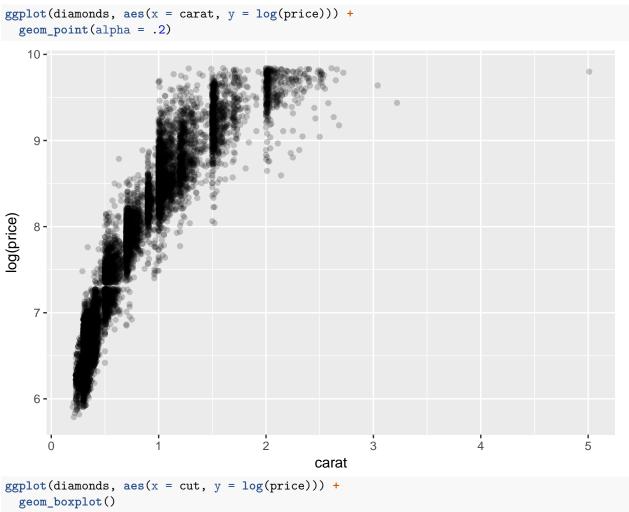
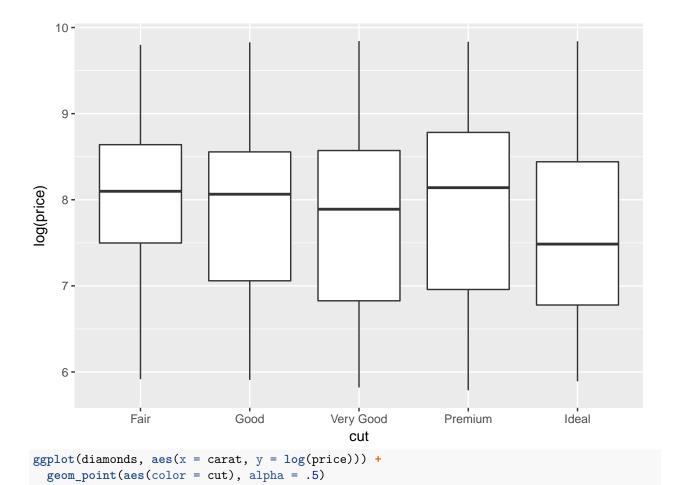
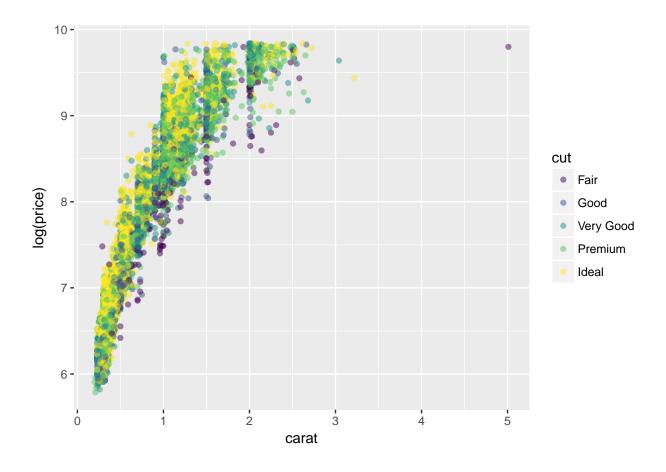
## From Visualization to Modeling

The diamonds data set contains observations of over 50,000 diamonds. In the following, we focus on a sample of 10,000 diamonds and the relationship between their log(price), their carat (size), and their cut (quality of the diamond). Look carefully at the following graphics and summarize the relationship that you see in a single sentence. Note that the last two plots are two ways to view the same variables, form a single sentence for both plots.







```
ggplot(diamonds, aes(x = carat, y = log(price))) +
geom_point(alpha = .2) +
facet_wrap(~cut, nrow = 1)
```

