title: “schhabr1” author: “sharon” date: “2024-02-02” output: pdf\_document: default word\_document: default

a<- read.csv("new\_york\_listings\_2024.csv")

summary(a)

## id name host\_id host\_name   
## Min. :2.595e+03 Length:20758 Min. : 1678 Length:20758   
## 1st Qu.:2.709e+07 Class :character 1st Qu.: 20417384 Class :character   
## Median :4.993e+07 Mode :character Median :108727121 Mode :character   
## Mean :3.034e+17 Mean :174931562   
## 3rd Qu.:7.216e+17 3rd Qu.:314410176   
## Max. :1.054e+18 Max. :550403525   
## neighbourhood\_group neighbourhood latitude longitude   
## Length:20758 Length:20758 Min. :40.50 Min. :-74.25   
## Class :character Class :character 1st Qu.:40.68 1st Qu.:-73.98   
## Mode :character Mode :character Median :40.72 Median :-73.95   
## Mean :40.73 Mean :-73.94   
## 3rd Qu.:40.76 3rd Qu.:-73.92   
## Max. :40.91 Max. :-73.71   
## room\_type price minimum\_nights number\_of\_reviews  
## Length:20758 Min. : 10.0 Min. : 1.00 Min. : 1.00   
## Class :character 1st Qu.: 80.0 1st Qu.: 30.00 1st Qu.: 4.00   
## Mode :character Median : 125.0 Median : 30.00 Median : 14.00   
## Mean : 187.8 Mean : 28.56 Mean : 42.64   
## 3rd Qu.: 199.0 3rd Qu.: 30.00 3rd Qu.: 49.00   
## Max. :100000.0 Max. :1250.00 Max. :1865.00   
## last\_review reviews\_per\_month calculated\_host\_listings\_count  
## Length:20758 Min. : 0.010 Min. : 1.00   
## Class :character 1st Qu.: 0.210 1st Qu.: 1.00   
## Mode :character Median : 0.650 Median : 2.00   
## Mean : 1.258 Mean : 18.84   
## 3rd Qu.: 1.800 3rd Qu.: 5.00   
## Max. :75.490 Max. :713.00   
## availability\_365 number\_of\_reviews\_ltm license rating   
## Min. : 0 Min. : 0.00 Length:20758 Length:20758   
## 1st Qu.: 87 1st Qu.: 1.00 Class :character Class :character   
## Median :215 Median : 3.00 Mode :character Mode :character   
## Mean :206 Mean : 10.85   
## 3rd Qu.:353 3rd Qu.: 15.00   
## Max. :365 Max. :1075.00   
## bedrooms beds baths   
## Length:20758 Min. : 1.000 Length:20758   
## Class :character 1st Qu.: 1.000 Class :character   
## Mode :character Median : 1.000 Mode :character   
## Mean : 1.724   
## 3rd Qu.: 2.000   
## Max. :42.000

#Transforming Bedroom variable as factors

a$bedrooms <-as.factor(a$bedrooms)

library(ggplot2)  
library(esquisse)

#esquisser()  
  
library(ggplot2)  
  
ggplot(a) +  
 aes(x = minimum\_nights, y = price) +  
 geom\_area() +  
 theme\_minimal()

