

# STAT 4705 Extra Credit

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## 1 Iris Data Analysis

### 1.1 Descriptive Statistics

The iris data consists of 150 different measurements of sepal width. Below is the analysis of that data:

$$\begin{aligned}\bar{x} &= 3.0573333333 \\ s^2 &= 0.189979418345 \\ s &= 0.435866284937 \\ M &= 3.0 \\ Q_1 &= 2.8 \\ Q_3 &= 3.3\end{aligned}\tag{1}$$

### 1.2 Graphs

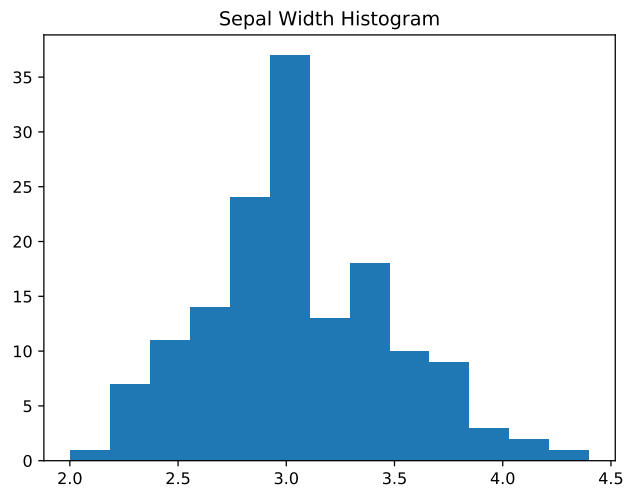


Figure 1: Histogram of the sepal widths.

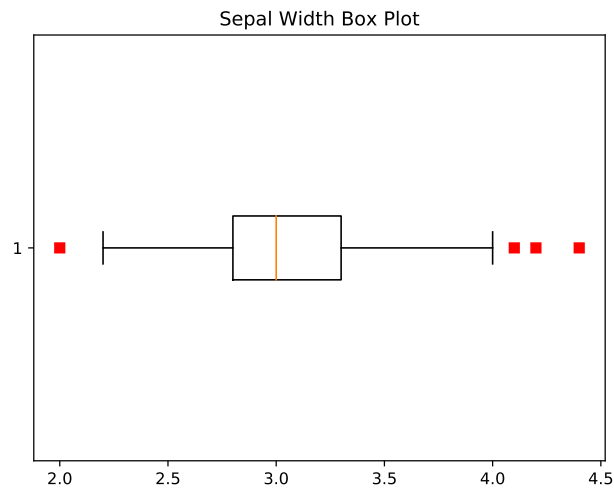


Figure 2: As you can see, this is the boxplot with the mean, Q1, and Q3 at 3.05733333333, 2.8, and 3.3 respectively.

### 1.3 Normality

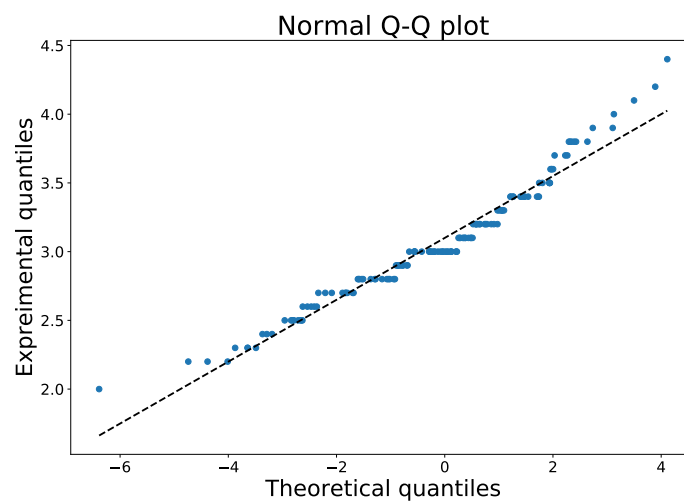


Figure 3: The trend shows that the the set of data does fir a normal distribution.