# Homework 1

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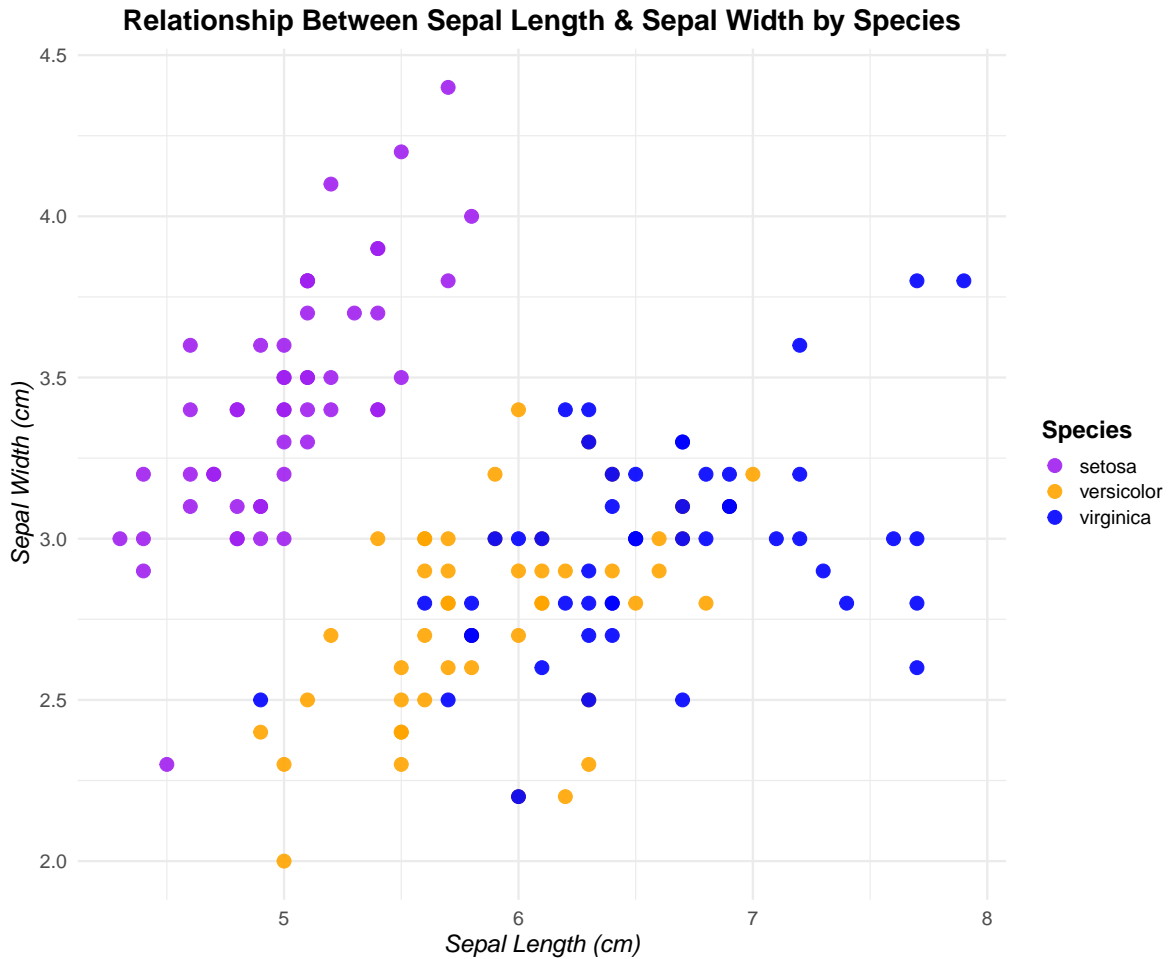
## Introduction

The iris dataset from R's datasets package includes measurements of various attributes for different iris species.

Using ggplot2 in R, I created a scatter plot to show the relationship between Sepal Length and Sepal Width. The dataset consists of 150 observations, with 50 each for setosa, versicolor, and virginica.

**Plot**

**Relationship Between Sepal Length & Sepal Width by Species**



The plot above illustrates the relationship between Sepal Length and Sepal Width of iris flowers.

**Conclusion**

Distinct species clusters highlight sepal dimensions as useful for species identification. The scatter plot shows the relationship between sepal length and width for three Iris species:

1. **Setosa** (Smallest length, widest width)
2. **Versicolor** (Intermediate dimensions)
3. **Virginica** (Longest length, varied width), with each point colored by species.