

Basic Unix

```
ls
```

Basic R

Plots using dataset inside R package

Analysis of the cars dataset

Part 1

```
data(cars)
head(cars,3)
```

```
##    speed dist
## 1      4     2
## 2      4    10
## 3      7     4
```

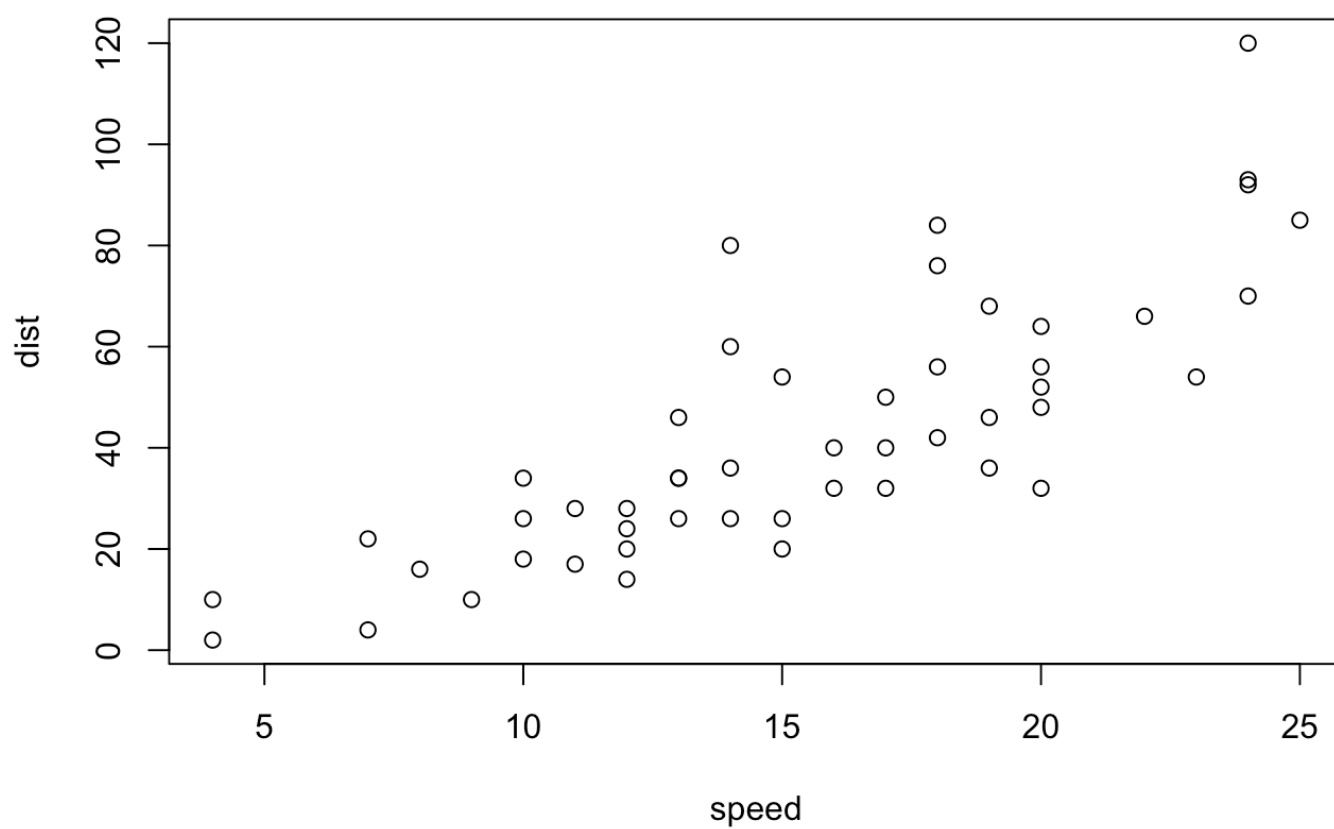
```
str(cars)
```

```
## 'data.frame':    50 obs. of  2 variables:
##  $ speed: num  4 4 7 7 8 9 10 10 10 11 ...
##  $ dist : num  2 10 4 22 16 10 18 26 34 17 ...
```

```
summary(cars)
```

```
##           speed           dist
##  Min.      : 4.0    Min.      : 2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean    : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.     :120.00
```

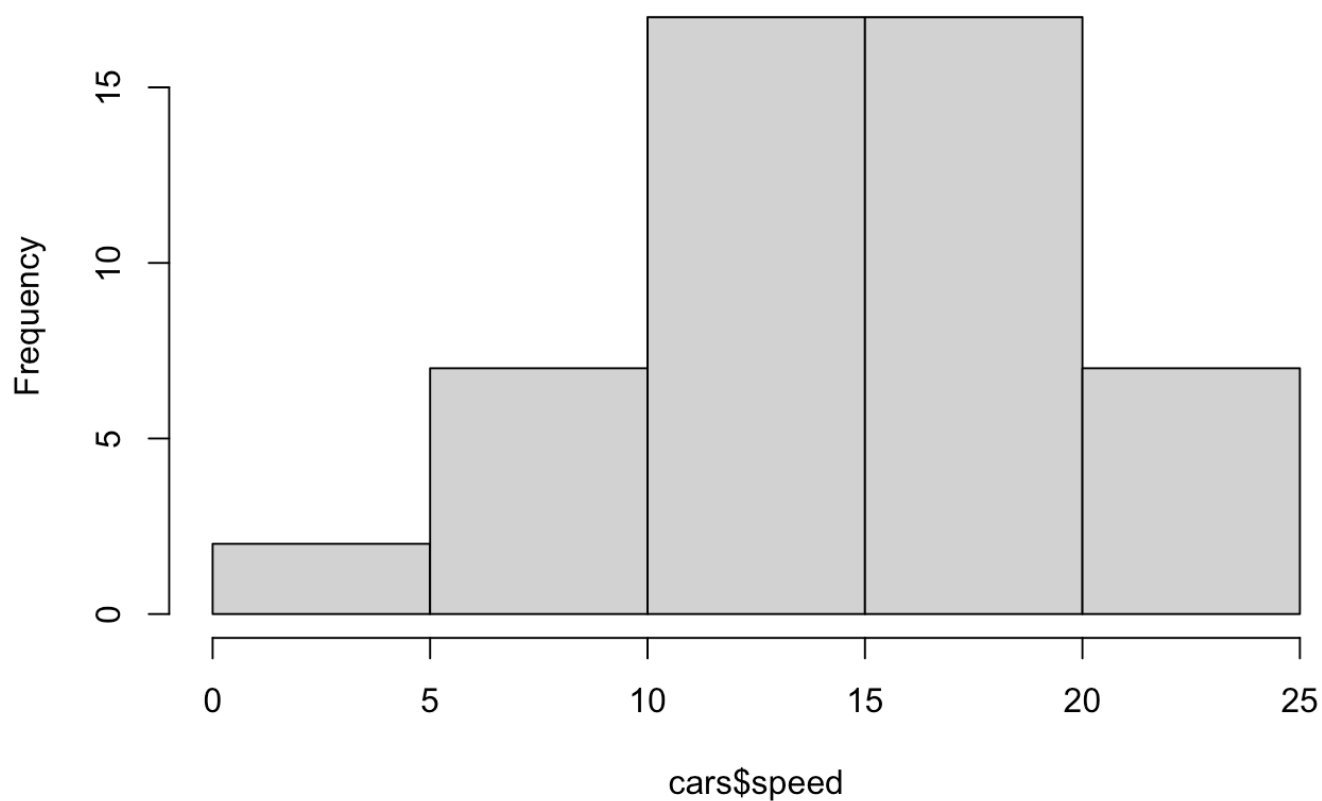
```
plot(cars)
```



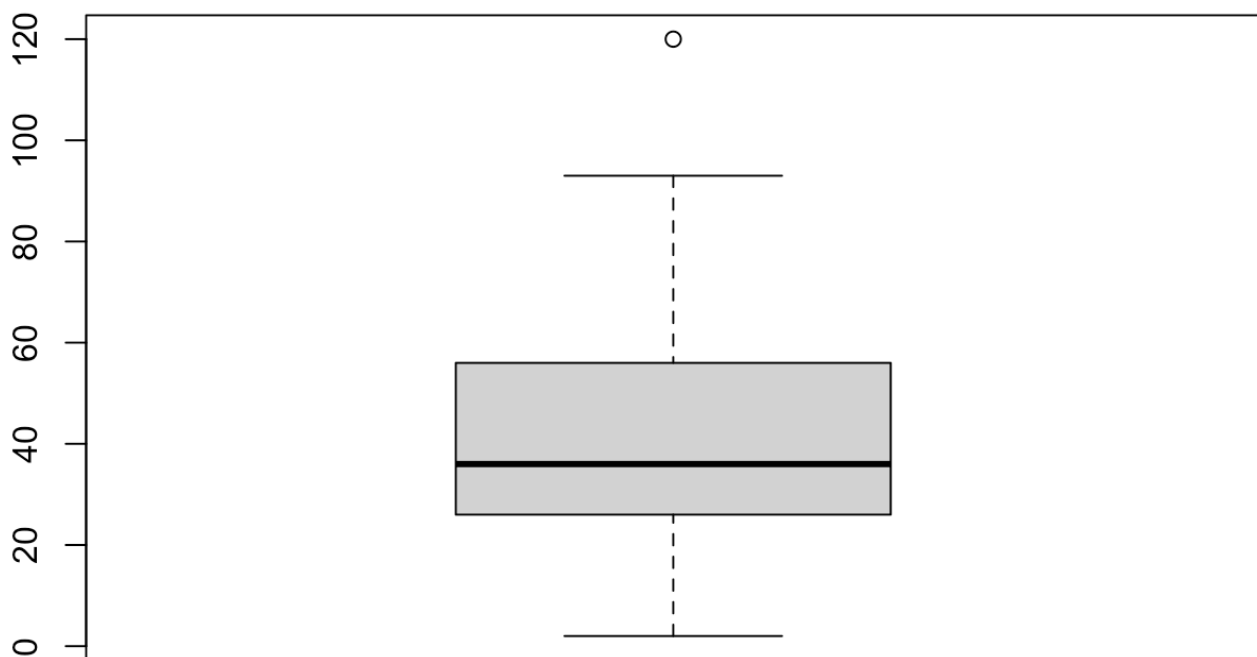
Part 2

```
hist(cars$speed)
```

Histogram of cars\$speed



```
boxplot(cars$dist)
```



The mean speed of cars was 15.4.

inline equation $x = 50 - x/n$

display equation

$$x = 50 - x/2n$$

horizontal Rule / page break

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Statistics in R

RNA-seq

Proteomics

Genome methylation

(End)