

Lab6

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```
import pandas as pd
```

```
from ggplot import *
```

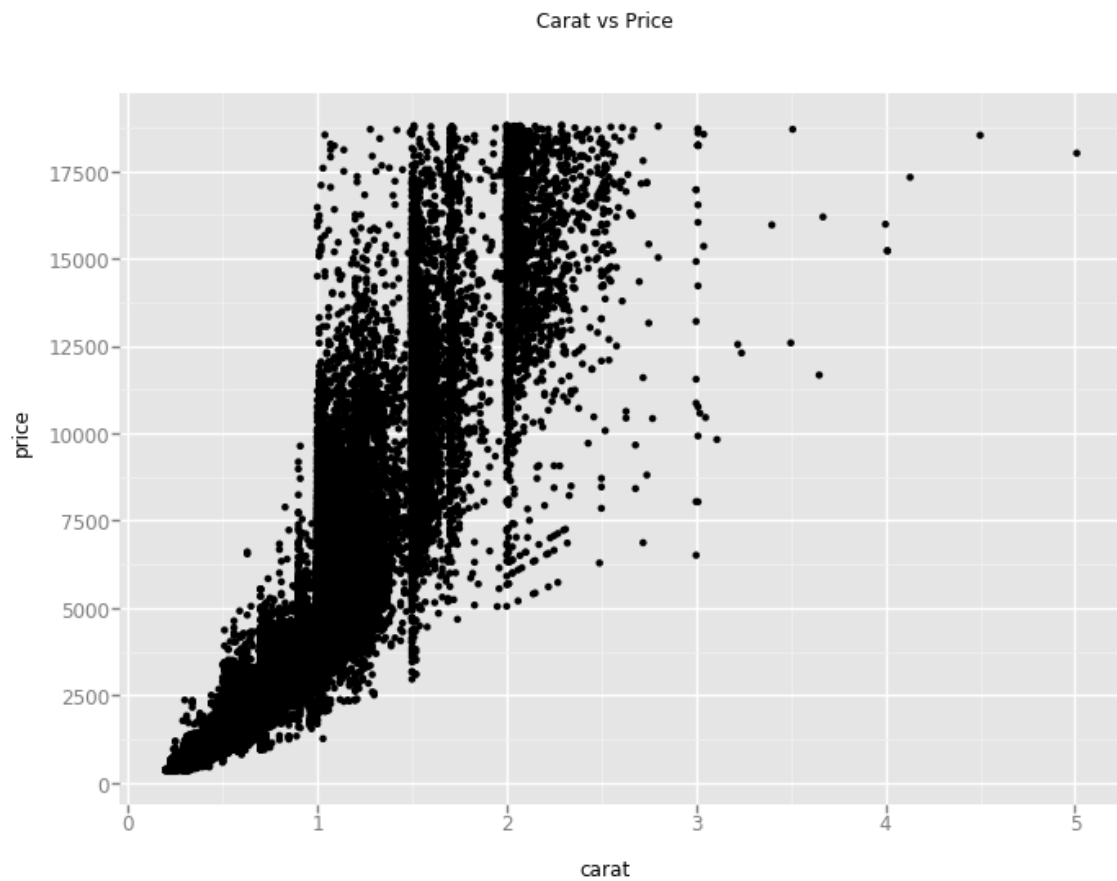
```
g1=ggplot(aes(x='carat', y='price'), data=diamonds) +geom_area()+ggtitle("Carat vs Price")
```

```
g1.show()
```

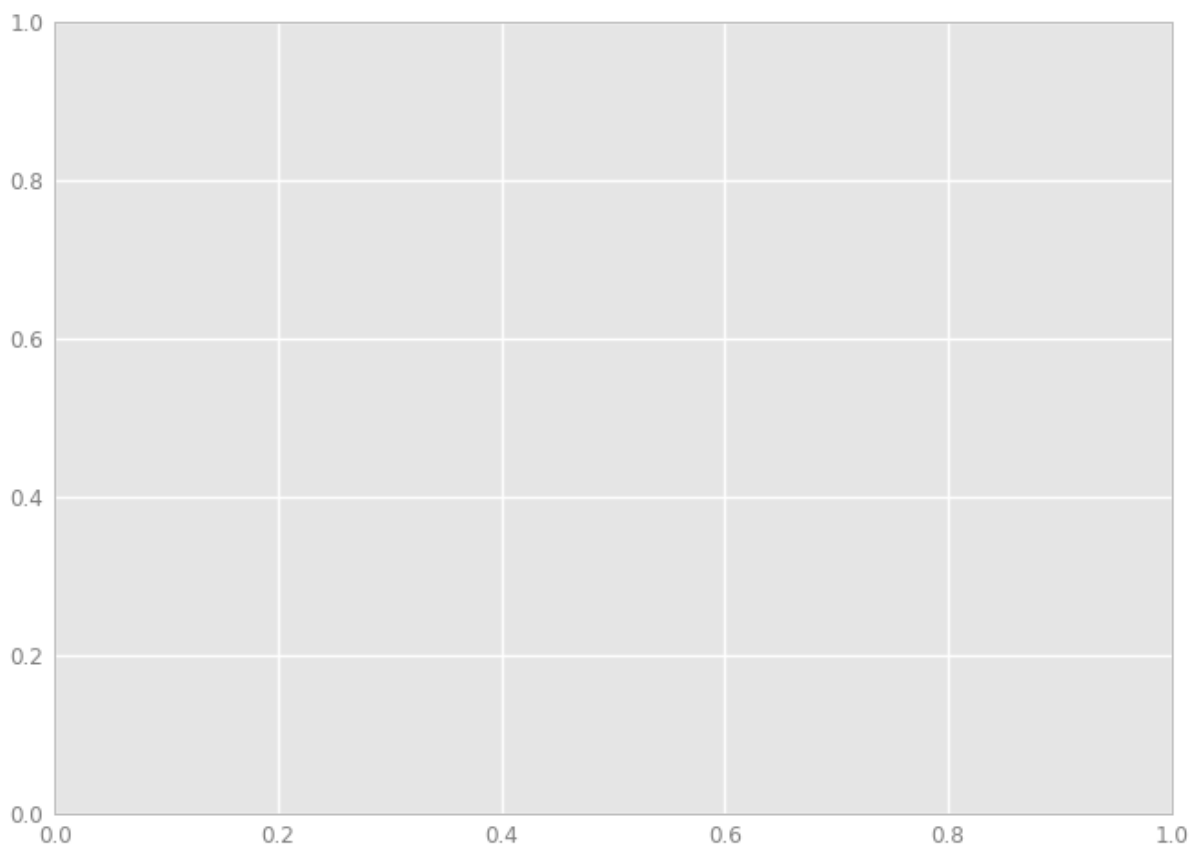


```
g2=ggplot(aes(x='carat', y='price'), data=diamonds)+ geom_jitter()+ggtitle("Carat vs Price")
```

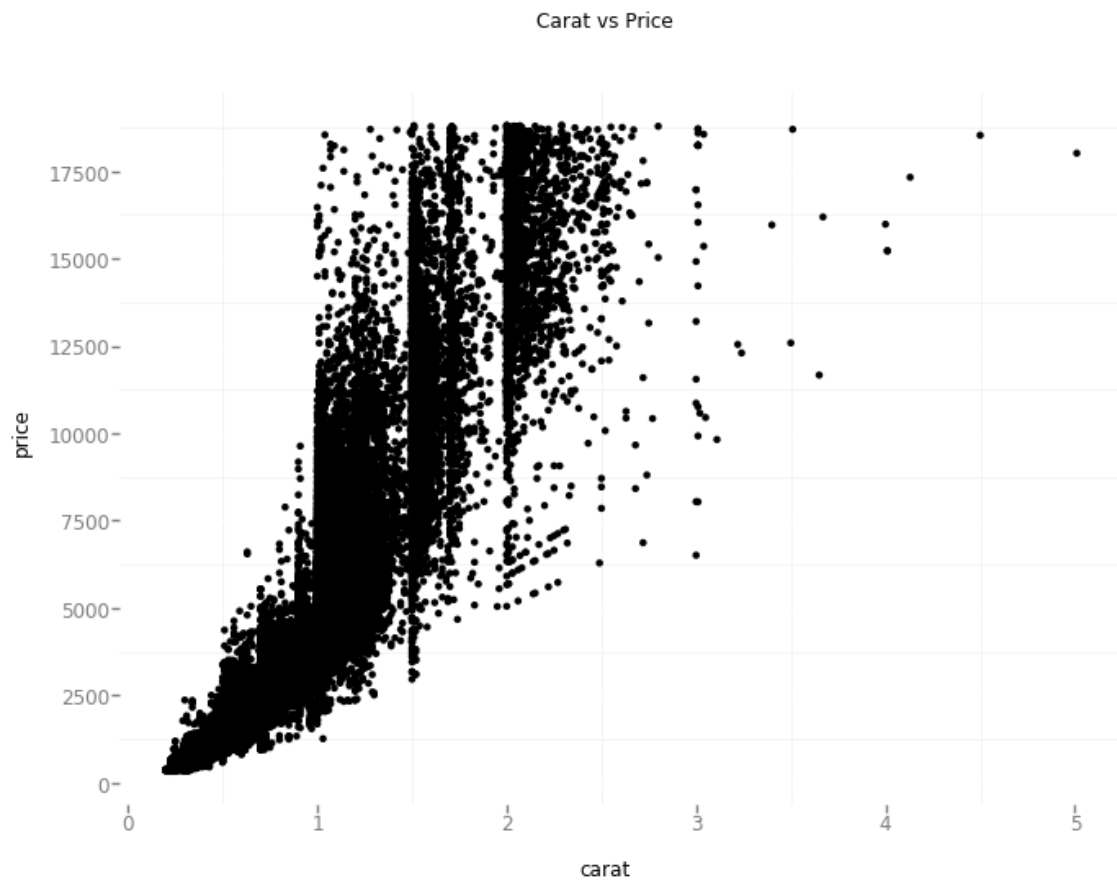
```
g2.show()
```



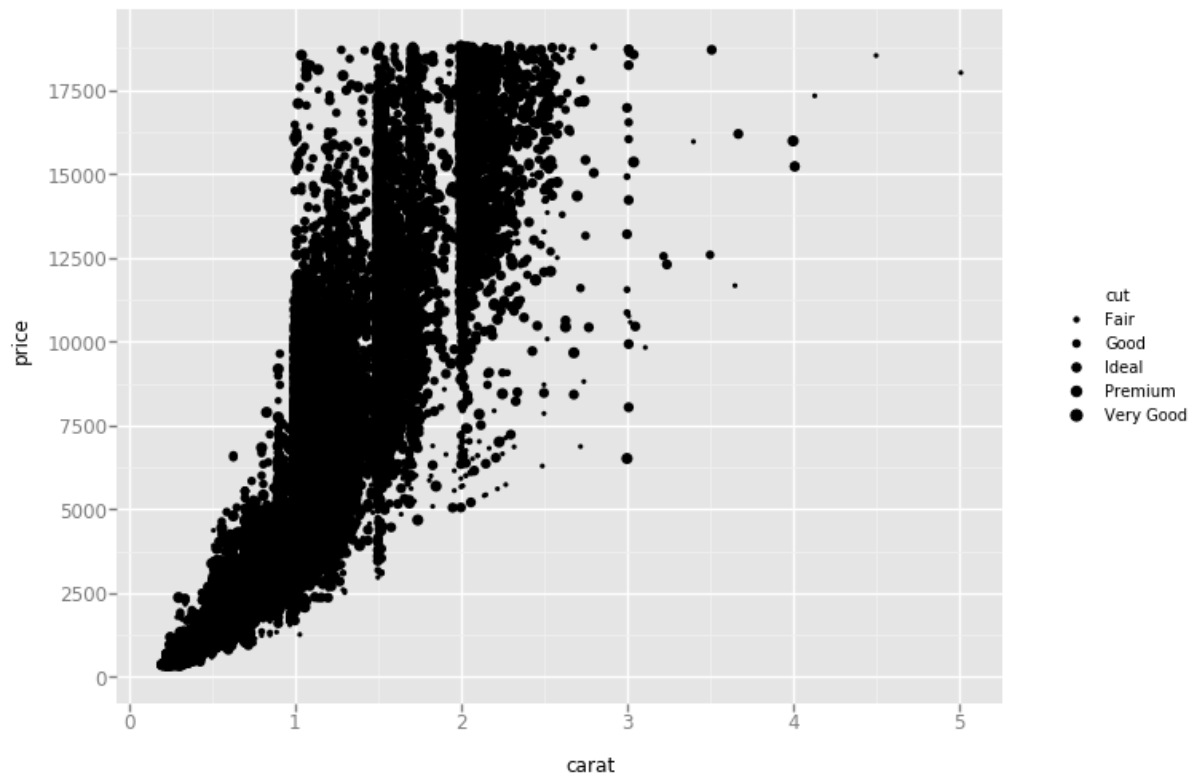
```
g3=ggplot(aes(x='carat', color='cut'), data=diamonds)+ geom_point()+ggtitle("Carat vs Price")  
g3.show()
```



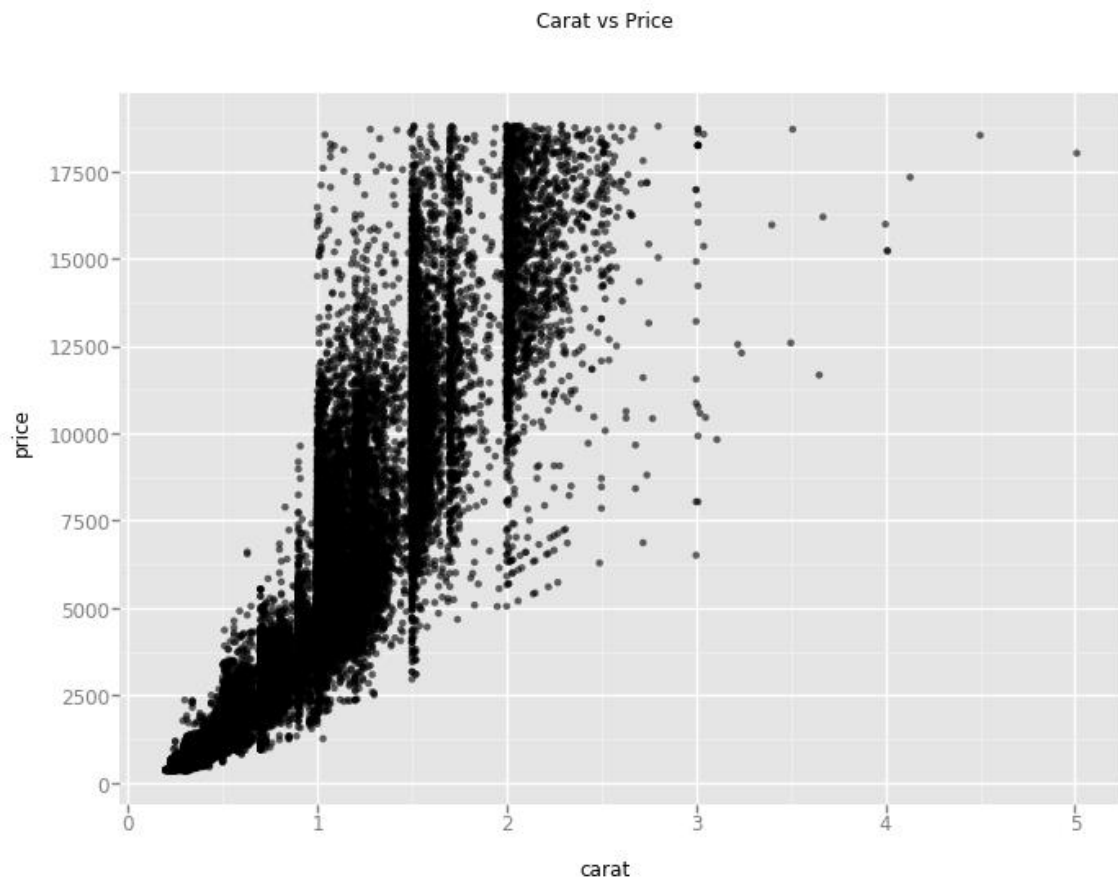
```
g4=g2+theme_bw()  
g4.show()
```



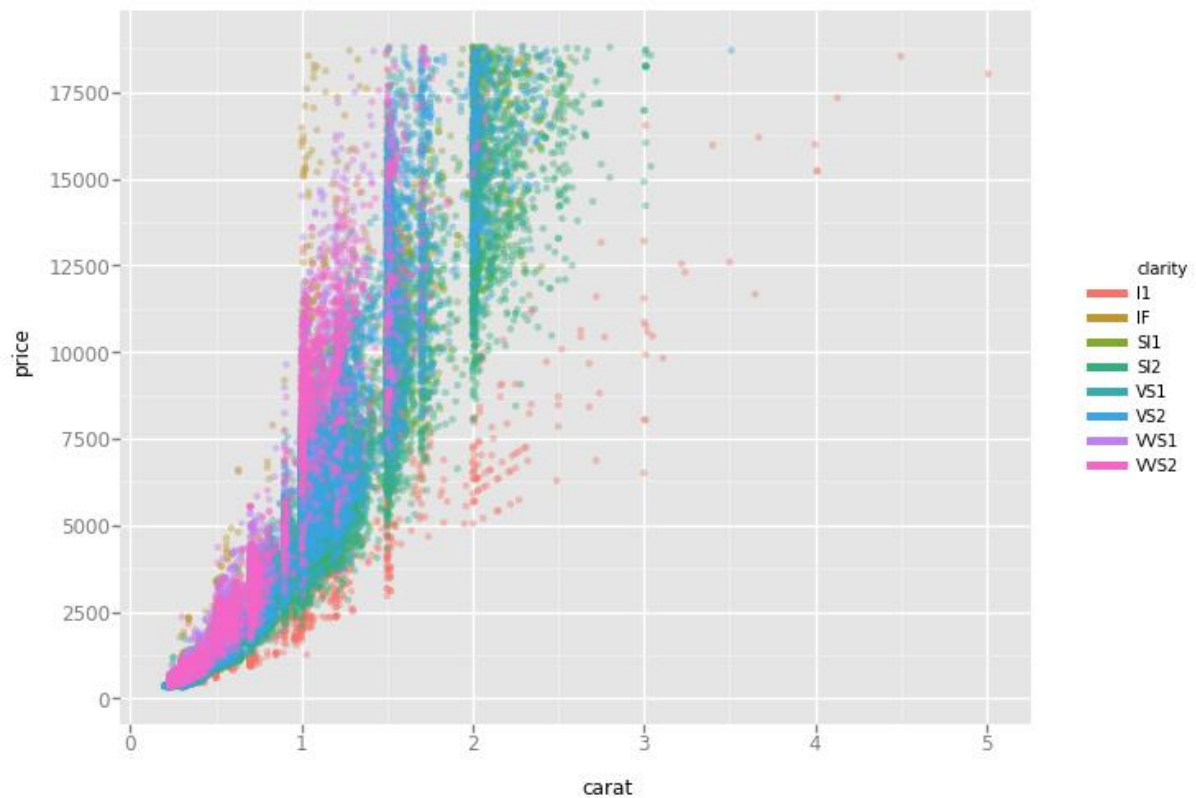
```
g5=ggplot(aes(x='carat', y='price', size='cut'), data=diamonds)+geom_point()  
g5.show()
```



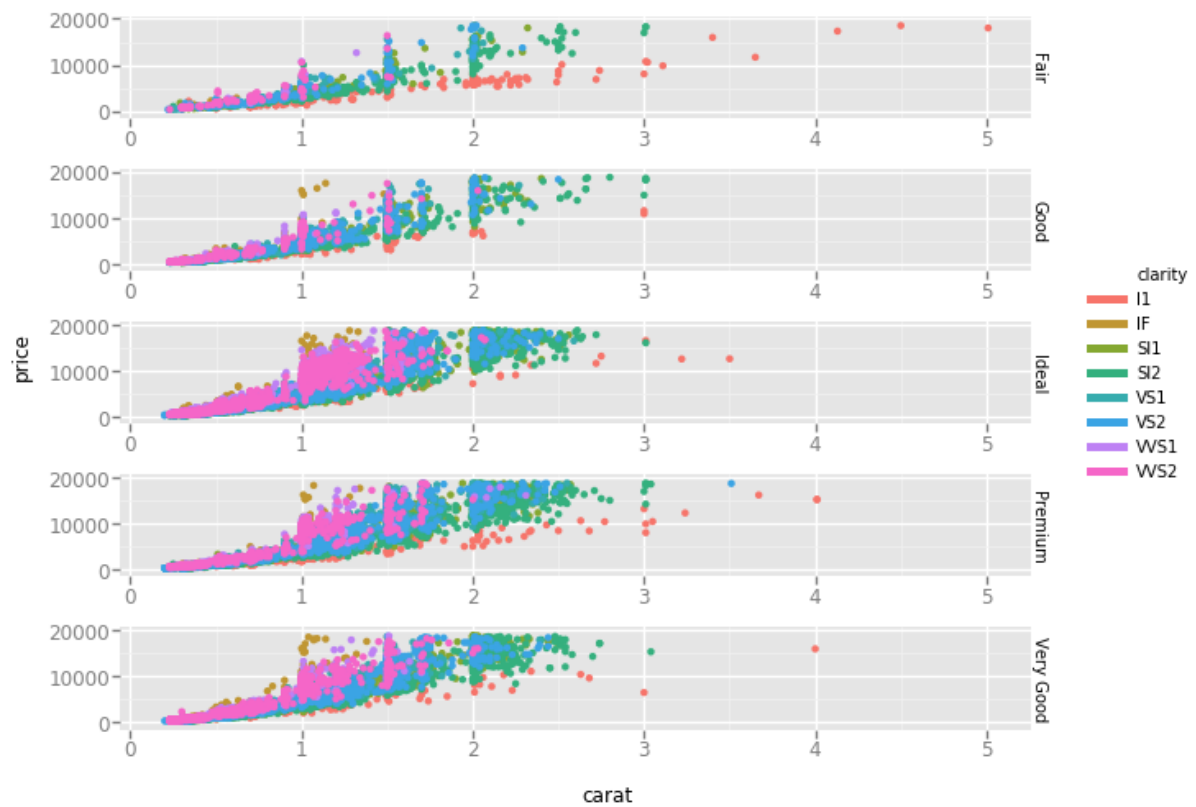
```
g6=ggplot(aes(x='carat', y='price'), data=diamonds)+ geom_jitter(alpha=0.6)+ggtitle("Carat vs Price")  
g6.show()
```



```
g7=ggplot(aes(x='carat', y='price', color='clarity'), data=diamonds)+geom_point(alpha=.4)
g7.show()
```

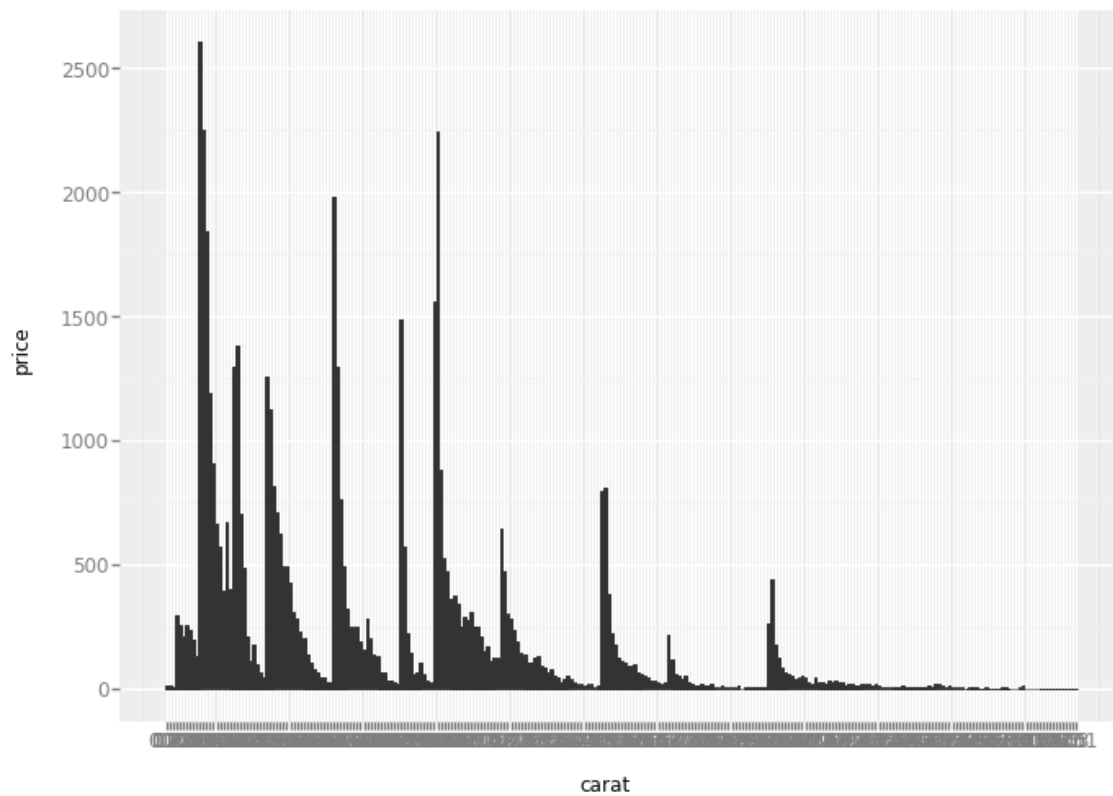


```
g8=ggplot(aes(x='carat', y='price', color='clarity'), data=diamonds)+geom_jitter()+facet_grid('cut')
g8.show()
```



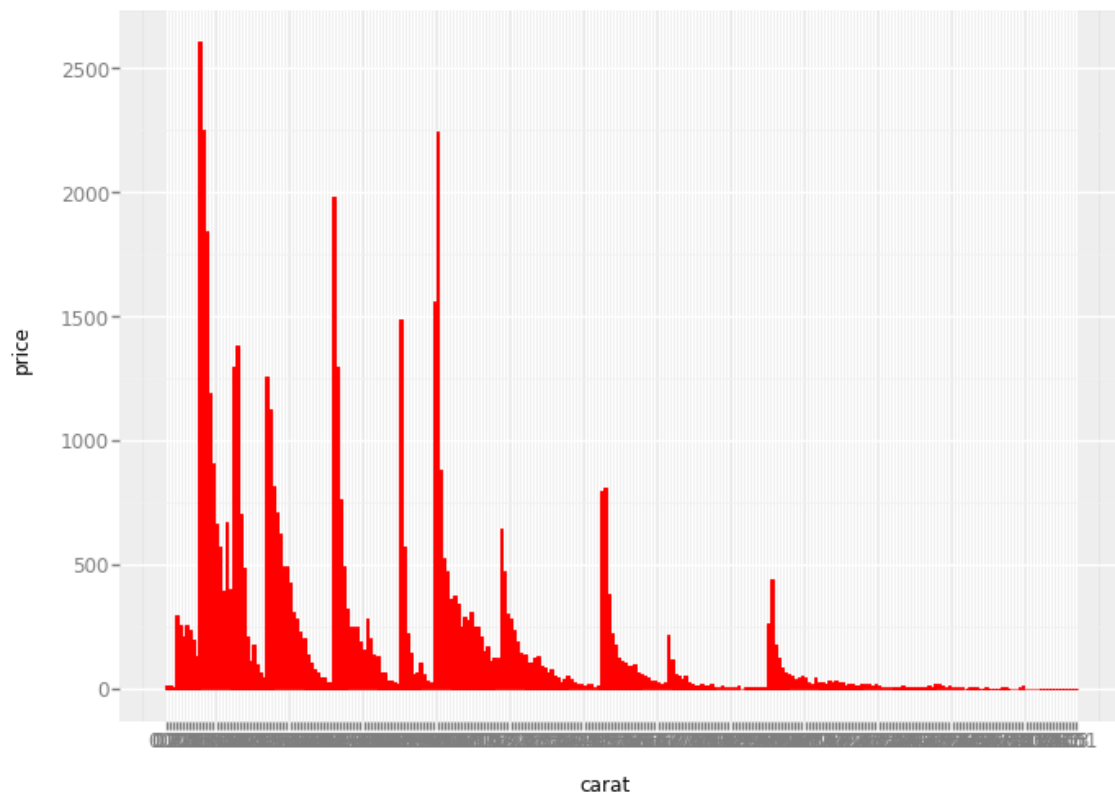
```
g9=ggplot(aes(x='carat', y='price'), data=diamonds)+geom_bar()
```

```
g9.show()
```



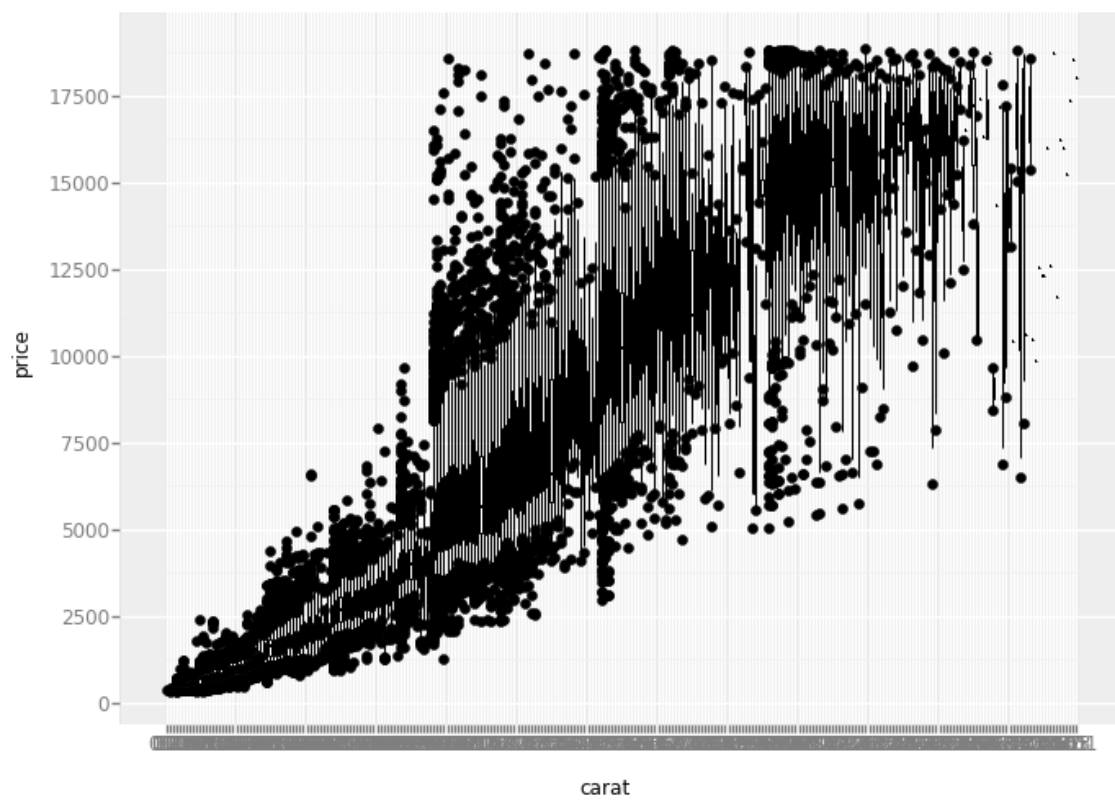
```
g10=ggplot(aes(x='carat', y='price'), data=diamonds)+geom_bar(fill='red', colour='white')
```

```
g10.show()
```



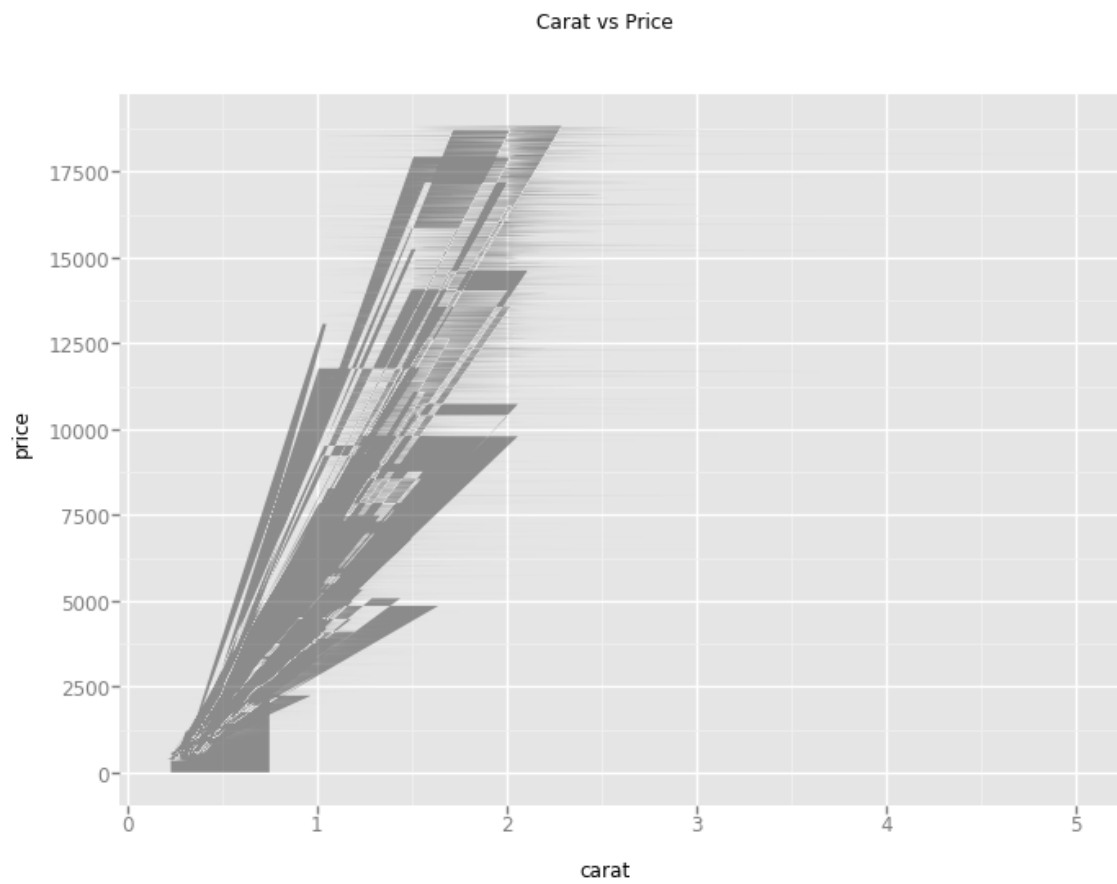
```
g11=ggplot(aes(x='carat', y='price'), data=diamonds)+geom_boxplot()
```

```
g11.show()
```



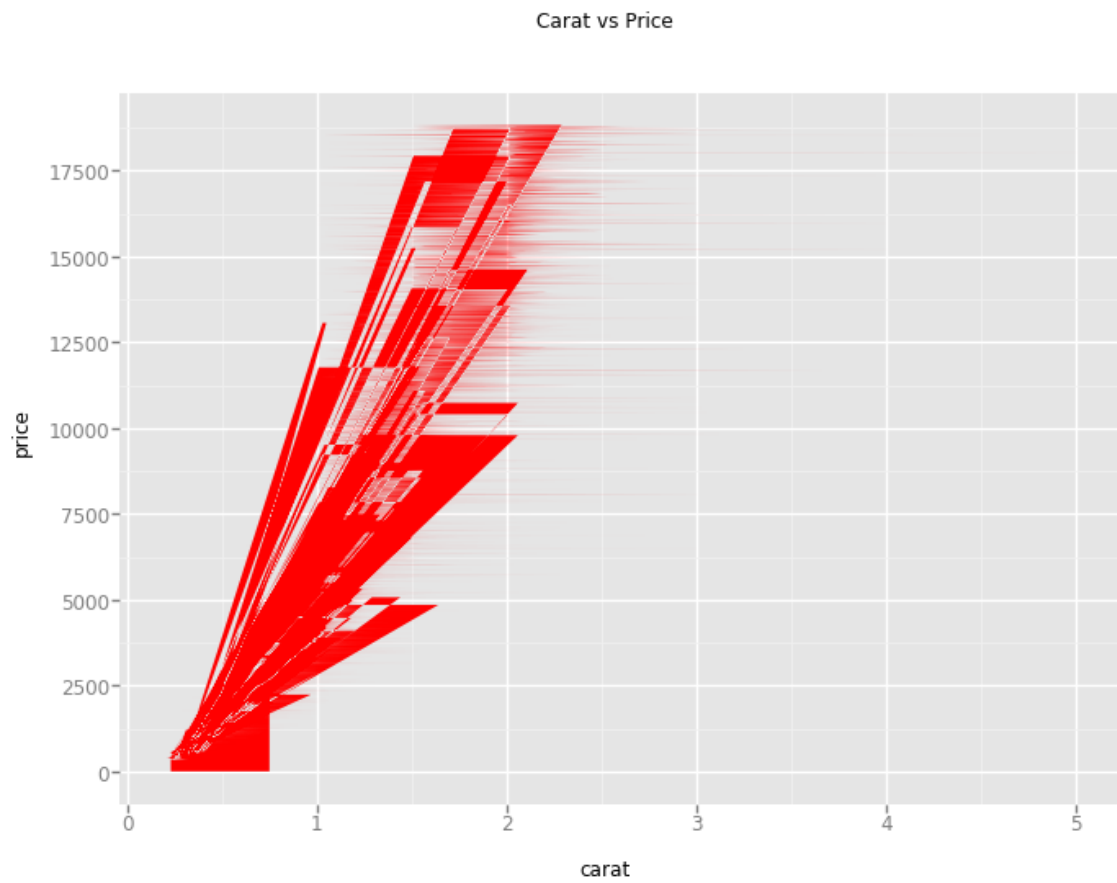

```
g12=ggplot(aes(x='carat', y='price'), data=diamonds) +geom_area(alpha=0.5)+ggtitle("Carat vs Price")
```

```
g12.show()
```

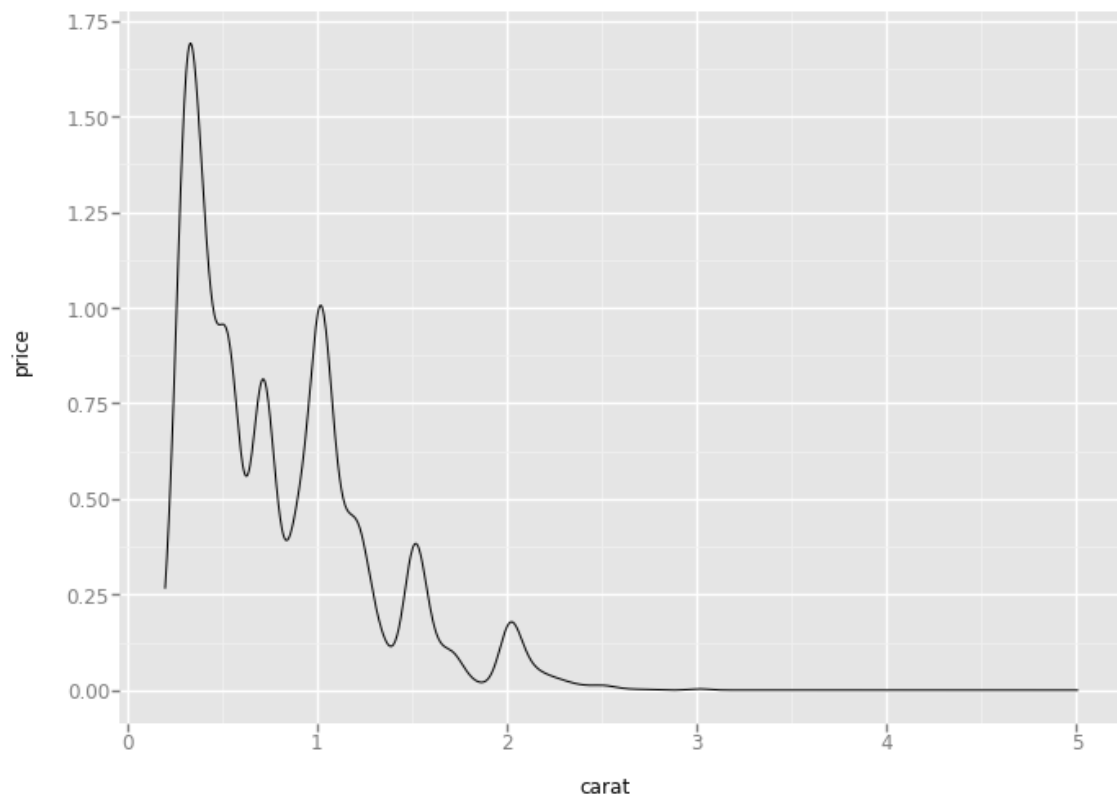


```
g13=ggplot(aes(x='carat', y='price'), data=diamonds) +geom_area(fill='red')+ggtitle("Carat vs Price")
```

```
g13.show()
```

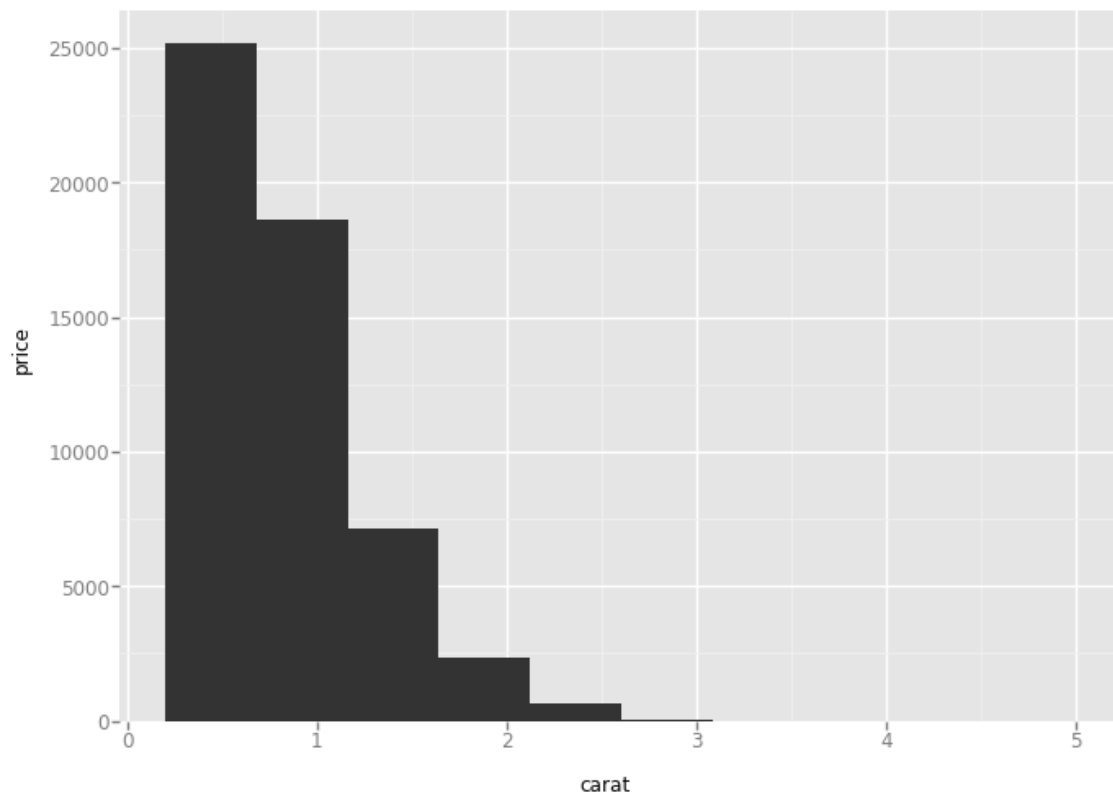


```
g15=ggplot(aes(x='carat', y='price'), data=diamonds)+ geom_density()  
g15.show()
```



```
g16=ggplot(aes(x='carat', y='price'), data=diamonds)+geom_histogram()
```

```
g16.show()
```



```
g17=ggplot(aes(x='carat', y='price'), data=diamonds)+ geom_histogram(bins=200)
```

```
g17.show()
```

