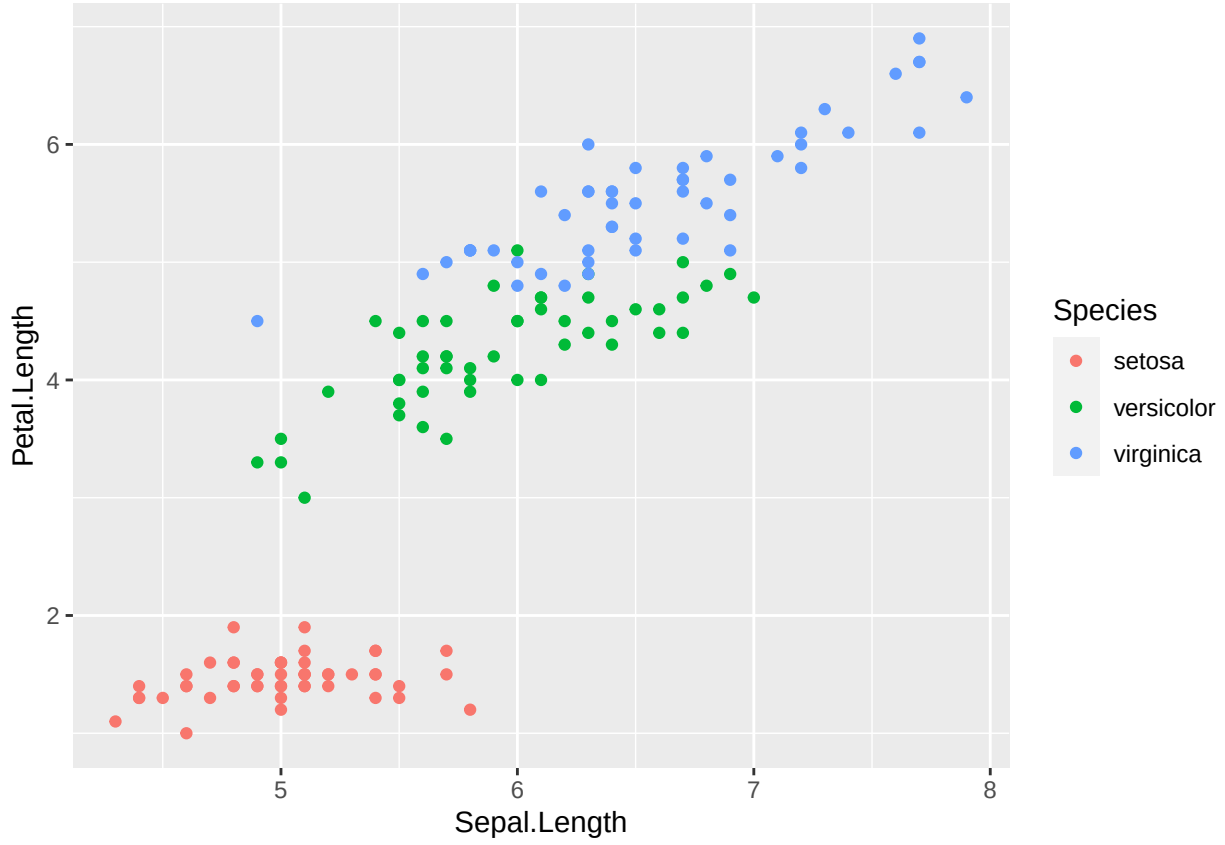
22238_MDSC_201_Assignment 5

```
library(ggplot2)
```

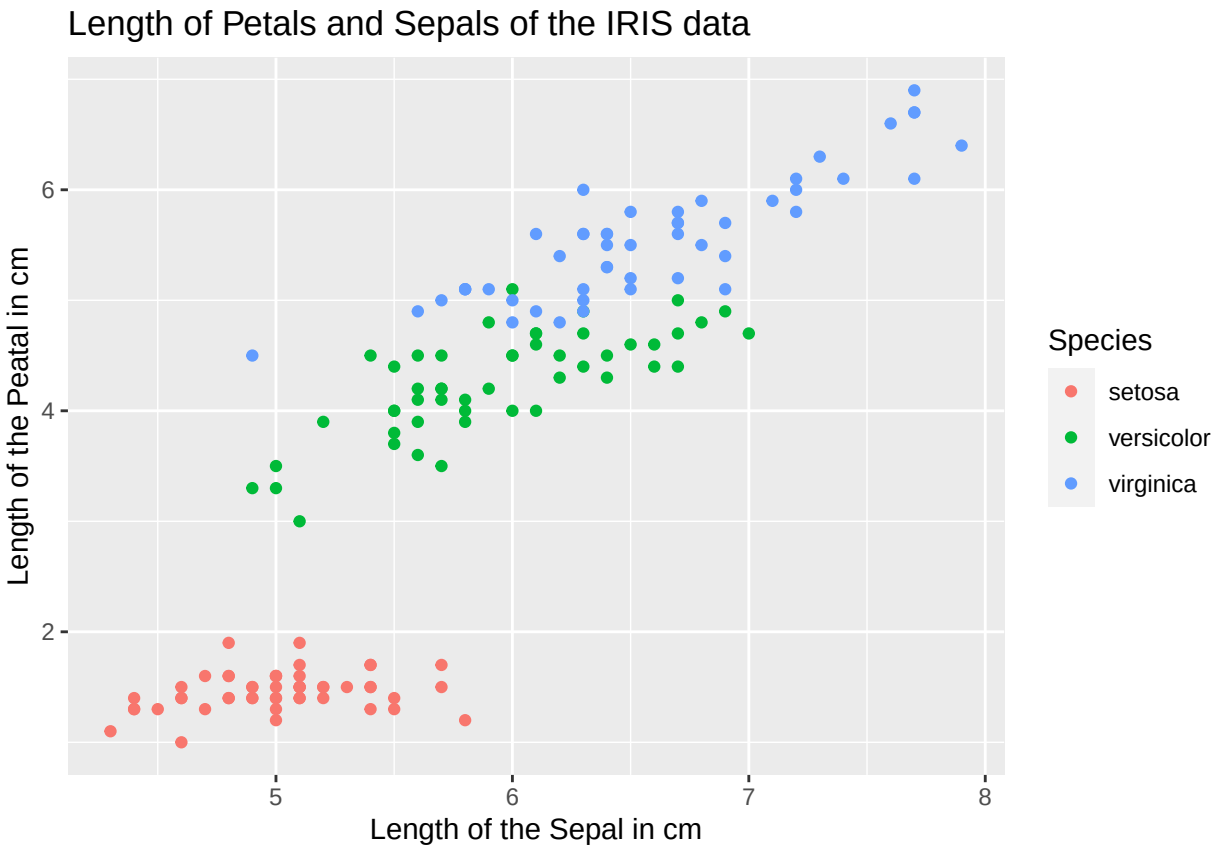
```
data(iris)
data(mtcars)
```

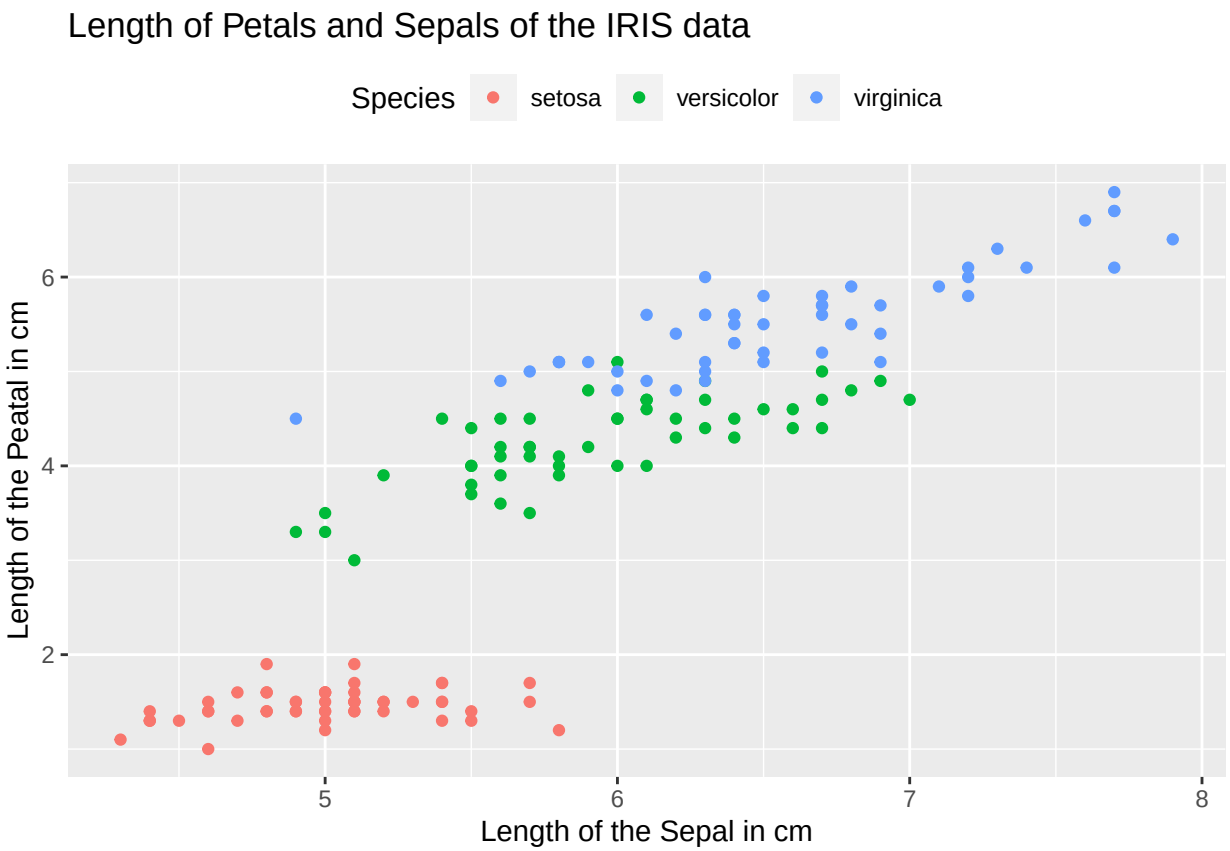
```
plot1 <- ggplot(iris, aes(Sepal.Length, Petal.Length, colour = Species)) + geom_point()

print(plot1)
```

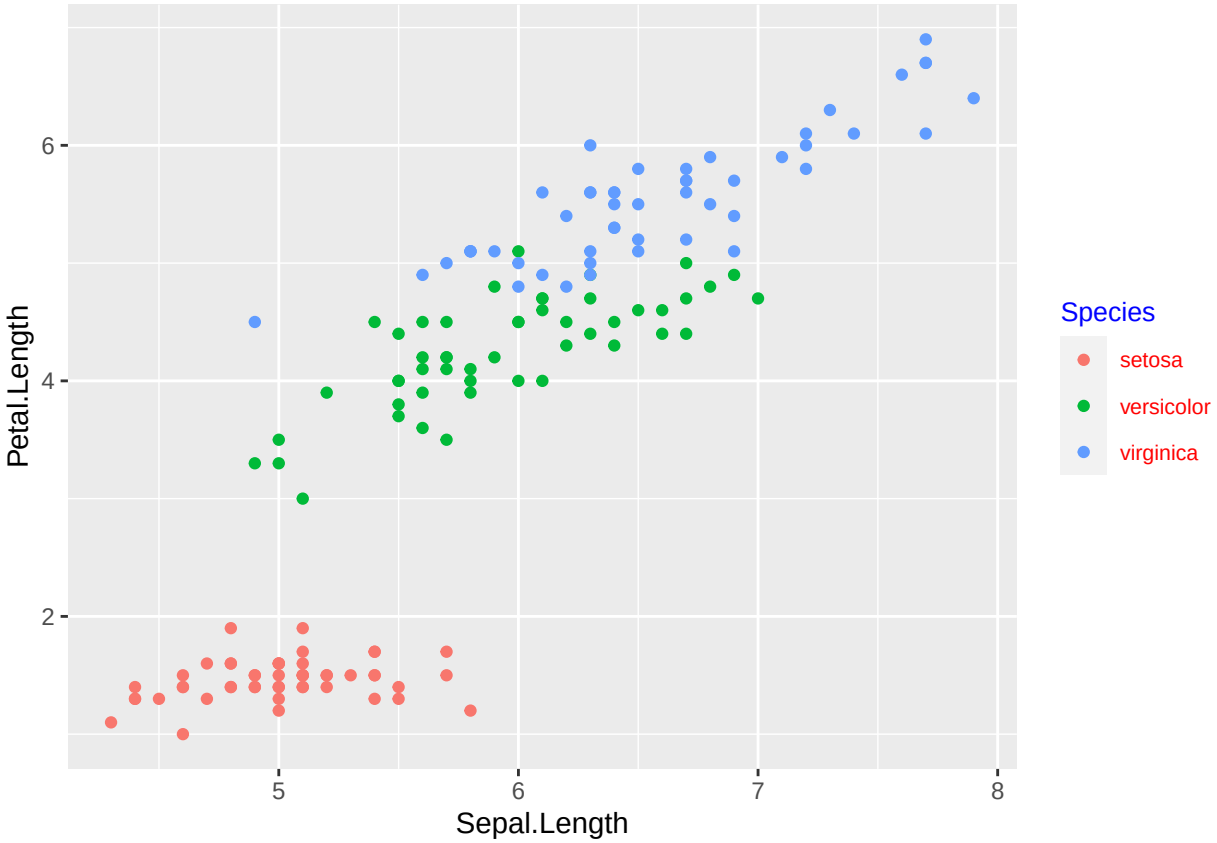



```
print(plot1 + labs(y = "Length of the Peatal in cm", x = "Length of the Sepal in cm") + ggtitle("Length
```

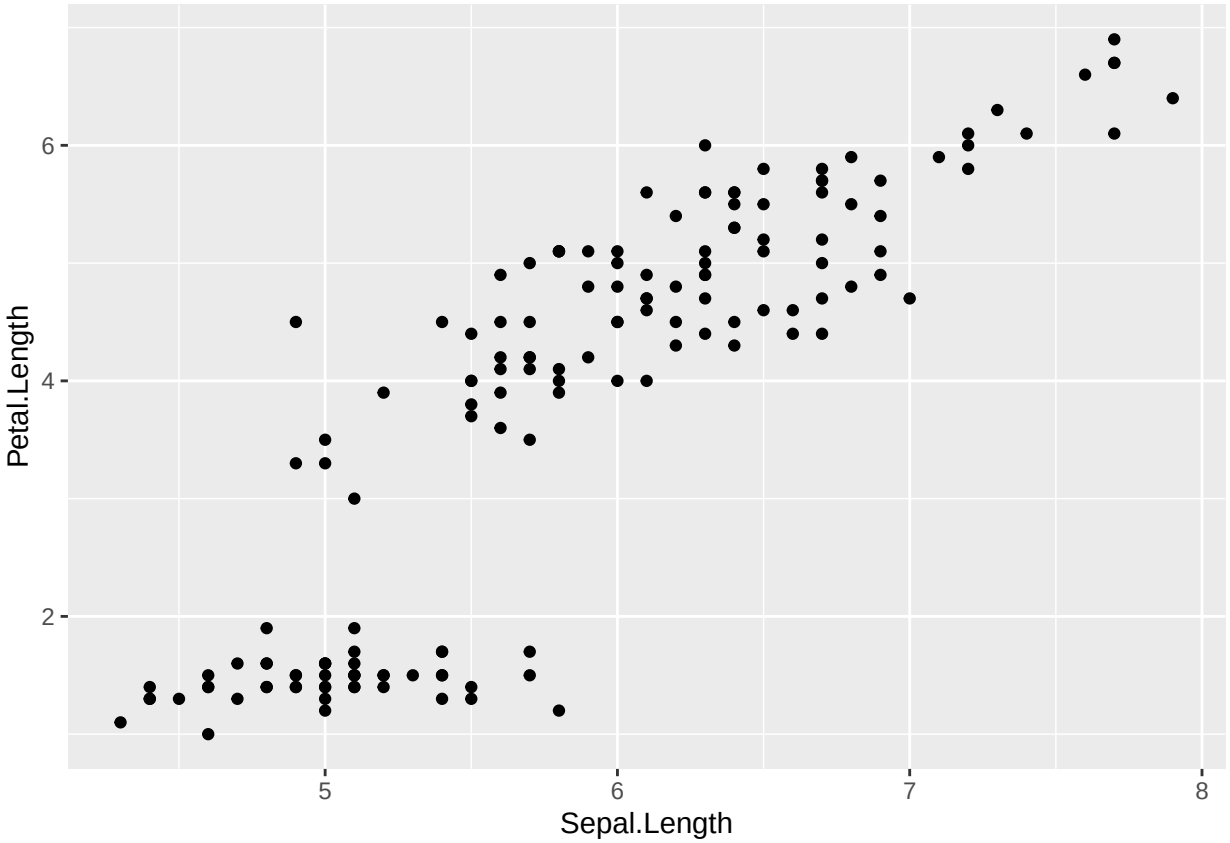

Length of Petals and Sepals of the IRIS data
Length of the Peatal in cm
Length of the Sepal in cm
2
4
6
5
6
7
8
Species
setosa
versicolor
virginica




```
plot1 + theme(legend.title = element_text(colour = "blue", size = 10)) + theme(legend.text = element_te
```

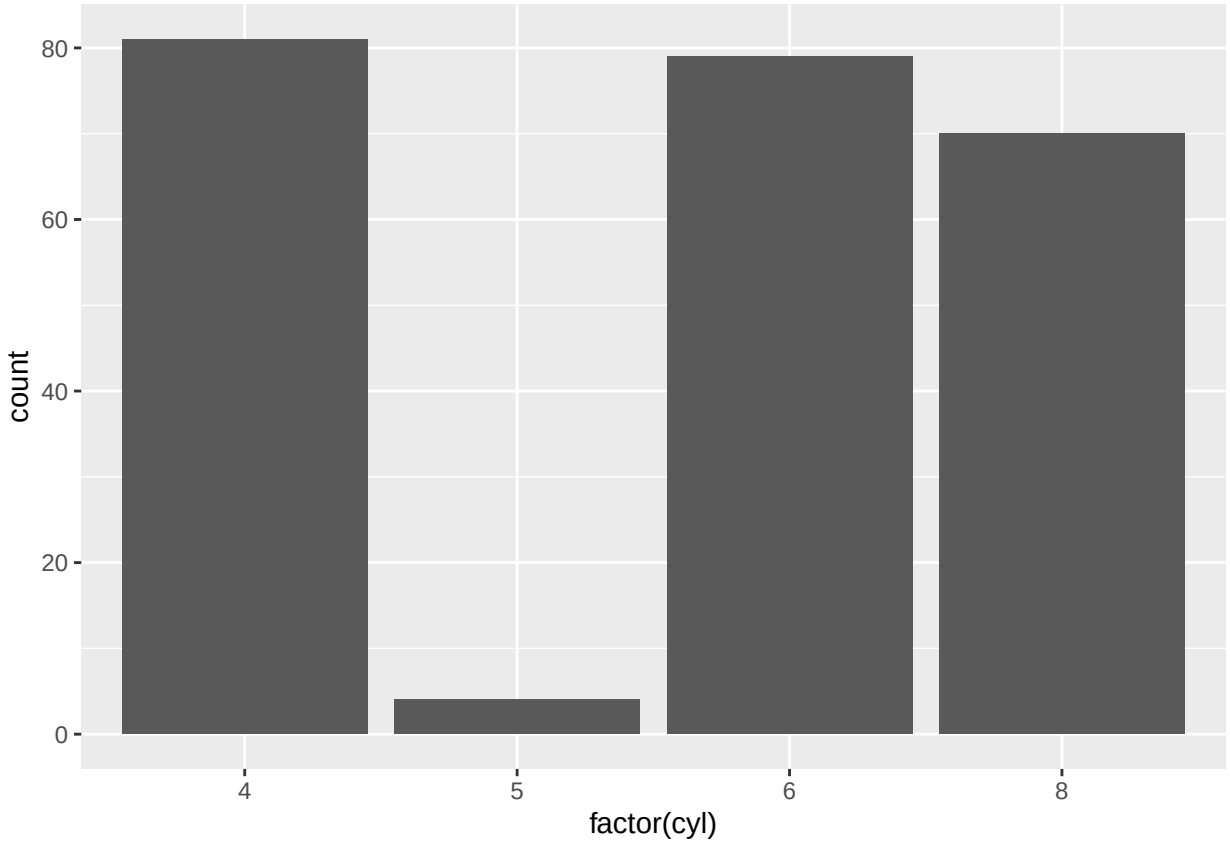



```
ggplot(iris, aes(Sepal.Length, Petal.Length)) + geom_point()
```



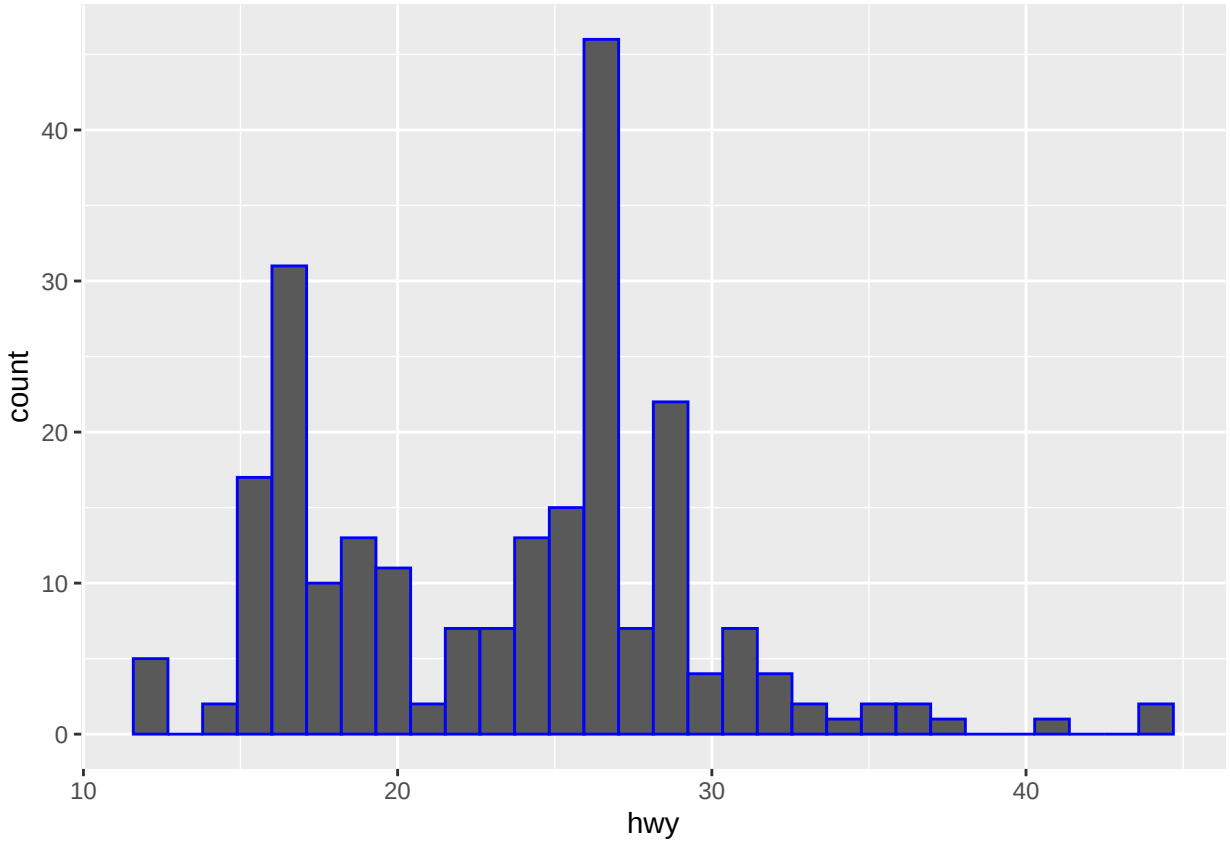

```
ggplot(iris, aes(Sepal.Length, Petal.Length, colour=Species)) + geom_point(shape=1)
```


```
plot2 <- ggplot(mpg, aes(x=factor(cyl)))+geom_bar(stat="count")
print(plot2)
```

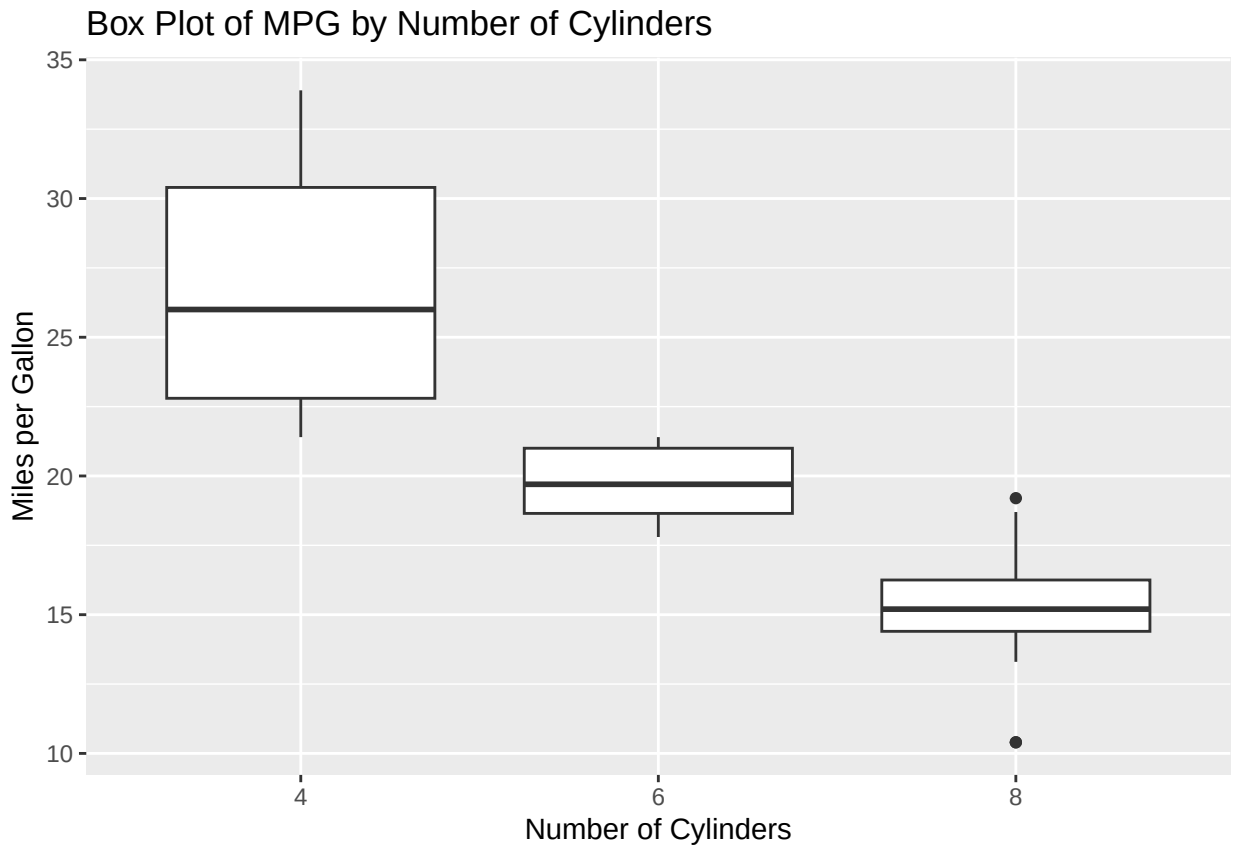



```
ggplot(data=mpg, aes(x=hwy)) +  geom_histogram( col="blue")
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```




```
ggplot(mtcars, aes(x = factor(cyl), y = mpg)) + geom_boxplot() +labs(x = "Number of Cylinders", y = "Mi
```

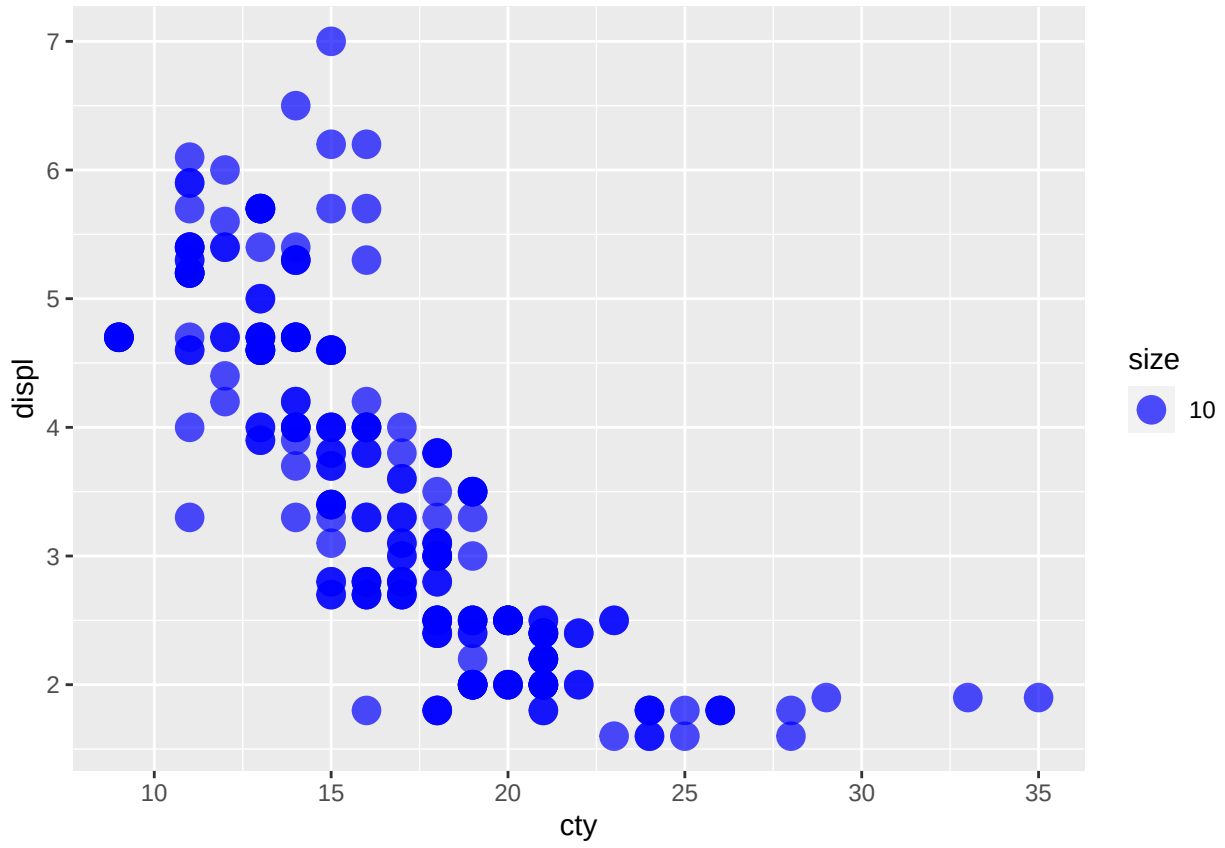



```
dataframe1 <- as.data.frame(table(iris$Species))
print(dataframe1)
```

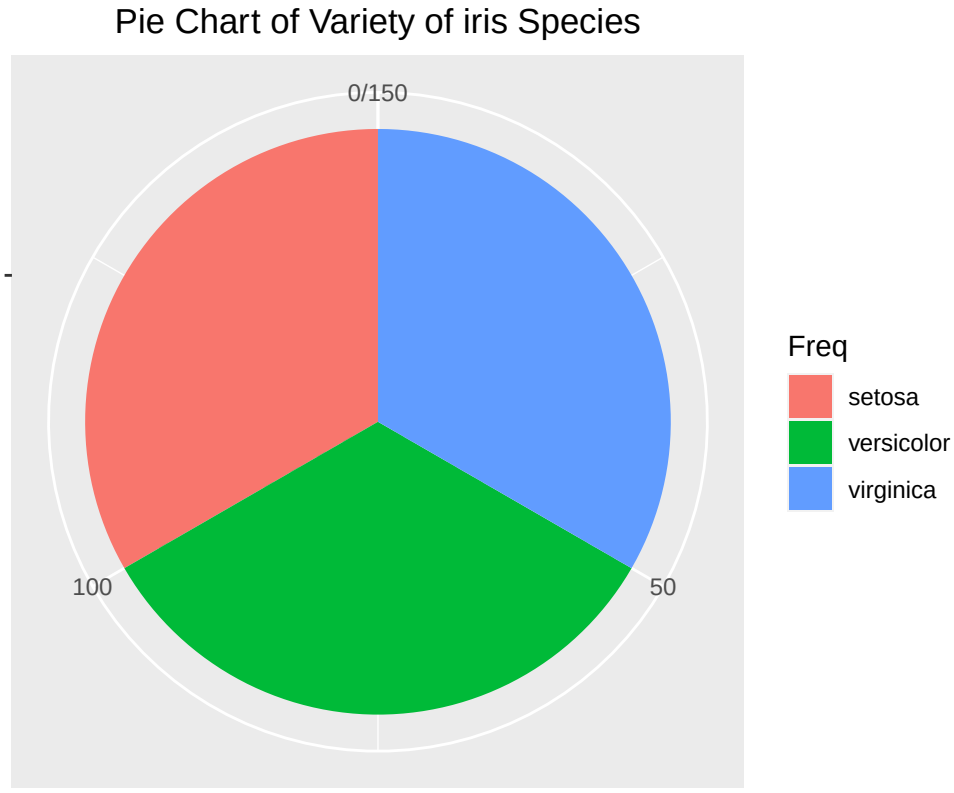
```
##         Var1 Freq
## 1     setosa   50
## 2 versicolor   50
## 3  virginica   50
```

```
pie <- ggplot(dataframe1, aes(x="",y =Freq, fill = factor(Var1))) + geom_bar(width = 1, stat = "identity
```

```
ggplot(mpg, aes(x=cty, y=displ, size = 10)) +geom_point(alpha=0.7,color='blue')
```




```
pie + coord_polar(theta = "y", start=0)
```


Pie Chart of Variety of iris Species
0/150
100
50
Freq
setosa
versicolor
virginica
Source: iris