

Mod-9.R

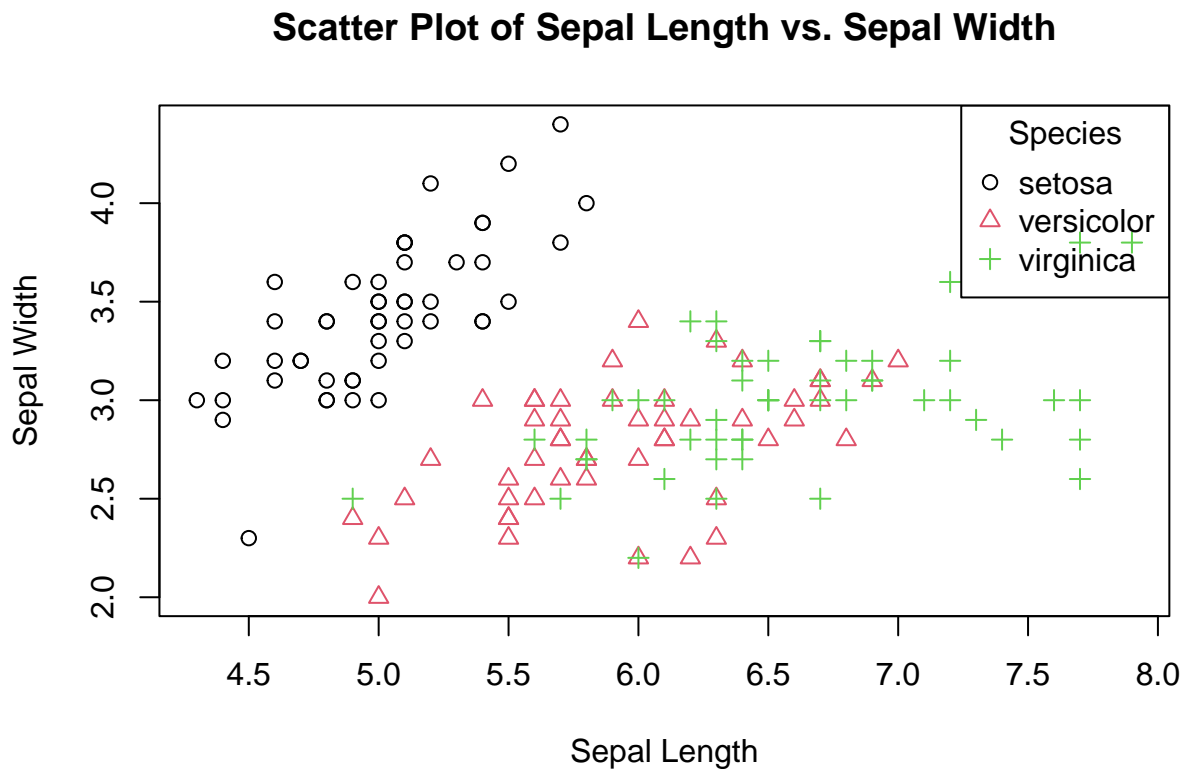
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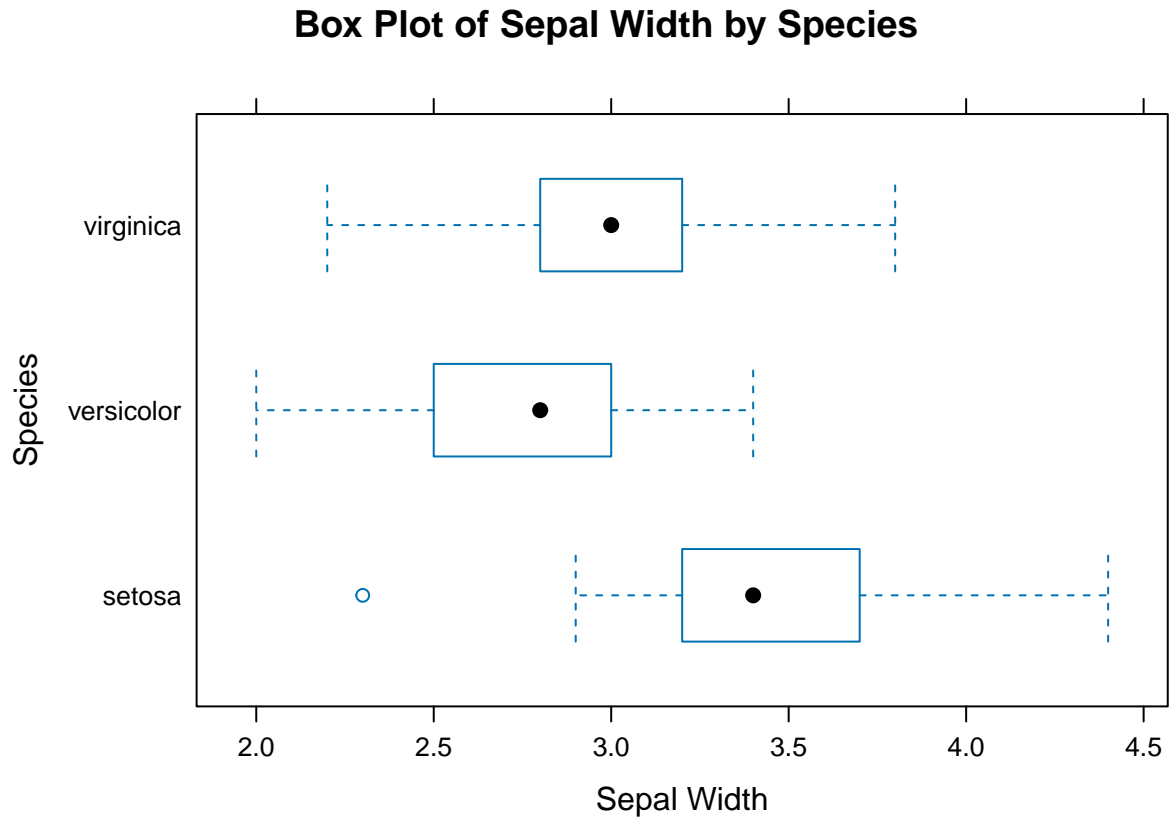
```
# Load the dataset
data(iris)

# Scatter plot of Sepal Length vs. Sepal Width with color and texture variation
plot(iris$Sepal.Length, iris$Sepal.Width,
     col = iris$Species, # Color by species
     pch = as.integer(iris$Species), # Use different symbols for each species
     xlab = "Sepal Length", ylab = "Sepal Width",
     main = "Scatter Plot of Sepal Length vs. Sepal Width")
legend("topright", legend = levels(iris$Species),
     col = 1:nlevels(iris$Species), pch = 1:nlevels(iris$Species), title = "Species")

# Load the lattice package
library(lattice)
```



```
# Create a box plot of Sepal Width by Species using lattice
bwplot(Species ~ Sepal.Width, data = iris,
       main = "Box Plot of Sepal Width by Species",
       xlab = "Sepal Width", ylab = "Species")
```



```
# Load the ggplot2 package
library(ggplot2)

# Create a density plot of Petal Length by Species using ggplot2
ggplot(iris, aes(x = Petal.Length, fill = Species)) +
  geom_density(alpha = 0.7) +
  labs(title = "Density Plot of Petal Length by Species",
       x = "Petal Length", y = "Density")
```

