Assignment 3

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Hello Octocat

I love Octocat. She's the coolest cat in town.

Figure 1:

```
data(anscombe)
dim(anscombe)
```

```
## [1] 11  8
```

```
colnames(anscombe)
```

```
## [1] "x1" "x2" "x3" "x4" "y1" "y2" "y3" "y4"
```

```
head(anscombe)
```

```
##    x1 x2 x3 x4   y1   y2    y3   y4
## 1 10 10 10  8 8.04 9.14  7.46 6.58
## 2  8  8  8  8 6.95 8.14  6.77 5.76
## 3 13 13 13  8 7.58 8.74 12.74 7.71
## 4  9  9  9  8 8.81 8.77  7.11 8.84
## 5 11 11 11  8 8.33 9.26  7.81 8.47
## 6 14 14 14  8 9.96 8.10  8.84 7.04
```

```
tail(anscombe)
```

```
##    x1 x2 x3 x4   y1   y2   y3   y4
## 6  14 14 14  8 9.96 8.10 8.84 7.04
## 7   6  6  6  8 7.24 6.13 6.08 5.25
```

```
## 8    4   4   4 19   4.26 3.10 5.39 12.50
## 9   12 12 12   8 10.84 9.13 8.15  5.56
## 10  7   7   7   8  4.82 7.26 6.42  7.91
## 11  5   5   5   8  5.68 4.74 5.73  6.89
```

```
summary(anscombe)
```

```
##        x1              x2              x3              x4
## Min.   : 4.0    Min.   : 4.0    Min.   : 4.0    Min.   : 8
## 1st Qu.: 6.5    1st Qu.: 6.5    1st Qu.: 6.5    1st Qu.: 8
## Median : 9.0    Median : 9.0    Median : 9.0    Median : 8
## Mean   : 9.0    Mean   : 9.0    Mean   : 9.0    Mean   : 9
## 3rd Qu.:11.5    3rd Qu.:11.5    3rd Qu.:11.5    3rd Qu.: 8
## Max.   :14.0    Max.   :14.0    Max.   :14.0    Max.   :19
##        y1              y2              y3              y4
## Min.   : 4.260  Min.   :3.100   Min.   : 5.39   Min.   : 5.250
## 1st Qu.: 6.315  1st Qu.:6.695   1st Qu.: 6.25   1st Qu.: 6.170
## Median : 7.580  Median :8.140   Median : 7.11   Median : 7.040
## Mean   : 7.501  Mean   :7.501   Mean   : 7.50   Mean   : 7.501
## 3rd Qu.: 8.570  3rd Qu.:8.950   3rd Qu.: 7.98   3rd Qu.: 8.190
## Max.   :10.840  Max.   :9.260   Max.   :12.74   Max.   :12.500
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
##    x1    y1
## 1  10  8.04
## 2   8  6.95
## 3  13  7.58
## 4   9  8.81
## 5  11  8.33
## 6  14  9.96
## 7   6  7.24
## 8   4  4.26
## 9  12 10.84
## 10  7  4.82
## 11  5  5.68
```

Anscombe Scatterplot