Solutions to ggplot2 Exercises

Based on *R Graphics Cookbook* by Winston Chang

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Chapter 1

R Basics

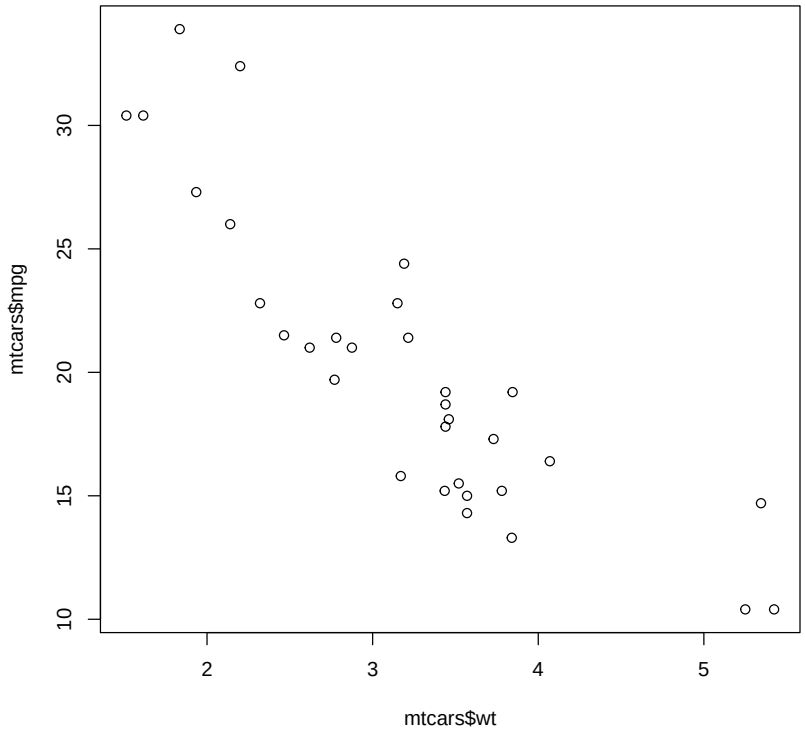
There's not really much to add for this chapter. Move on to the next one.

Chapter 2

Quickly Exploring Data

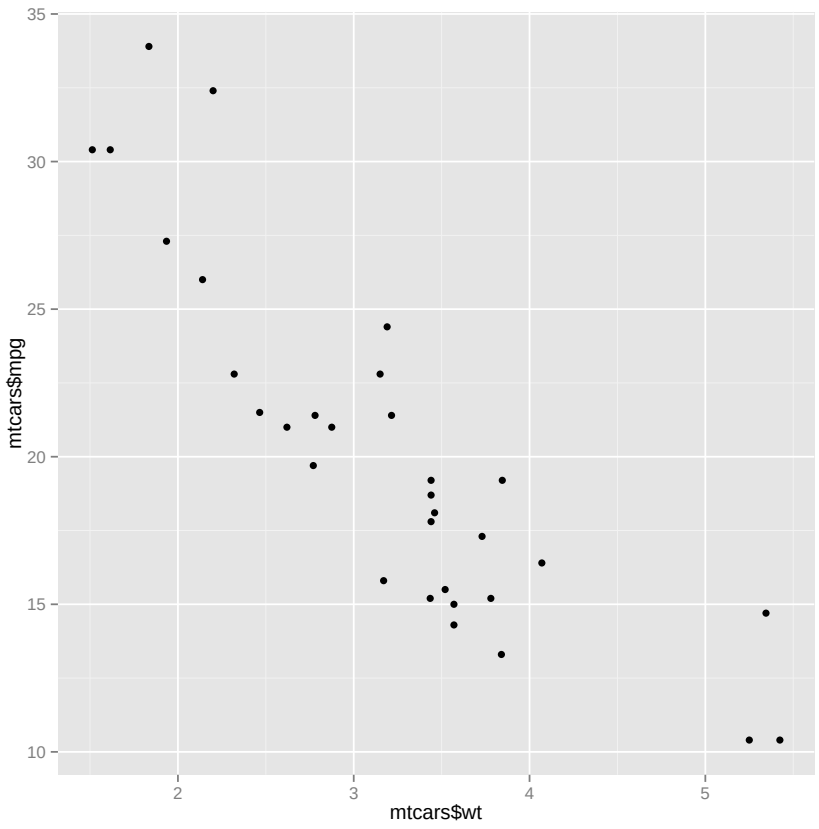
1. Produce the following plot with the `mtcars` dataset. It's built into R so you do not need to load any packages:

```
plot(mtcars$wt, mtcars$mpg)
```


mtcars$mpg
10
15
20
25
30
2
3
4
5
mtcars$wt

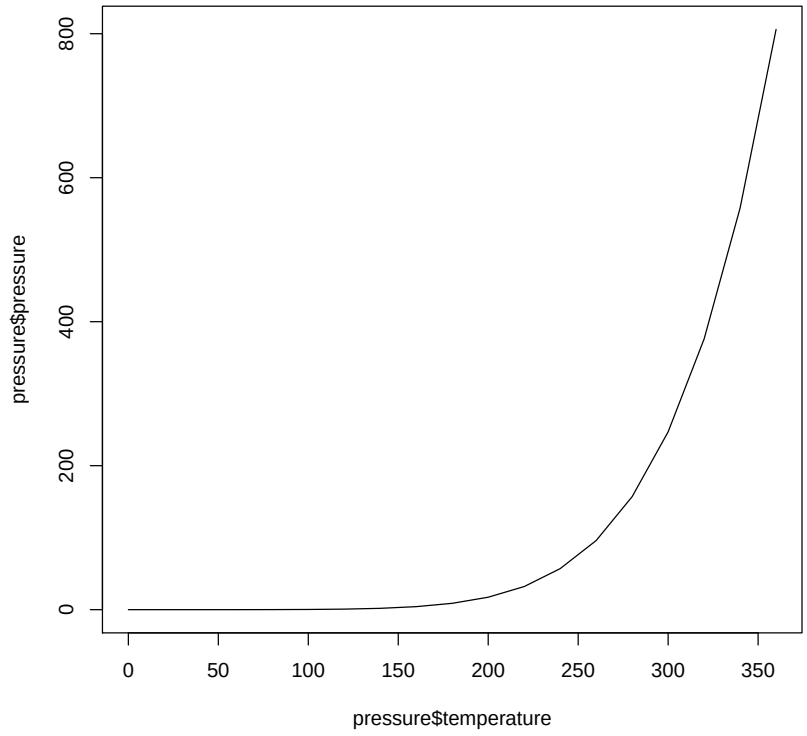
2. Load the ggplot2 package and produce the following plot with the mtcars dataset:

```
library(ggplot2)
qplot(mtcars$wt, mtcars$mpg)
```



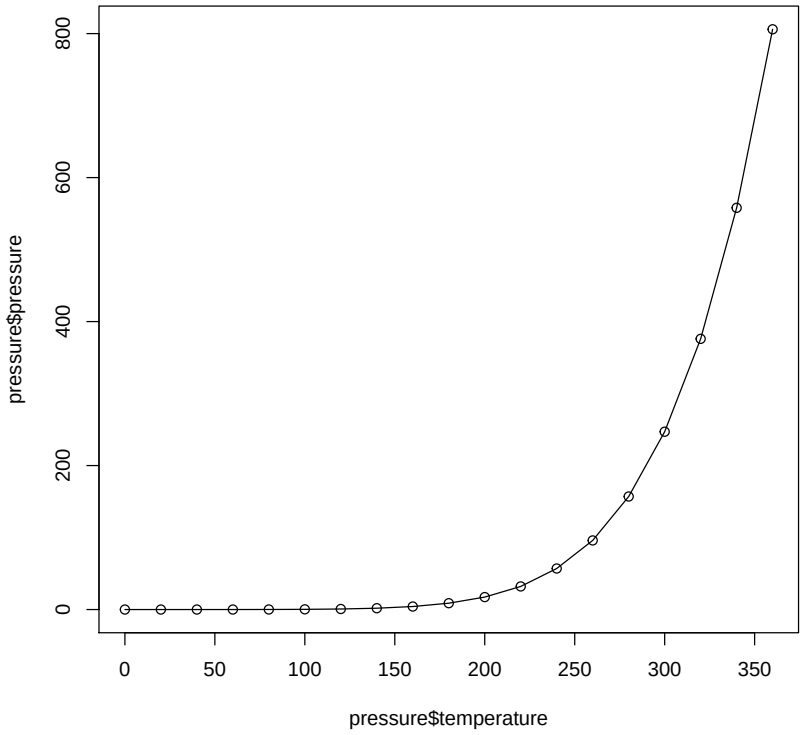
3. Produce the following plot with the pressure dataset. It's built into R so you do not need to load any packages:

```
plot(pressure$temperature, pressure$pressure, type = "l")
```



4. Produce the following plot. It's the same as the prior plot, but with points added:

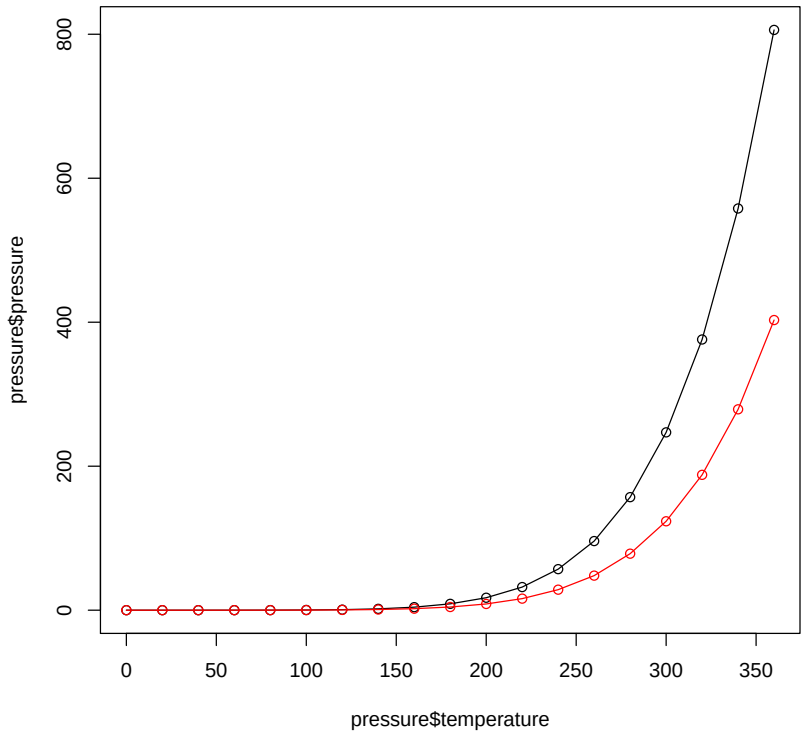
```
plot(pressure$temperature, pressure$pressure, type = "l")
points(pressure$temperature, pressure$pressure)
```

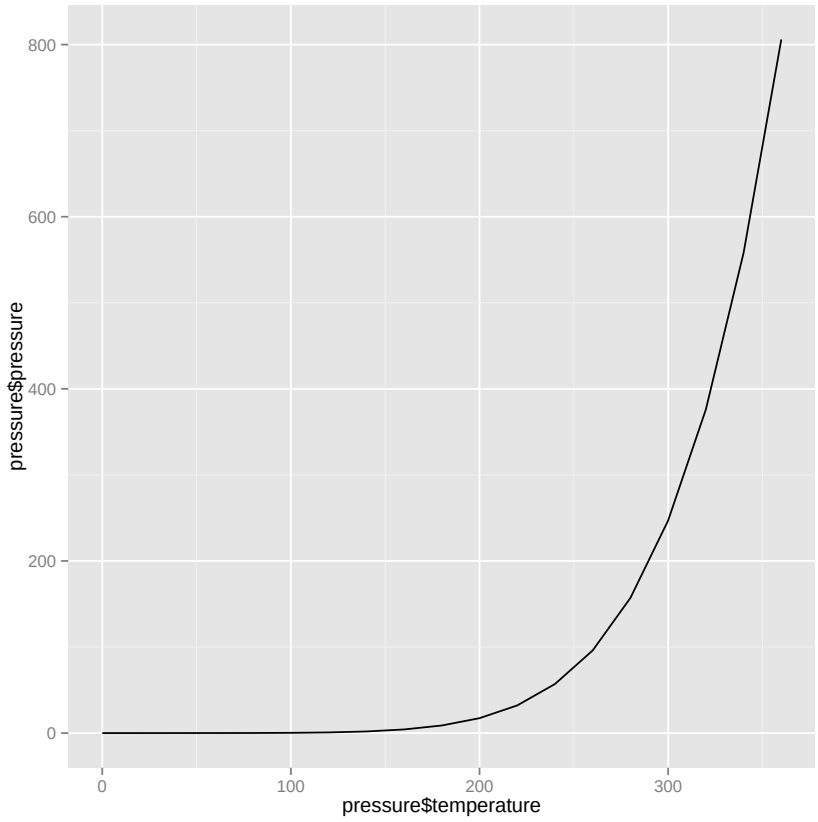


5. Produce the follwing plot. This is the same as the prior plot, but with another line with points added and coloured red:

```
plot(pressure$temperature, pressure$pressure, type = "l")
points(pressure$temperature, pressure$pressure)

lines(pressure$temperature, pressure$pressure/2, col = "red")
points(pressure$temperature, pressure$pressure/2, col = "red")
```



6. Load the ggplot2 package and produce the following plot with the pressure dataset:

```
library(ggplot2)
qplot(pressure$temperature, pressure$pressure, geom = "line")
```