

# Data Analysis with R

## Problem Set 3

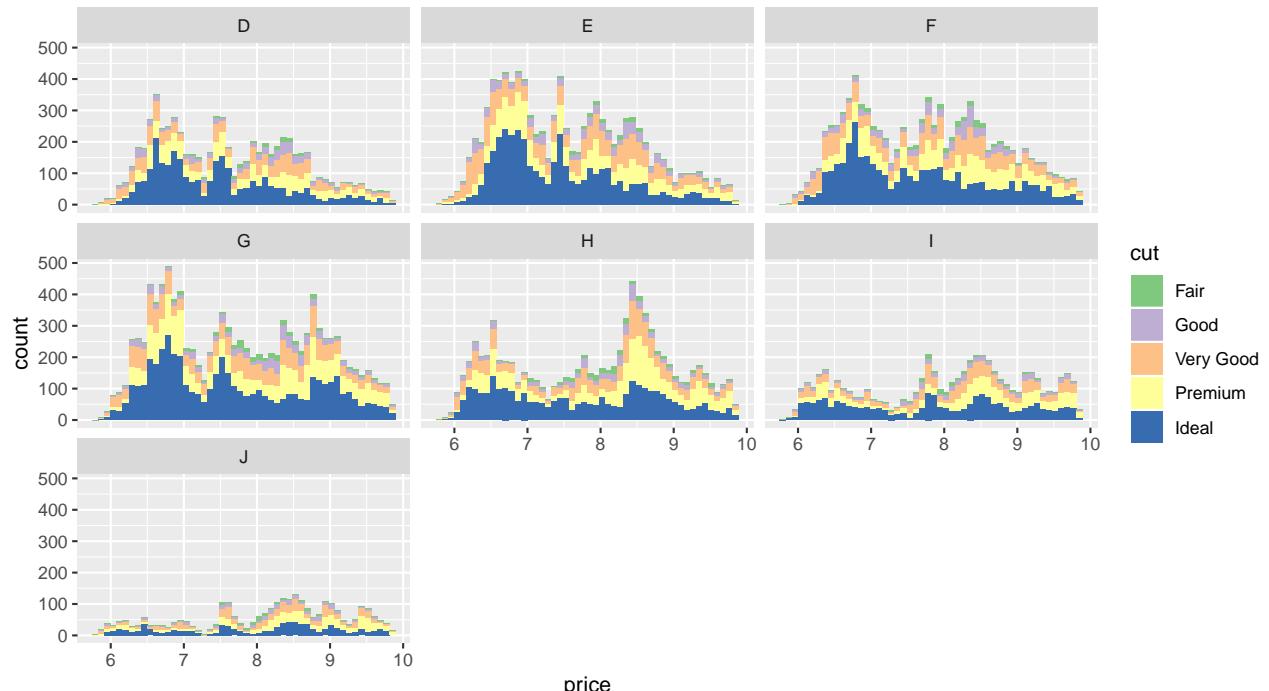
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```
library(tidyverse)
data("diamonds")
head(diamonds)

## # A tibble: 6 x 10
##   carat cut      color clarity depth table price     x     y     z
##   <dbl> <ord>    <ord> <ord>   <dbl> <dbl> <int> <dbl> <dbl> <dbl>
## 1 0.23 Ideal     E     SI2     61.5    55  326  3.95  3.98  2.43
## 2 0.21 Premium   E     SI1     59.8    61  326  3.89  3.84  2.31
## 3 0.23 Good      E     VS1     56.9    65  327  4.05  4.07  2.31
## 4 0.290 Premium  I     VS2     62.4    58  334  4.2    4.23  2.63
## 5 0.31 Good      J     SI2     63.3    58  335  4.34  4.35  2.75
## 6 0.24 Very Good J     VVS2    62.8    57  336  3.94  3.96  2.48

ggplot(data = diamonds, mapping = aes(x = log(price), fill = cut)) +
  geom_histogram(bins = 50) + facet_wrap(~color, nrow = 3) +
  scale_fill_brewer(type = 'qual') + xlab('price')
```



```
ggplot(data = diamonds, mapping = aes(x = table, y = price)) +
  scale_fill_brewer(type = 'qual') +
  geom_point(mapping = aes(color = cut))
```

