

BA001

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```
library(ISLR)
library(readr)
archive_1_ <- read_csv("C:/Users/Windows/Downloads/archive (1).zip")

## Rows: 400 Columns: 12
## -- Column specification -----
## Delimiter: ","
## chr (3): ShelveLoc, Urban, US
## dbl (9): No, Sales, CompPrice, Income, Advertising, Population, Price, Age, ...
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
summary(archive_1_)
```

```
##           No           Sales           CompPrice           Income
## Min.      : 1.0      Min.      : 0.000      Min.      : 77      Min.      : 21.00
## 1st Qu.:100.8      1st Qu.: 5.390      1st Qu.:115      1st Qu.: 42.75
## Median :200.5      Median : 7.490      Median :125      Median : 69.00
## Mean     :200.5      Mean     : 7.496      Mean     :125      Mean     : 68.66
## 3rd Qu.:300.2      3rd Qu.: 9.320      3rd Qu.:135      3rd Qu.: 91.00
## Max.     :400.0      Max.     :16.270      Max.     :175      Max.     :120.00
## Advertising      Population           Price           ShelveLoc
## Min.      : 0.000      Min.      : 10.0      Min.      : 24.0      Length:400
## 1st Qu.: 0.000      1st Qu.:139.0      1st Qu.:100.0      Class :character
## Median : 5.000      Median :272.0      Median :117.0      Mode  :character
## Mean     : 6.635      Mean     :264.8      Mean     :115.8
## 3rd Qu.:12.000      3rd Qu.:398.5      3rd Qu.:131.0
## Max.     :29.000      Max.     :509.0      Max.     :191.0
## Age           Education           Urban           US
## Min.      :25.00      Min.      :10.0      Length:400      Length:400
## 1st Qu.:39.75      1st Qu.:12.0      Class :character      Class :character
## Median :54.50      Median :14.0      Mode  :character      Mode  :character
## Mean     :53.32      Mean     :13.9
## 3rd Qu.:66.00      3rd Qu.:16.0
## Max.     :80.00      Max.     :18.0
```

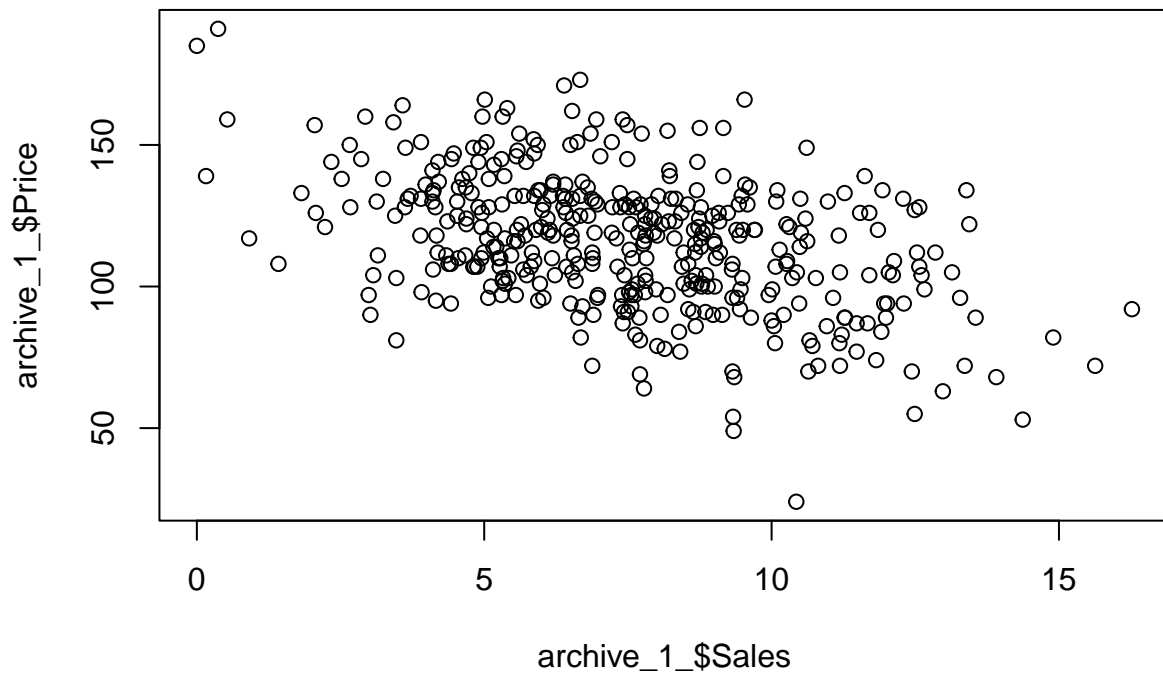
```
max(archive_1_$Advertising)
```

```
## [1] 29
```

```
IQR/archive_1_$Price)
```

```
## [1] 31
```

```
data <- plot/archive_1_$Sales,archive_1_$Price)
```



```
cor/archive_1_$Sales,archive_1_$Price)
```

```
## [1] -0.4449507
```

##It is observed that the price and sales correlation is negative and not perfectly correlated with 44%