## WK3 Assignment 1 of 2

Avi

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## **Sepal Width Histogram**

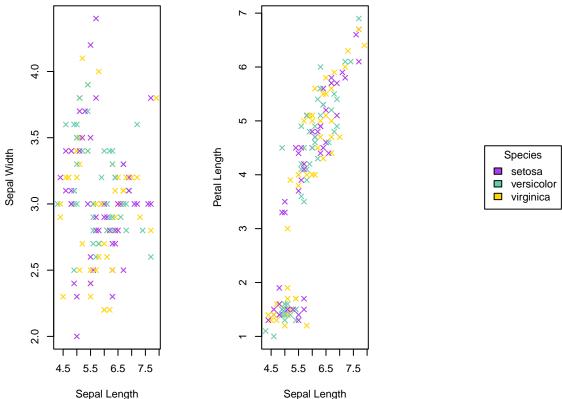


```
# The histogram is right skewed so I expect the mean to be higher

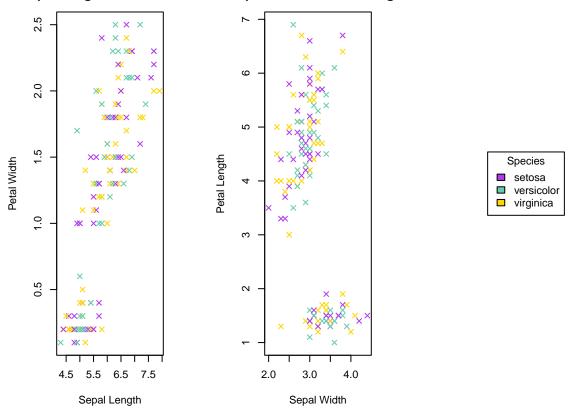
mean_value <- mean(iris$Sepal.Width)
median_value <- median(iris$Sepal.Width)
mean_value</pre>
```

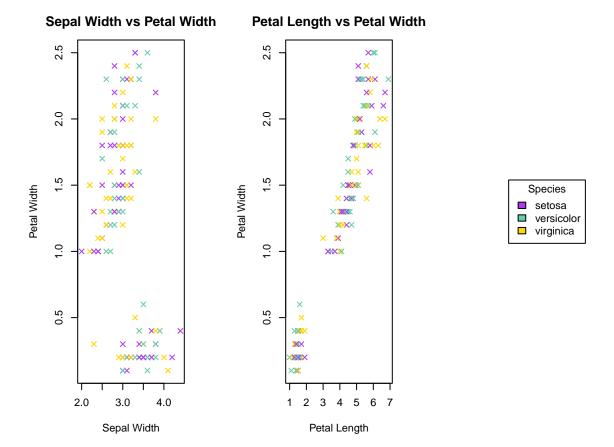
## [1] 3.057333

```
median_value
## [1] 3
quantile(iris$Sepal.Width, 0.73)
## 73%
## 3.3
par(mfrow = c(1,3), mar=c(4,4,3,4))
species_colors <-</pre>
  c("setosa" = "darkorchid2", "versicolor" = "aquamarine3", "virginica" = "gold1")
plot(iris$Sepal.Length, iris$Sepal.Width, col=species_colors, pch=4,
     xlab="Sepal Length", ylab="Sepal Width", main="Sepal Length vs Sepal Width")
plot(iris$Sepal.Length, iris$Petal.Length, col=species_colors, pch=4,
     xlab="Sepal Length", ylab="Petal Length", main="Sepal Length vs Petal Length")
plot.new()
legend("center", legend = levels(iris$Species), title="Species", fill = c("darkorchid2", "aquamarine3",
  Sepal Length vs Sepal Width
                                Sepal Length vs Petal Length
```



## Sepal Length vs Petal Width Sepal Width vs Petal Length





# Sepal Length vs Petal Length and Petal Length vs Petal Width have the strongest relationship
# Sepal Length vs Sepal Width and Sepal Length vs Petal Width seem to have the weakest relationship