

#3장 연습문제 8

Titanic

mytable <- Titanic[1:3, "Male", "Adult",]

CrossTable(mytable)

```
> CrossTable(mytable)
```

```
Cell Contents
```

```

|-----|
|              N |
| Chi-square contribution |
|      N / Row Total |
|      N / Col Total |
|      N / Table Total |
|-----|

```

```
Total Observations in Table: 805
```

Class	Survived		Row Total
	No	Yes	
1st	118	57	175
	4.454	20.105	
	0.674	0.326	0.217
	0.179	0.390	
	0.147	0.071	
2nd	154	14	168
	1.972	8.902	
	0.917	0.083	0.209
	0.234	0.096	
	0.191	0.017	
3rd	387	75	462
	0.204	0.922	
	0.838	0.162	0.574
	0.587	0.514	
	0.481	0.093	
Column Total	659	146	805
	0.819	0.181	

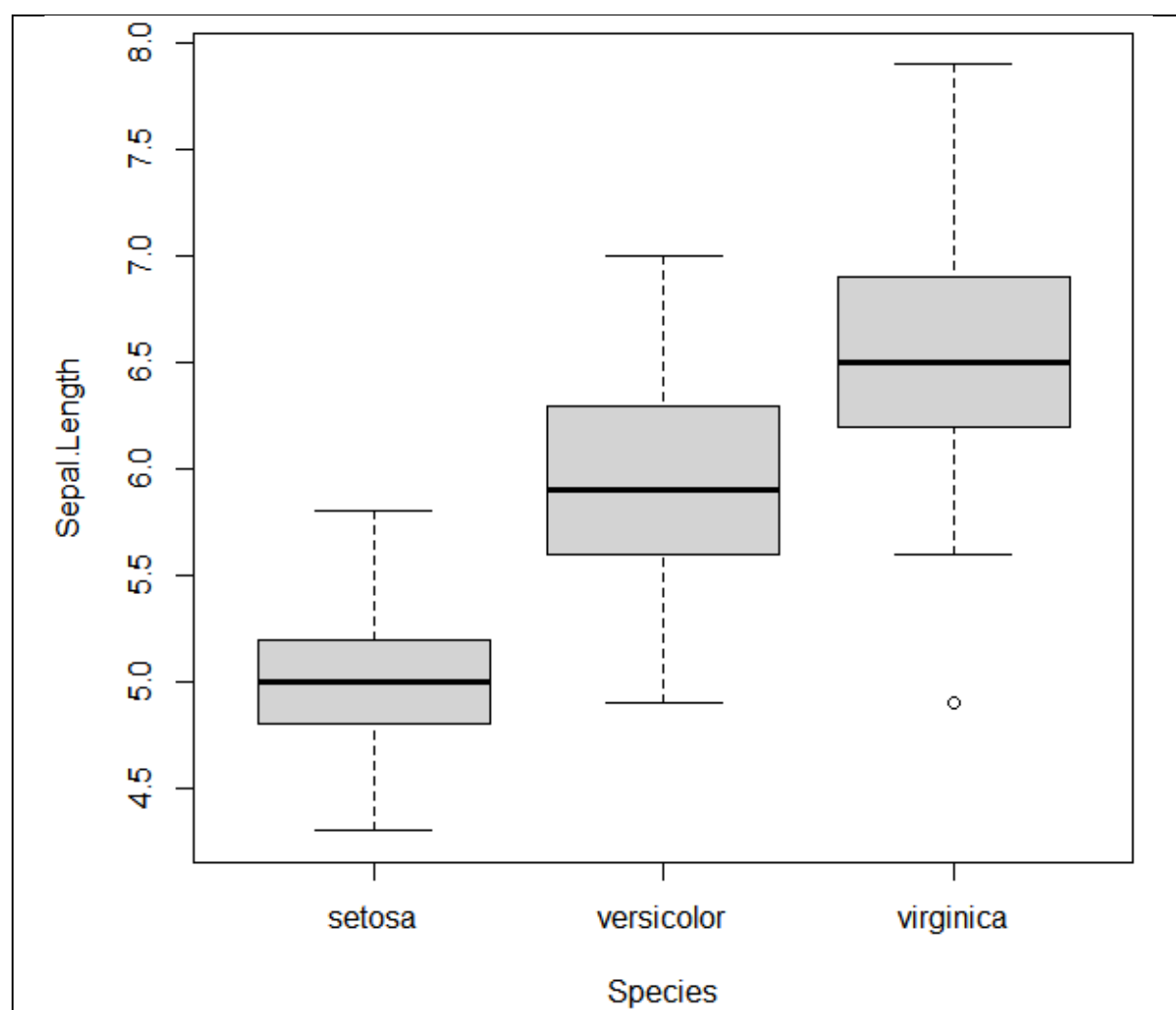
#3장 연습문제 9

```
head(iris); names(iris)
Sepal.Length<-iris$Sepal.Length
Species<-iris$Species

# 1)
aggregate(Sepal.Length~Species,data = iris, mean)
aggregate(Sepal.Length~Species,data = iris, sd)

#2)
boxplot(Sepal.Length~Species, data = iris)
```

```
> head(iris); names(iris)
  Sepal.Length Sepal.Width Petal.Length Petal.Width Species
1         5.1         3.5          1.4          0.2  setosa
2         4.9         3.0          1.4          0.2  setosa
3         4.7         3.2          1.3          0.2  setosa
4         4.6         3.1          1.5          0.2  setosa
5         5.0         3.6          1.4          0.2  setosa
6         5.4         3.9          1.7          0.4  setosa
[1] "Sepal.Length" "Sepal.Width"  "Petal.Length"  "Petal.Width"  "Species"
> Sepal.Length<-iris$Sepal.Length
> Species<-iris$Species
>
>
> aggregate(Sepal.Length~Species,data = iris, mean)
  Species Sepal.Length
1   setosa         5.006
2 versicolor         5.936
3  virginica         6.588
> aggregate(Sepal.Length~Species,data = iris, sd)
  Species Sepal.Length
1   setosa    0.3524897
2 versicolor    0.5161711
3  virginica    0.6358796
```



#3장 연습문제 10

```
mytable <- Titanic[1:3, "Male", "Child",]  
CrossTable(mytable)  
plot(mytable)
```

```
> CrossTable(mytable)
```

```
Cell Contents  
|-----|  
|              N |  
| Chi-square contribution |  
|      N / Row Total |  
|      N / Col Total |  
|      N / Table Total |  
|-----|
```

Total Observations in Table: 64

Class	Survived		Row Total
	No	Yes	
1st	0	5	5
	2.734	3.300	
	0.000	1.000	0.078
	0.000	0.172	
	0.000	0.078	
2nd	0	11	11
	6.016	7.260	
	0.000	1.000	0.172
	0.000	0.379	
	0.000	0.172	
3rd	35	13	48
	2.917	3.520	
	0.729	0.271	0.750
	1.000	0.448	
	0.547	0.203	
Column Total	35	29	64
	0.547	0.453	

mytable

Survived	No	1st	2nd	3rd
	Yes			