

HW1

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
cars = read.csv("../data/cars.csv")
summary(cars)
```

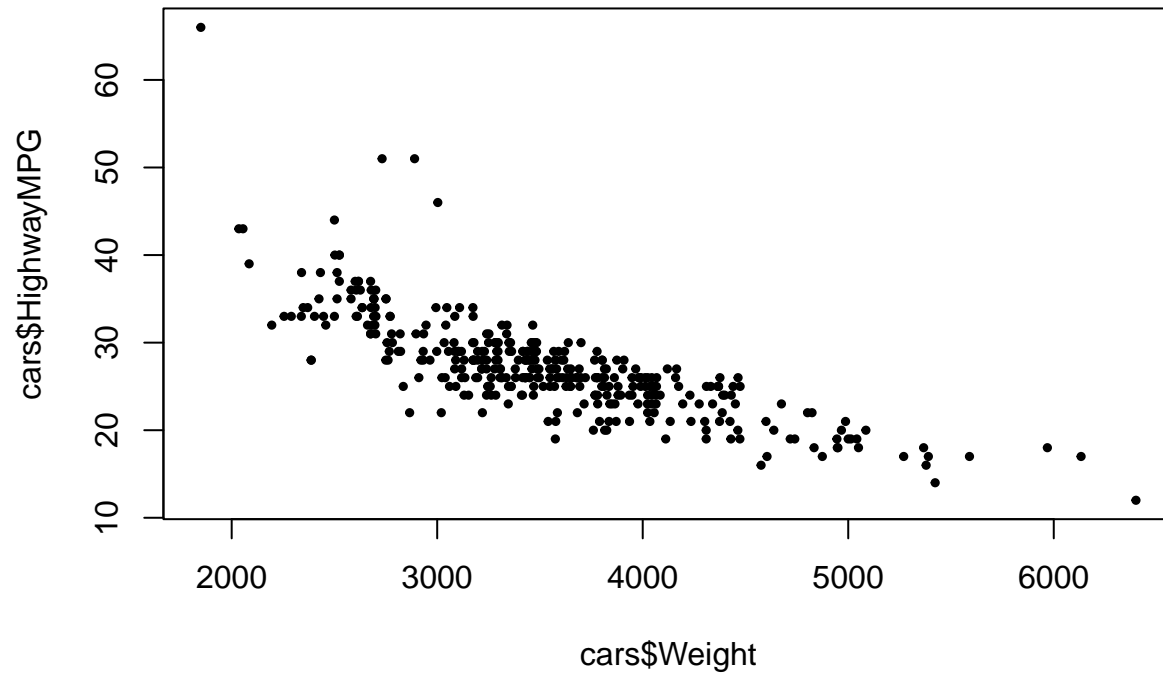
```
##           Sports           SUV           Wagon           Minivan
## Min.      :0.0000   Min.      :0.0000   Min.      :0.00000   Min.      :0.00000
## 1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:0.00000   1st Qu.:0.00000
## Median :0.0000   Median :0.0000   Median :0.00000   Median :0.00000
## Mean      :0.1163   Mean      :0.1525   Mean      :0.07235   Mean      :0.05426
## 3rd Qu.:0.0000   3rd Qu.:0.0000   3rd Qu.:0.00000   3rd Qu.:0.00000
## Max.      :1.0000   Max.      :1.0000   Max.      :1.00000   Max.      :1.00000
##           Pickup           AWD           RWD           Retail
## Min.      :0   Min.      :0.0000   Min.      :0.0000   Min.      : 10280
## 1st Qu.:0   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.: 20997
## Median :0   Median :0.0000   Median :0.0000   Median : 28495
## Mean      :0   Mean      :0.2016   Mean      :0.2429   Mean      : 33231
## 3rd Qu.:0   3rd Qu.:0.0000   3rd Qu.:0.0000   3rd Qu.: 39552
## Max.      :0   Max.      :1.0000   Max.      :1.0000   Max.      :192465
##           Dealer           Engine           Cylinders           Horsepower
## Min.      : 9875   Min.      :1.400   Min.      : 3.000   Min.      : 73.0
## 1st Qu.: 19575   1st Qu.:2.300   1st Qu.: 4.000   1st Qu.:165.0
## Median : 26155   Median :3.000   Median : 6.000   Median :210.0
## Mean      : 30441   Mean      :3.127   Mean      : 5.757   Mean      :214.4
## 3rd Qu.: 36124   3rd Qu.:3.800   3rd Qu.: 6.000   3rd Qu.:250.0
## Max.      :173560   Max.      :6.000   Max.      :12.000   Max.      :493.0
##           CityMPG           HighwayMPG           Weight           Wheelbase           Length
## Min.      :10.00   Min.      :12.00   Min.      :1850   Min.      : 89.0   Min.      :143
## 1st Qu.:18.00   1st Qu.:24.00   1st Qu.:3107   1st Qu.:103.0   1st Qu.:177
## Median :19.00   Median :27.00   Median :3469   Median :107.0   Median :186
## Mean      :20.31   Mean      :27.26   Mean      :3532   Mean      :107.2   Mean      :185
## 3rd Qu.:21.50   3rd Qu.:30.00   3rd Qu.:3922   3rd Qu.:112.0   3rd Qu.:193
## Max.      :60.00   Max.      :66.00   Max.      :6400   Max.      :130.0   Max.      :221
##           Width
## Min.      :64.00
## 1st Qu.:69.00
## Median :71.00
## Mean      :71.28
```

```
## 3rd Qu.:73.00  
## Max.    :81.00
```

Including Plots

You can also embed plots, for example:

```
plot(cars$Weight,cars$HighwayMPG,pch=19,cex=0.5)
```



$$2 + 2 = 4$$

(1)

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.