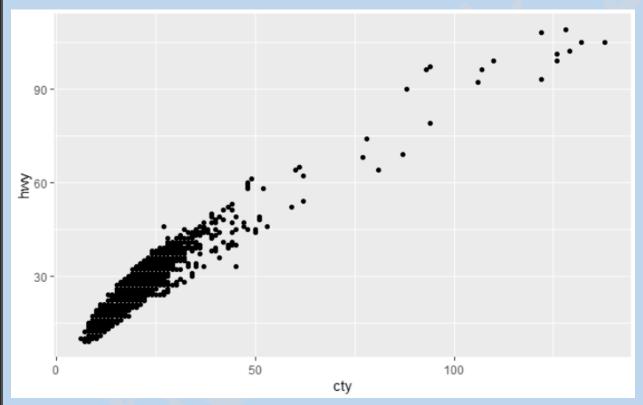
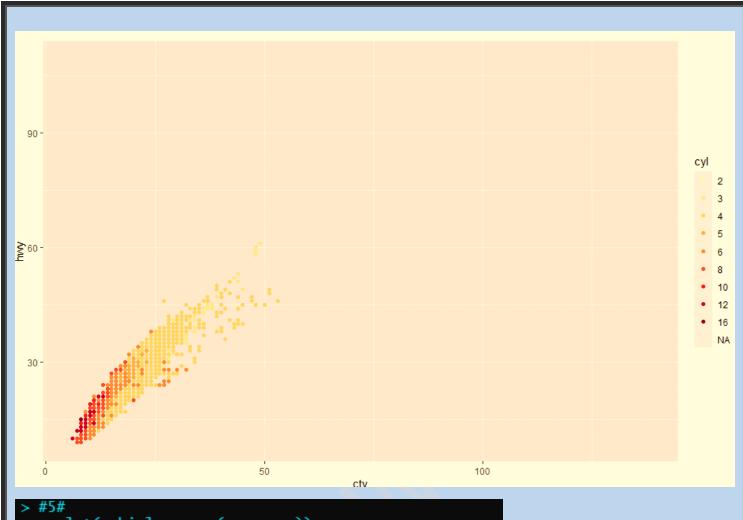
In the name of GOD

Chapter 1

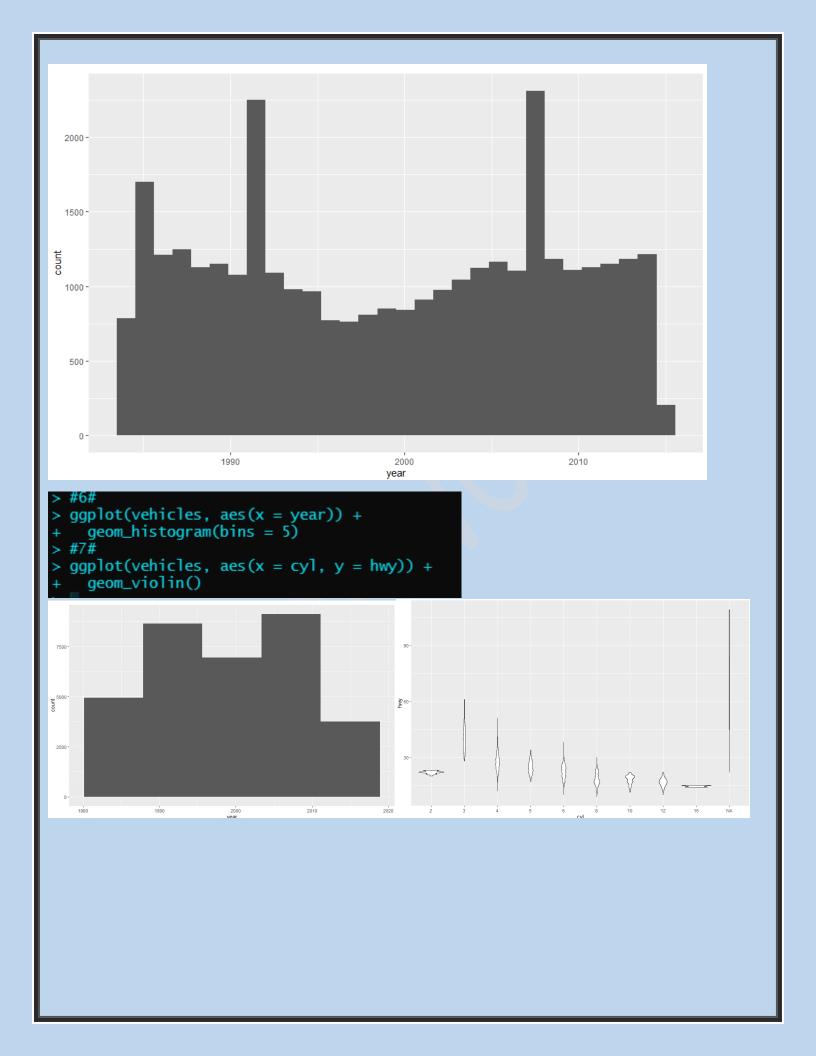
```
> #1#
> library(ggplot2)
> library(fueleconomy)
> data(vehicles)
> #2#
> ggplot(vehicles, aes(x = cty, y = hwy)) +
+ geom_point()
```



```
> #3#
> vehicles$cyl <- factor(vehicles$cyl)
> #4#
> ggplot(vehicles, aes(x = cty, y = hwy, col = cyl)) +
+ geom_point() +
+ scale_color_brewer(palette = "YlOrRd")
Warning message:
Removed 58 rows containing missing values (geom_point).
```

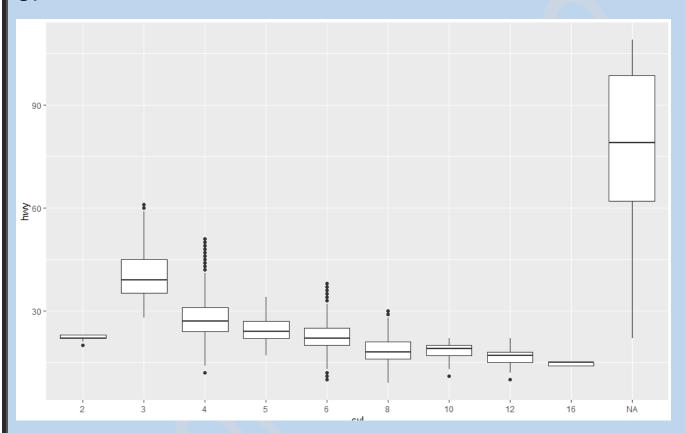


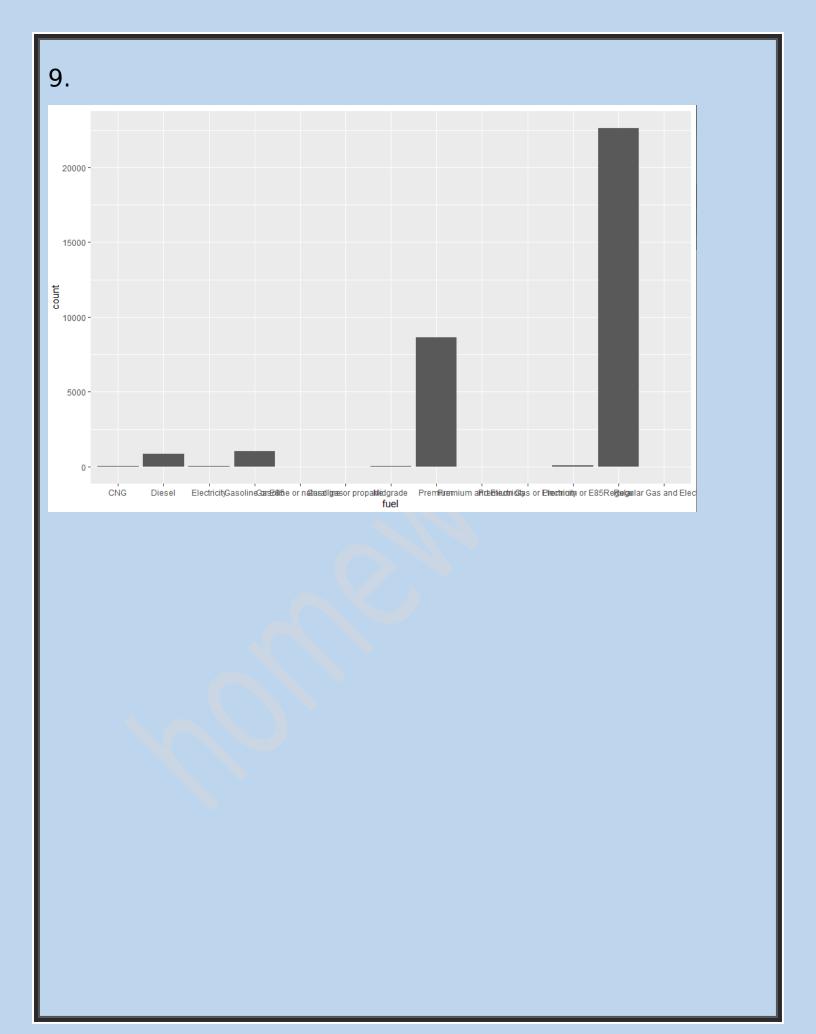
```
> #5#
> ggplot(vehicles, aes(x = year)) +
+   geom_histogram()
`stat_bin()` using `bins = 30`. Pick better value with
`binwidth`.
```



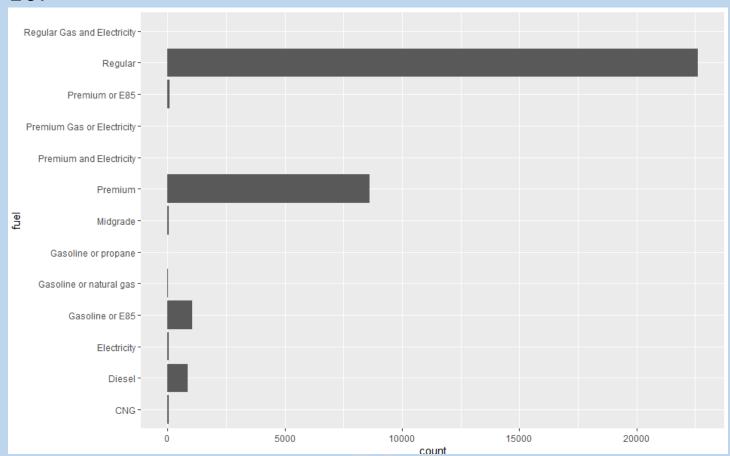
```
> #8#
> ggplot(vehicles, aes(x = cyl, y = hwy)) +
+ geom_boxplot()
> #9#
> ggplot(vehicles, aes(x = fuel)) +
+ geom_bar()
> #10#
> ggplot(vehicles, aes(x = fuel)) +
+ geom_bar() +
+ coord_flip()
```

8.

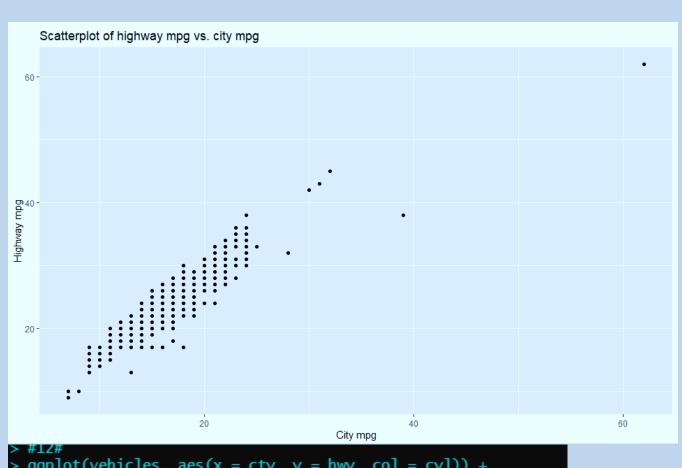




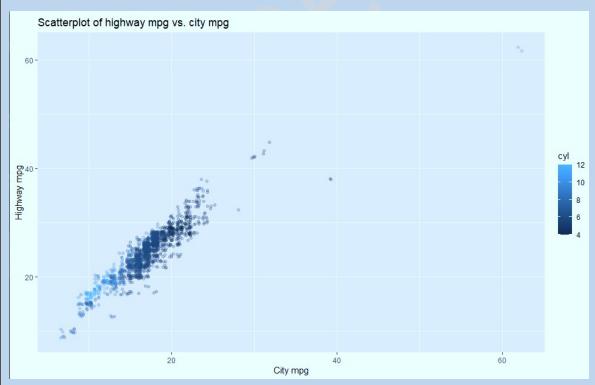




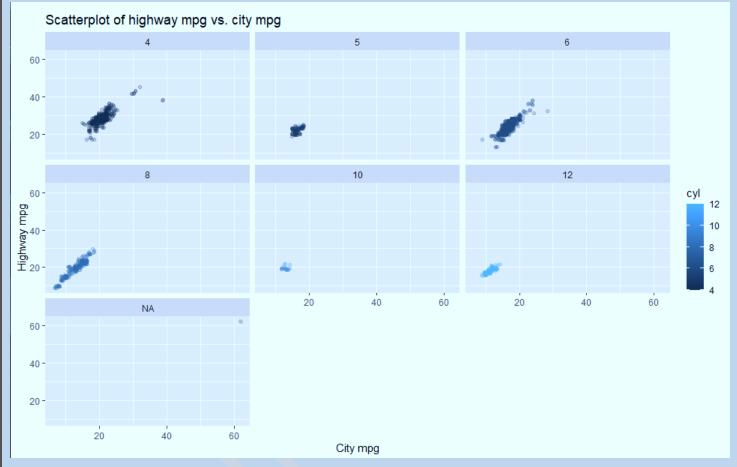
Chapter 2



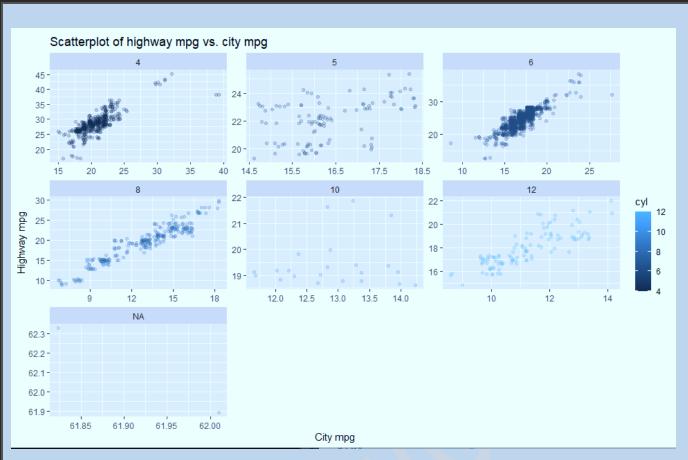
```
> #12#
> ggplot(vehicles, aes(x = cty, y = hwy, col = cyl)) +
+ geom_jitter(alpha = 0.2) +
+ labs(title = "Scatterplot of highway mpg vs. city mpg", x
+ = "City mpg",
+ y = "Highway mpg")
```

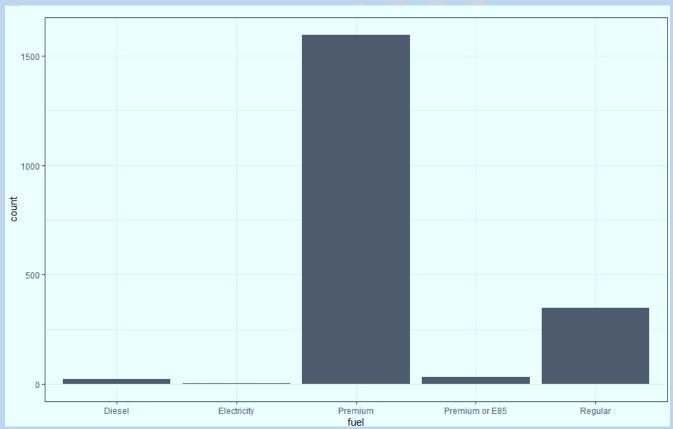


```
> #13#
> ggplot(vehicles, aes(x = cty, y = hwy, col = cyl)) +
+ geom_jitter(alpha = 0.2) +
+ labs(title = "Scatterplot of highway mpg vs. city mpg", x
+ = "City mpg",
+ y = "Highway mpg") +
+ facet_wrap(~ cyl)
```



```
> #14#
> ggplot(vehicles, aes(x = cty, y = hwy, col = cyl)) +
+ geom_jitter(alpha = 0.2) +
+ labs(title = "Scatterplot of highway mpg vs. city mpg", x
+ = "City mpg",
+ y = "Highway mpg") +
+ facet_wrap(~ cyl, scales = "free")
> #14-second #
> ggplot(vehicles, aes(x = fuel)) +
+ geom_bar() +
+ theme_bw()
```





Finish