

## 통계 그래픽스 HW #1 (3월11일까지 제출)

\* Use mpg data

1. Make a scatterplot of hwy vs cyl.
2. What happens if you make a scatterplot of class vs drv. Why is the plot not useful?
3. What's gone wrong with this code? Why are the points not blue?

```
ggplot(data = mpg) +  
  geom_point(mapping = aes(x = displ, y = hwy, color = "blue"))
```

4. What plots does the following code make? What does `` do?

```
ggplot(data = mpg) +  
  geom_point(mapping = aes(x = displ, y = hwy)) + facet_grid(drv ~ .)  
ggplot(data = mpg) +  
  geom_point(mapping = aes(x = displ, y = hwy)) + facet_grid(. ~ cyl)
```

5. Will these two graphs look different? Why/why not?

```
ggplot(data = mpg, mapping = aes(x = displ, y = hwy)) +  
  geom_point() + geom_smooth()  
ggplot() +  
  geom_point(data = mpg, mapping = aes(x = displ, y = hwy)) +  
  geom_smooth(data = mpg, mapping = aes(x = displ, y = hwy))
```

6. Recreate the R code necessary to generate the following graphs.

