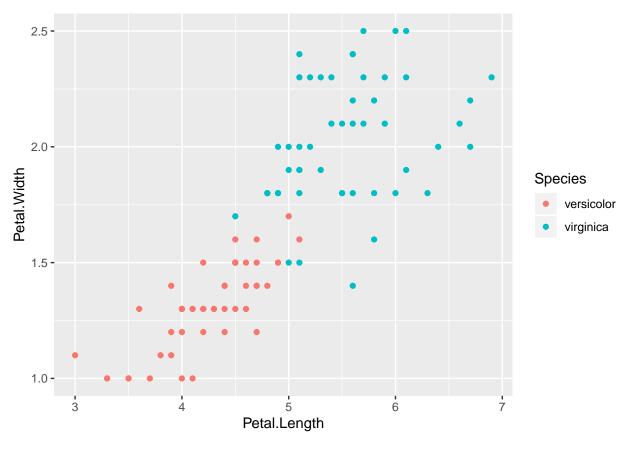
## Homework 2

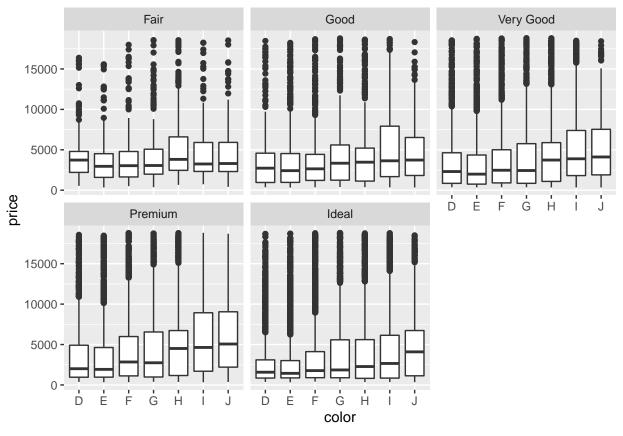
## Heather Becker

## 1/31/2020

```
# 1.) The species with the maximum value for Sepal.Legth + Sepal.Width is virginica
d <- iris %>%
    mutate(Sepal.Sum = Sepal.Length + Sepal.Width) %>%
    select(Sepal.Sum, Species) %>%
    arrange(desc(Sepal.Sum))
    head(d)
   Sepal.Sum
                Species
## 1
       11.7 virginica
         11.5 virginica
## 2
## 3
        10.8 virginica
## 4
         10.7 virginica
## 5
         10.6 virginica
## 6
         10.5 virginica
# 2.)
g <- iris %>%
   filter(Species != "setosa") %>%
    ggplot(aes(Petal.Length, Petal.Width, color = Species)) + geom_point()
    print(g)
```



```
# 3.)
df <- diamonds %>%
    ggplot(aes(x = color, y = price)) + geom_boxplot() + facet_wrap(~cut)
    print(df)
```



```
# 4.)
qnorm(0.95)
```

## ## [1] 1.644854

## alternative hypothesis: true mean is not equal to 0

## 95 percent confidence interval:

## 63.6135 63.8886 ## sample estimates:

## mean of x ## 63.75105