

# GGPlot-2 by Swaroop

## Importing library

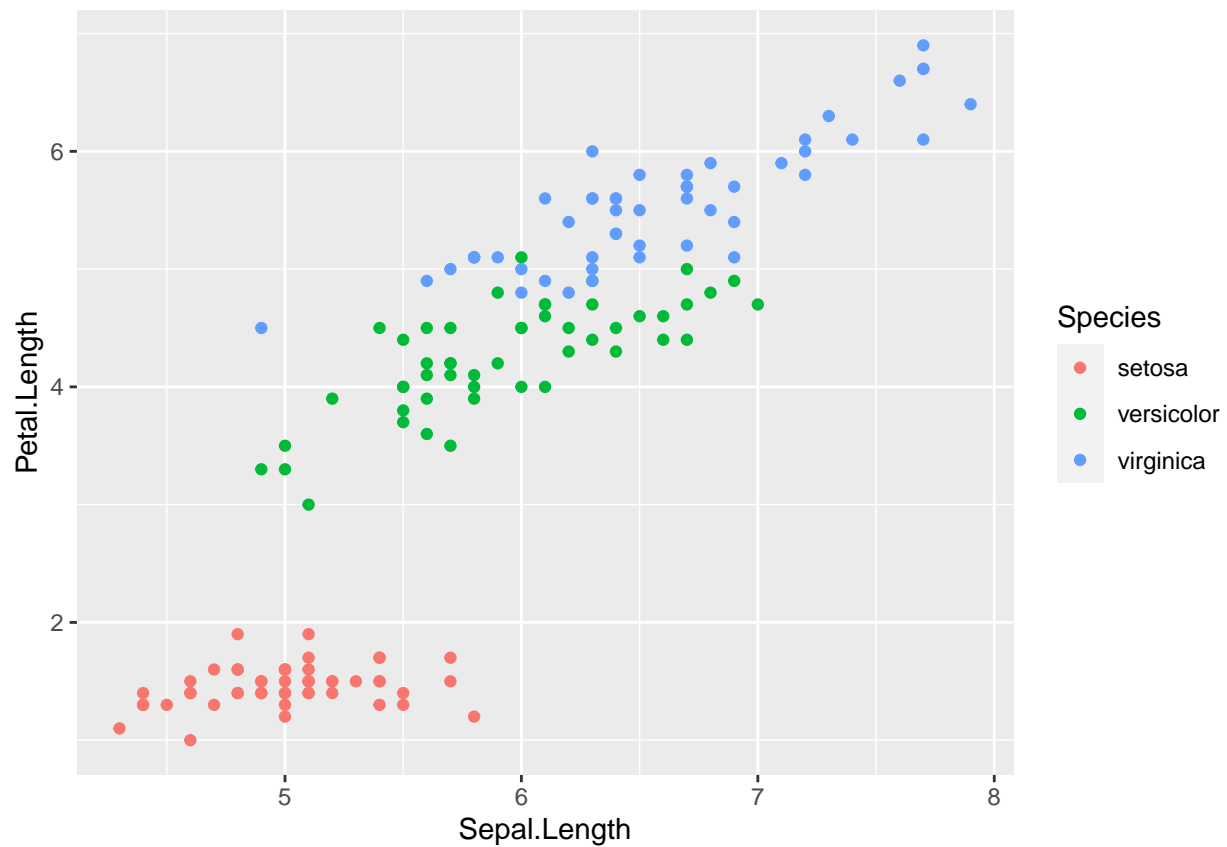
```
library(ggplot2)
```

## Getting Data Set

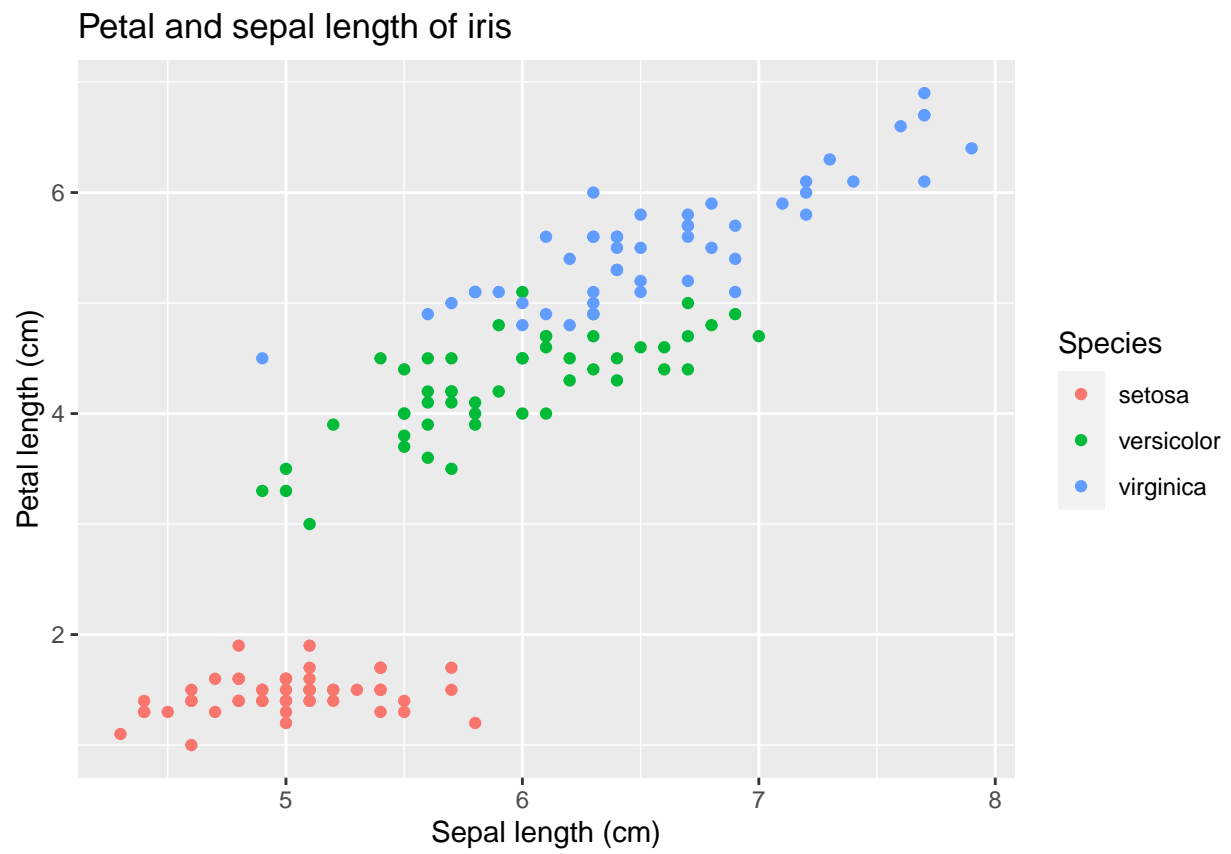
```
data(iris)  
data(mtcars)
```

## Plotting

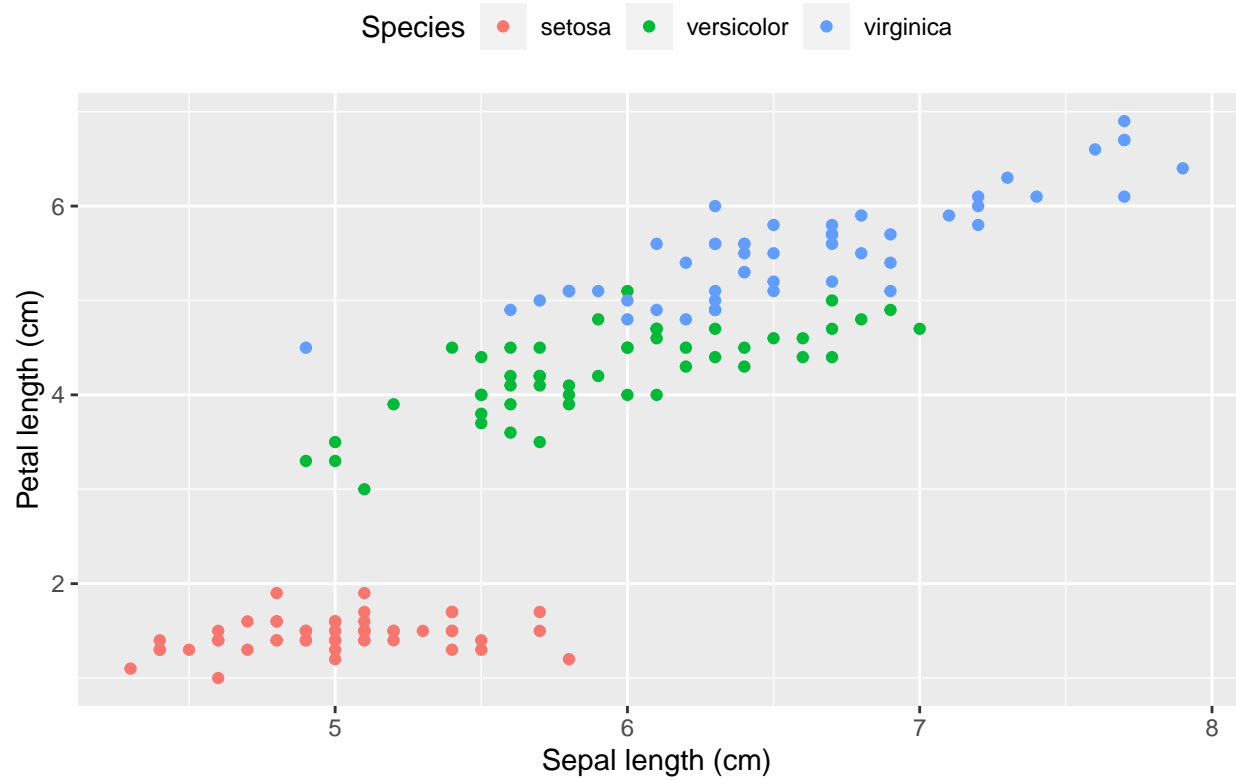
```
IrisPlot <- ggplot(iris, aes(Sepal.Length, Petal.Length, colour=Species)) + geom_point()  
print(IrisPlot)
```



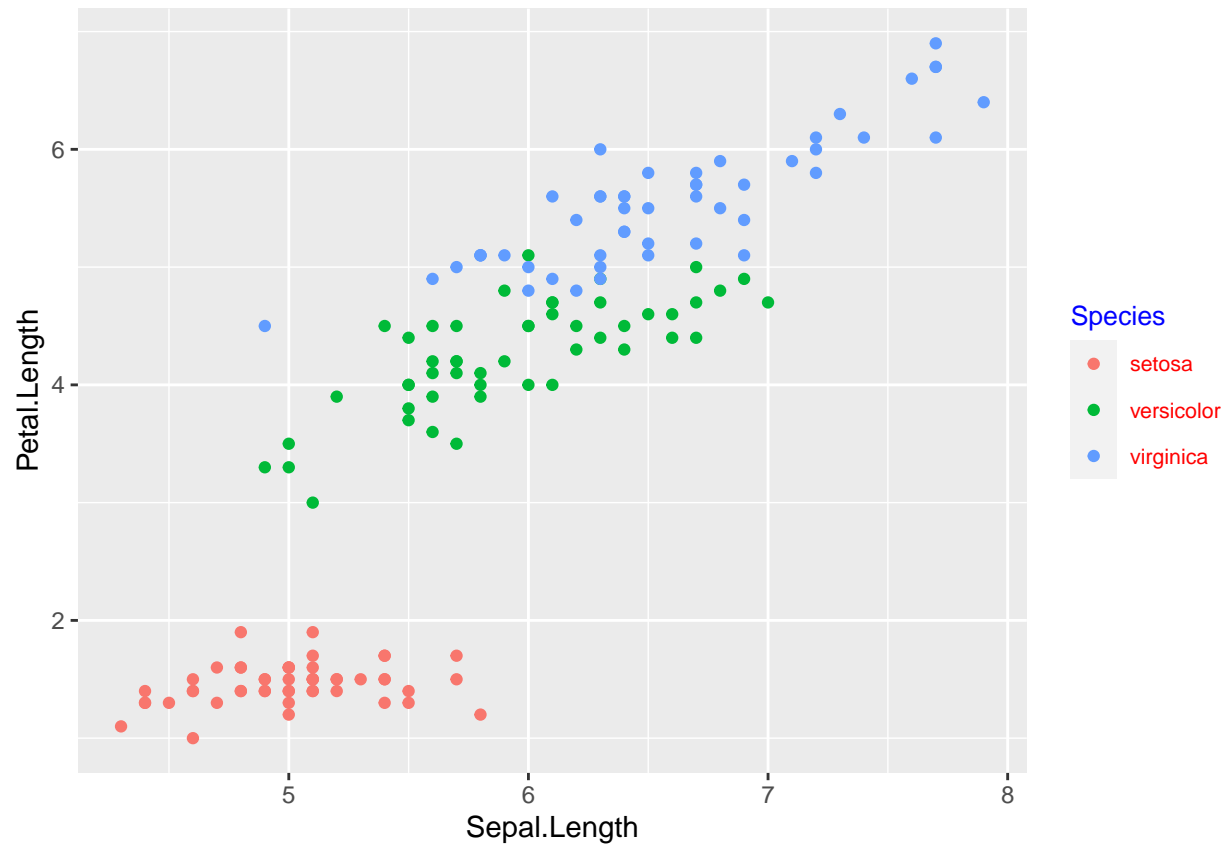
```
print(IrisPlot + labs(y="Petal length (cm)", x = "Sepal length (cm)") + ggtitle("Petal and sepal length
```



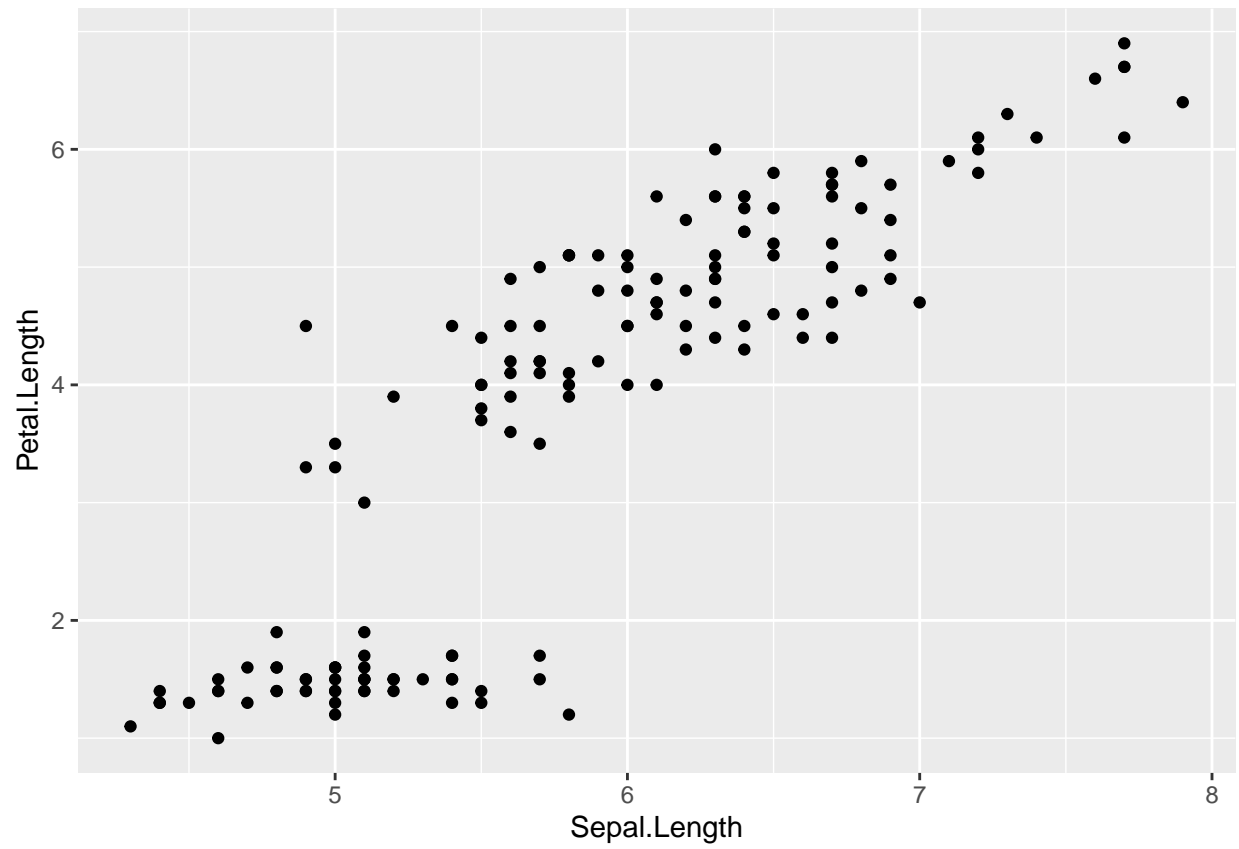
## Petal and sepal length of iris



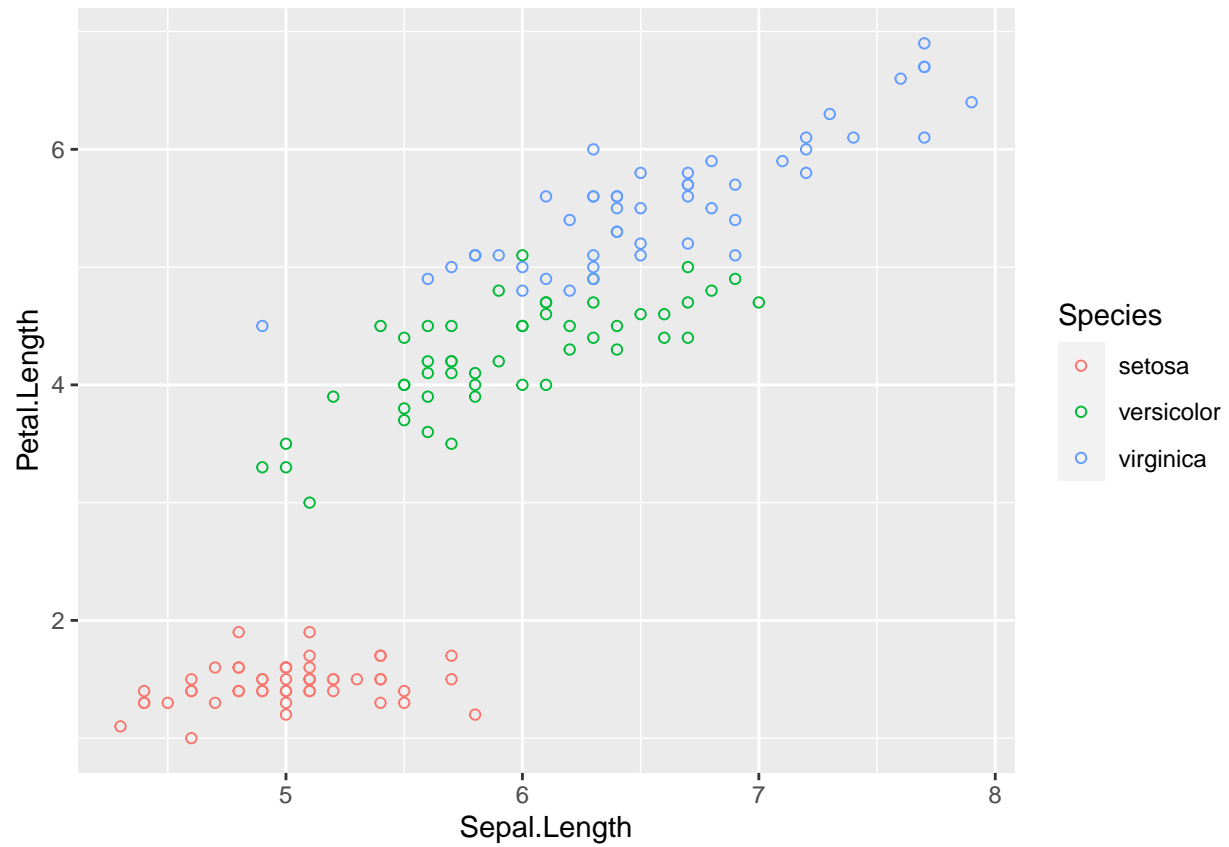
```
IrisPlot + theme(legend.title = element_text(colour = "blue", size = 10)) + theme(legend.text = element_text(colour = "blue", size = 10))
```



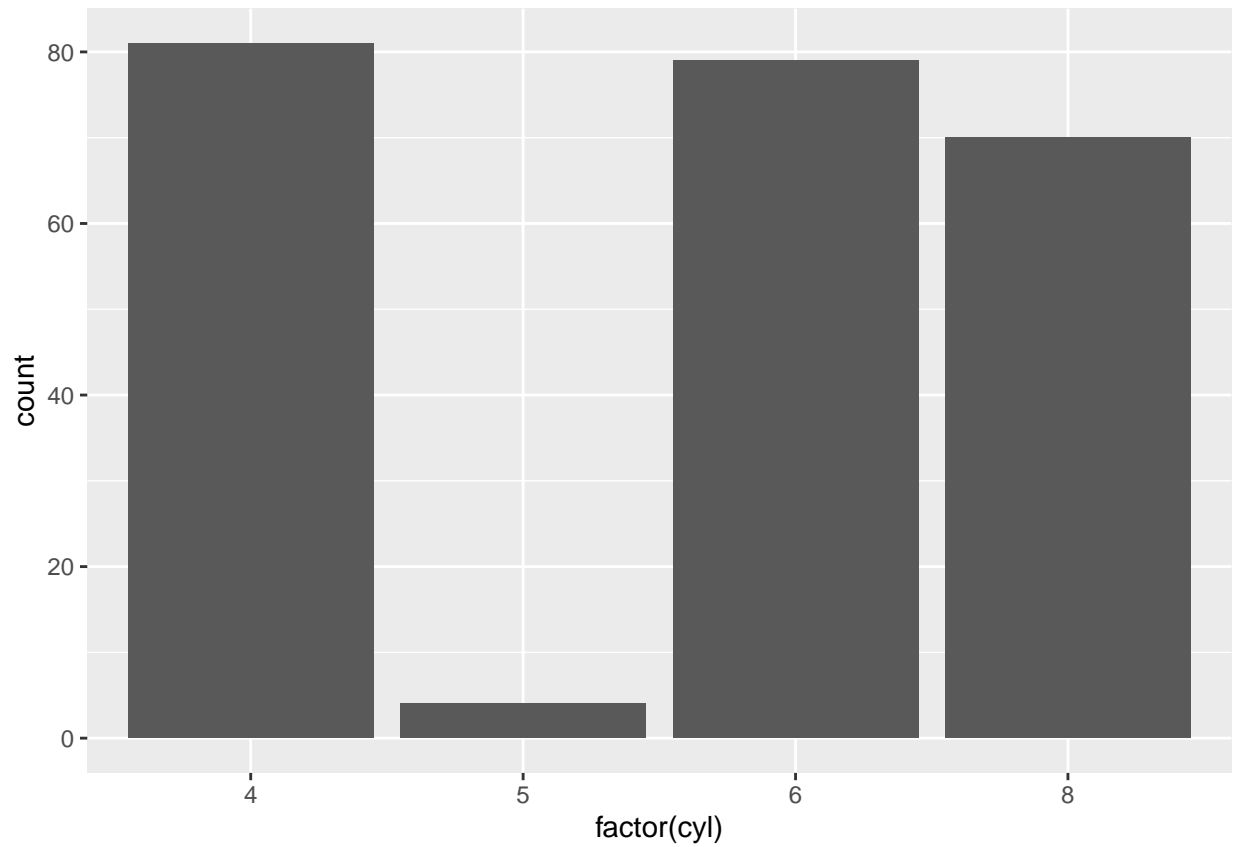
```
ggplot(iris, aes(Sepal.Length, Petal.Length)) + geom_point()
```



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

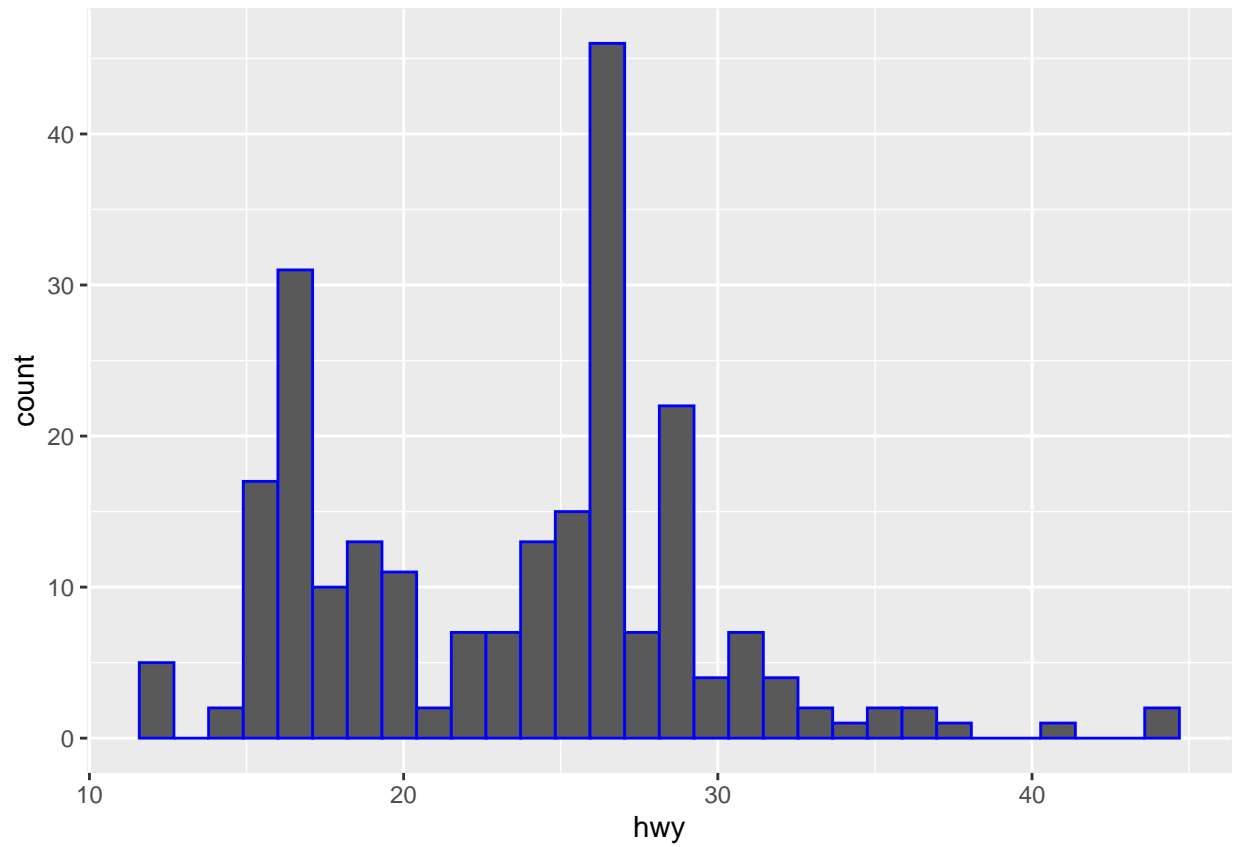


```
b <- ggplot(mpg, aes(x=factor(cyl)))+geom_bar(stat="count")
print(b)
```



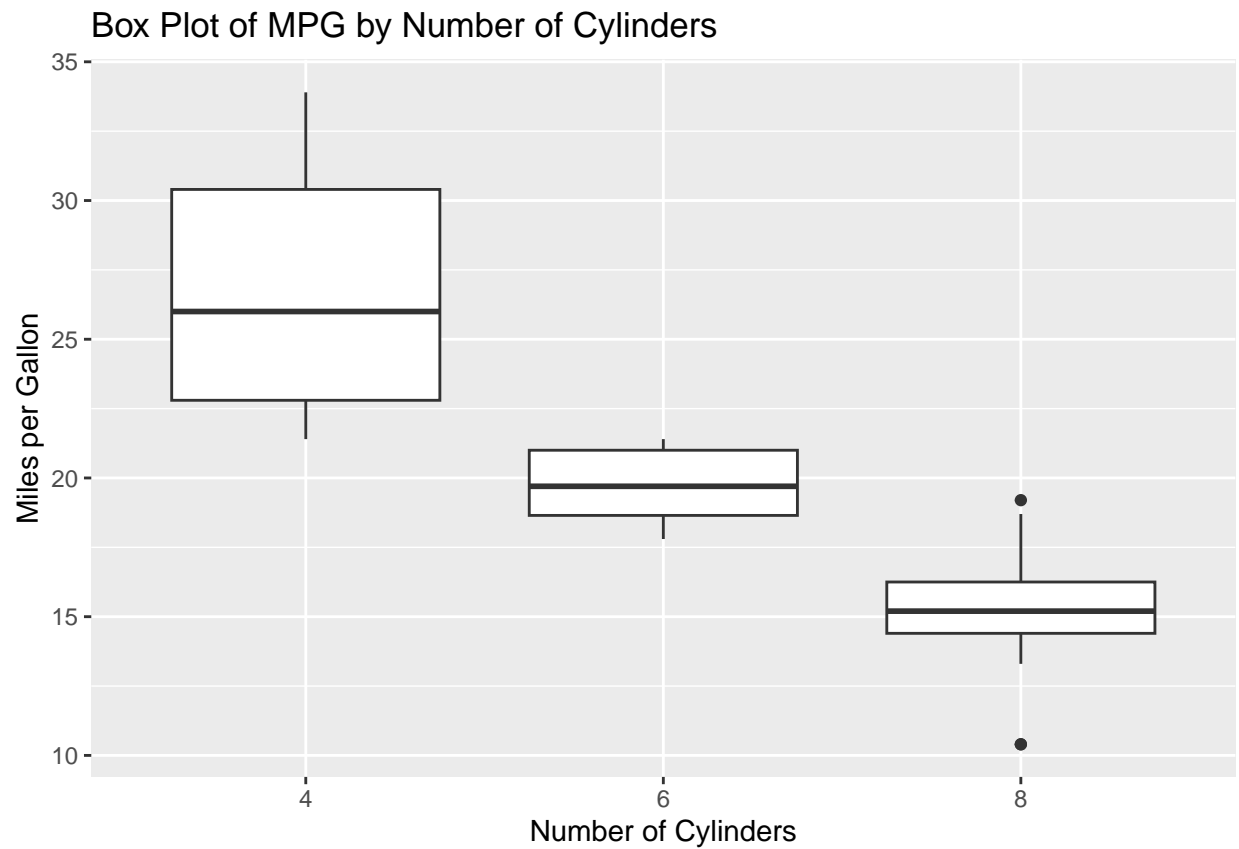
```
ggplot(data=mpg, aes(x=hwy)) + geom_histogram( col="blue")
```

```
## '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.
```





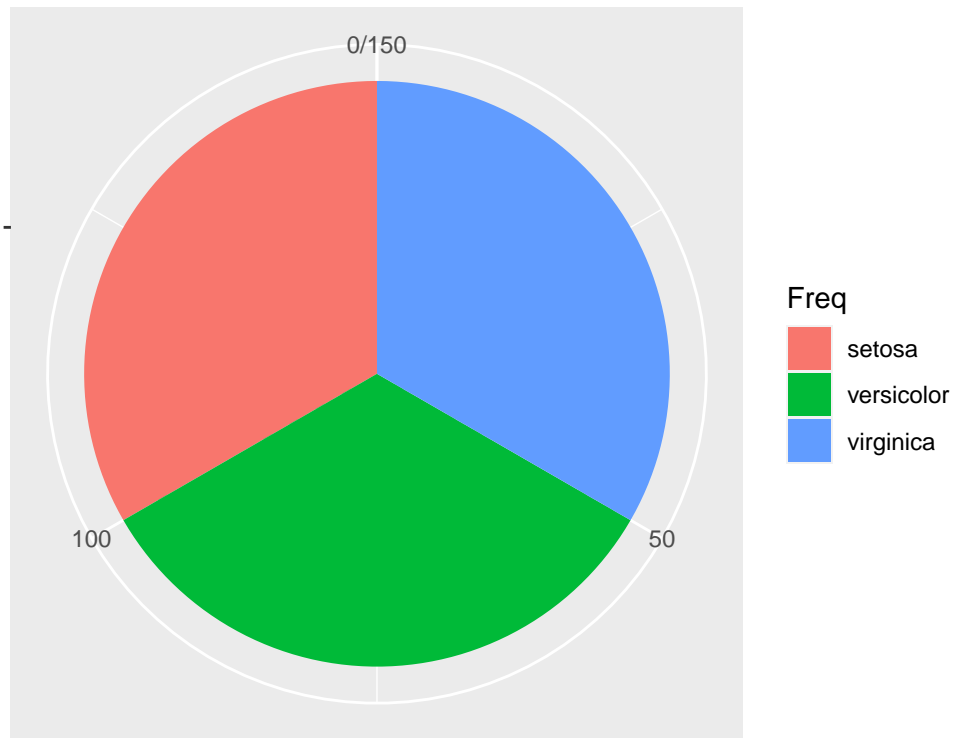
```
d <- as.data.frame(table(iris$Species))
print(d)
```

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

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

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

Pie Chart of Variety of iris Species



Source: iris

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

