SIMPLE SASWEAVE USAGE EXAMPLE: ANALYSIS OF FISHER'S IRIS DATA

BERD REPRODUCIBLE RESEARCH WORKING GROUP

The famous (Fisher's or Anderson's) iris data set gives the measurements in centimeters of the variables sepal length and width, and petal length and width, respectively, for 50 flowers from each of 3 species of iris. The species are *setosa, versicolor, virginica.*

First, let's run a simple ANOVA comparing the sepal lengths of the three species.

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The ANOVA Procedure

Dependent Variable: SepalLength   Sepal Length (mm)
                                        Sum of
Source                      DF         Squares     Mean Square    F Value    Pr > F
Model                        2      6321.21333      3160.60667     119.26    <.0001
Error                      147      3895.62000        26.50082
Corrected Total            149     10216.83333
```

We can see that the three species have significantly different sepal lengths. Figure 1 shows the corresponding boxplot.

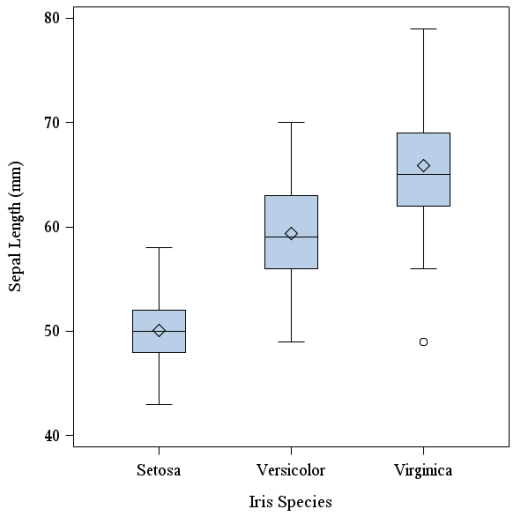

FIGURE 1. Boxplot of sepal lengths by species.