Assignment 1 - Base Plot

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Question 1:

Using the base R Plot commands, plot the following: (Dataset used or this plot is **InsectSprays** , which is available in R basic installation)

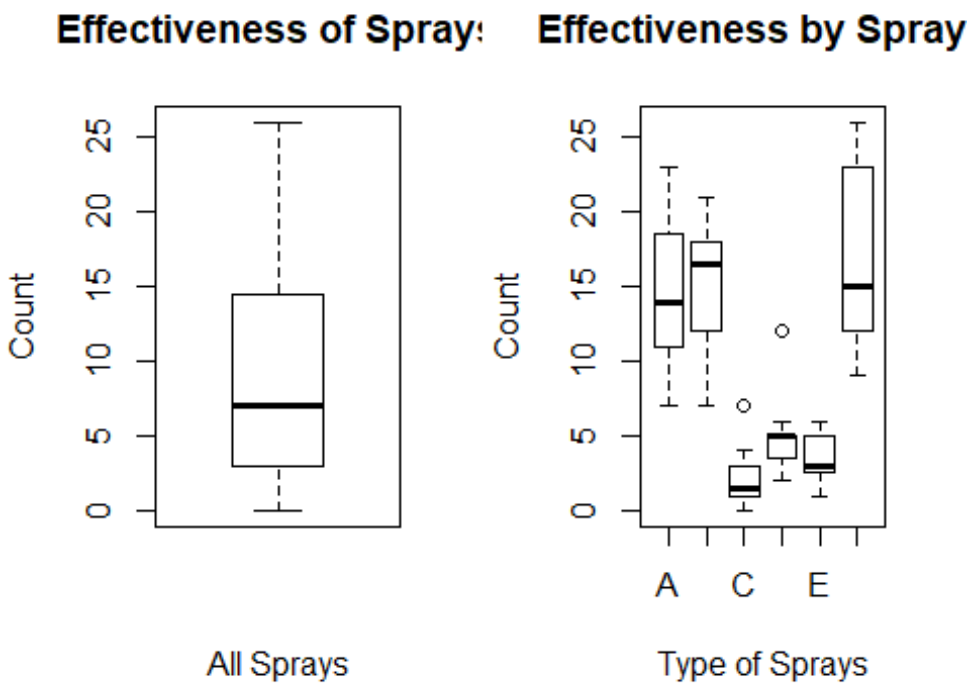
```
head(InsectSprays)
```

```
##   count spray
## 1    10     A
## 2     7     A
## 3    20     A
## 4    14     A
## 5    14     A
## 6    12     A
```

```
str(InsectSprays)
```

```
## 'data.frame':    72 obs. of  2 variables:
##  $ count: num  10 7 20 14 14 12 10 23 17 20 ...
##  $ spray: Factor w/ 6 levels "A","B","C","D",..: 1 1 1 1 1 1 1 1 1 1 ...
```

```
par(mfrow=c(1,2))
boxplot(InsectSprays$count, main = "Effectiveness of Sprays", xlab = "All Sprays", ylab = "Count")
boxplot(InsectSprays$count ~ InsectSprays$spray, main = "Effectiveness by Sprays", xlab = "Type of Sprays", ylab = "Count")
```



Steps:

The dataset used for this plot is **InsectSprays**. (Note that I and S is Capital letter in this name). You can check all datasets available using the data() command.

1. Look at the data first using the "head" and "str" commands.
2. Split the plot in two windows using the "par" command.
3. Plot the first boxplot and assign the main header text, x and y axis labels.
4. Plot the second boxplot and assign the main header text, x and y axis labels.

Question 2:

The dataset used for this plot is **women**, which is available in R base installation.

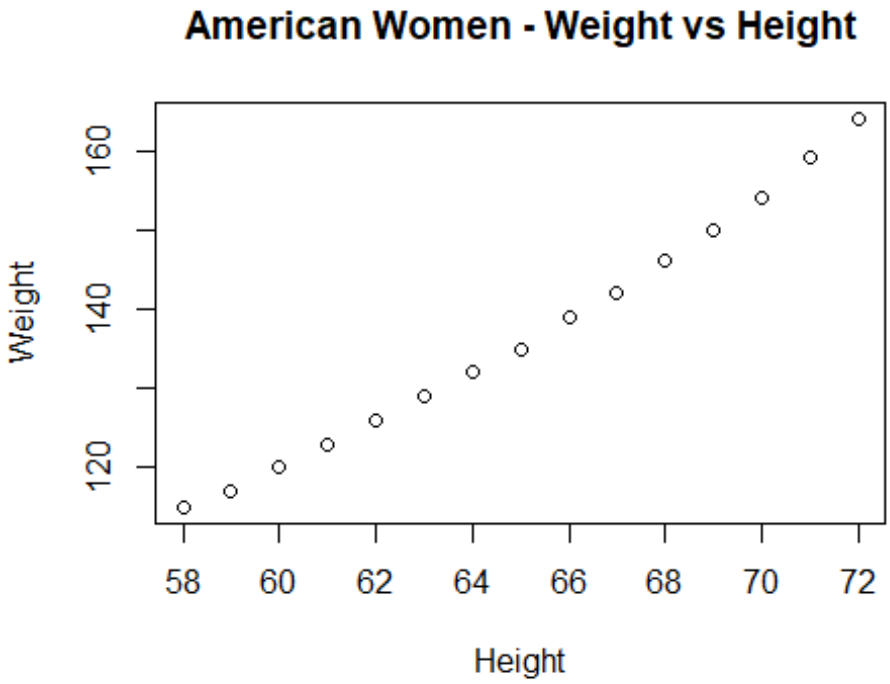
```
head(women)
```

```
##   height weight
## 1     58    115
## 2     59    117
## 3     60    120
## 4     61    123
## 5     62    126
## 6     63    129
```

```
str(women)
```

```
## 'data.frame':    15 obs. of  2 variables:
##  $ height: num  58 59 60 61 62 63 64 65 66 67 ...
##  $ weight: num  115 117 120 123 126 129 132 135 139 142 ...

plot(women$height, women$weight, main = "American Women - Weight vs Height",
xlab = "Height", ylab = "Weight")
```



Steps:

The dataset used for this plot is **women**. You can check all datasets available using the data() command.

1. Look at the data first using the "head" and "str" commands.
2. Draw the scatterplot and assign the main header text, x and y axis labels.