

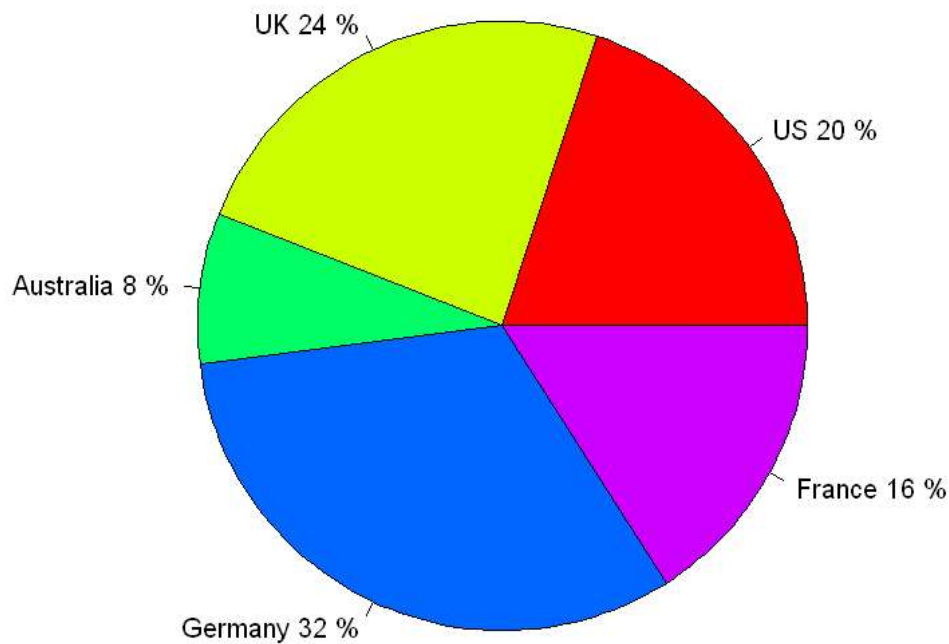
PIE CHART:

In [2]:

```
# pie chart with percentages:
slices = c(10,12,4,16,8)
lbls = c("US", "UK", "Australia", "Germany", "France")
pct = round(slices/sum(slices)*100)
lbls = paste(lbls, pct) #add percents to labels
lbls = paste(lbls, "%", sep=" ") #add % to labels

pie(slices, labels=lbls, col=rainbow(length(lbls)),
    main="Pie Chart of Countries")
```

Pie Chart of Countries



In [3]:

```
install.packages("plotrix")
```

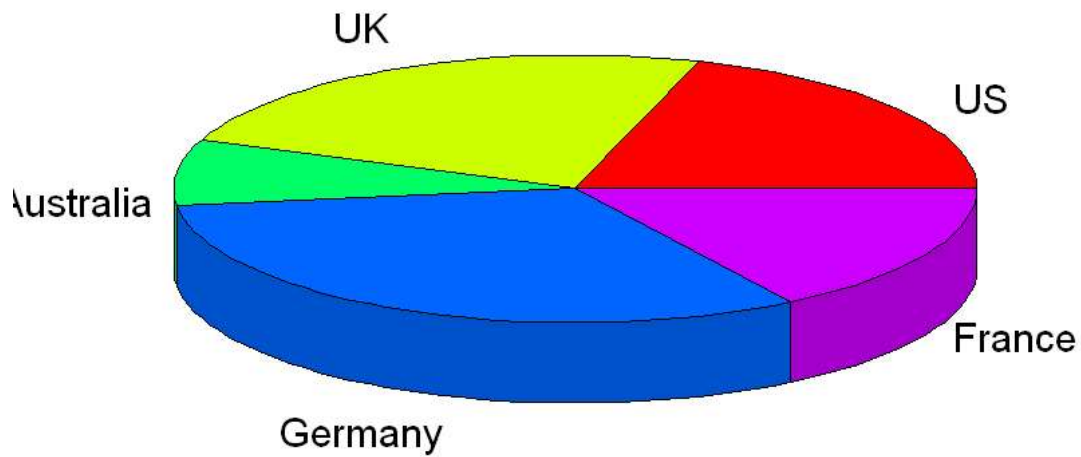
```
There is a binary version available but the source version is later:
  binary source needs_compilation
plotrix  3.8-1  3.8-2             FALSE
```

installing the source package 'plotrix'

In [7]:

```
library(plotrix)
slices = c(10,12,4,16,8)
lbls = c("US", "UK", "Australia", "Germany", "France")
pie3D(slices, labels=lbls, main="Pie Chart With 3D")
```

Pie Chart With 3D

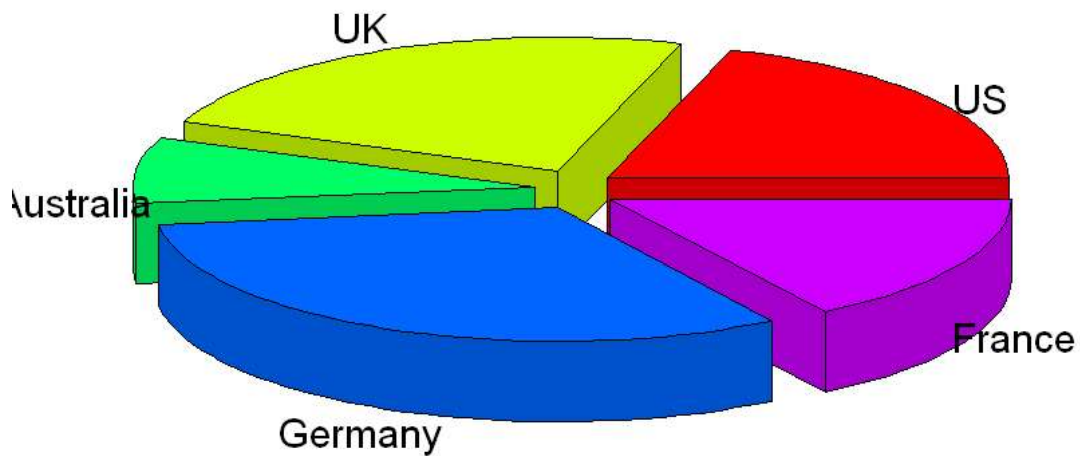


In [11]:

explode will provide the distance from the centre

```
library(plotrix)
slices = c(10,12,4,16,8)
lbls = c("US", "UK","Australia", "Germany", "France")
pie3D(slices, labels=lbls, explode=0.1,
      main="Pie Chart With 3D explode")
```

Pie Chart With 3D explode



In [13]:

```
1 data(mtcars)
```

In [14]:

```
head(mtcars)
```

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

In [15]:

```
table(mtcars$gear)
```

```
3  4  5
15 12  5
```

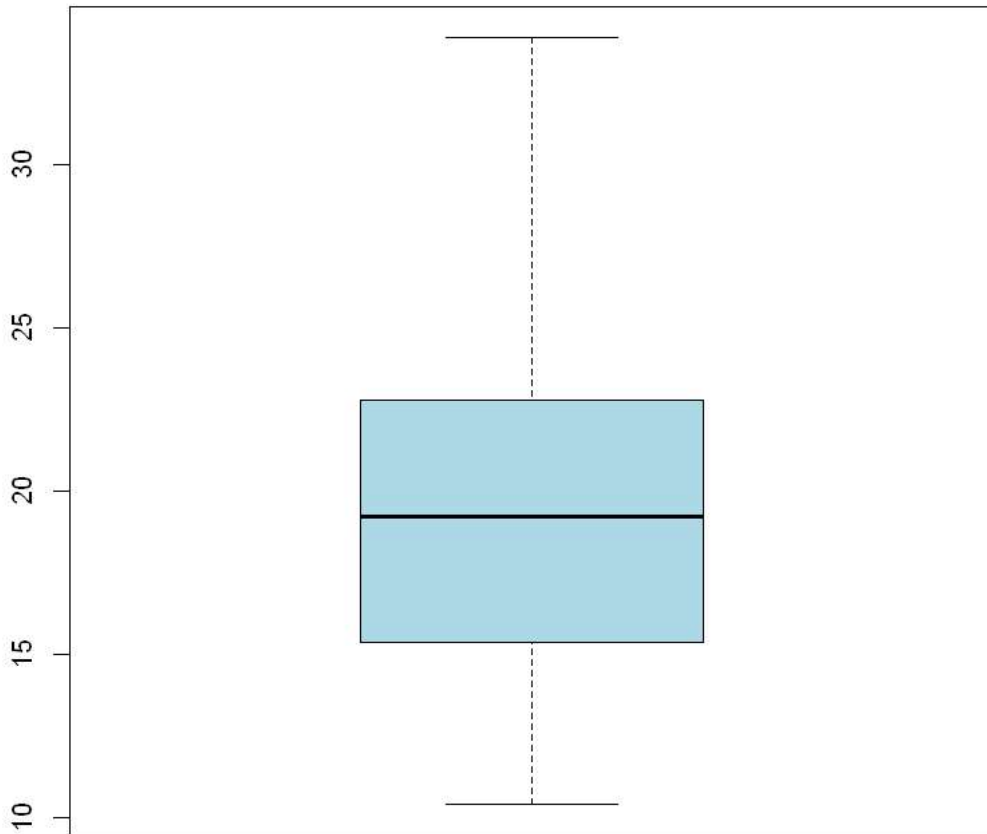
In [18]:

```
mtcars$mpg
```

```
21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 17.8 16.4 17.3 15.2 10.4 10.4 14.7 32.4 30.4 33.9 21.5 15.5 15.2
13.3 19.2 27.3 26 30.4 15.8 19.7 15 21.4
```

In [22]:

```
boxplot(mtcars$mpg, col="lightblue", fill="red")
```



```
10,12,13,50,60,45
10,12,13,45,50,60
```

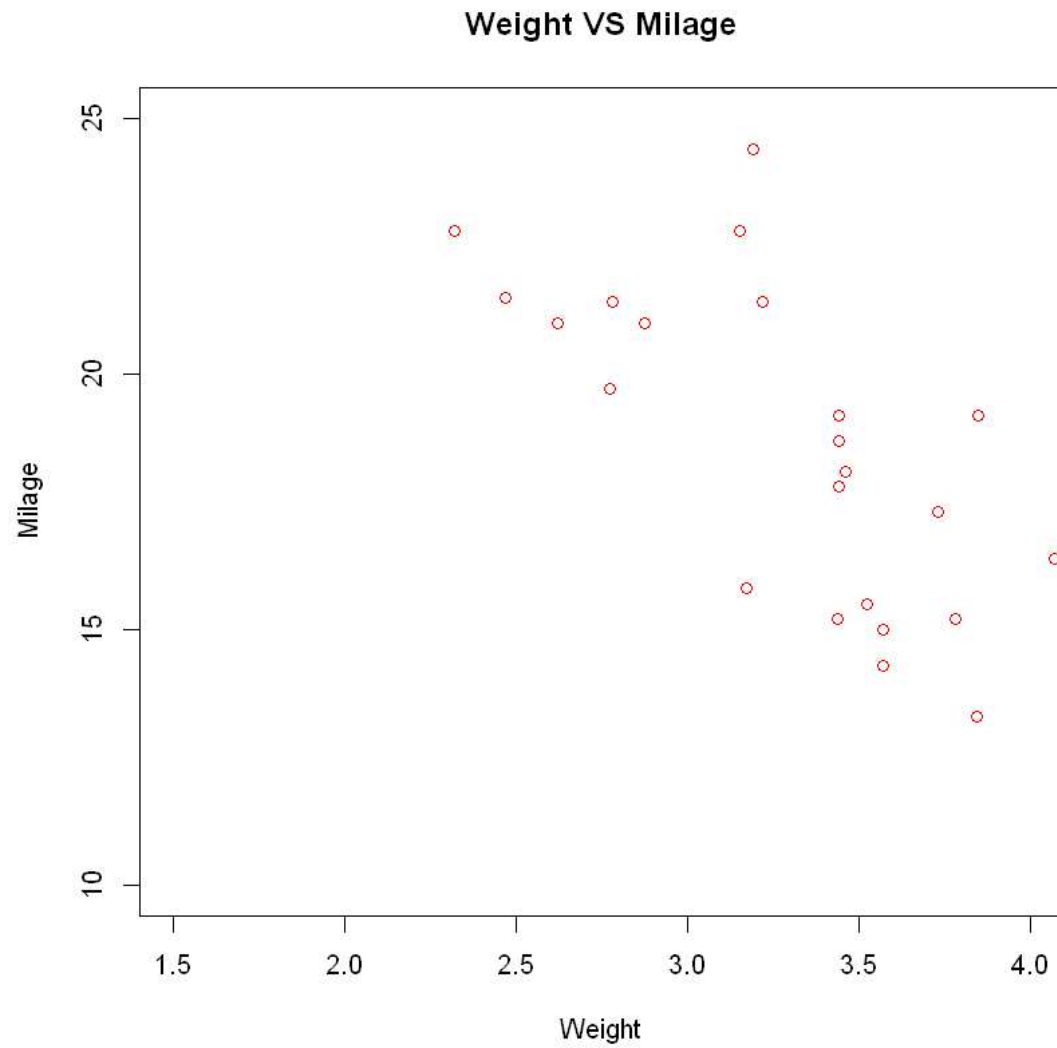
```
median=(13+45)/2
lower ex=10
upper ex=60
lower qr=
upper qr=
```

Scatter Plot:

In [23]:

```
# Get input values:
data(mtcars)

# Plot the chart for cars with
# Weight between 1.5 to 4 and
# Mileage between 10 and 25
plot(x=mtcars$wt, y=mtcars$mpg,
     xlab="Weight",
     ylab="Mileage",
     xlim=c(1.5, 4), #x-axis starting value
     ylim=c(10,25), # y-axis starting value
     main="Weight VS Mileage", col="red")
```

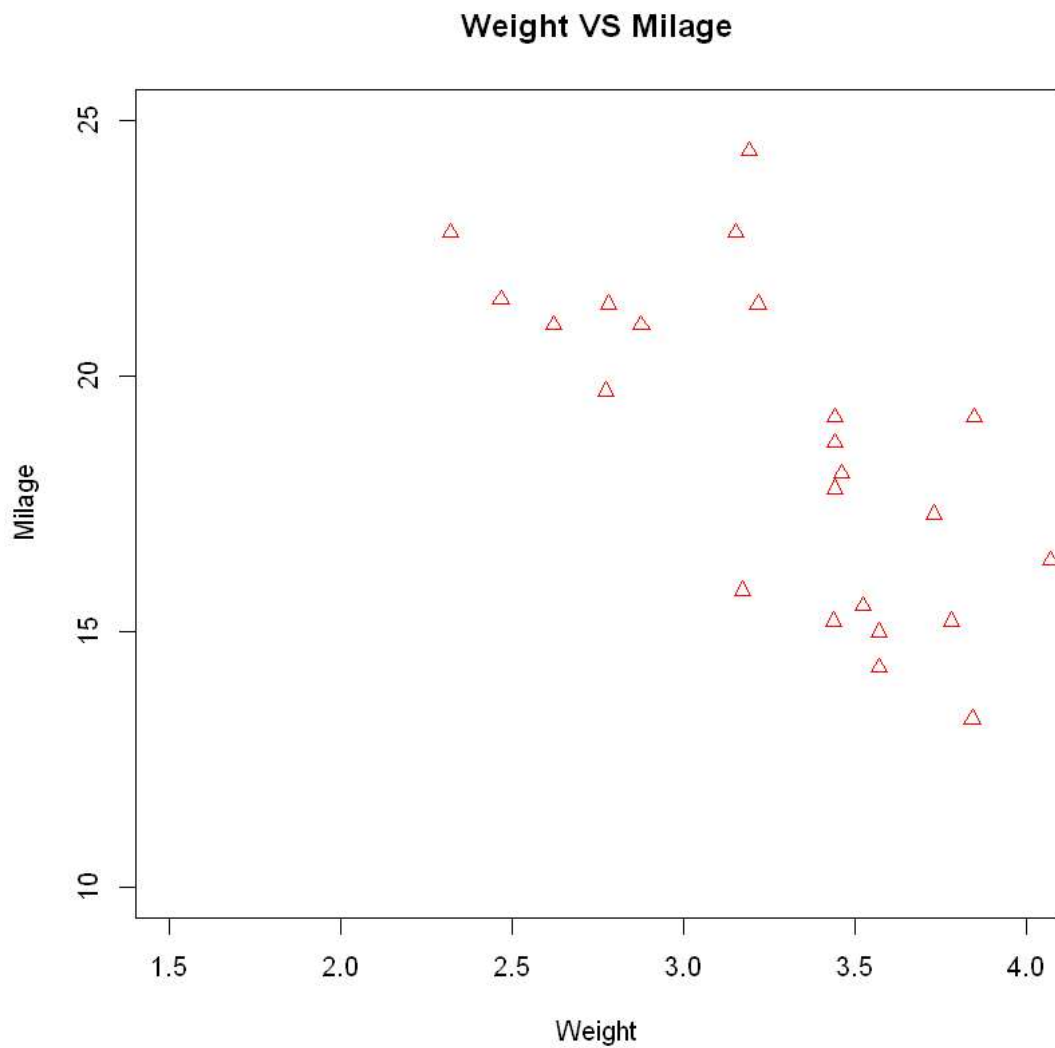


To change the markers of the Scatter Plot:

In [24]:

```
# Get input values:
data(mtcars)

# Plot the chart for cars with
# Weight between 1.5 to 4 and
# Mileage between 10 and 25
plot(x=mtcars$wt, y=mtcars$mpg,
     xlab="Weight",
     ylab="Mileage",
     xlim=c(1.5, 4), #x-axis starting value
     ylim=c(10,25), # y-axis starting value
     main="Weight VS Mileage", col="red",
     pch=2 )
```

**Scatter Plot 3D:**

In [25]:

```
install.packages("scatterplot3d")
```

```
There is a binary version available but the source version is later:
      binary source needs_compilation
scatterplot3d 0.3-41 0.3-42          FALSE
```

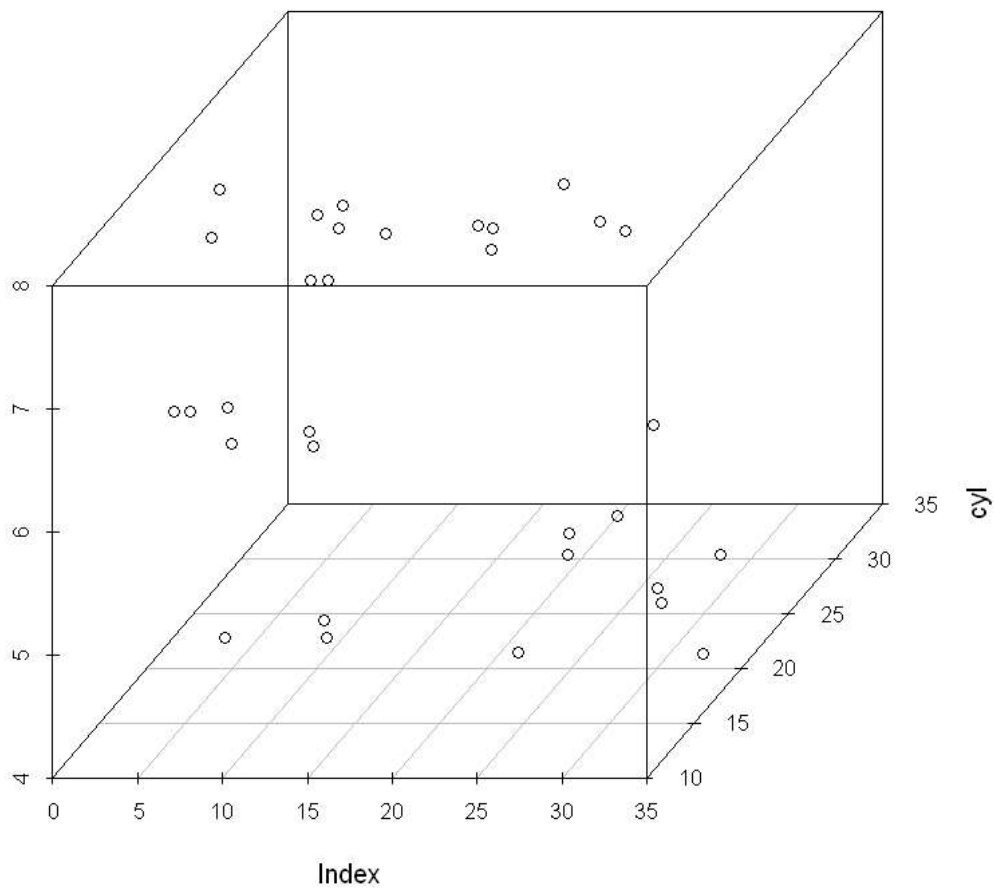
```
installing the source package 'scatterplot3d'
```

In [26]:

```
library(scatterplot3d)
attach(mtcars)

scatterplot3d(mpg, cyl,
              main="3D Scatter Plot")
```

3D Scatter Plot



In []: