Skewness Reasoning:

Texts is right skewed since the right side of the box is larger and the right whisker are longer. There are also a couple of large outliers on the right end.

Comments on the boxplot:

UGPA for Biological Sciences and Engineering have about the same spread and median, as do Business and Other. Biological Sciences and Engineering are right skewed and Other and Business are pretty symmetric. There are no outliers in any of the plots.

R2 And R2 adj:

R² is 0.2339 and Ra² is 0.00001. They are both low, which is bad. They are both far apart, which is also bad. Ra² is very small which means that the penalty for taking the explanatory variables is far outweighing the benefit in explaining Y they are providing.

Ra² means that .001% of the variation in Wealth is being explained by the explanatory variables once we have taken a penalty for the number of X variables included.

## Interpret the slope

**for every 1 more unit added to the X, Y would increase by 3.281e-05 in index, holding the other X’s variables constant.**

**Y ~ Catagorical variable estimate coefficient**

If someone is a Male, their level of Wealth to feel rich decreases by 3.470 million dollars when compared to a female, holding all other X variables constant.

Hist and QQPlot

> par(mfrow=c(1,2))

> hist(Salary)

> qqnorm(Salary)

> qqline(Salary)



Salary is right skewed in the histogram and not normally distributed in the qq plot since several points veer far away from the line in the top of the qq plot.