

# Análisis y Tratamiento de Datos con R: Departamento de Matemática

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27 octubre de 2017

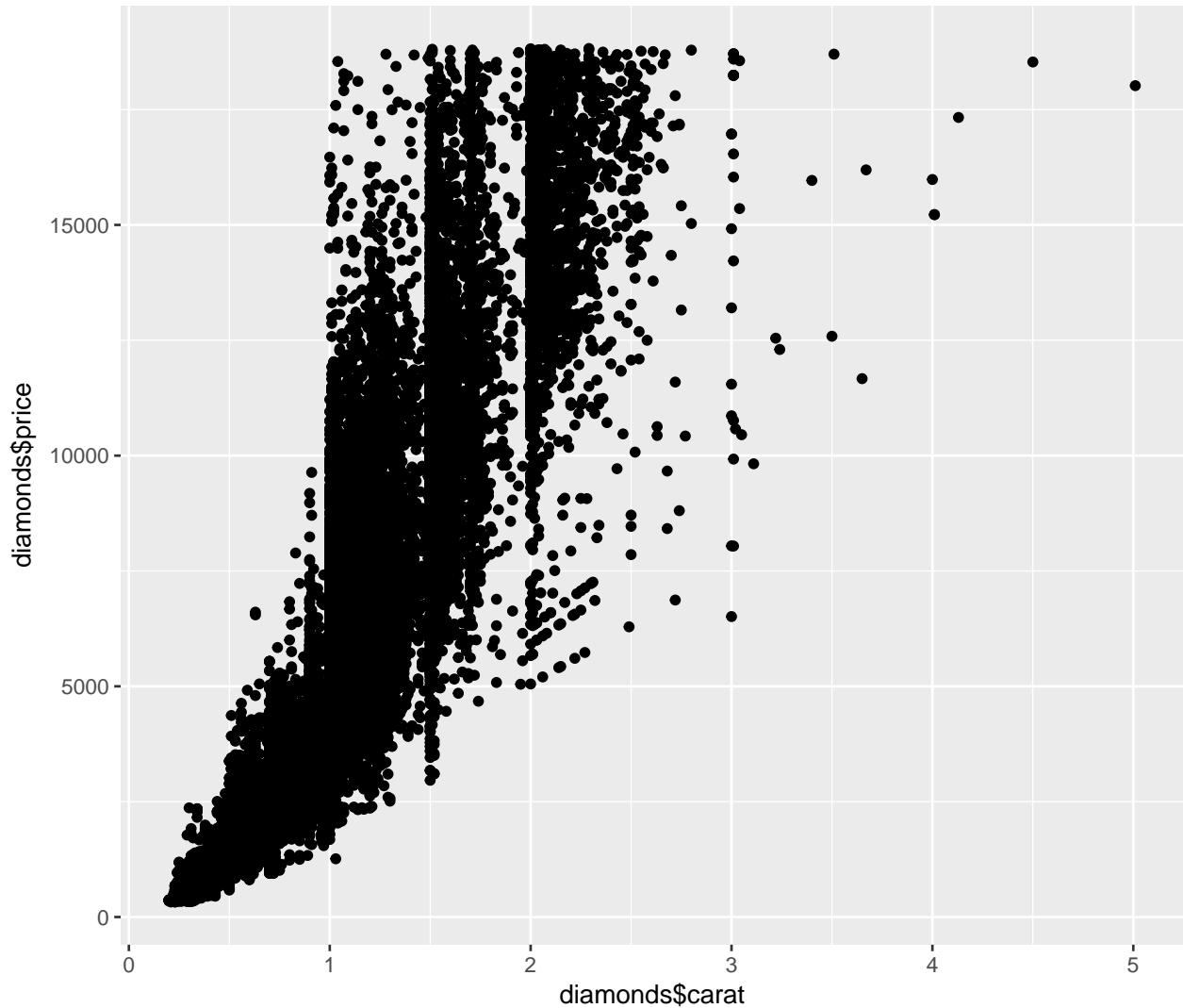
```
library(ggplot2)
```

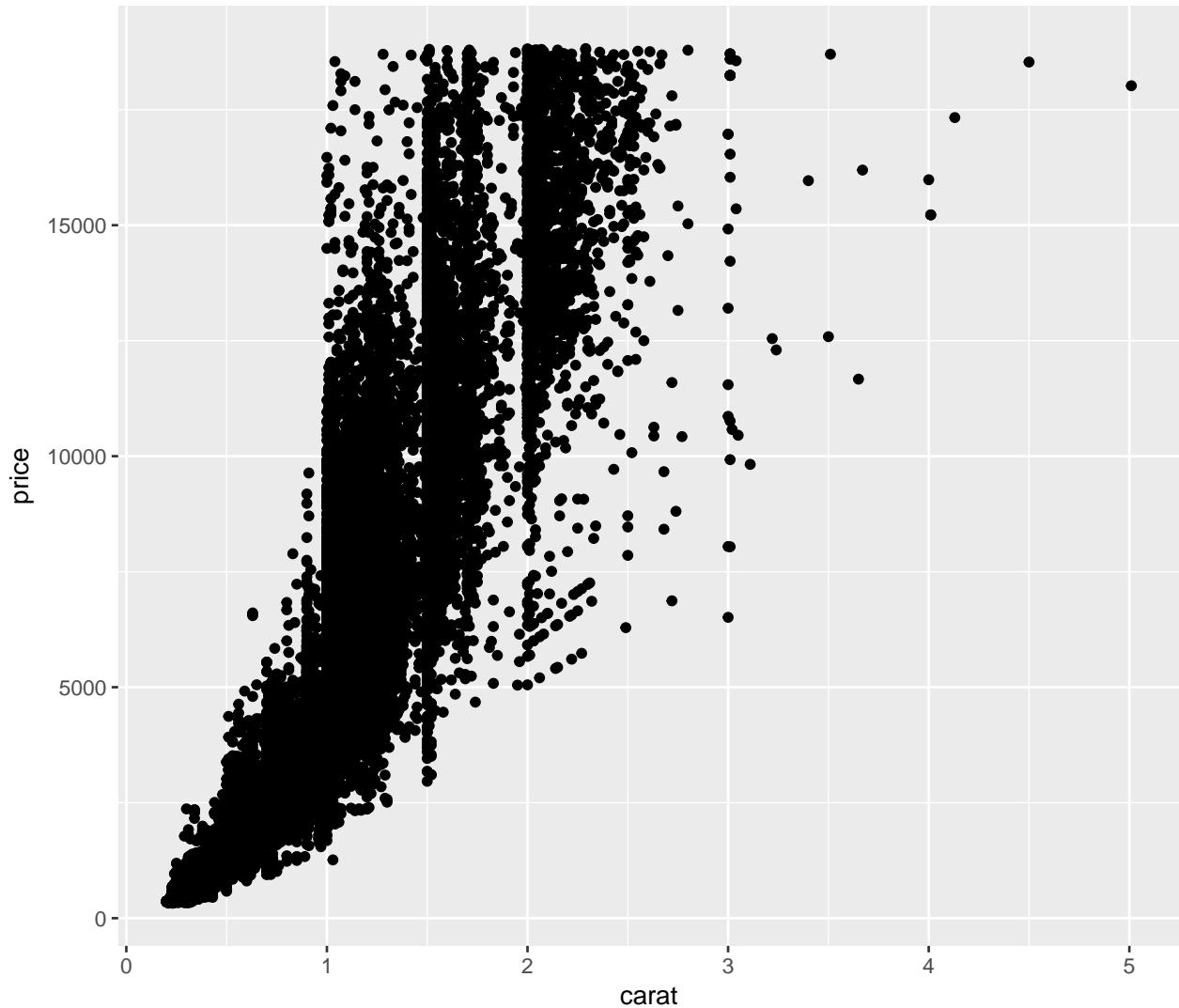
```
ggplot2
```

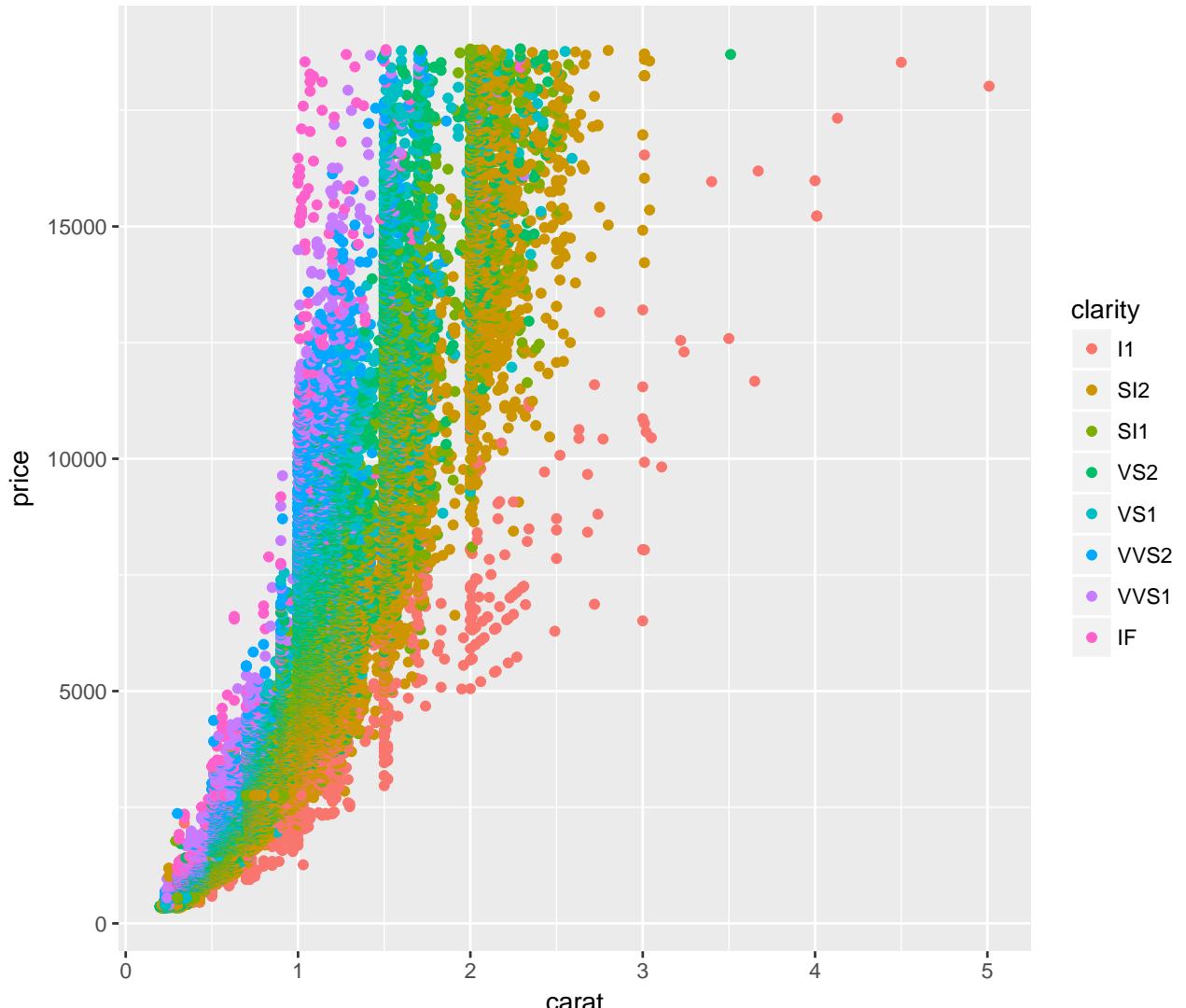
```
qplot(diamonds$carat, diamonds$price)
```

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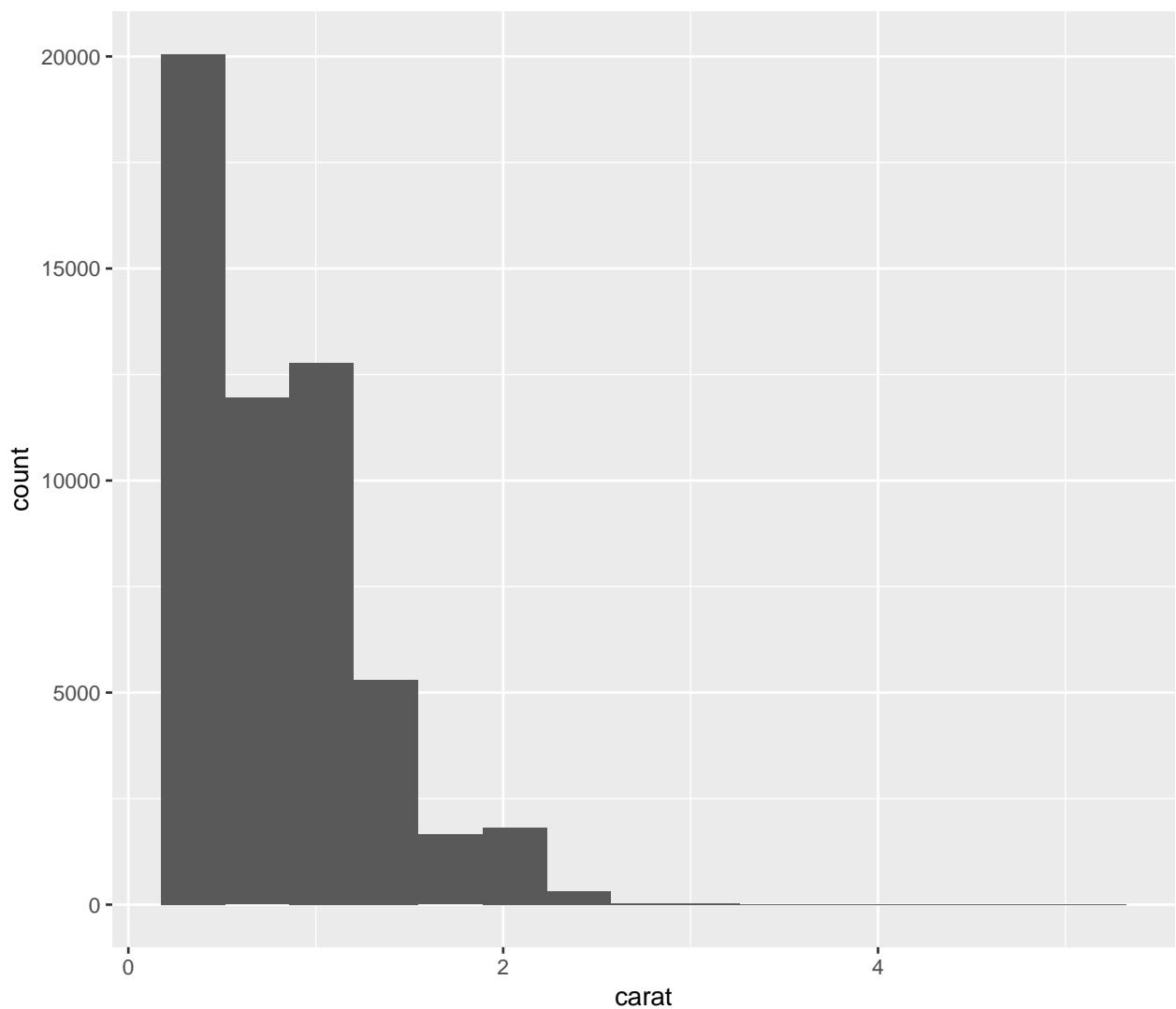
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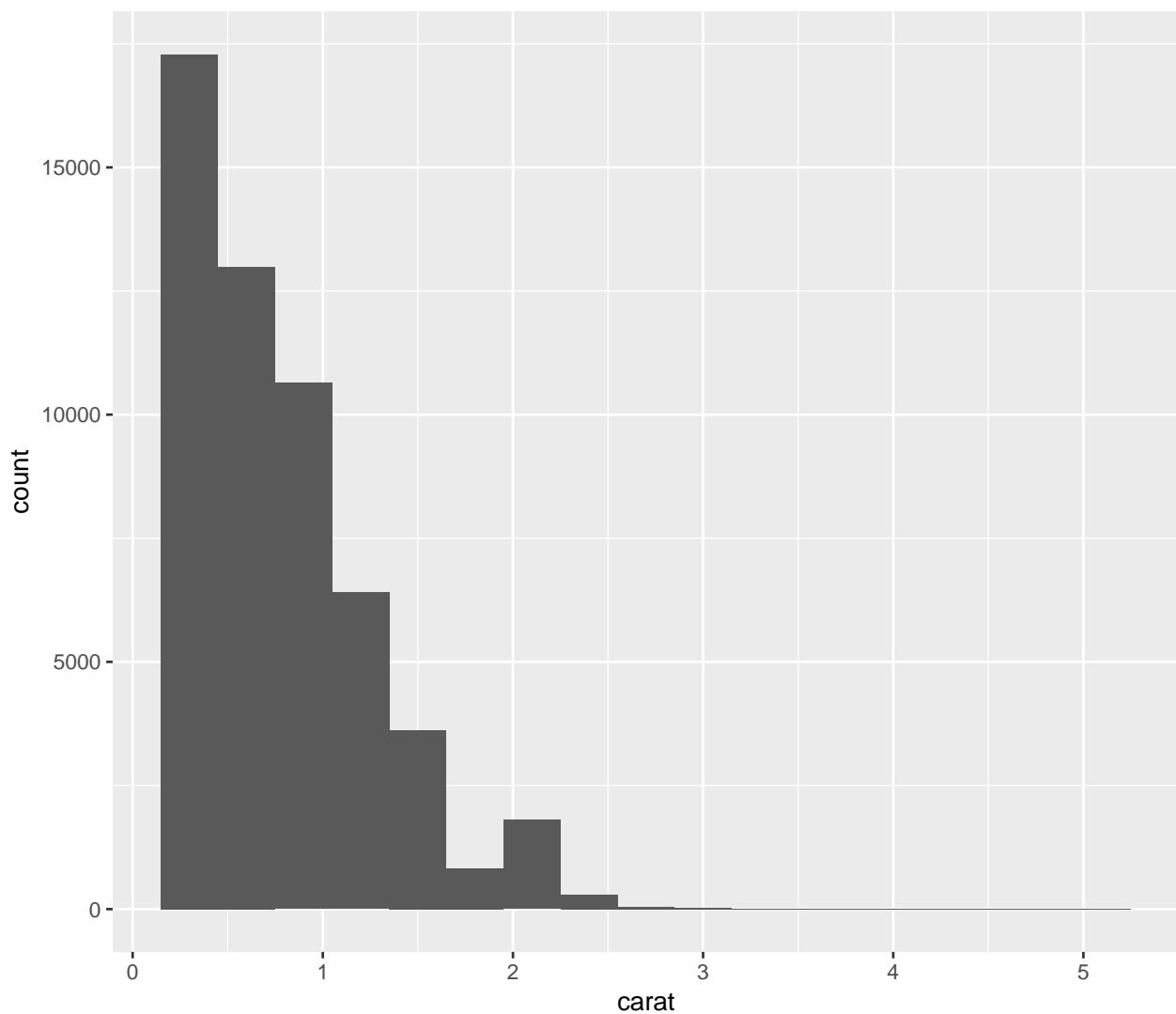




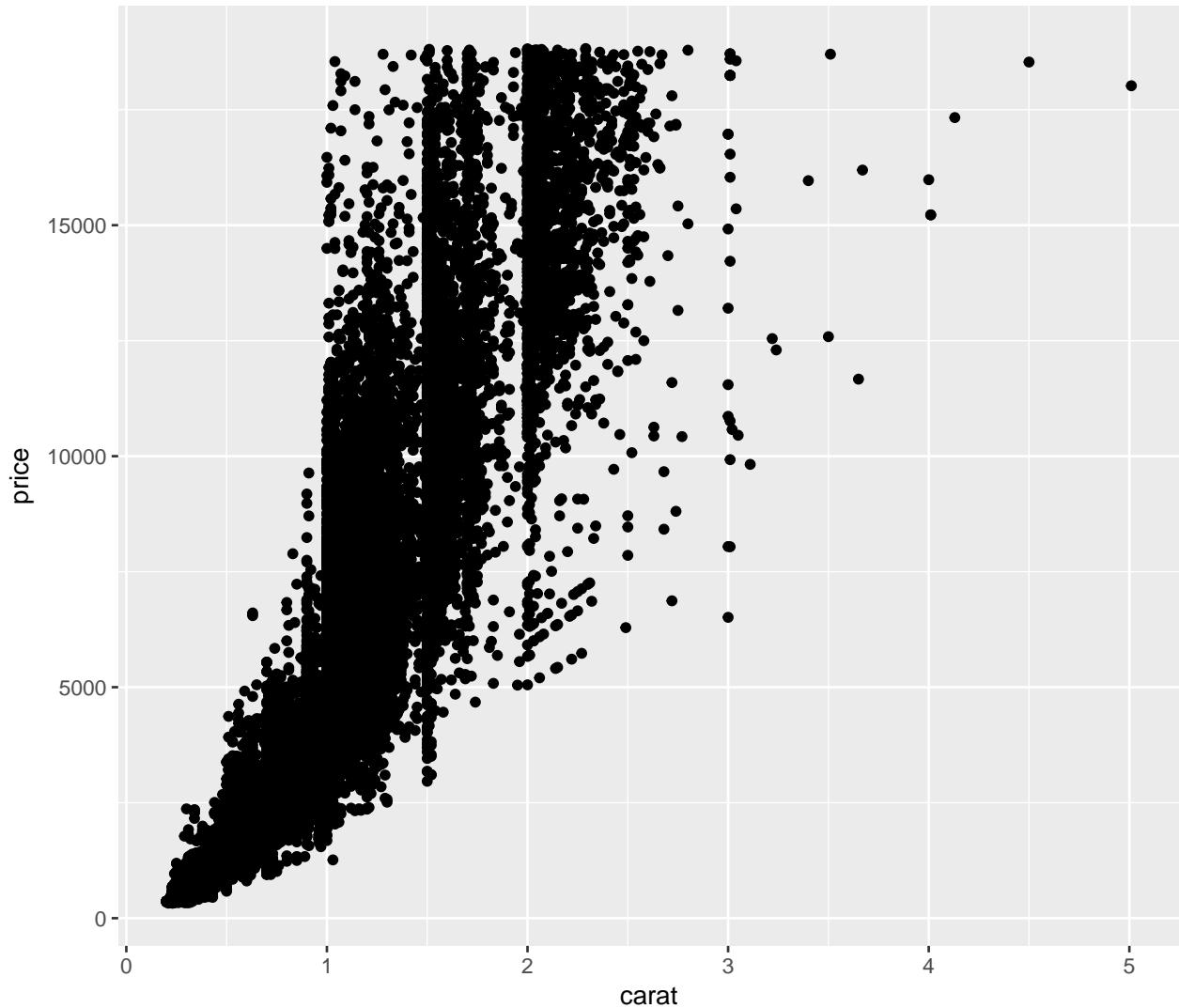
```
#qplot(carat, price, data = diamonds,
#      geom=c("point", "smooth"), method=lm)
qplot(carat, data = diamonds,
      geom="histogram", bins =15)
```

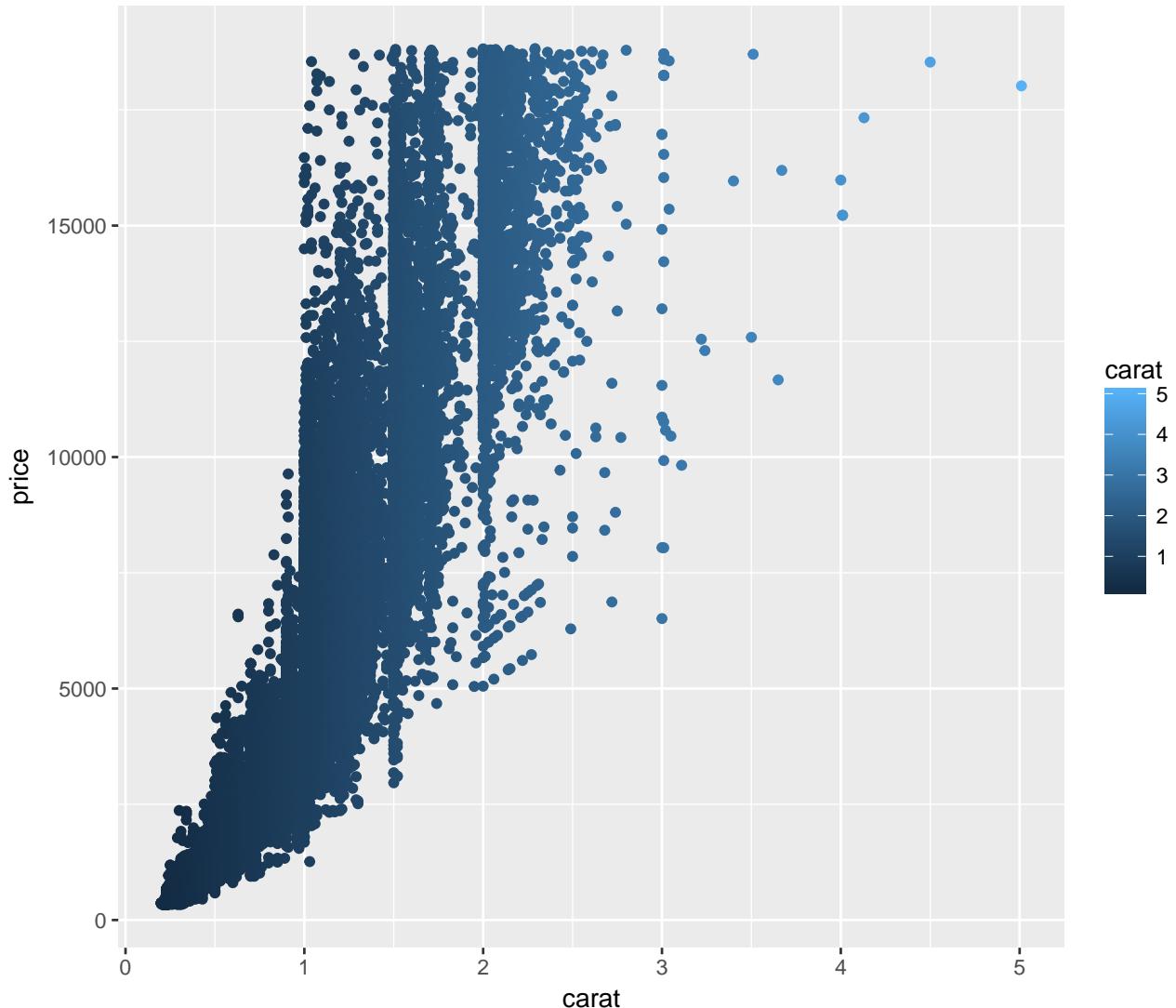


```
qplot(carat, data = diamonds,  
      geom="histogram", binwidth = 0.3)
```

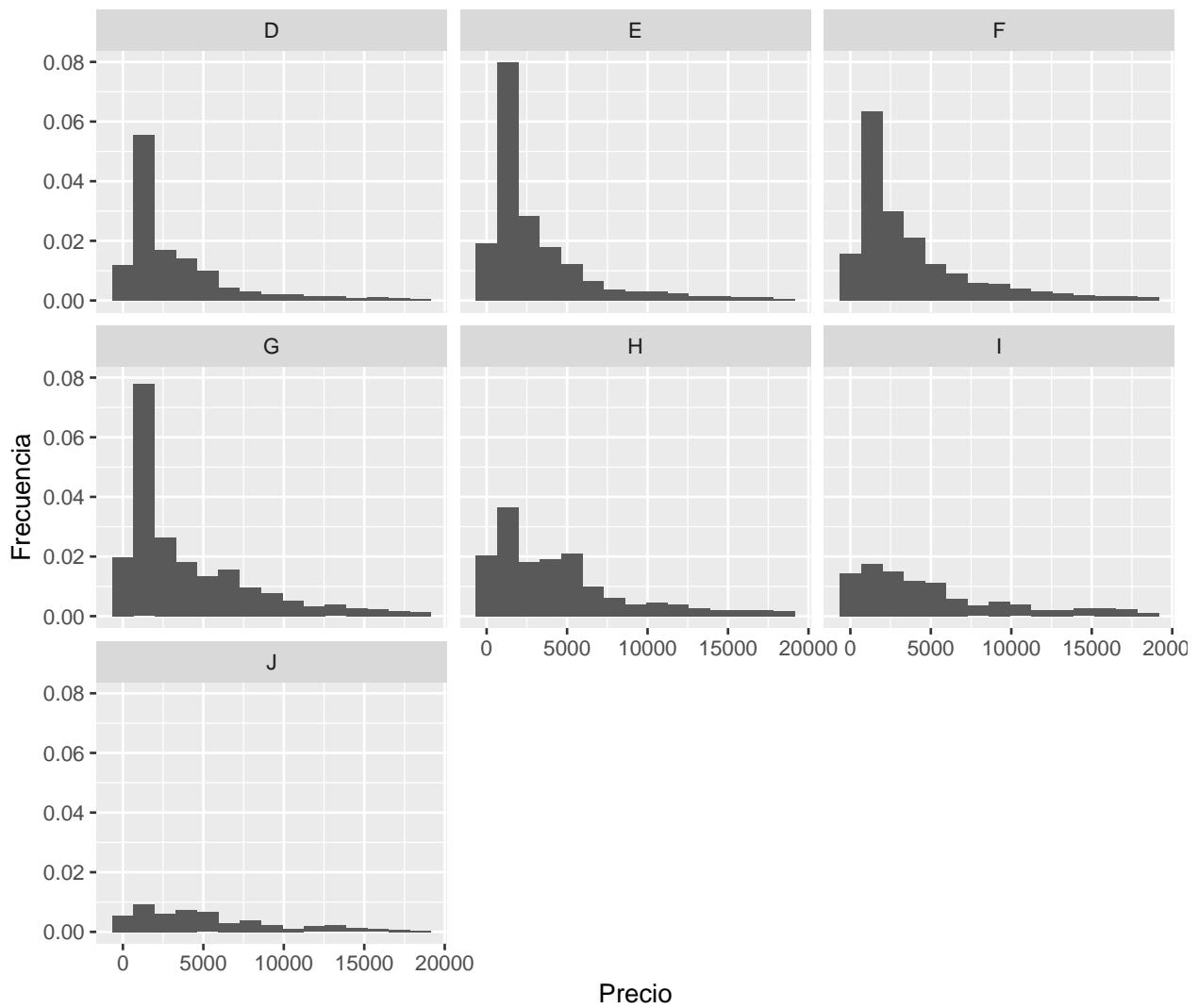


```
d <- ggplot(diamonds,
             aes(x=carat, y=price))
d + geom_point()
```

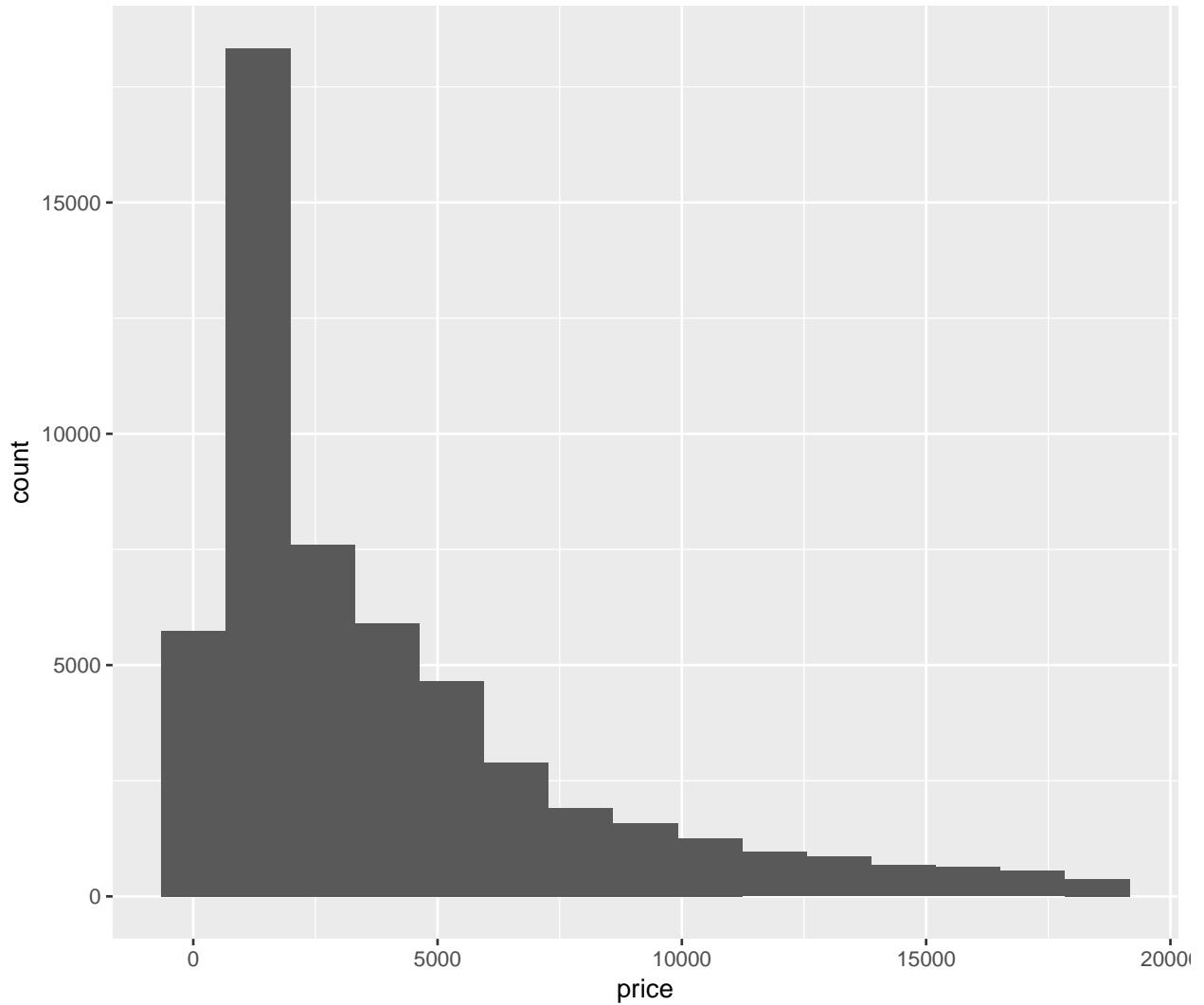




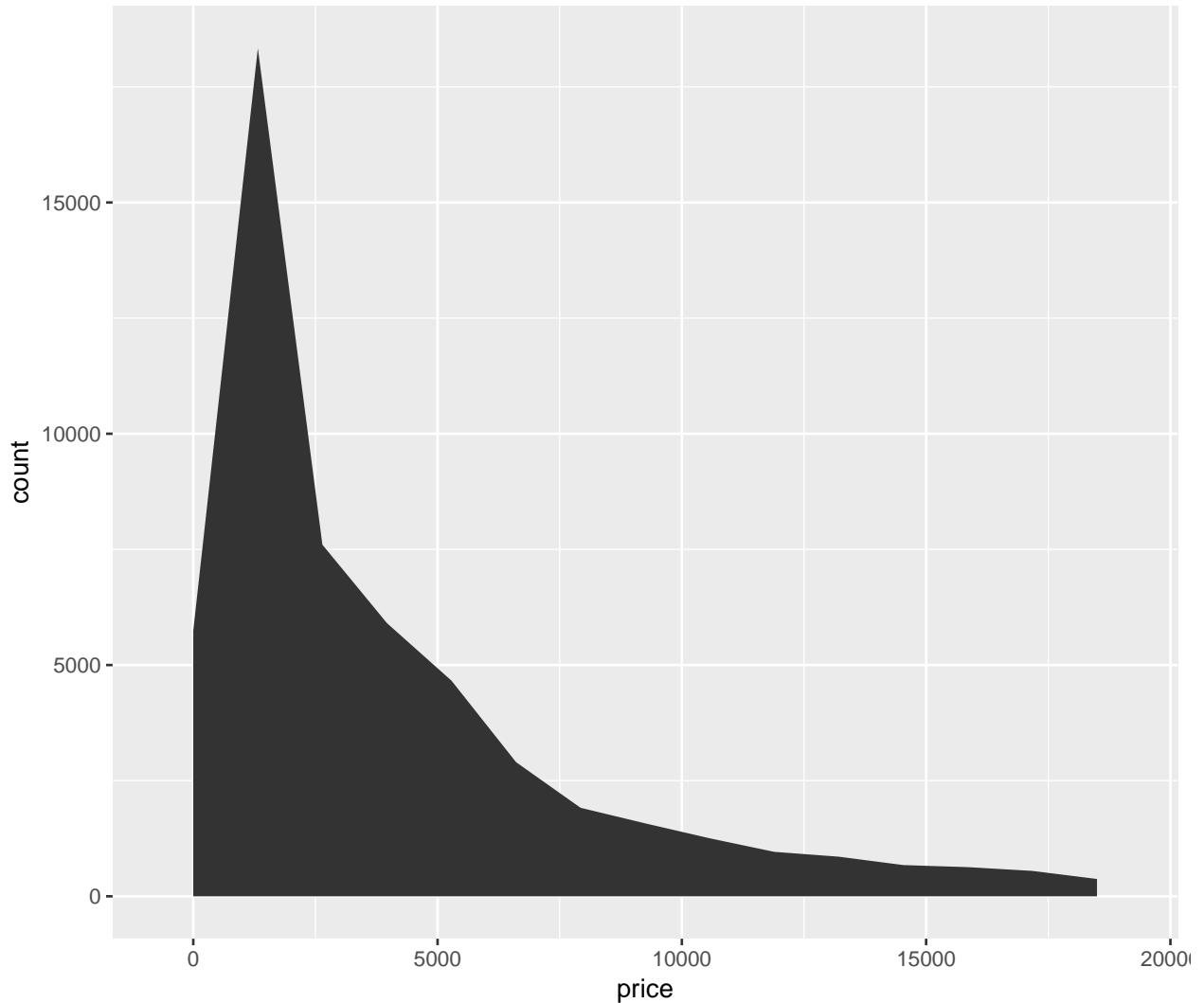
```
ggplot(diamonds, aes(x = price)) +  
  geom_histogram(aes(y=..count../sum(..count..)), bins = 15) +  
  labs(y="Frecuencia",  
       x="Precio") +  
  facet_wrap(~ color)
```



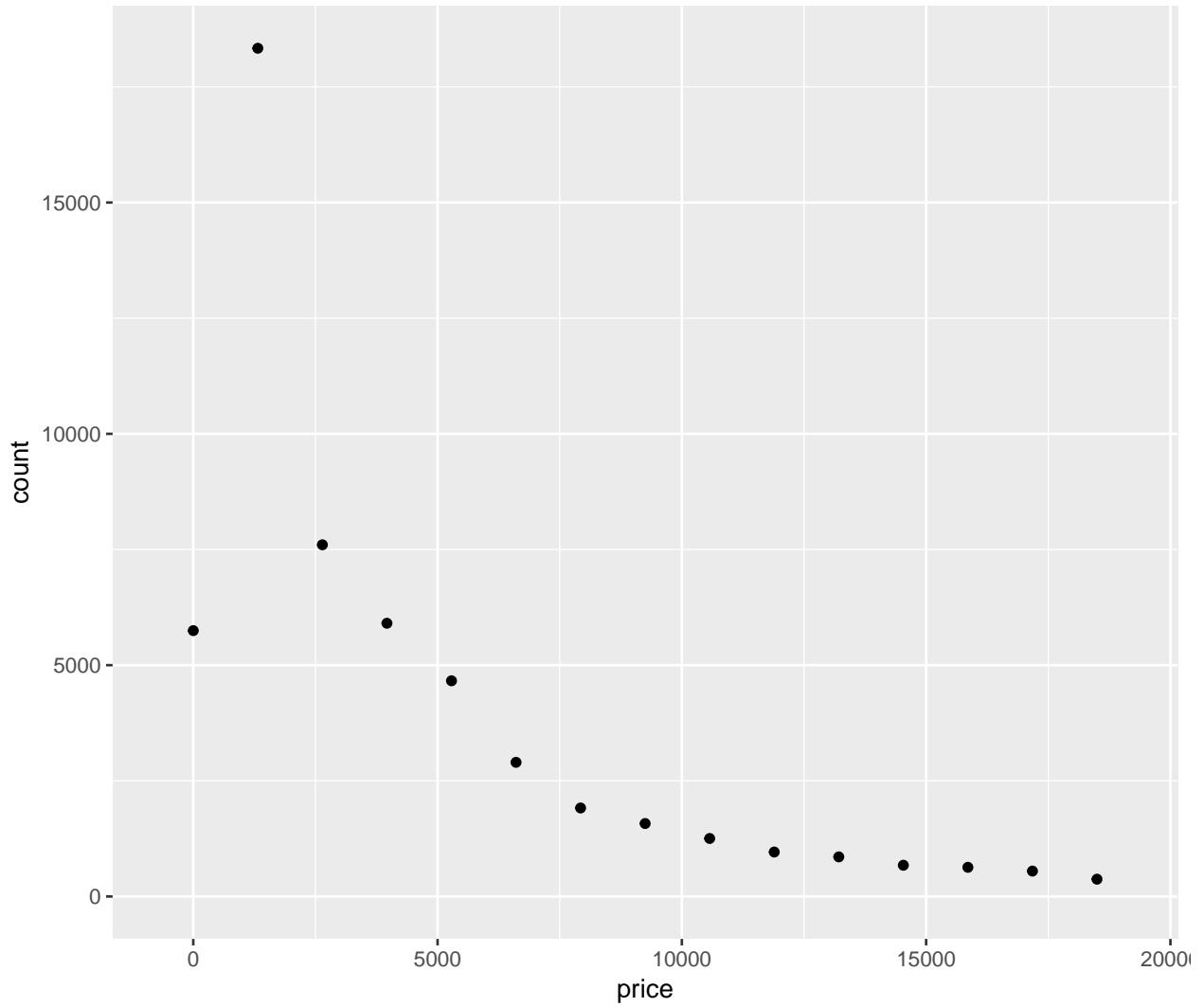
```
p <- ggplot(diamonds, aes(x=price))  
p + geom_histogram(bins = 15)
```



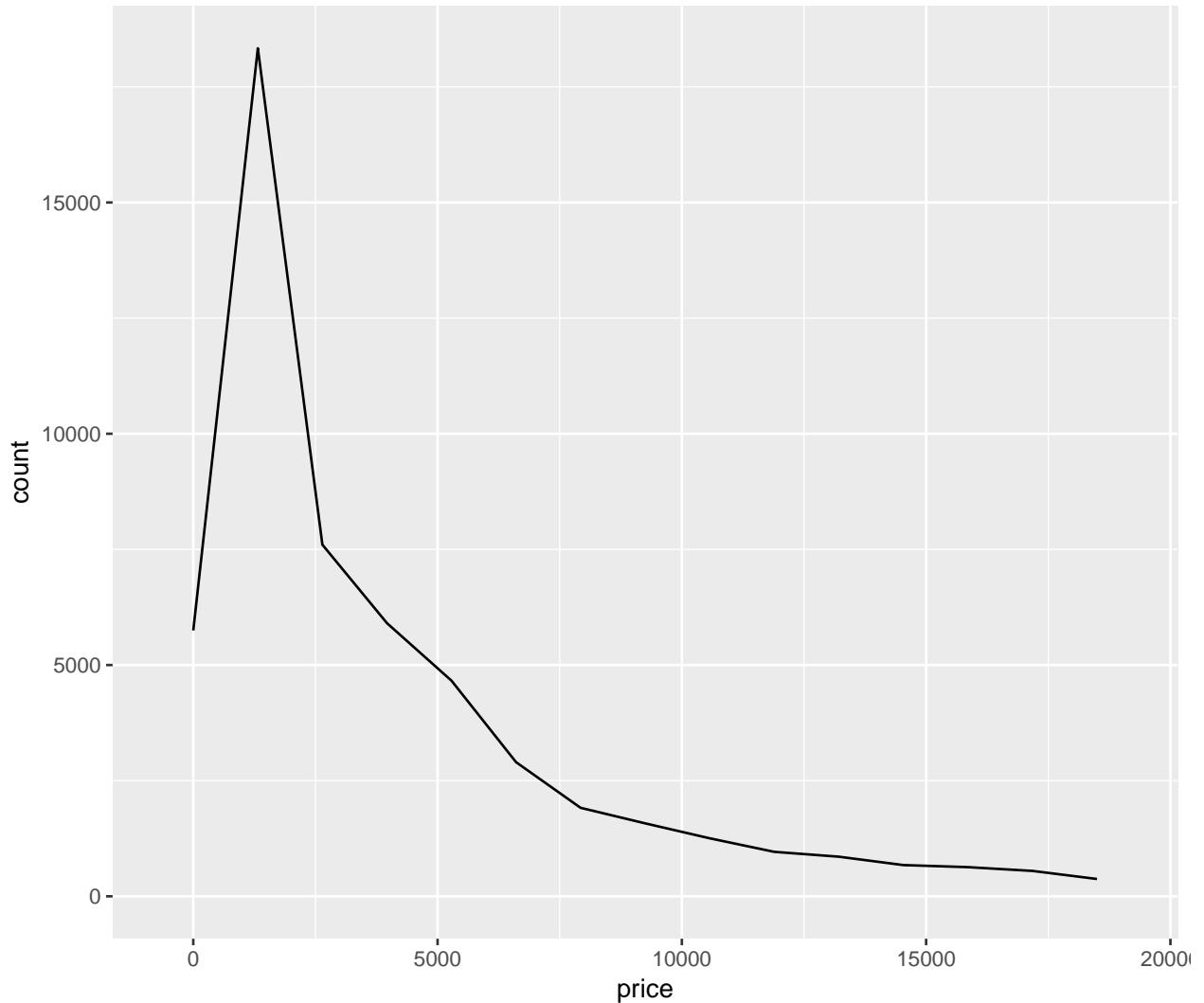
```
p + stat_bin(geom="area", bins = 15)
```



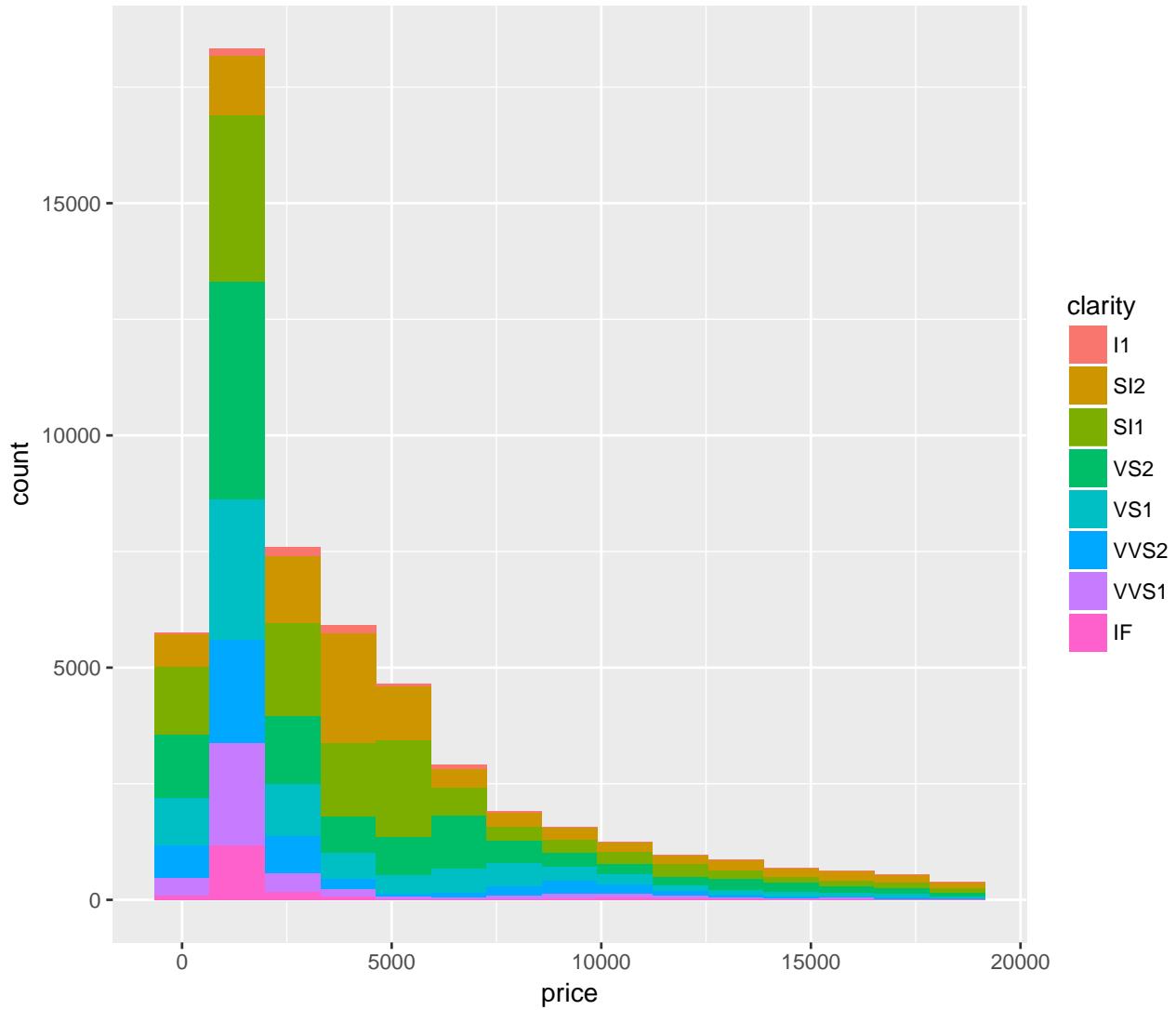
```
p + stat_bin(geom="point", bins = 15)
```

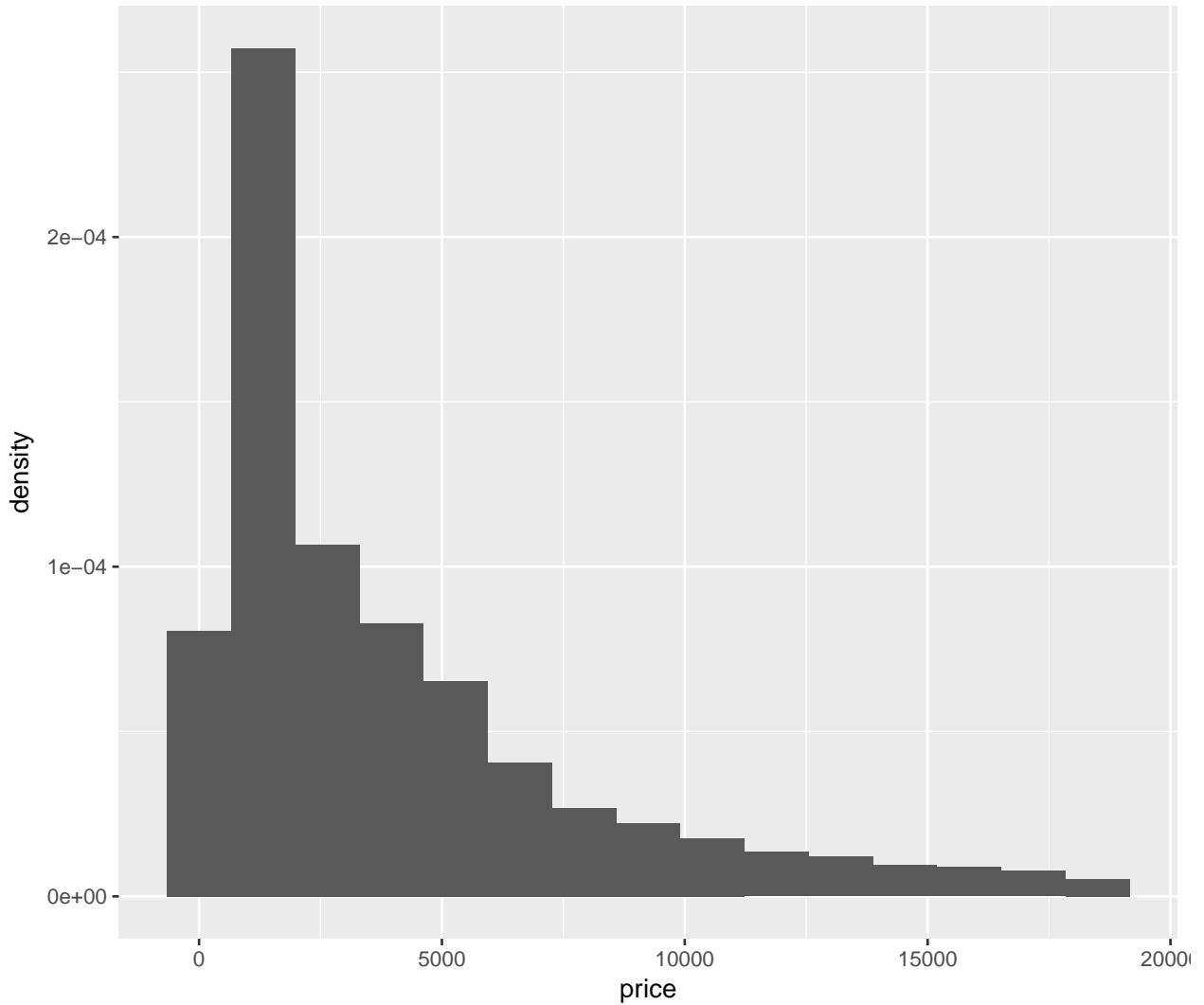


```
p + stat_bin(geom="line", bins = 15)
```



```
p + geom_histogram(aes(fill = clarity), bins = 15)
```





```
chols <- read.table(url("http://assets.datacamp.com/blog_assets/chol.txt"), header = TRUE)

theme_update(plot.title = element_text(hjust = 0.5))

ggplot(data=chols, aes(AGE)) +
  geom_histogram(aes(y = ..density..),
                 breaks=seq(20, 50, by = 2),
                 col="red",
                 fill="green",
                 alpha = .2) +
  geom_density(col="black") +
  labs(title="Histograma para Edad") +
  labs(x="Edad", y="Densidad")
```

Histograma para Edad

