



Multiple Plots





Graphics so far

- Plot single source of data
- No combinations of plots
- No different layers





shop





mfrow parameter in par()

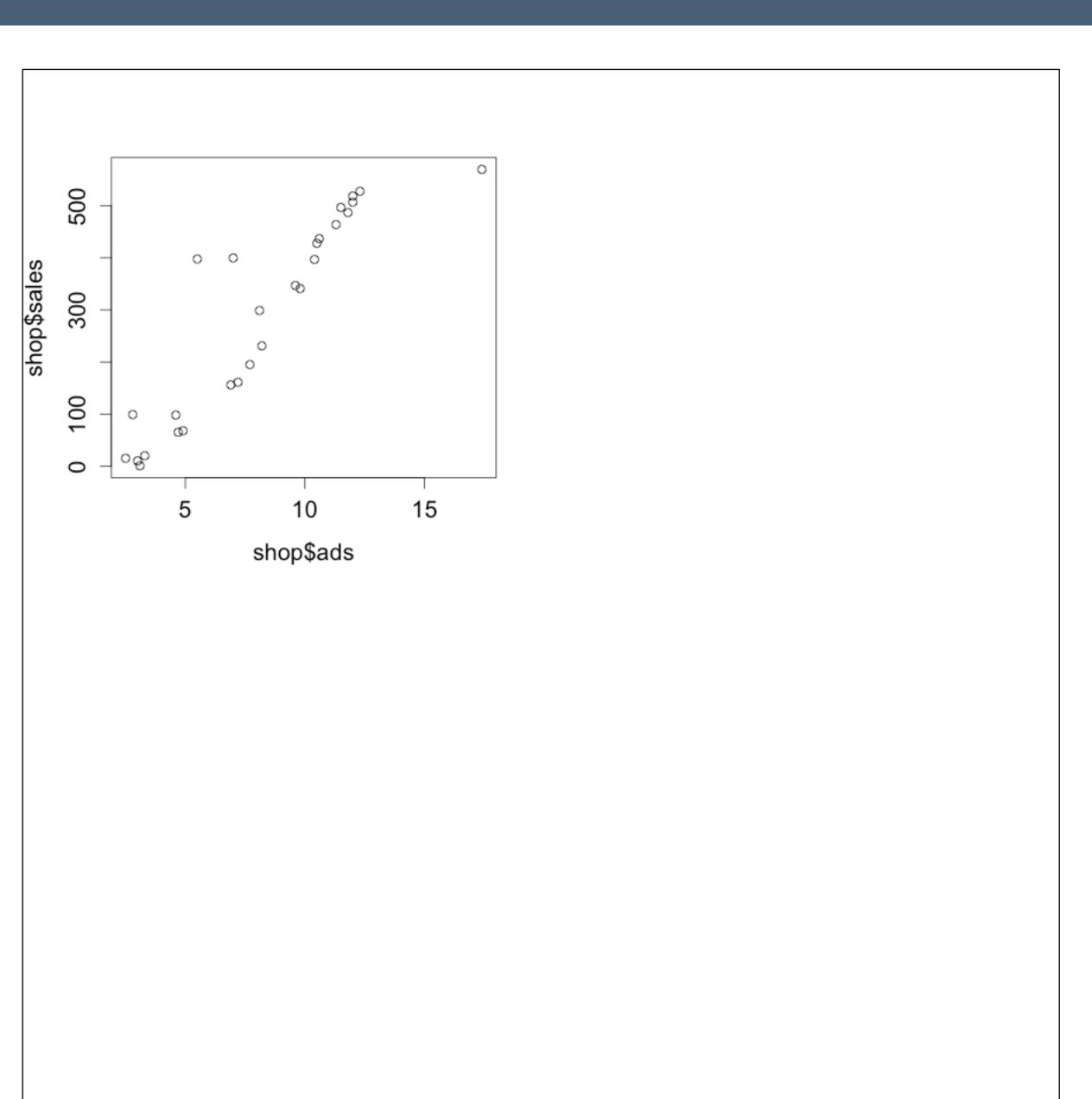
```
> par()
List of 72
$ xlog : logi FALSE
$ ylog : logi FALSE
$ adj : num 0.5
$ fin : num [1:2] 8.31 6.89
$ font : int 1
$ font.axis: int 1
$ font.lab : int 1
      : chr "r"
$ yaxs
       : chr "s"
$ yaxt
$ ylbias
         : num 0.2
```





```
> par(mfrow = c(2,2))
```

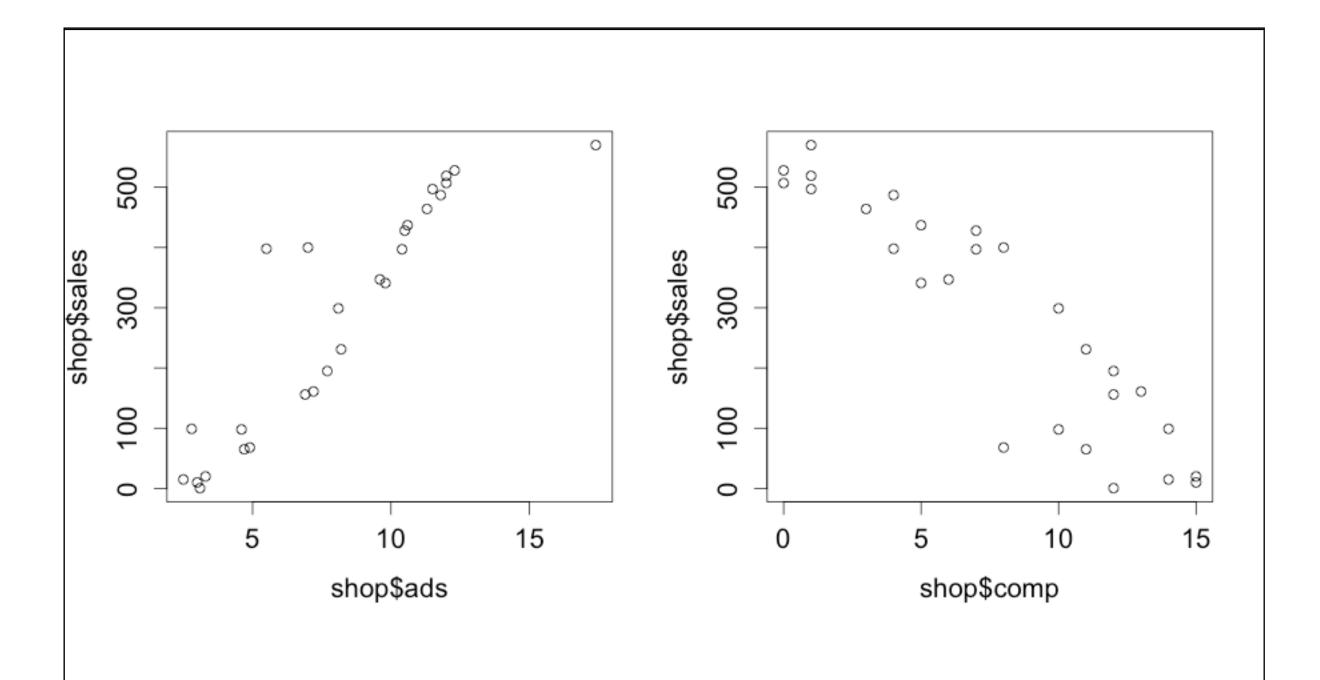
> plot(shop\$ads, shop\$sales)







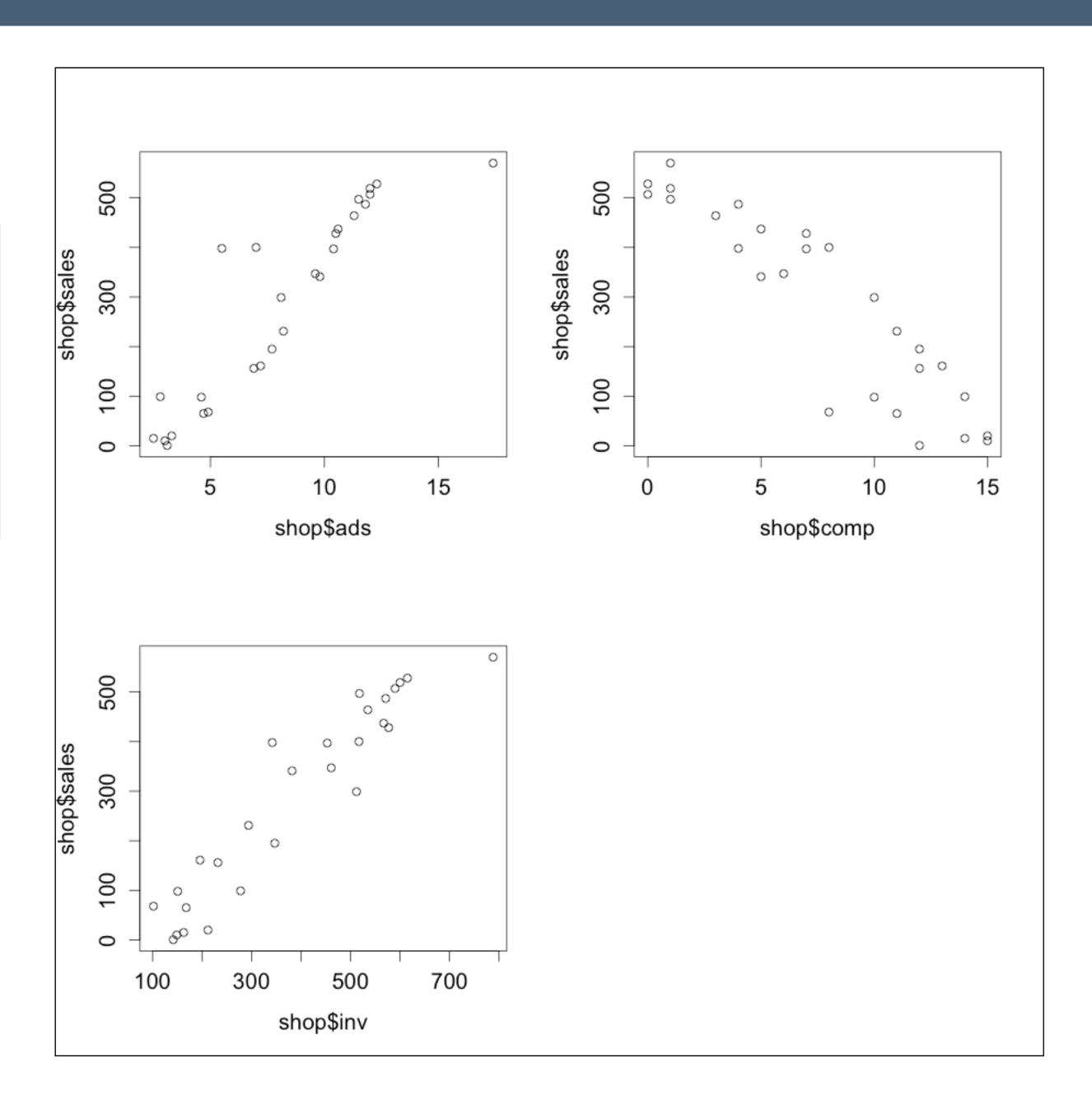
- > par(mfrow = c(2,2))
- > plot(shop\$ads, shop\$sales)
- > plot(shop\$comp, shop\$sales)







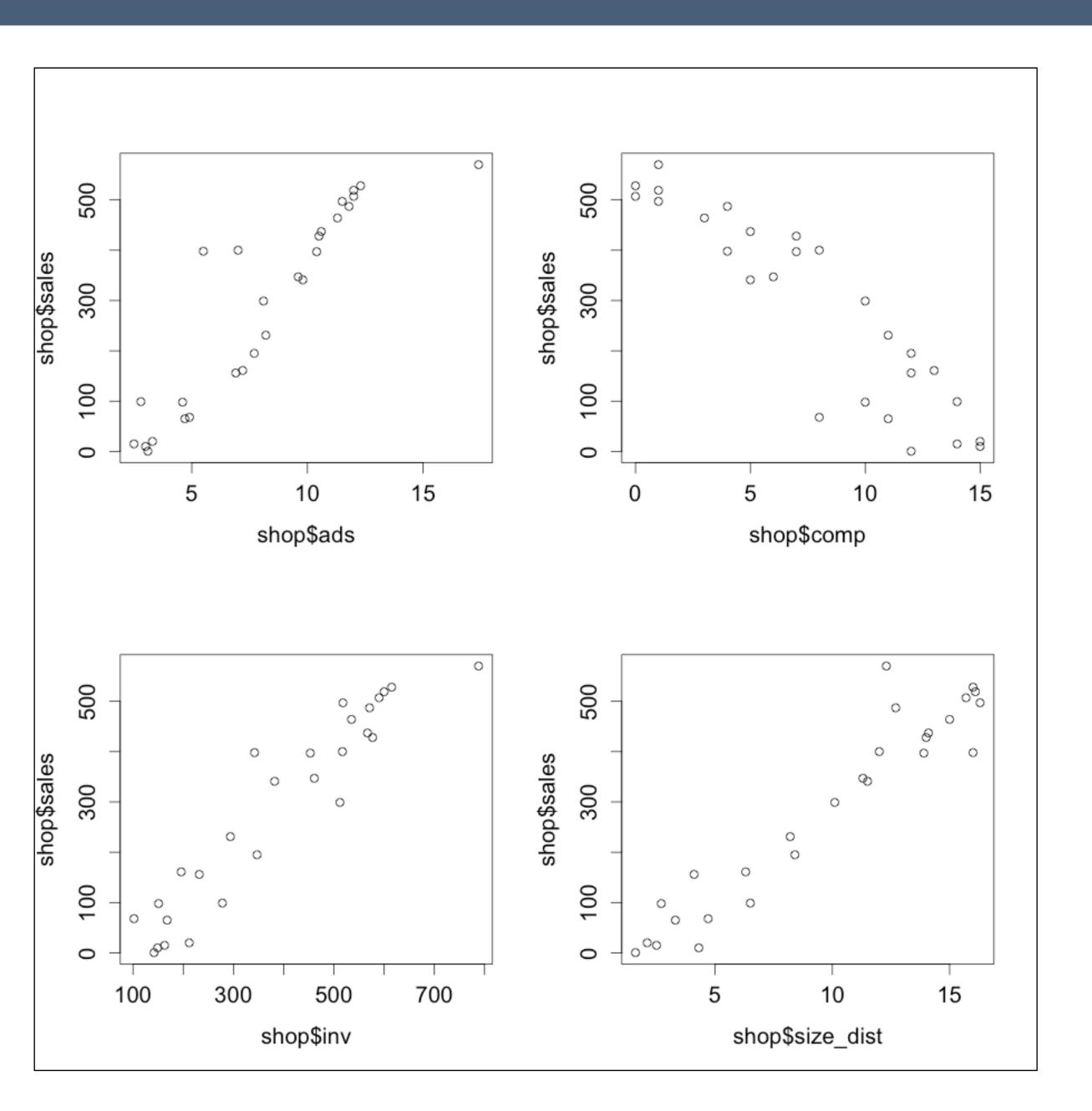
- > par(mfrow = c(2,2))
- > plot(shop\$ads, shop\$sales)
- > plot(shop\$comp, shop\$sales)
- > plot(shop\$inv, shop\$sales)







- > par(mfrow = c(2,2))
- > plot(shop\$ads, shop\$sales)
- > plot(shop\$comp, shop\$sales)
- > plot(shop\$inv, shop\$sales)
- > plot(shop\$size_dist, shop\$sales)

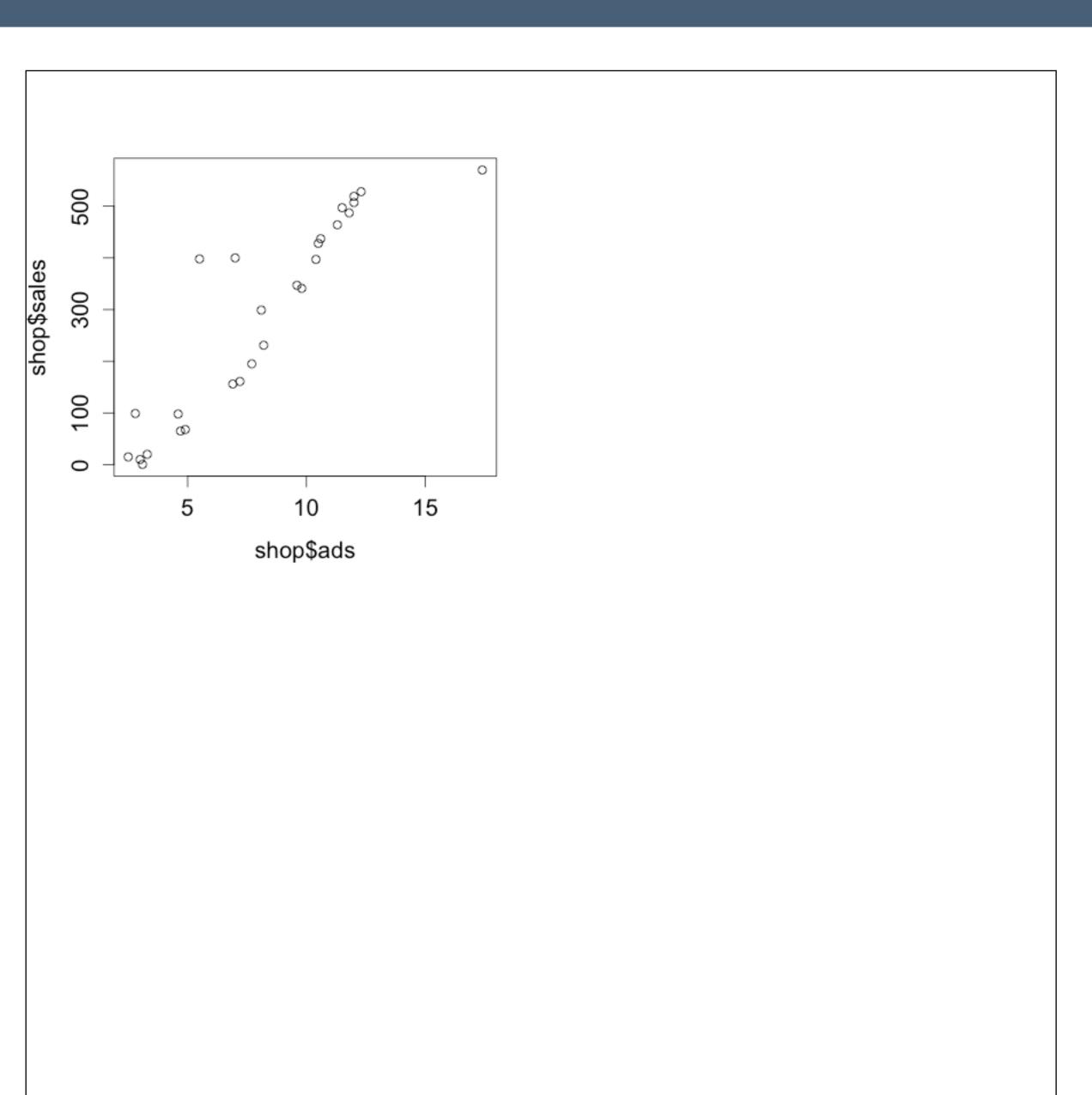






```
> par(mfcol = c(2,2))
```

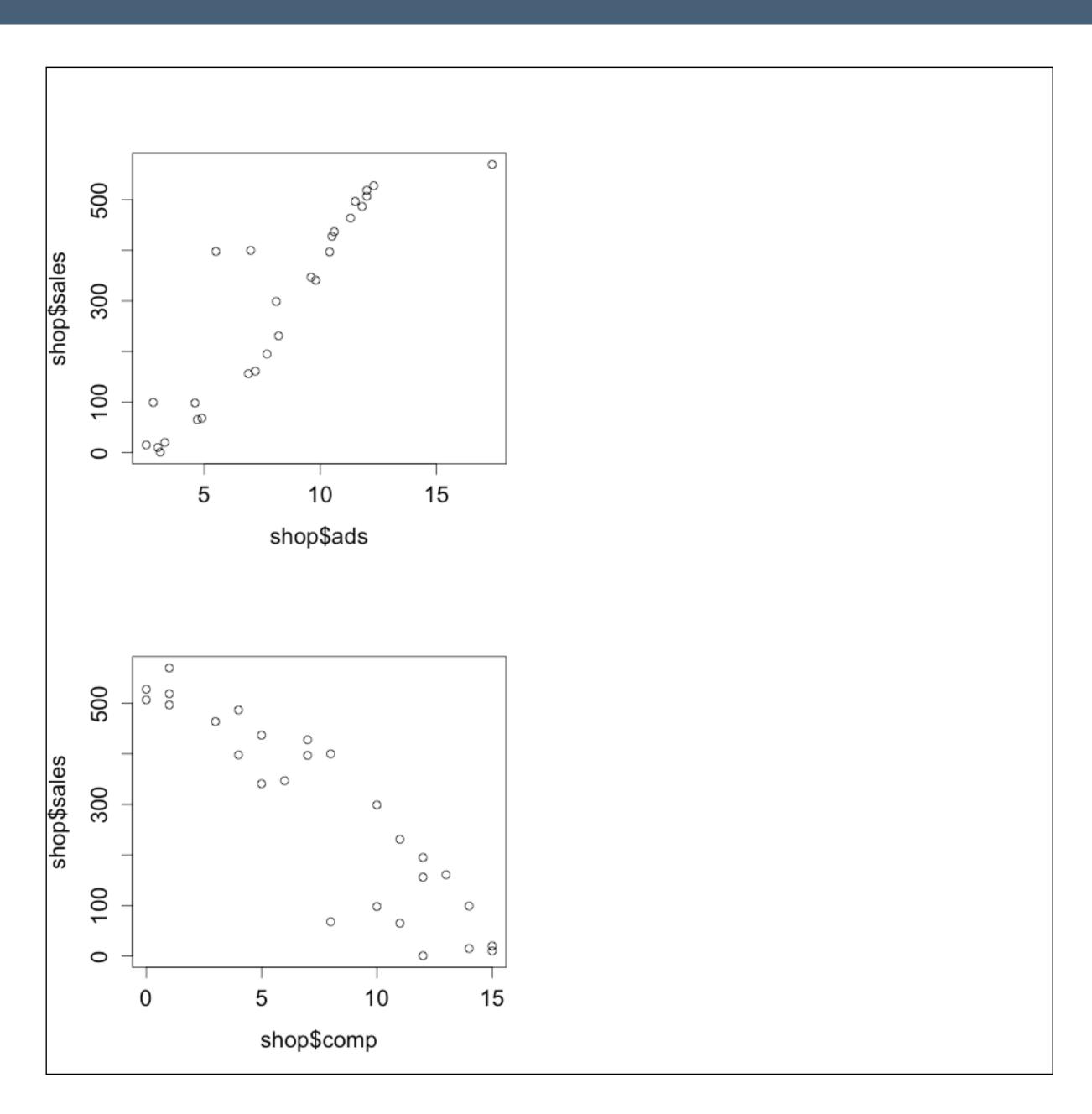
> plot(shop\$ads, shop\$sales)







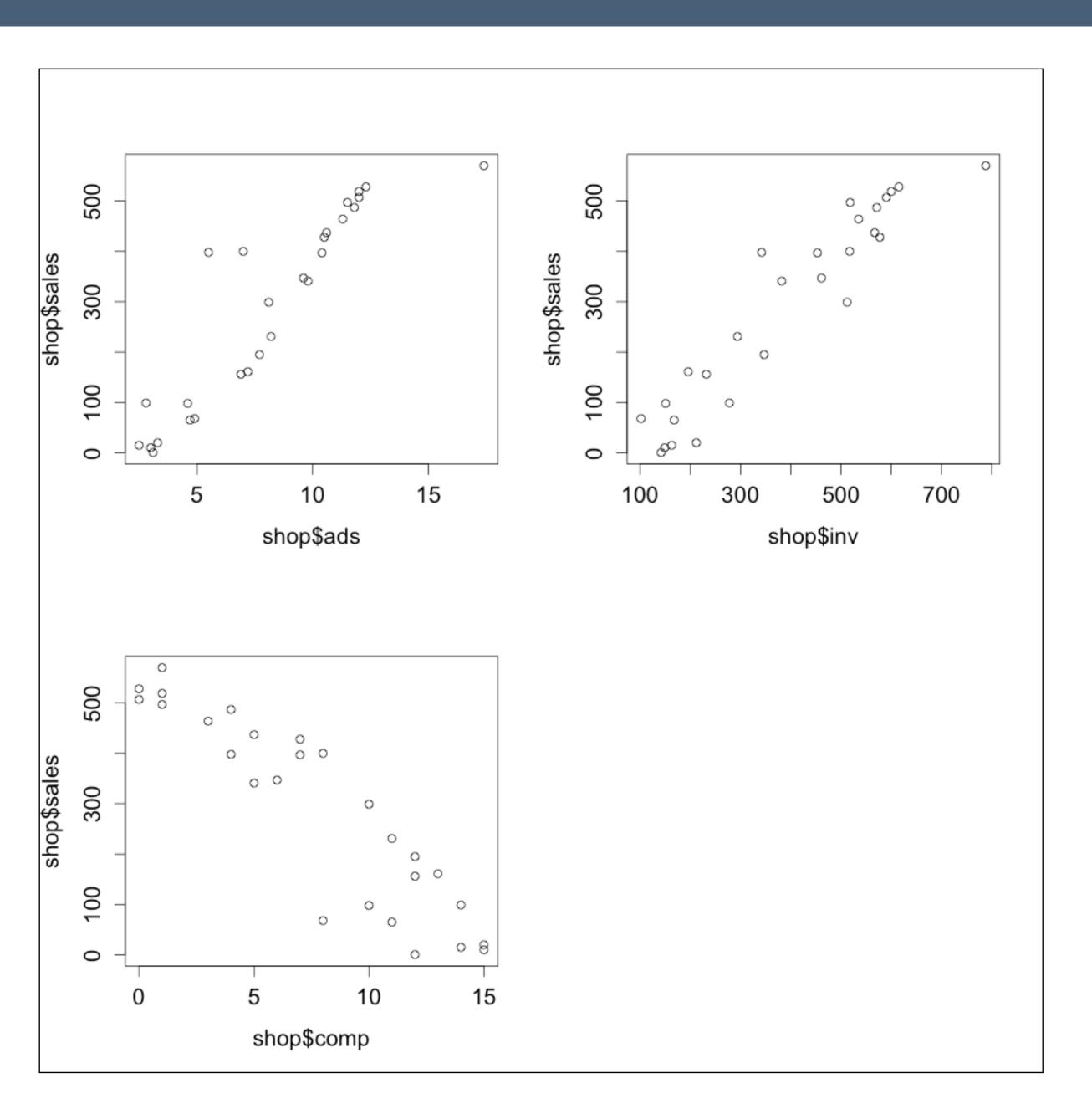
- > par(mfcol = c(2,2))
- > plot(shop\$ads, shop\$sales)
- > plot(shop\$comp, shop\$sales)







- > par(mfcol = c(2,2))
- > plot(shop\$ads, shop\$sales)
- > plot(shop\$comp, shop\$sales)
- > plot(shop\$inv, shop\$sales)

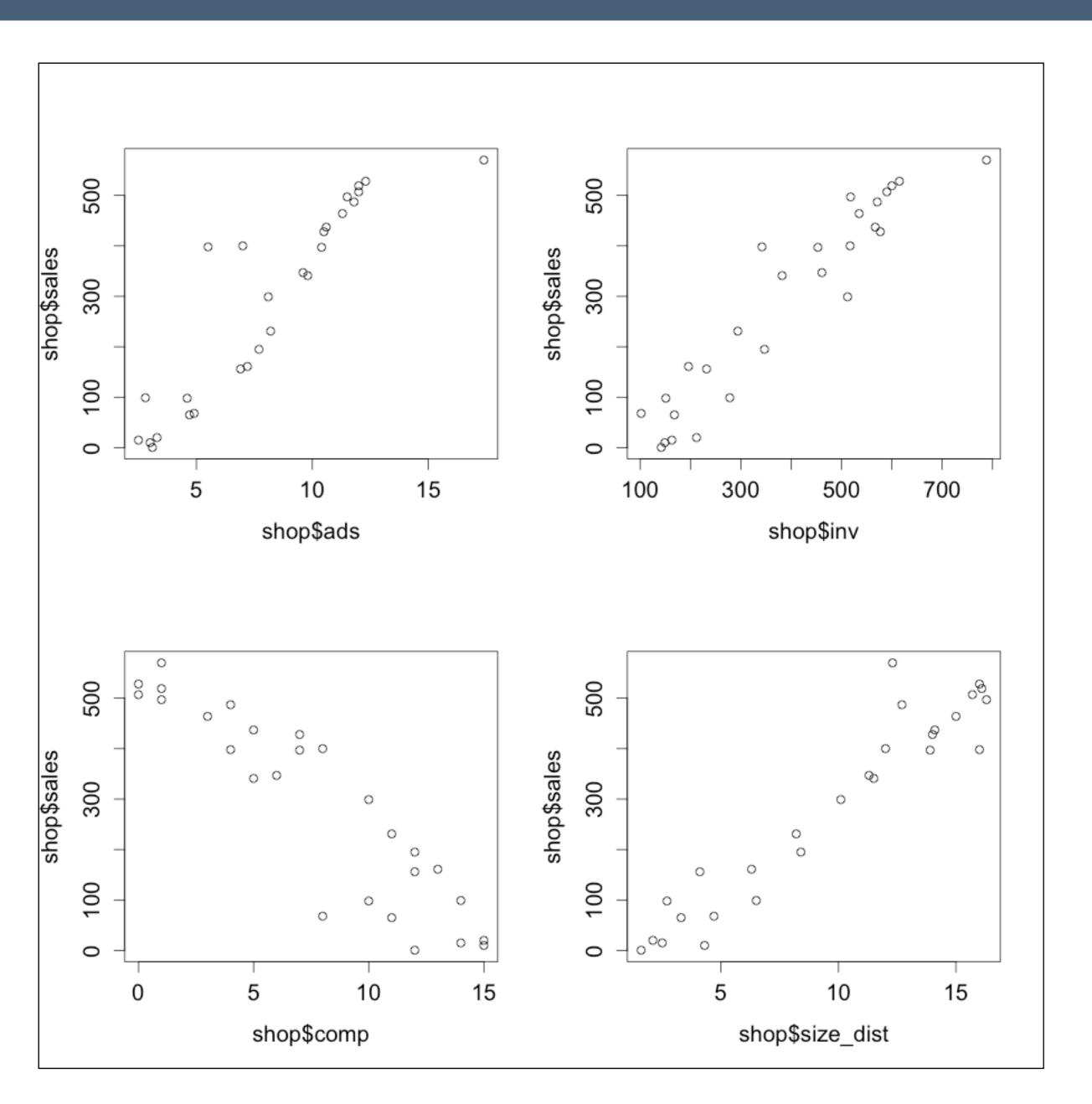






- > par(mfcol = c(2,2))
- > plot(shop\$ads, shop\$sales)
- > plot(shop\$comp, shop\$sales)
- > plot(shop\$inv, shop\$sales)
- > plot(shop\$size_dist, shop\$sales)

```
2 \text{ rows 2 cols}
par(mfcol = c(2,2))
```



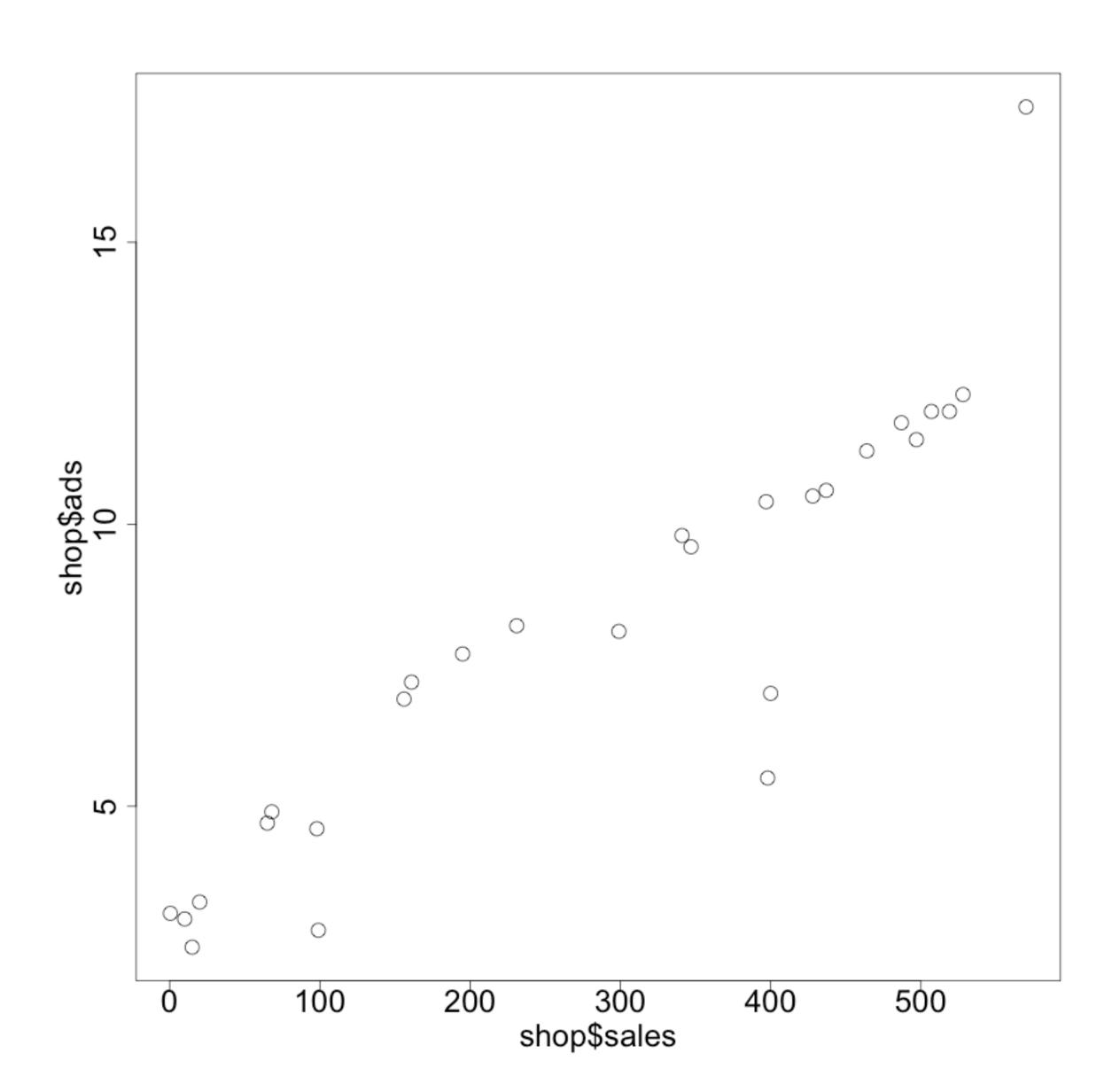




Reset the grid

```
> par(mfrow = c(1,1))
```

> plot(shop\$sales, shop\$ads)

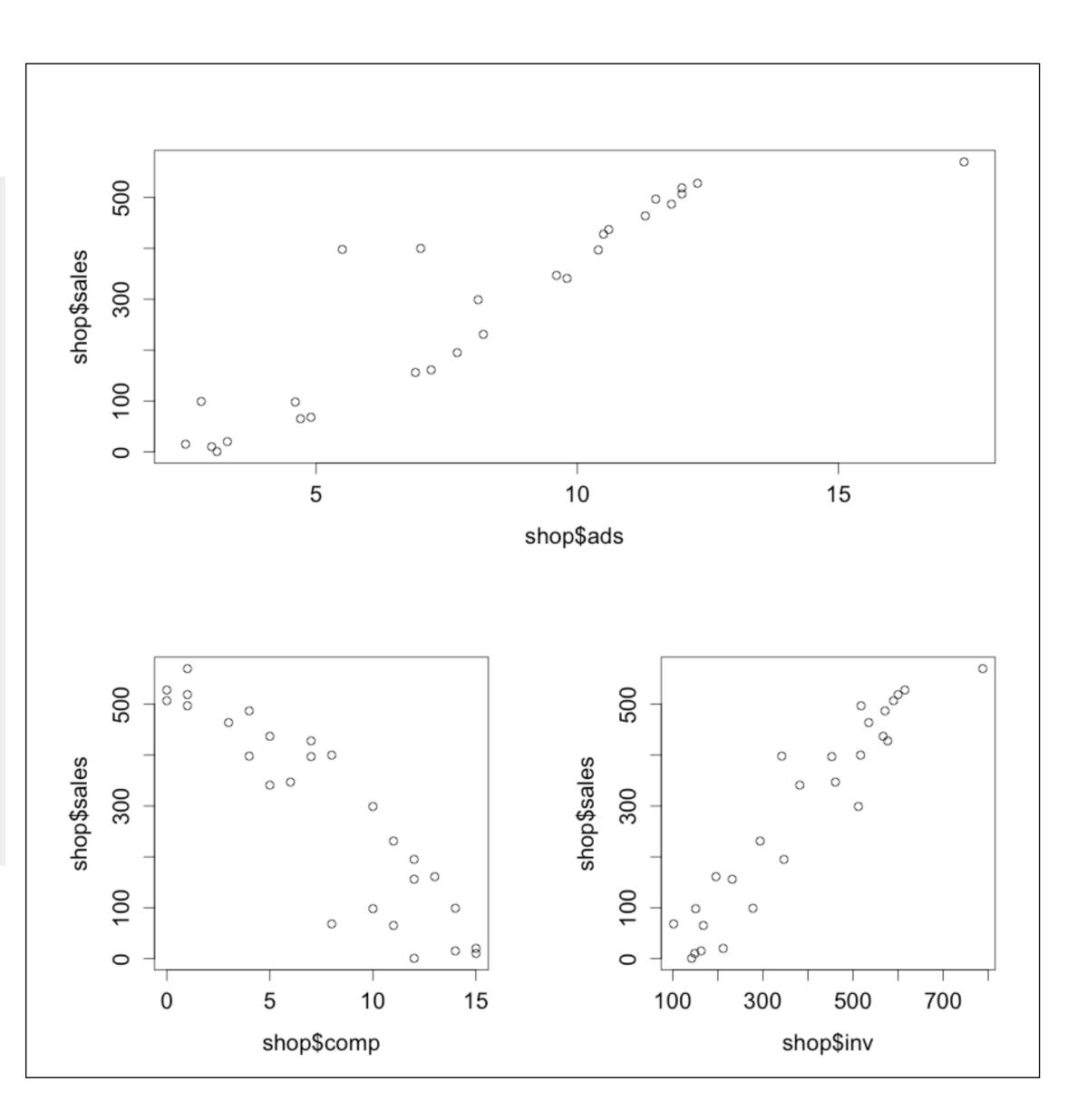






layout()

```
> grid <- matrix(c(1, 1, 2, 3), nrow = 2,
                 ncol = 2, byrow = TRUE)
> grid
     [,1] [,2]
[1,]
[2,]
> layout(grid)
> plot(shop$ads, shop$sales)
> plot(shop$comp, shop$sales)
> plot(shop$inv, shop$sales)
```







Reset the grid

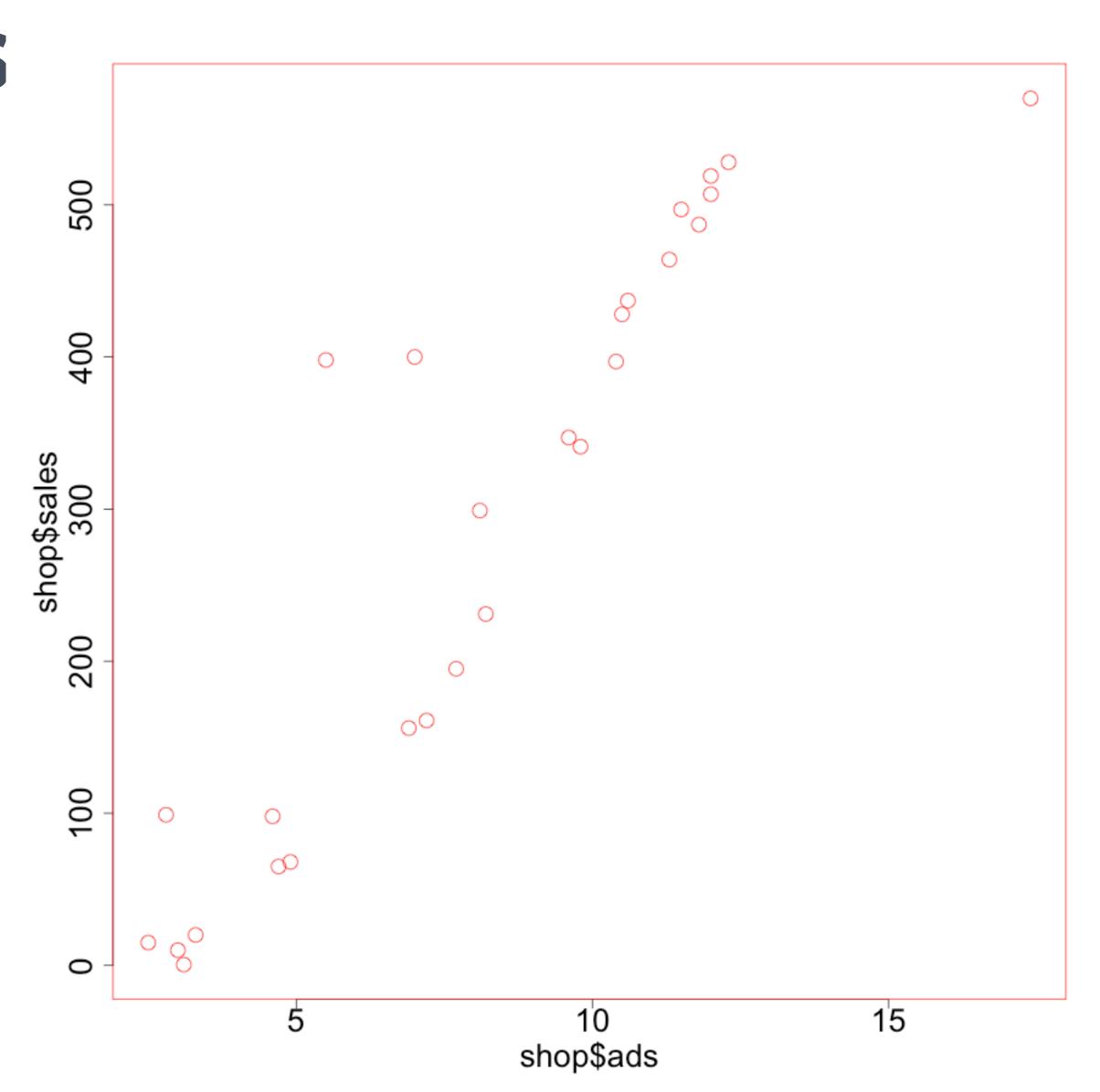
```
> layout(1)
> par(mfcol = c(1,1))
```





Reset all parameters

```
> old_par <- par()
> par(col = "red")
> plot(shop$ads, shop$sales)
```

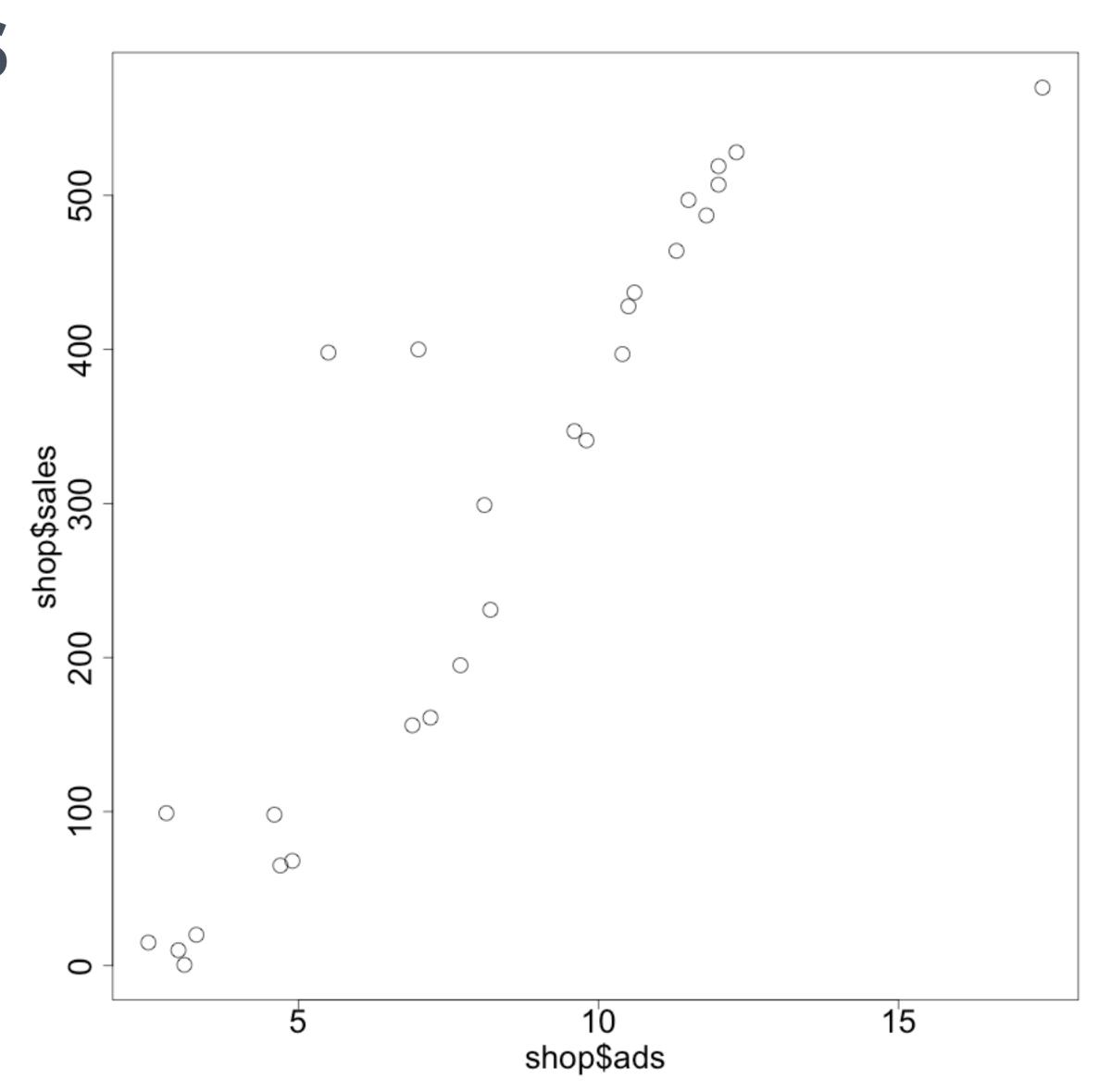






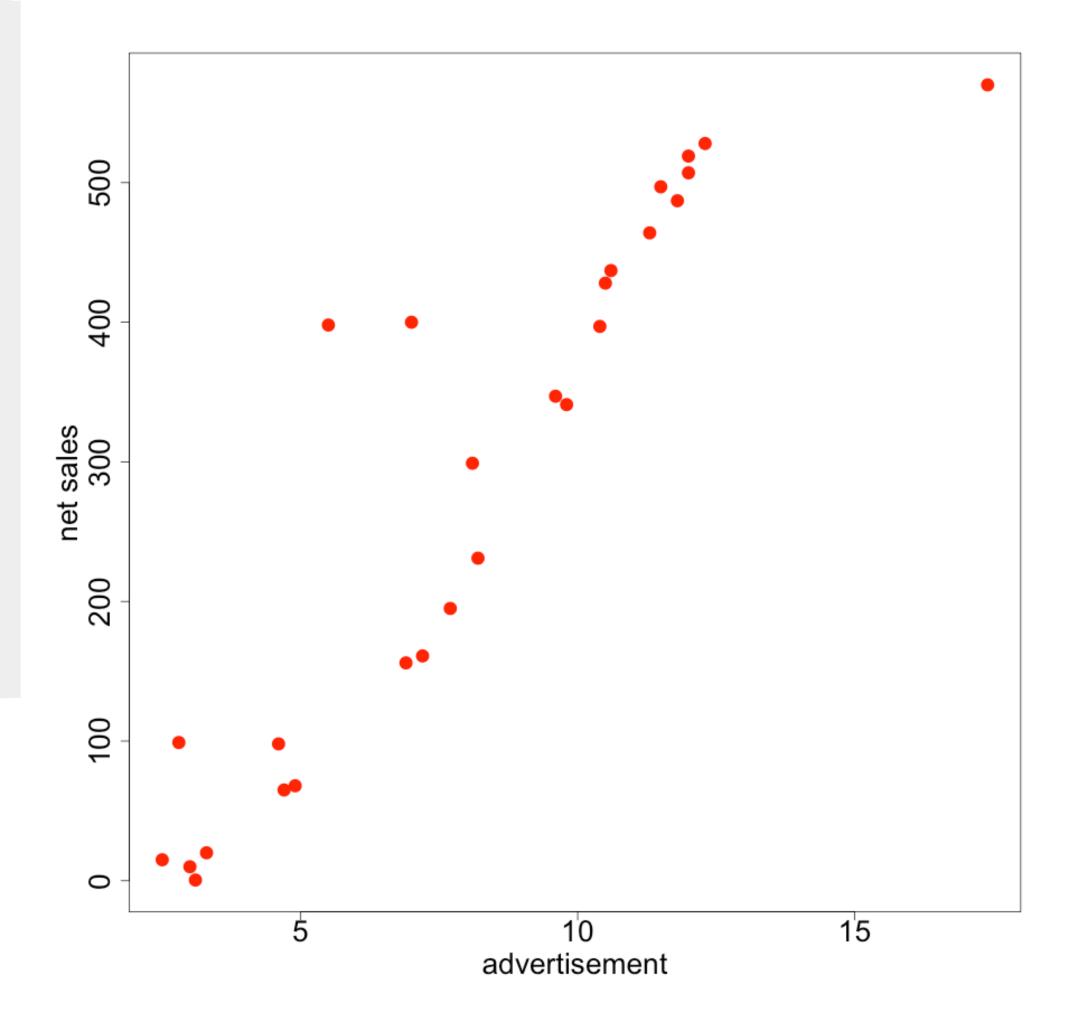
Reset all parameters

```
> old_par <- par()
> par(col = "red")
> plot(shop$ads, shop$sales)
> par(old_par)
> plot(shop$ads, shop$sales)
```



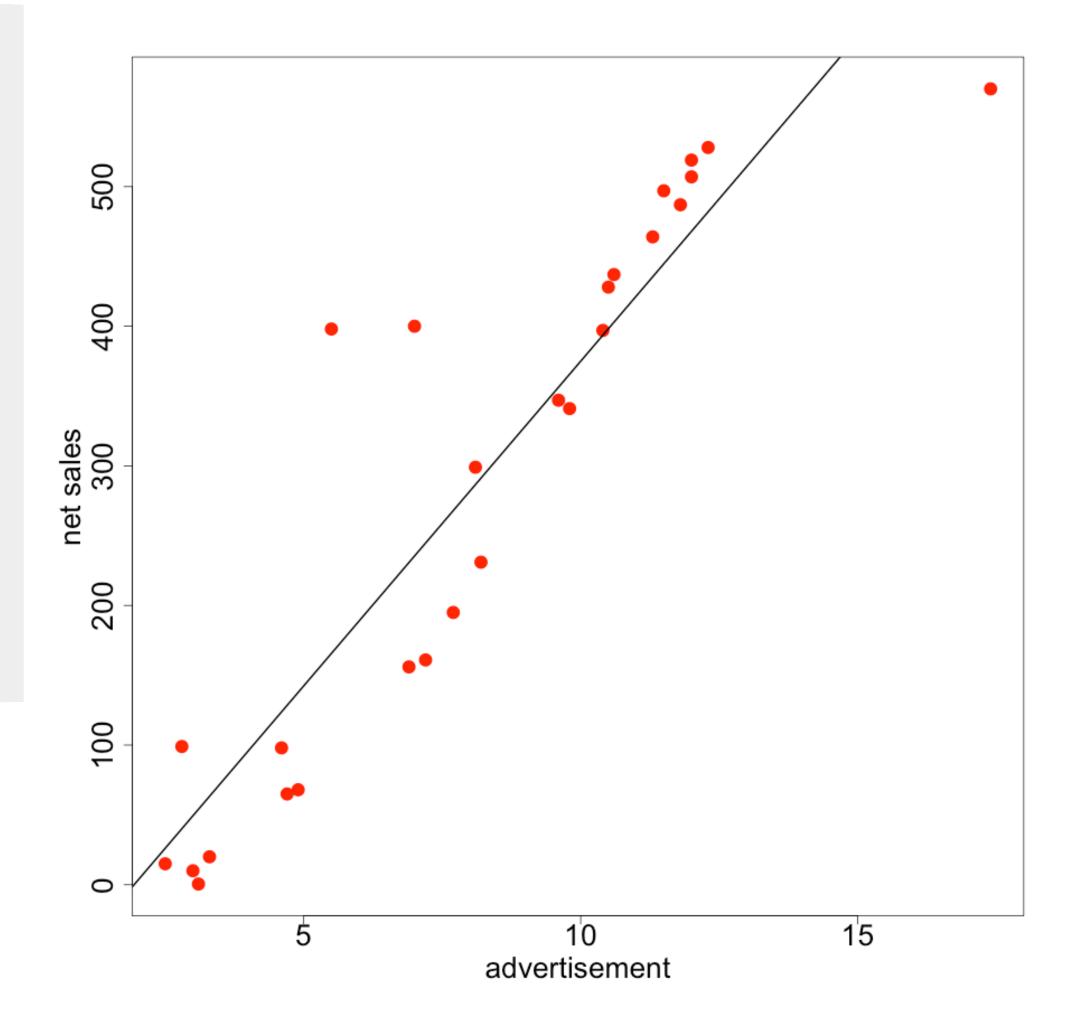








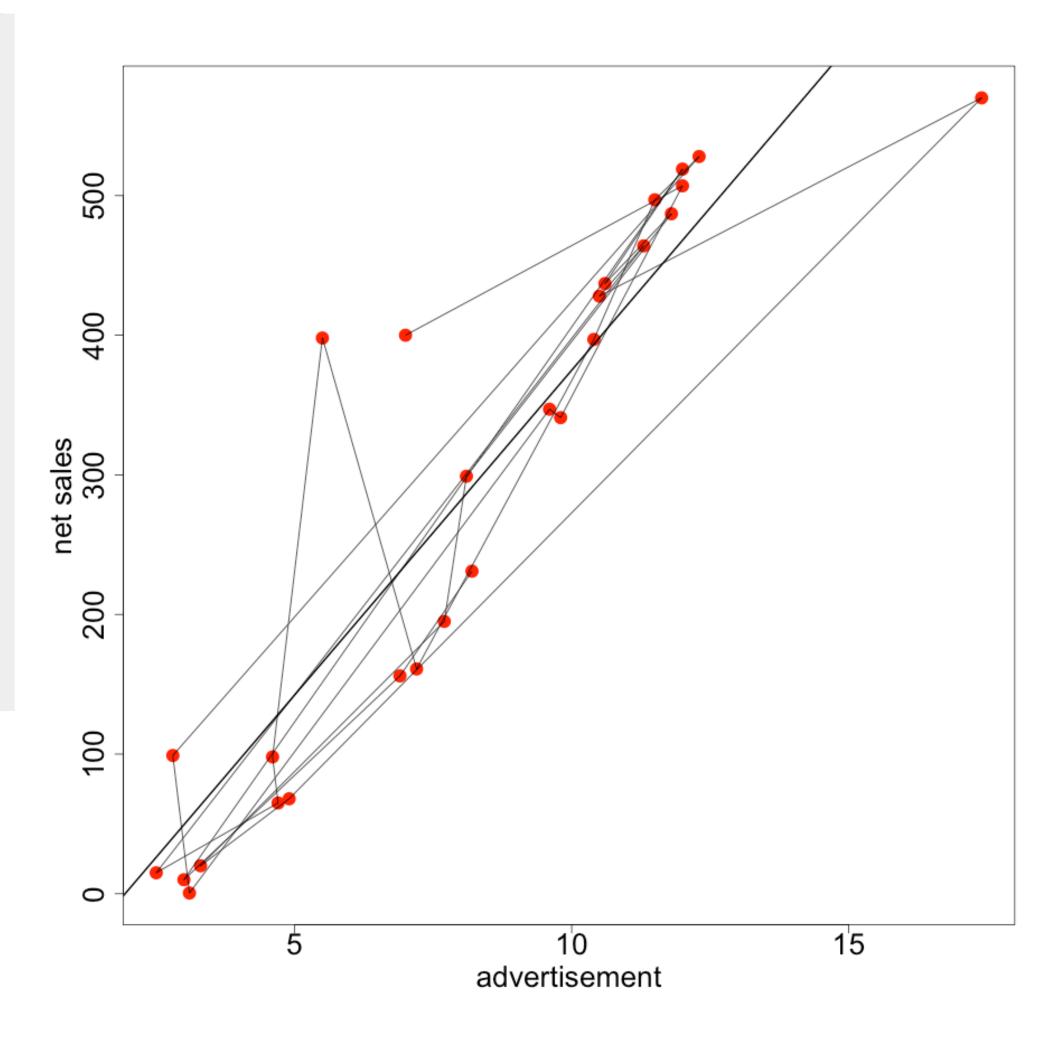






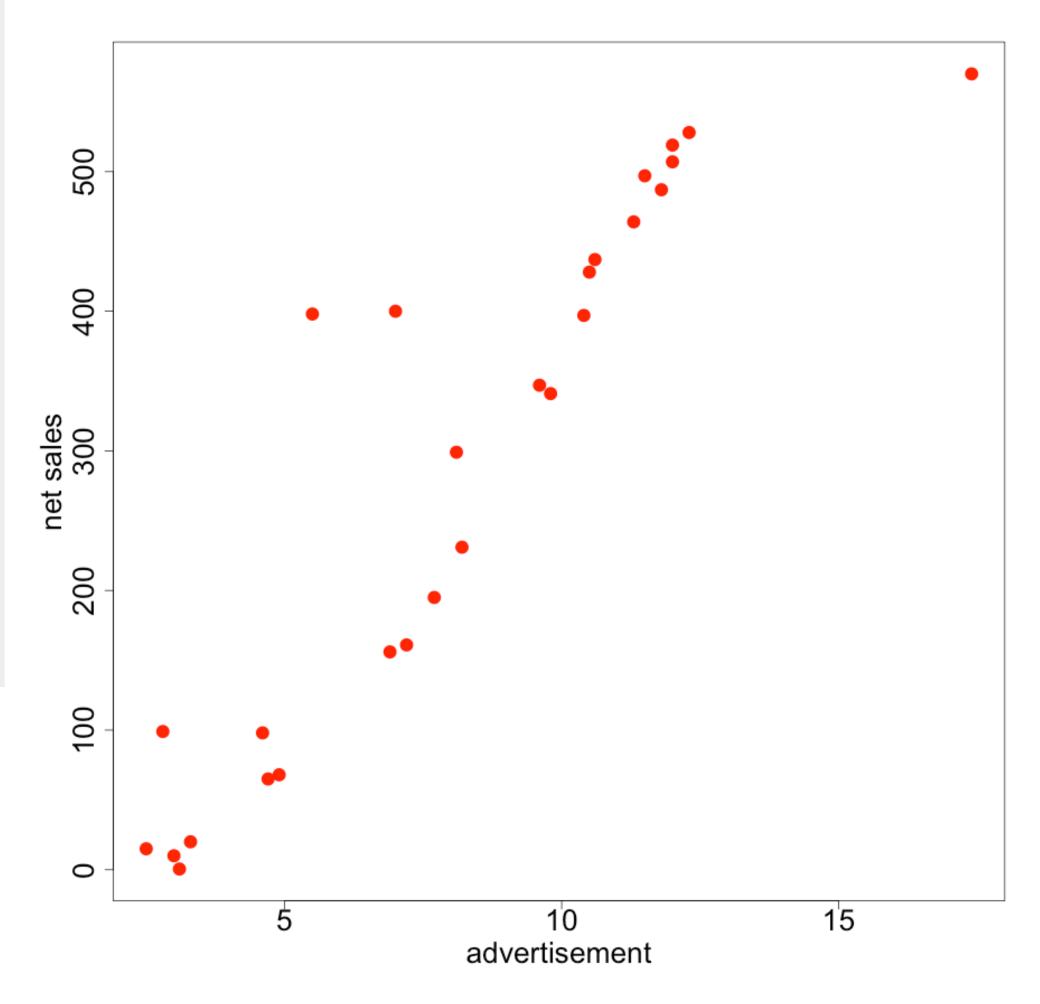


```
points() segments()
lines() text()
```



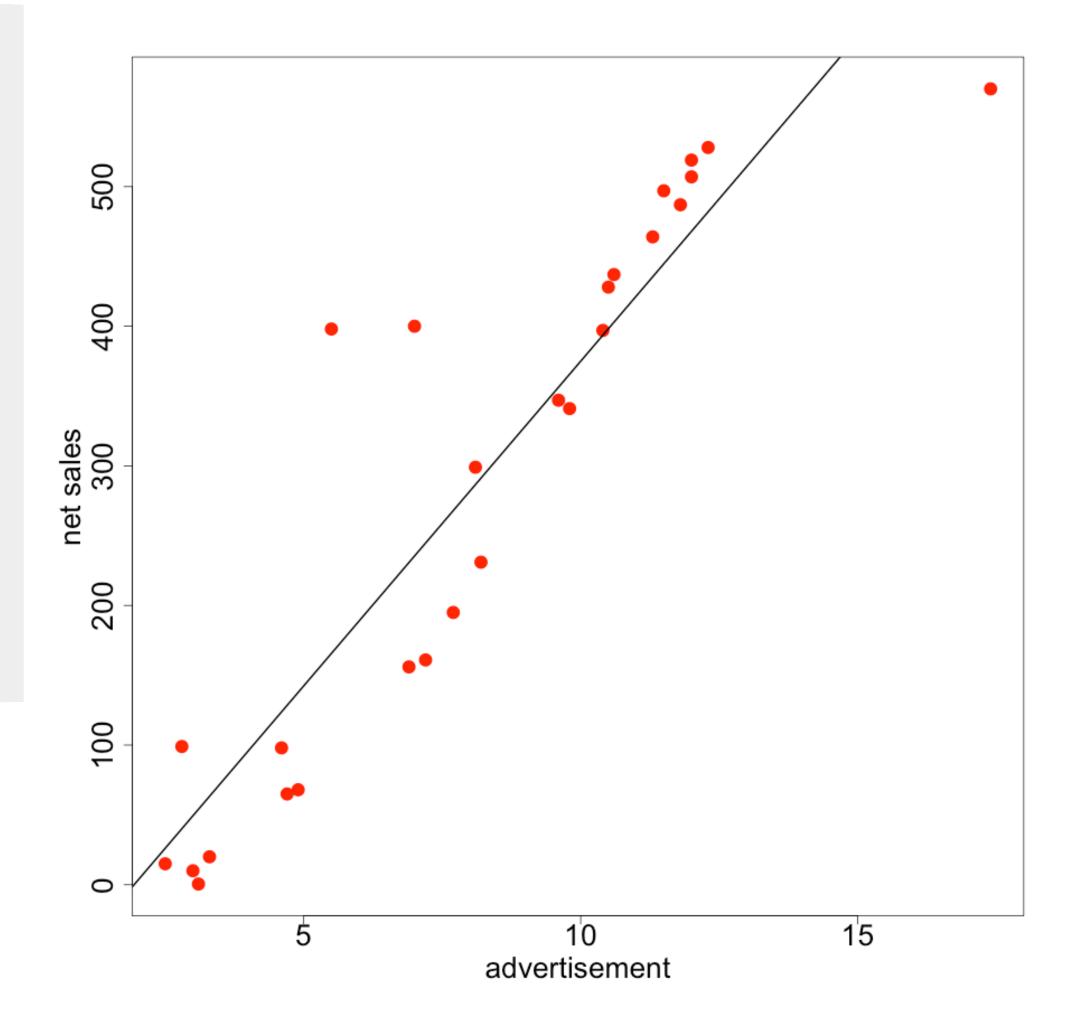






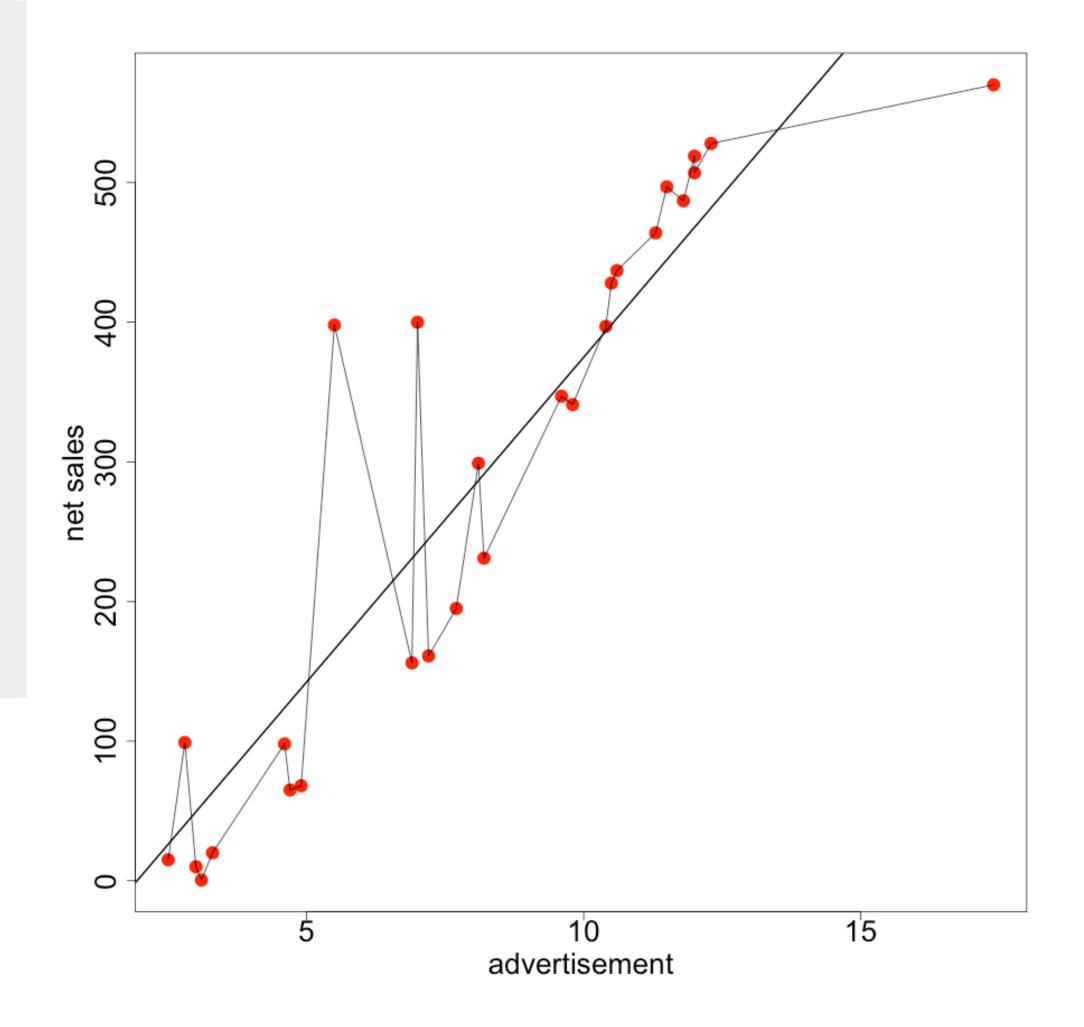
















Let's practice!