

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:

```
\NormalTok{cars } \OtherTok{=}
↪ \FunctionTok{read.csv}\NormalTok{({}\StringTok{"../data/cars.csv"}\NormalTok{{})}
\FunctionTok{summary}\NormalTok{({cars})}
```

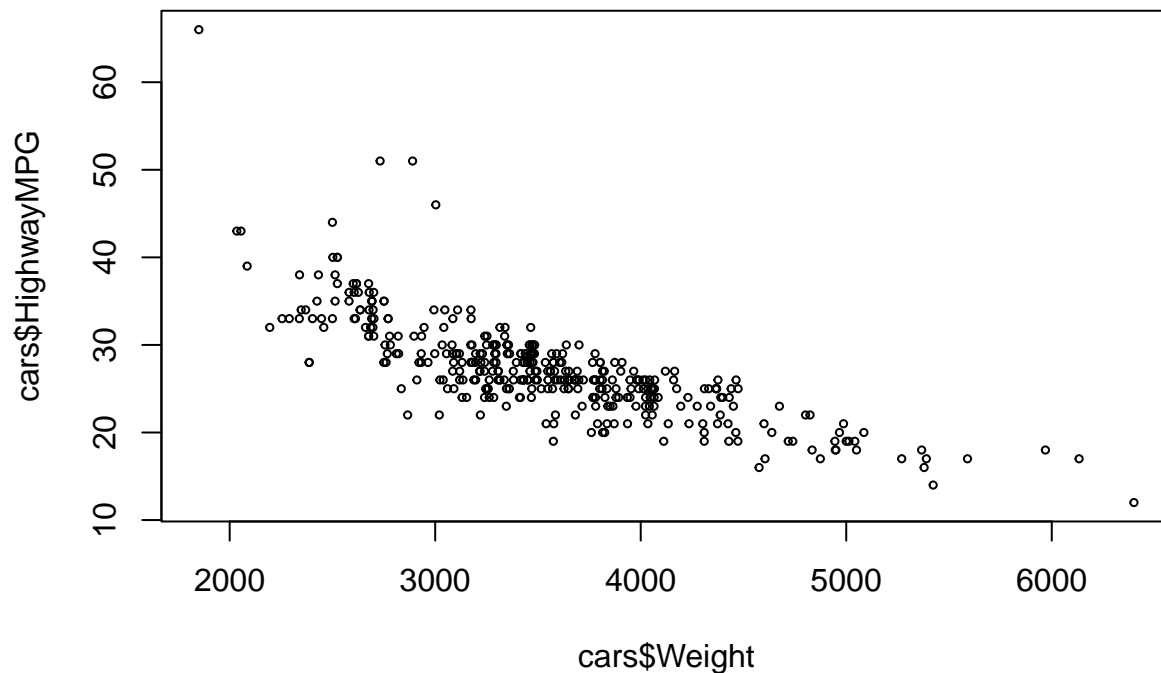
```
##           Sports           SUV           Wagon           Minivan
## Min.      :0.0000    Min.      :0.0000    Min.      :0.00000    Min.      :0.00000
## 1st Qu.:0.0000    1st Qu.:0.0000    1st Qu.:0.00000    1st Qu.:0.00000
## Median :0.0000    Median :0.0000    Median :0.00000    Median :0.00000
## 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:

```
## Warning in plot.window(...): "pck" is not a graphical parameter
## Warning in plot.xy(xy, type, ...): "pck" is not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "pck" is not a
## graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "pck" is not a
## graphical parameter
## Warning in box(...): "pck" is not a graphical parameter
## Warning in title(...): "pck" is not a graphical parameter
```



$2 + 2 = 4$

(1)

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