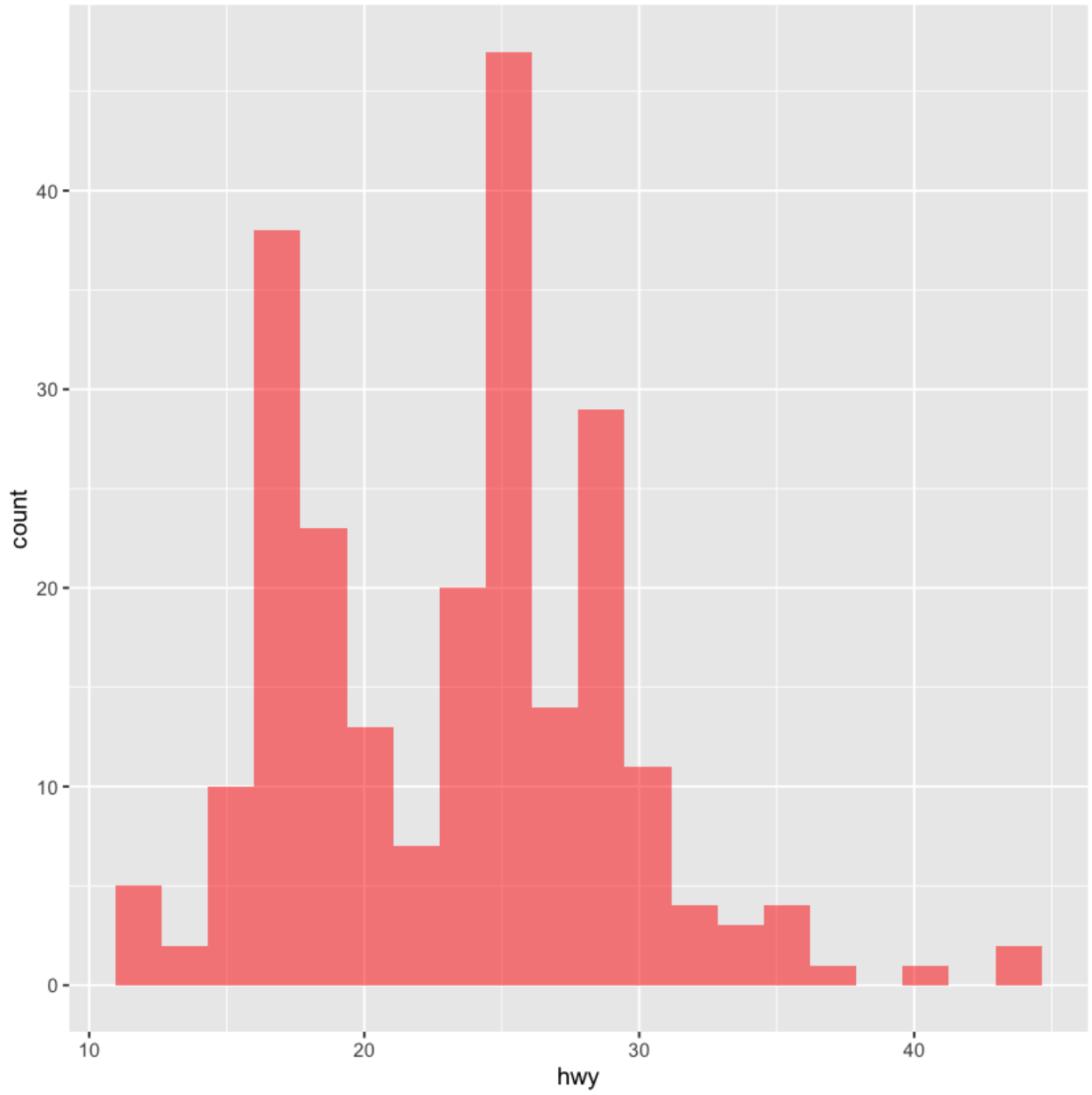
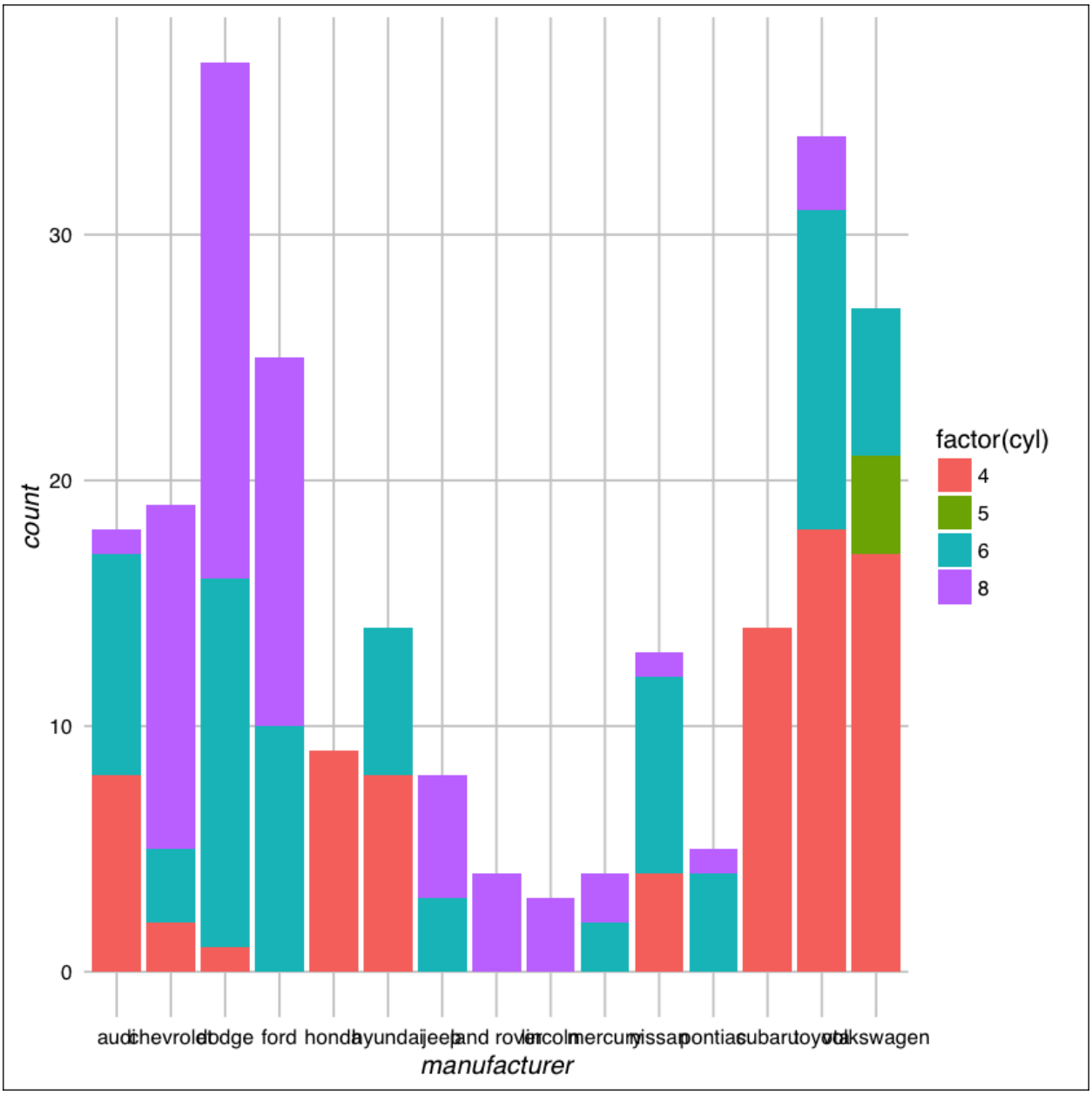
ggplot2 Exercises

```
library(ggplot2)
library(ggthemes)
head(mpg)

# EX01 Histogram of hwy mpg values:
pl <- ggplot(mpg,aes(x=hwy))
pl + geom_histogram(bins=20,fill='salmon',alpha=0.8)
```

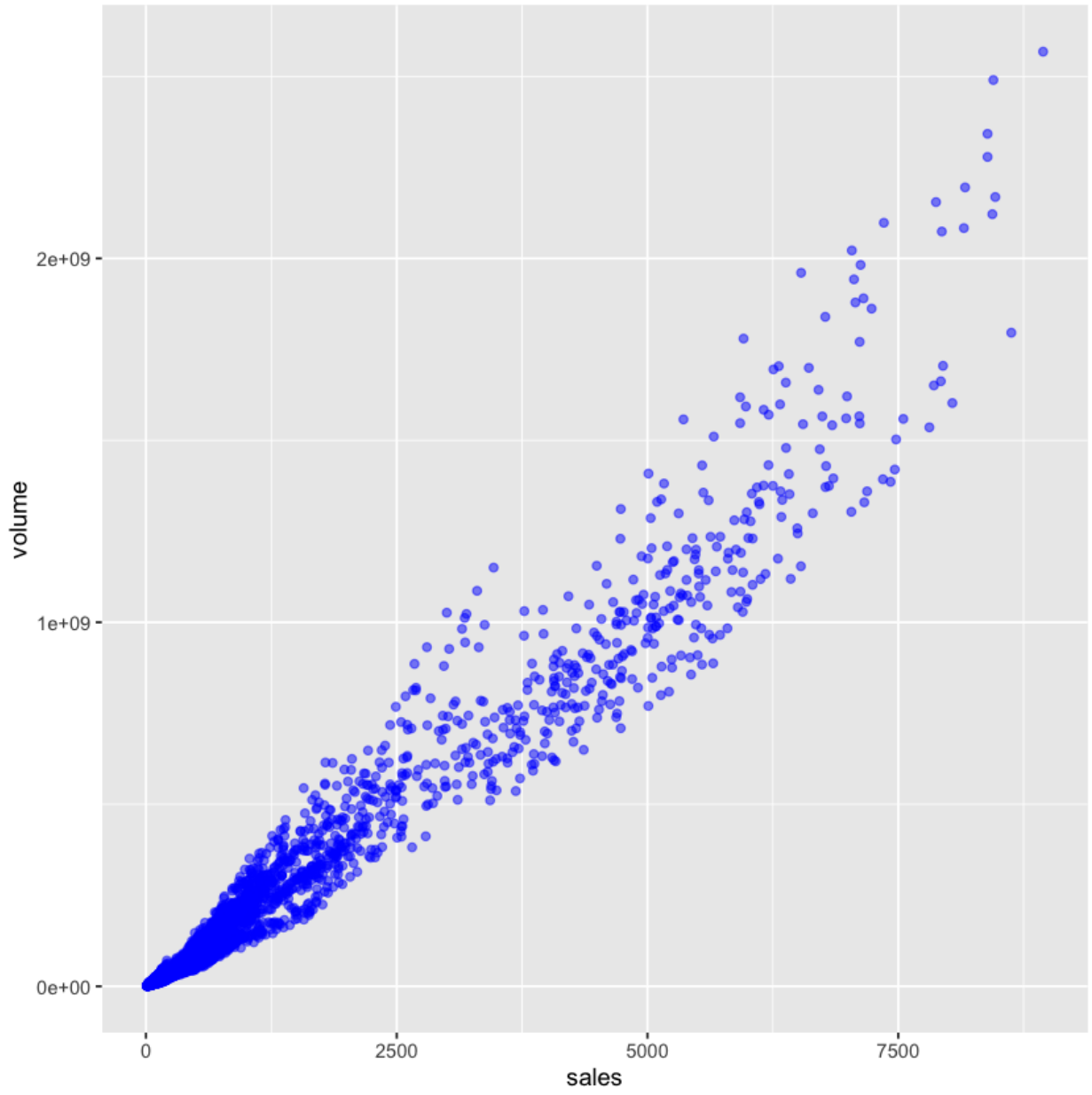



```
# EX02 Barplot of car counts per manufacturer with color fill defined by cyl count
pl <- ggplot(mpg, aes(y = manufacturer))
pl + geom_bar(aes(fill = factor(cyl))) + theme_gdocs()
# เราทำ cyl ให้เป็น factor เพื่อสร้างความเป็น order ให้กับมัน
```

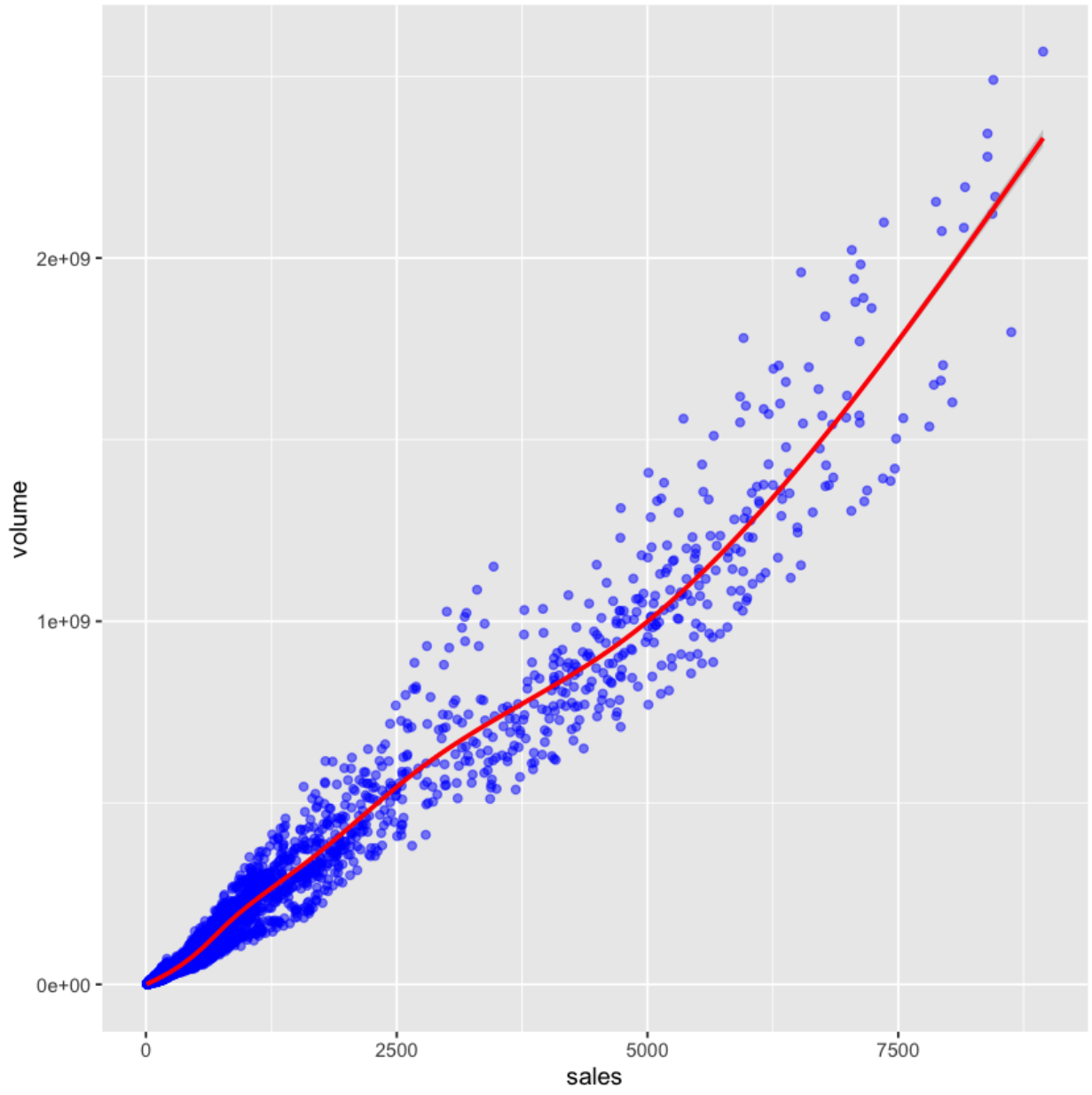



```
# -> Switch now to use the txhousing dataset that comes with ggplot2

# EX03 Create a scatterplot of volume versus sales.
# Afterwards play around with alpha and color arguments to clarify information.
df <- txhousing
pl <- ggplot(data=df,aes(x = volume,y= sales))
pl + geom_point(aes(color = sales),alpha=0.5)
```




```
# EX04 Add a smooth fit line to the scatterplot from above. Hint:
# You may need to look up geom_smooth()
pl <- ggplot(data=df,aes(x = volume,y= sales))
pl + geom_point(aes(color= sales),alpha=0.5) + geom_smooth(color='red')
```


volume
2e+09
1e+09
0e+00
0
2500
5000
7500
sales