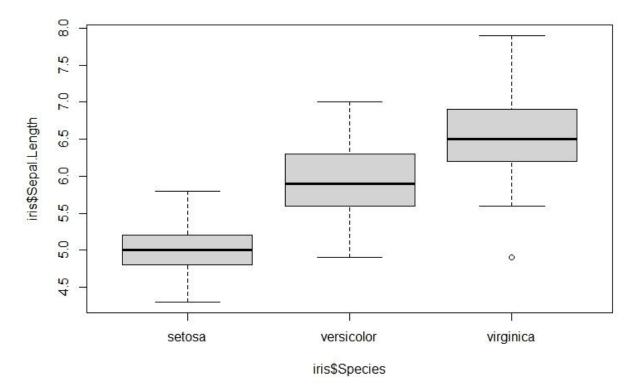
- 1. Setosa
- 2. ~5cm
- 3. 5.0060 + 1.5820 = 6.588 virginica = subset (iris, Species == "virginica") mean(virginica\$Sepal.Length)



- 4. Yes, they meet the criteria for normality. The p-value for the shapiro test is above the alpha level, allowing us to reject the null hypothesis that the data is non-normally distributed.
- 5. Yes, we determined that a linear model is appropriate for this data. The relationship between the values is linear and has normally distributed residuals.
- 6. ~2.23 cm
- 7. 4\*2.23 = ~8.92cm
- 8. Yes, this model meets the criteria for normality. The p-value for the shapiro test is above the alpha level, allowing us to reject the null hypothesis that the data is non-normally distributed.