**Lab6**

**R. Harini**

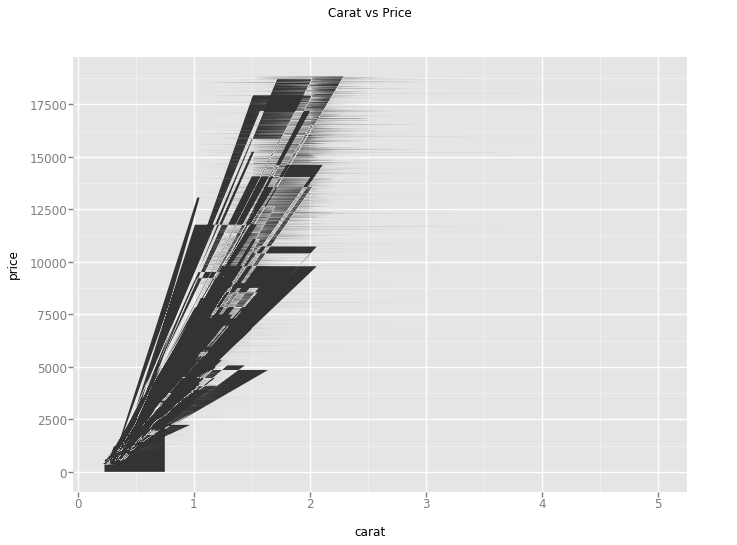
**18BCE1010**

import pandas as pd

from ggplot import \*

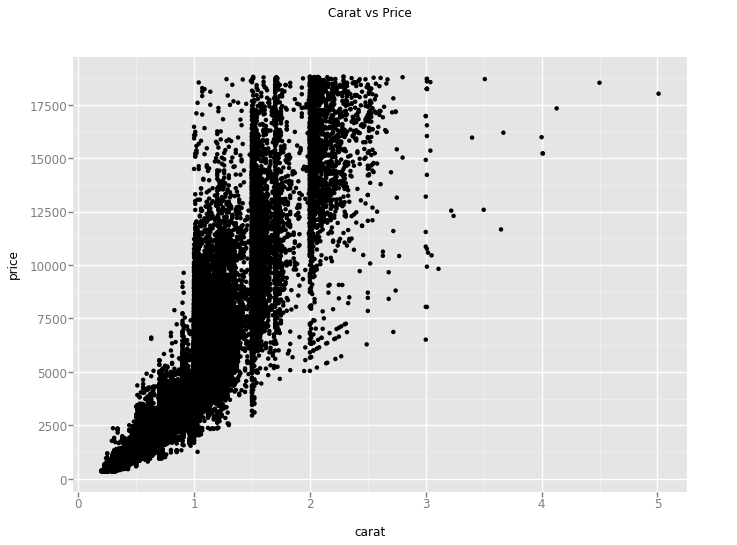
g1=ggplot(aes(x='carat', y='price'), data=diamonds) +geom\_area()+ggtitle("Carat vs Price")

g1.show()



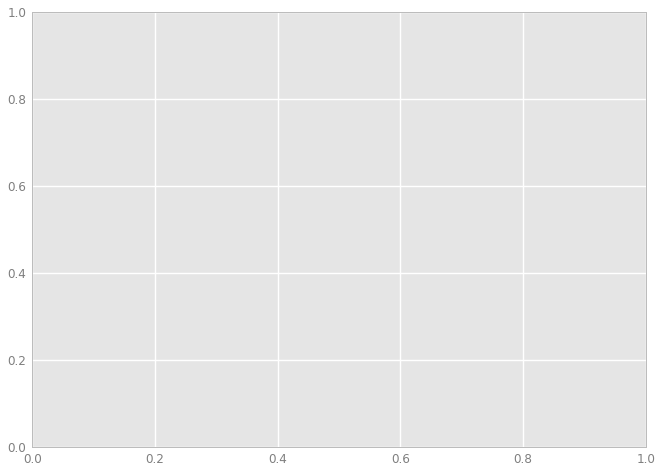
g2=ggplot(aes(x='carat', y='price'), data=diamonds)+ geom\_jitter()+ggtitle("Carat vs Price")

g2.show()



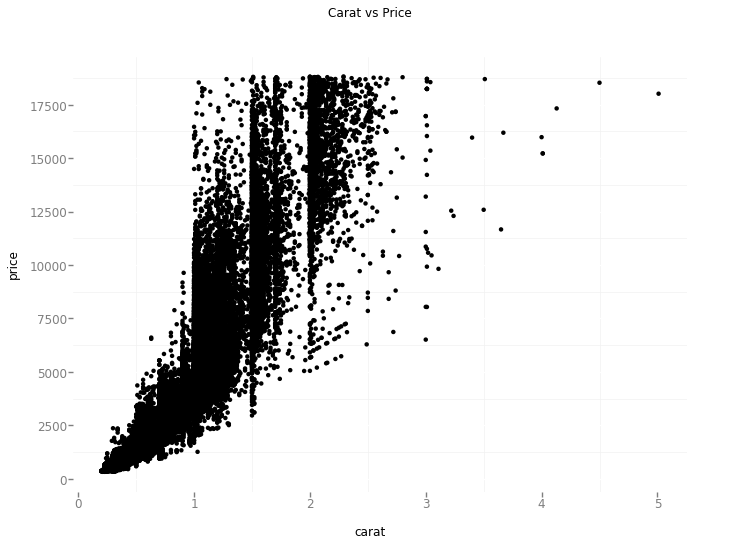
g3=ggplot(aes(x='carat', color='cut'), data=diamonds)+ geom\_point()+ggtitle("Carat vs Price")

g3.show()



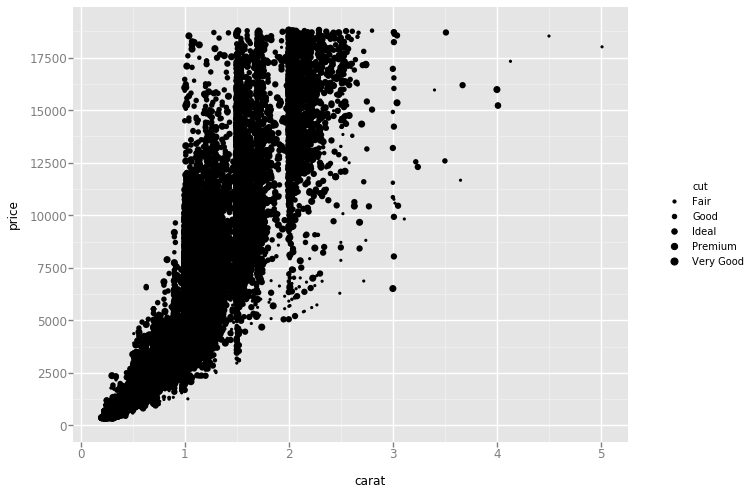
g4=g2+theme\_bw()

g4.show()



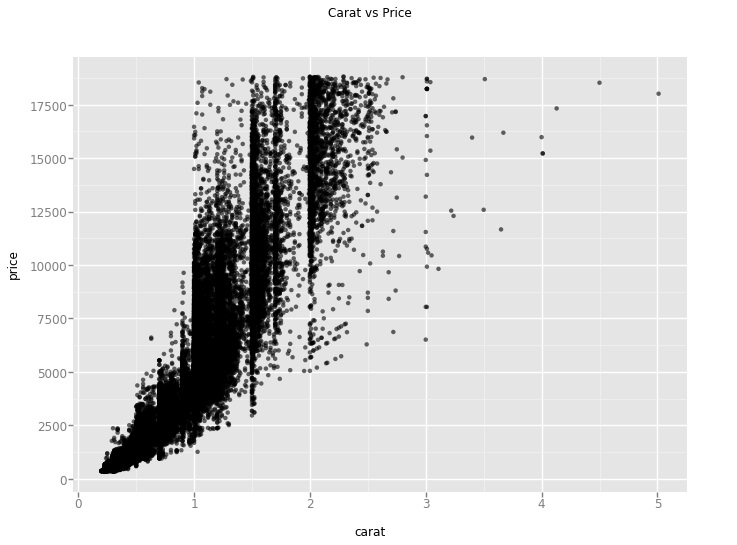
g5=ggplot(aes(x='carat', y='price', size='cut'), data=diamonds)+geom\_point()

g5.show()



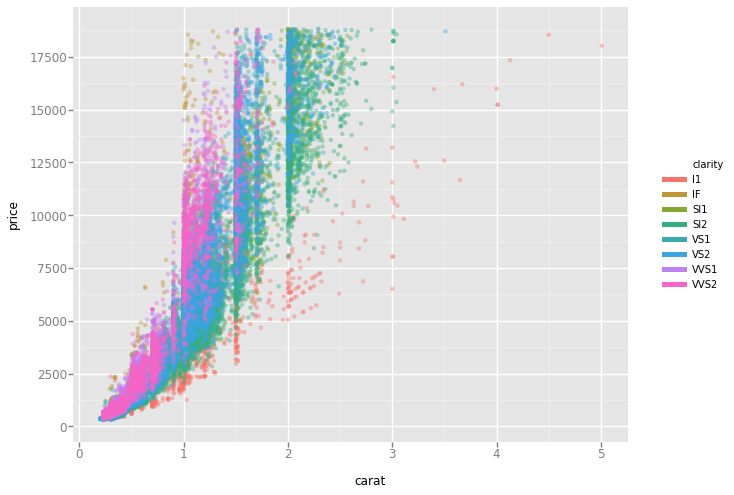
g6=ggplot(aes(x='carat', y='price'), data=diamonds)+ geom\_jitter(alpha=0.6)+ggtitle("Carat vs Price")

g6.show()



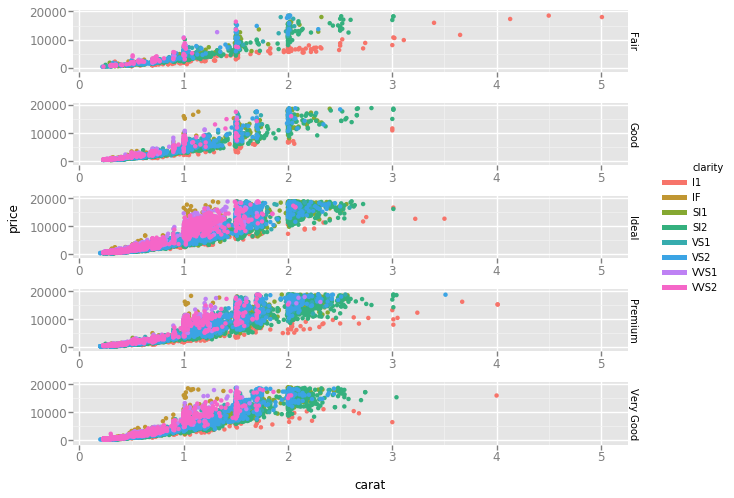
g7=ggplot(aes(x='carat', y='price', color='clarity'), data=diamonds)+geom\_point(alpha=.4)

g7.show()



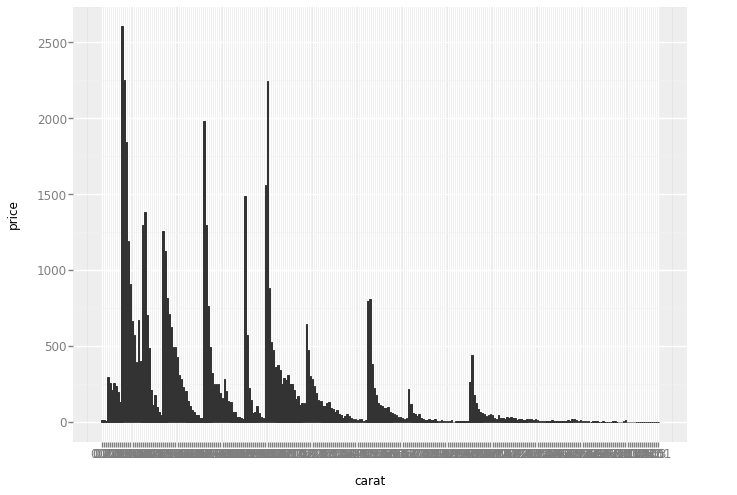
g8=ggplot(aes(x='carat', y='price', color='clarity'), data=diamonds)+geom\_jitter()+facet\_grid('cut')

g8.show()



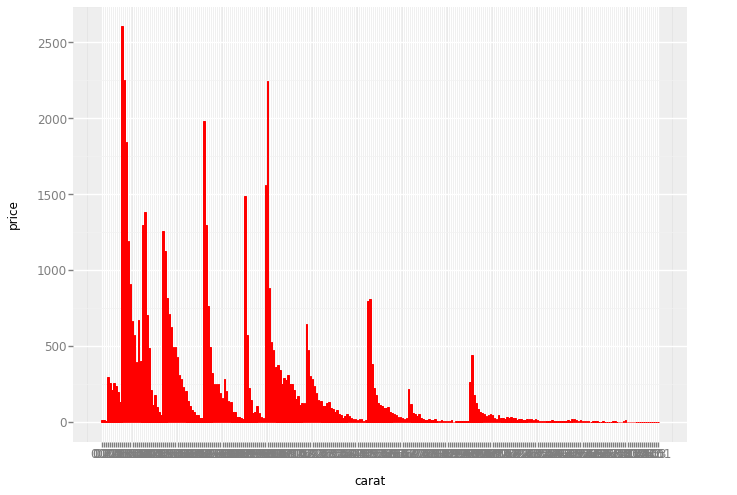
g9=ggplot(aes(x='carat', y='price'), data=diamonds)+geom\_bar()

g9.show()



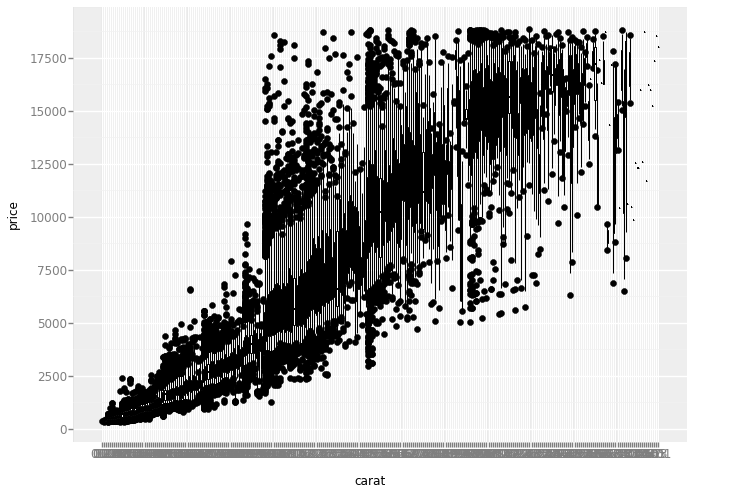
g10=ggplot(aes(x='carat', y='price'), data=diamonds)+geom\_bar(fill='red', colour='white')

g10.show()



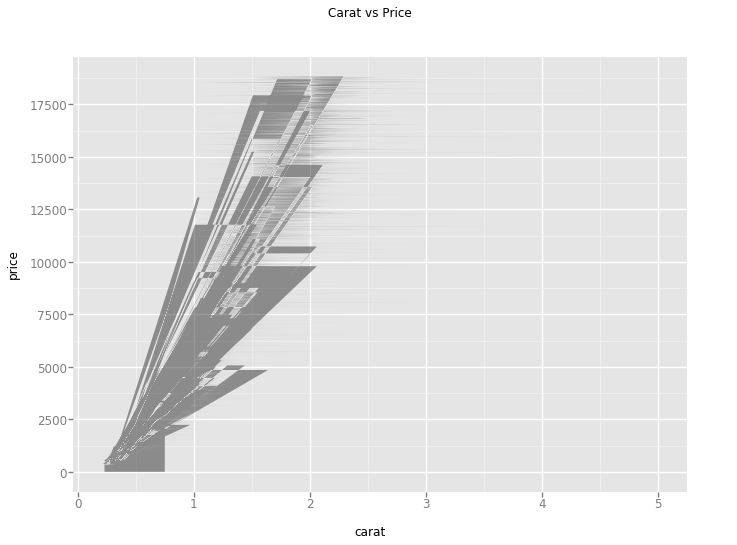
g11=ggplot(aes(x='carat', y='price'), data=diamonds)+geom\_boxplot()

g11.show()



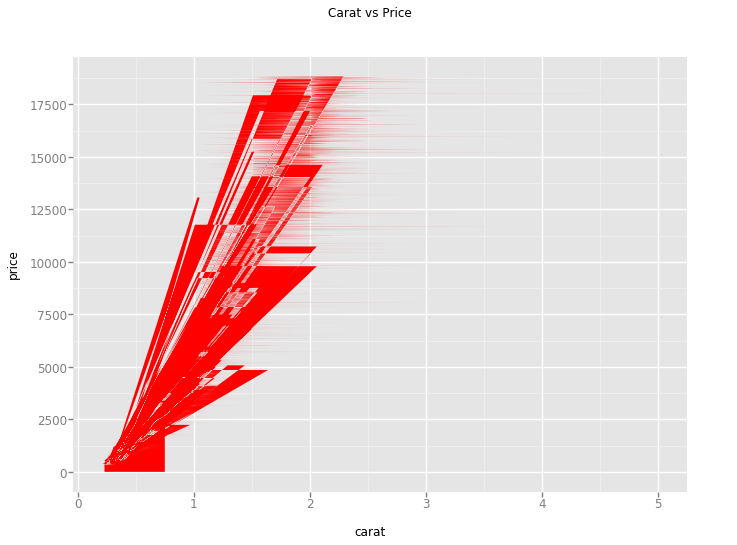
g12=ggplot(aes(x='carat', y='price'), data=diamonds) +geom\_area(alpha=0.5)+ggtitle("Carat vs Price")

g12.show()



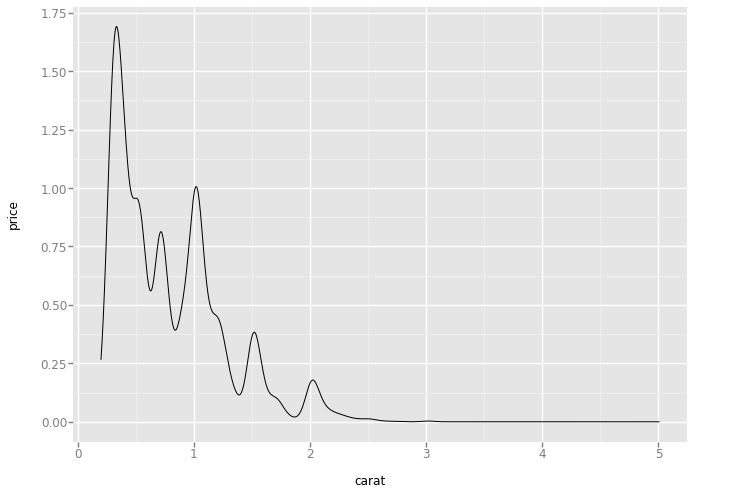
g13=ggplot(aes(x='carat', y='price'), data=diamonds) +geom\_area(fill='red')+ggtitle("Carat vs Price")

g13.show()



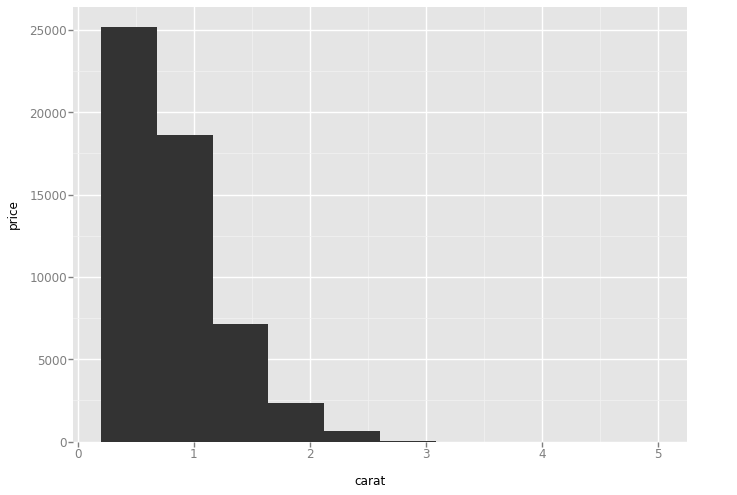
g15=ggplot(aes(x='carat', y='price'), data=diamonds)+ geom\_density()

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()

