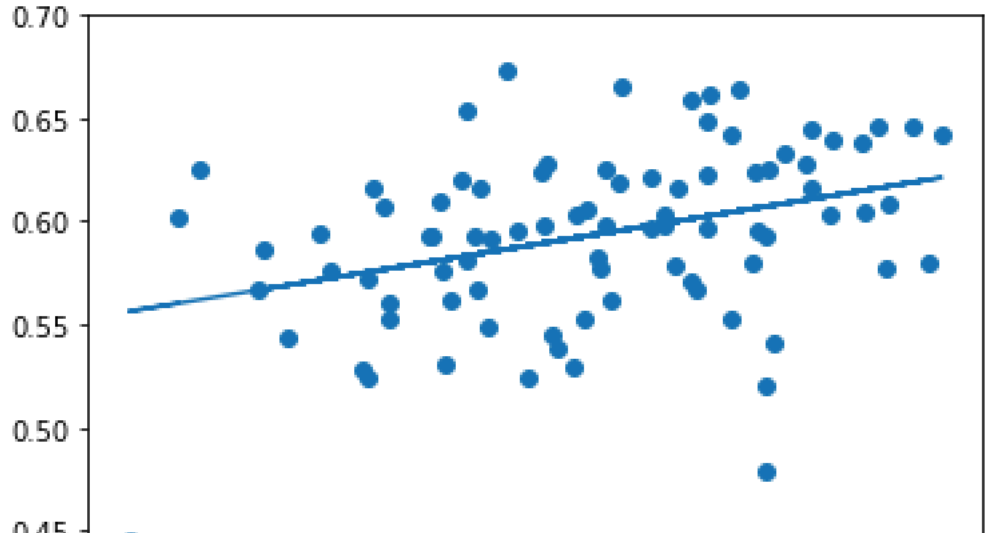
College Yards Per Attempt vs. NFL Yards Per Attempt

```
In [12]: ScatterPlusTrendline(collegeYPA,nflYPA)
The correlation coefficient is 0.2525671689431946
```



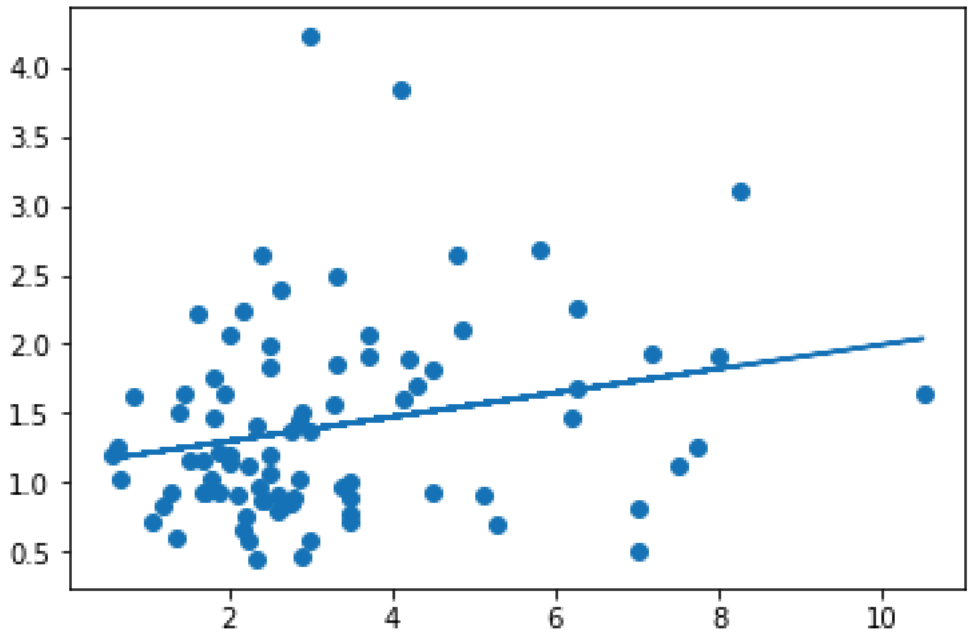
College Completion Percentage vs. NFL Completion Percentage

```
In [13]: ScatterPlusTrendline(collegePCT,nflPCT)
The correlation coefficient is 0.35655756848330084
```



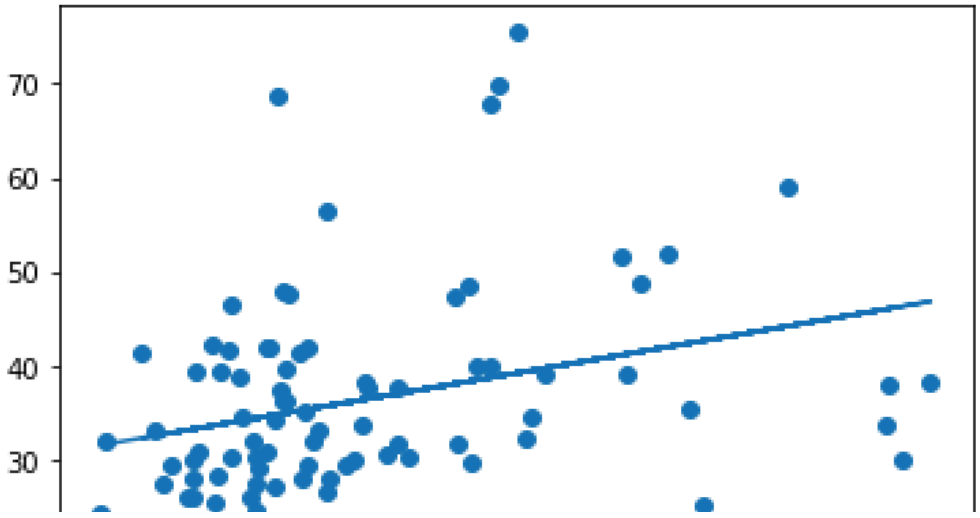
College Touchdown/Interception Ratio vs. NFL Touchdown/Interception Ratio

```
In [15]: ScatterPlusTrendline(collegeTDINTratio,nflTDINTratio)
The correlation coefficient is 0.24015858903706994
```



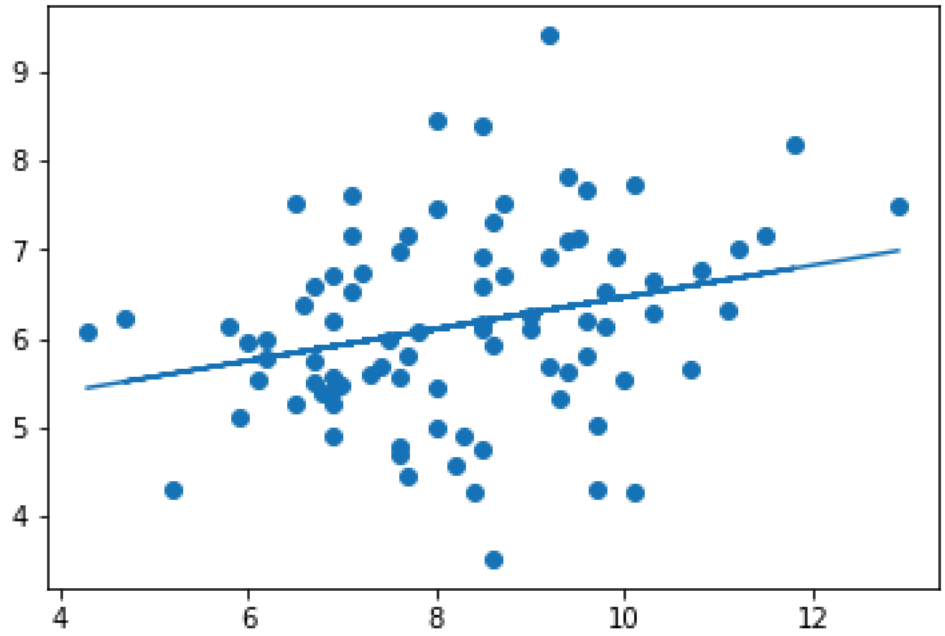
College Inverse Interceptions Per Attempt vs. NFL Inverse Interceptions Per Attempt

```
In [16]: ScatterPlusTrendline(collegeINTPA,nflINTPA)
The correlation coefficient is 0.3135716996881771
```



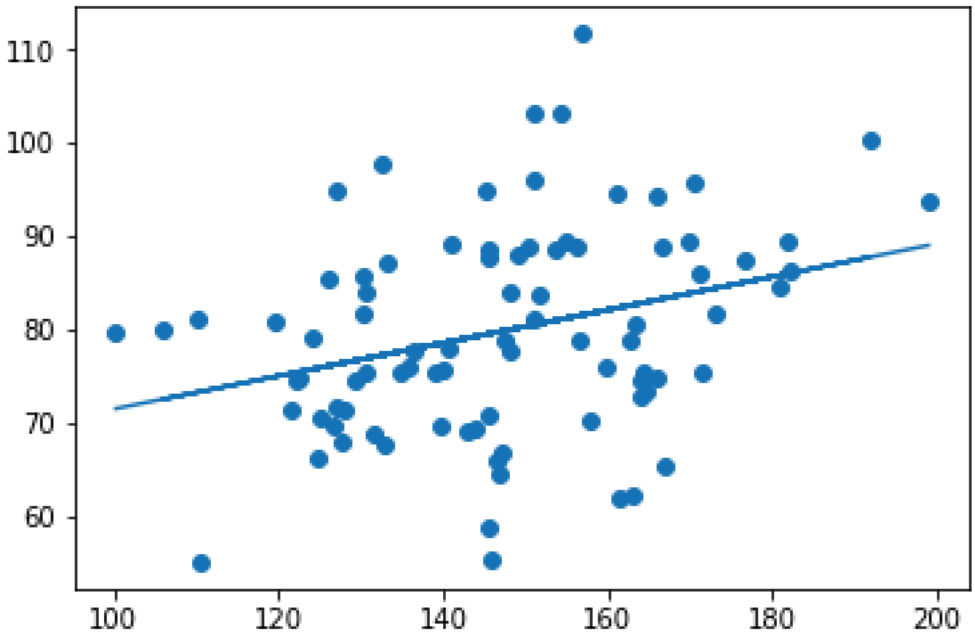
College Adjusted Yards Per Attempt

```
In [17]: ScatterPlusTrendline(collegeAYPA,nflAYPA)
The correlation coefficient is 0.2703693066709428
```

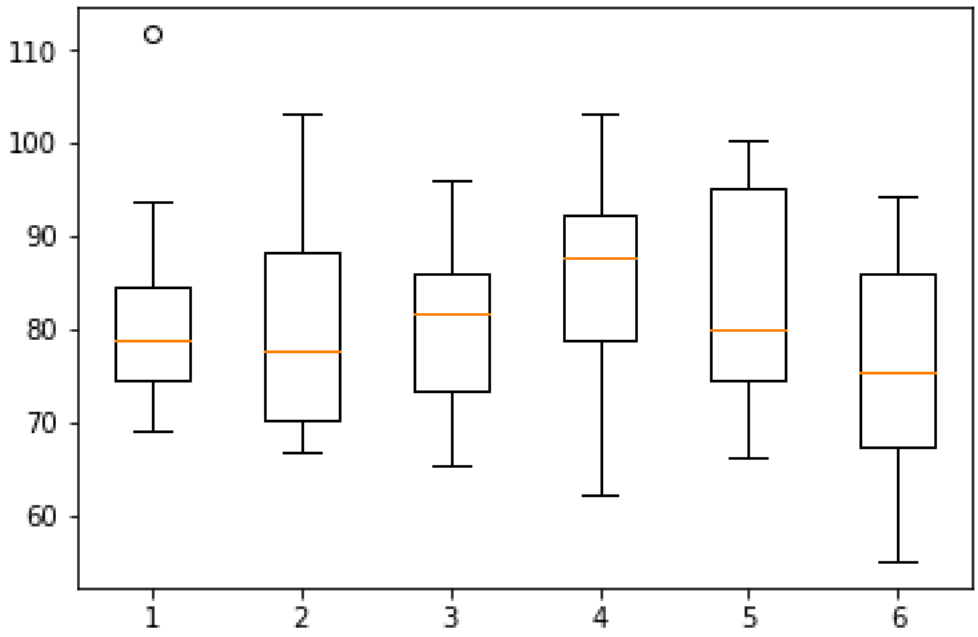


College Passer Rating vs. NFL Passer Rating

```
In [20]: ScatterPlusTrendline(CFBNFL['cRate'],PR)
The correlation coefficient is 0.31088712672260027
```



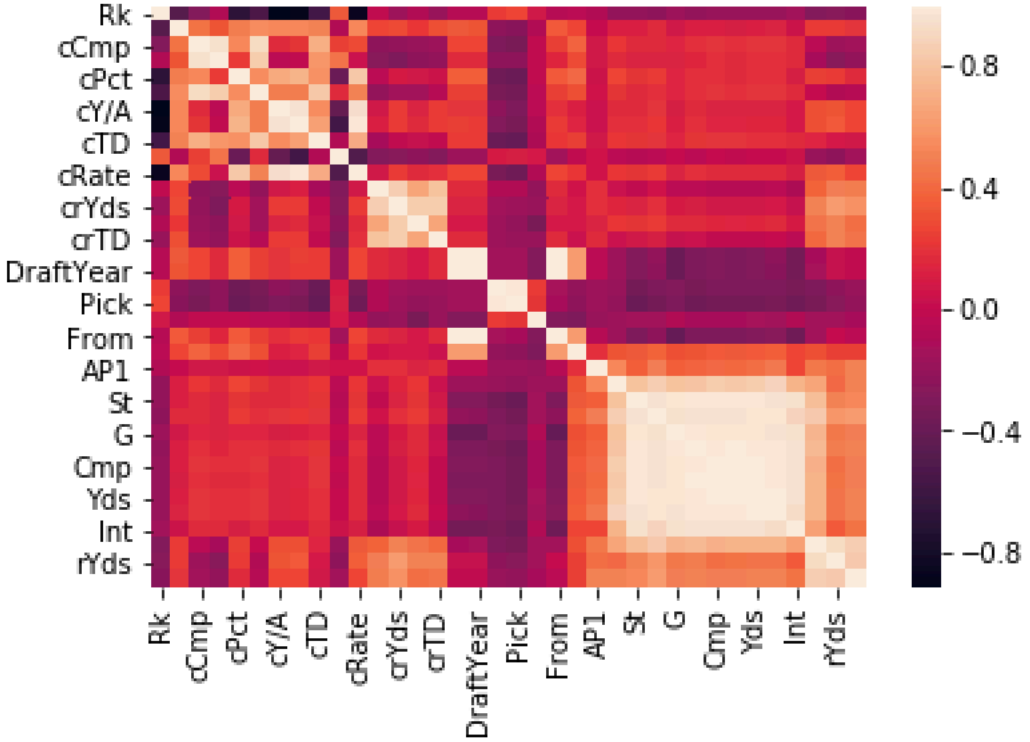
College Conferences vs. NFL Passer Rating



1=Big 12 Conference
2=Pac-12 Conference
3=SEC Conference
4=ACC Conference
5=Big Ten Conference
6=Non Power 5 Conference

Correlation Heat Map

```
In [23]: CFBNFLcorrmatrix = CFBNFL.corr()
    ...: sns.heatmap(CFBNFLcorrmatrix)
Out[23]: <matplotlib.axes._subplots.AxesSubplot at 0x1a20f09d30>
```



The upper right quadrant of this Correlation Heat Map shows the correlation between College quarterback stats and the NFL stats that they recorded. This is the quadrant that we are looking at.

Age the quarterback was drafted vs. NFL Passer Rating

```
In [26]: plt.scatter(CFBNFL['DrAge'],PR) #Draft Age vs. Passer Rating graph
Out[26]: <matplotlib.collections.PathCollection at 0x1a219b1c88>
```