Airbnb Analysis

```
#New data set as Airbnb
library(readr)
library(csv)
Airbnb <- read_csv('https://raw.githubusercontent.com/Shubham619/Airbnb_Analysis/master/Airbnb.csv')
## Parsed with column specification:
## cols(
##
     room_id = col_integer(),
##
    host_id = col_integer(),
##
     room_type = col_character(),
##
    borough = col_character(),
##
    neighborhood = col character(),
##
    reviews = col_integer(),
##
     overall_satisfaction = col_double(),
##
     accommodates = col_double(),
##
    bedrooms = col double(),
##
     price = col_double(),
##
    minstay = col_double();
##
     latitude = col_double(),
     longitude = col_double(),
     last_modified = col_datetime(format = "")
##
## )
#summary
summary(Airbnb)
                        host id
      room id
                                         room_type
##
  \mathtt{Min.} :
               105
                           :
                                  500
                                        Length: 30001
                     Min.
   1st Qu.:1763333
                     1st Qu.: 2538621
                                        Class : character
## Median :4204485
                     Median : 7858210
                                        Mode :character
## Mean :3960630
                     Mean :11985356
   3rd Qu.:6145124
                     3rd Qu.:19971797
##
##
   Max.
         :7823353
                     Max. :41112492
##
##
      borough
                      neighborhood
                                            reviews
##
   Length: 30001
                      Length: 30001
                                         Min. : 0.00
                                         1st Qu.: 0.00
   Class : character
                      Class :character
  Mode :character
                      Mode :character
                                         Median: 3.00
                                         Mean : 11.91
##
##
                                         3rd Qu.: 13.00
                                               :255.00
##
                                         Max.
##
##
  overall_satisfaction accommodates
                                            bedrooms
                                                              price
                        Min. : 1.000
                                         Min. : 0.000
                                                                      10.0
## Min.
          :1.000
                                                          Min.
                                         1st Qu.: 1.000
  1st Qu.:4.500
                        1st Qu.: 2.000
                                                          1st Qu.:
                                                                      85.0
## Median :4.500
                        Median : 2.000
                                         Median : 1.000
                                                          Median:
                                                                     129.0
                        Mean : 2.491
                                         Mean : 1.144
## Mean :4.623
                                                          Mean :
                                                                     241.6
                                         3rd Qu.: 1.000
## 3rd Qu.:5.000
                        3rd Qu.: 3.000
                                                          3rd Qu.:
                                                                     199.0
## Max.
                        Max. :16.000
          :5.000
                                         Max. :10.000
                                                          Max. :140000.0
## NA's
           :8374
                        NA's
                              :2419
                                         NA's
                                               :133
##
                        latitude
                                       longitude
      minstay
```

```
## Min. : 1.000
                    Min. :40.51
                                    Min. :-74.24
## 1st Qu.: 1.000
                    1st Qu.:40.70 1st Qu.:-73.99
## Median : 2.000
                   Median :40.73 Median :-73.96
## Mean : 3.395
                    Mean :40.73 Mean :-73.96
## 3rd Qu.: 3.000
                     3rd Qu.:40.76
                                    3rd Qu.:-73.94
## Max.
         :999.000
                     Max. :40.91
                                   Max. :-73.73
## NA's :1144
## last modified
## Min. :2015-08-10 21:44:27
## 1st Qu.:2015-08-10 21:44:27
## Median :2015-08-10 21:44:27
## Mean
         :2015-08-11 01:32:57
## 3rd Qu.:2015-08-11 01:16:09
## Max. :2015-08-12 01:20:18
##
library(dplyr)
glimpse(Airbnb)
## Observations: 30,001
## Variables: 14
## $ room id
                         <int> 269404, 2451438, 2905768, 1624665, 354204...
## $ host id
                         <int> 1411399, 10193030, 12095101, 8638841, 178...
## $ room_type
                        <chr> "Private room", "Private room", "Entire h...
                         <chr> "Queens", "Manhattan", "Manhattan", "Broo...
## $ borough
                         <chr> "Astoria", "Harlem", "Hell's Kitchen", "W...
## $ neighborhood
## $ reviews
                         <int> 18, 2, 2, 24, 14, 99, 7, 7, 33, 5, 0, 50,...
## $ overall satisfaction <dbl> 4.5, 5.0, 4.5, 5.0, 4.5, 5.0, 4.5, 4.5, 4...
## $ accommodates
                        <dbl> 2, 2, 2, 1, 4, 2, 3, 2, 3, 2, 2, 3, 2, 2,...
                         <dbl> 1, 1, 1, 1, 2, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, ...
## $ bedrooms
## $ price
                        <dbl> 2492, 85, 140, 80, 299, 96, 250, 100, 70,...
## $ minstay
                         <dbl> 30, 3, 20, 3, 3, 1, 4, 2, 3, 2, 1, 3, 1, ...
## $ latitude
                         <dbl> 40.76684, 40.82349, 40.76363, 40.70553, 4...
## $ longitude
                         <dbl> -73.91211, -73.94193, -73.99309, -73.9272...
## $ last_modified
                         <dttm> 2015-08-10 21:44:27, 2015-08-10 21:44:27...
#first 6 and last 6 observations
head(Airbnb)
## # A tibble: 6 x 14
    room_id host_id
                          room_type
                                      borough
                                                neighborhood reviews
##
      <int>
              <int>
                               <chr>
                                        <chr>
                                                         <chr> <int>
## 1 269404 1411399
                        Private room
                                       Queens
                                                       Astoria
                                                                    18
## 2 2451438 10193030
                        Private room Manhattan
                                                        Harlem
## 3 2905768 12095101 Entire home/apt Manhattan Hell's Kitchen
                                                                     2
## 4 1624665 8638841
                        Private room Brooklyn
                                                 Williamsburg
                                                                    24
## 5 3542044 17830235 Entire home/apt Brooklyn
                                                  Williamsburg
                                                                    14
## 6 589089
             335272
                       Private room Brooklyn Prospect Heights
                                                                    99
## # ... with 8 more variables: overall_satisfaction <dbl>,
     accommodates <dbl>, bedrooms <dbl>, price <dbl>, minstay <dbl>,
      latitude <dbl>, longitude <dbl>, last_modified <dttm>
tail(Airbnb)
## # A tibble: 6 x 14
```

room_type

borough neighborhood reviews

room id host id

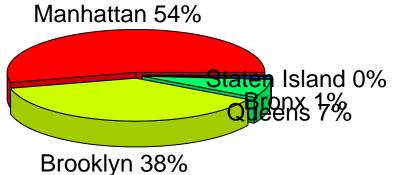
```
##
       <int>
                <int>
                                <chr>
                                           <chr>
                                                         <chr>
                                                                 <int>
## 1
       54486
               255748
                         Private room Brooklyn Crown Heights
                                                                    79
## 2 4645969 1472210 Entire home/apt Manhattan East Village
                                                                    19
## 3 7583719 39769353
                         Private room Brooklyn Crown Heights
                                                                     0
## 4 2774189 14187996 Entire home/apt Manhattan
                                                      Kips Bay
                                                                    62
                         Private room Manhattan
## 5 4662840 4114392
                                                        Harlem
                                                                     1
## 6 4309180 2653079 Entire home/apt Brooklyn
                                                   Park Slope
## # ... with 8 more variables: overall satisfaction <dbl>,
       accommodates <dbl>, bedrooms <dbl>, price <dbl>, minstay <dbl>,
       latitude <dbl>, longitude <dbl>, last_modified <dttm>
#columns
names(Airbnb)
  [1] "room id"
                               "host_id"
                                                       "room_type"
   [4] "borough"
##
                               "neighborhood"
                                                       "reviews"
  [7] "overall_satisfaction" "accommodates"
                                                       "bedrooms"
## [10] "price"
                               "minstay"
                                                       "latitude"
## [13] "longitude"
                               "last_modified"
#checking if any NA values
any(is.na(Airbnb))
## [1] TRUE
#Viewing NA values columns
Airbnb[!complete.cases(Airbnb),]
## # A tibble: 11,163 x 14
      room_id host_id
##
                             room_type
                                         borough
                                                        neighborhood reviews
##
        <int>
                 <int>
                                 <chr>
                                            <chr>
                                                               <chr>>
                                                                       <int>
##
  1 2268888 11424459 Entire home/apt Manhattan Washington Heights
                                                                           0
## 2 628100 2162167 Entire home/apt Brooklyn
                                                        Williamsburg
                                                                           8
## 3 3603287
               146825
                          Private room Manhattan
                                                              Nolita
                                                                           0
## 4 5188840 26377263
                          Private room
                                          Queens
                                                        Far Rockaway
                                                                           0
## 5 2228296 11371978 Entire home/apt Manhattan
                                                             Midtown
## 6 5335792 7877557
                          Private room Manhattan
                                                        East Village
                                                                           0
## 7 2070042 8119315 Entire home/apt
                                                           Ridgewood
## 8 4947430 25495114 Entire home/apt Manhattan
                                                        East Village
                                                                           0
## 9 3278516 16572416 Entire home/apt Manhattan
                                                                SoHo
## 10 3554019 17893521
                          Private room
                                                             Maspeth
## # ... with 11,153 more rows, and 8 more variables:
       overall_satisfaction <dbl>, accommodates <dbl>, bedrooms <dbl>,
       price <dbl>, minstay <dbl>, latitude <dbl>, longitude <dbl>,
## #
       last_modified <dttm>
#Omiting all NA values and new data set without NA values
Airbnb_cleaned <- na.omit(Airbnb)</pre>
#rechecking NA
any(is.na(Airbnb_cleaned))
## [1] FALSE
names(Airbnb_cleaned)
## [1] "room_id"
                               "host_id"
                                                       "room_type"
## [4] "borough"
                               "neighborhood"
                                                       "reviews"
```

```
## [7] "overall_satisfaction" "accommodates"
                                                       "bedrooms"
## [10] "price"
                                "minstay"
                                                       "latitude"
                                "last modified"
## [13] "longitude"
#rows
count(Airbnb_cleaned)
## # A tibble: 1 x 1
##
         n
##
     <int>
## 1 18838
#summary of new dataset
summary(Airbnb_cleaned)
##
       room_id
                         host_id
                                           room_type
##
   Min.
          :
               2515
                            :
                                  1039
                                          Length: 18838
   1st Qu.:1225130
                      1st Qu.: 2127987
                                          Class : character
##
   Median :3461000
                      Median: 6394483
                                          Mode :character
##
   Mean
           :3374035
                             :10278135
                      Mean
##
   3rd Qu.:5127433
                      3rd Qu.:16857761
##
   Max.
           :7808182
                      Max.
                             :40739836
##
      borough
                       neighborhood
                                              reviews
                                           Min. : 1.00
##
   Length: 18838
                       Length: 18838
   Class : character
                       Class : character
                                           1st Qu.: 2.00
   Mode :character
                       Mode :character
                                           Median: 7.00
##
##
                                           Mean
                                                : 16.15
##
                                           3rd Qu.: 19.00
##
                                           Max.
                                                  :253.00
   {\tt overall\_satisfaction} \quad {\tt accommodates}
##
                                              bedrooms
                                                               price
           :1.00
                               : 1.000
                                                  :0.000
                                                                      10.0
##
   Min.
                         Min.
                                           Min.
                                                           Min.
##
   1st Qu.:4.50
                         1st Qu.: 2.000
                                           1st Qu.:1.000
                                                           1st Qu.:
                                                                      80.0
   Median:4.50
                         Median : 2.000
                                           Median :1.000
                                                           Median: 125.0
##
          :4.63
                               : 2.538
                                                                     194.5
   Mean
                         Mean
                                           Mean
                                                 :1.021
                                                           Mean
##
   3rd Qu.:5.00
                         3rd Qu.: 3.000
                                           3rd Qu.:1.000
                                                           3rd Qu.:
                                                                     180.0
##
   Max.
           :5.00
                         Max.
                                :16.000
                                           Max.
                                                  :6.000
                                                           Max.
                                                                  :15000.0
##
                        latitude
       minstay
                                        longitude
##
   Min. : 1.00
                     Min.
                            :40.54
                                      Min.
                                             :-74.17
                                      1st Qu.:-73.99
##
   1st Qu.: 1.00
                     1st Qu.:40.70
##
   Median: 2.00
                     Median :40.73
                                     Median :-73.96
                                           :-73.96
          : 3.27
##
  Mean
                     Mean
                            :40.73
                                     Mean
##
   3rd Qu.: 3.00
                     3rd Qu.:40.76
                                      3rd Qu.:-73.95
##
  Max.
           :999.00
                            :40.91
                                           :-73.73
                     Max.
                                     Max.
  last modified
## Min.
           :2015-08-10 21:44:27
## 1st Qu.:2015-08-10 21:44:27
## Median :2015-08-10 21:44:27
           :2015-08-11 00:23:20
##
   3rd Qu.:2015-08-10 21:44:27
   Max.
           :2015-08-12 01:20:18
glimpse(Airbnb_cleaned)
## Observations: 18,838
## Variables: 14
## $ room_id
                          <int> 269404, 2451438, 2905768, 1624665, 354204...
```

```
## $ host id
                         <int> 1411399, 10193030, 12095101, 8638841, 178...
                         <chr> "Private room", "Private room", "Entire h...
## $ room_type
## $ borough
                          <chr> "Queens", "Manhattan", "Manhattan", "Broo...
                          <chr> "Astoria", "Harlem", "Hell's Kitchen", "W...
## $ neighborhood
## $ reviews
                         <int> 18, 2, 2, 24, 14, 99, 7, 7, 33, 5, 50, 19...
## $ overall satisfaction <dbl> 4.5, 5.0, 4.5, 5.0, 4.5, 5.0, 4.5, 4.5, 4...
                         <dbl> 2, 2, 2, 1, 4, 2, 3, 2, 3, 2, 3, 2, 2, 2, ...
## $ accommodates
                          <dbl> 1, 1, 1, 1, 2, 1, 2, 1, 1, 1, 1, 1, 1, 1, ...
## $ bedrooms
## $ price
                          <dbl> 2492, 85, 140, 80, 299, 96, 250, 100, 70,...
## $ minstay
                         <dbl> 30, 3, 20, 3, 3, 1, 4, 2, 3, 2, 3, 1, 4, ...
## $ latitude
                          <dbl> 40.76684, 40.82349, 40.76363, 40.70553, 4...
                          <dbl> -73.91211, -73.94193, -73.99309, -73.9272...
## $ longitude
## $ last_modified
                          <dttm> 2015-08-10 21:44:27, 2015-08-10 21:44:27...
#selecting and grouping
Airbnb_cleaned %>%
 group_by(room_type,minstay)
## # A tibble: 18,838 x 14
## # Groups:
              room_type, minstay [94]
##
     room_id host_id room_type
                                        borough
                                                    neighborhood reviews
        <int>
##
                <int>
                                                                   <int>
                                <chr>
                                           <chr>
                                                           <chr>
## 1 269404 1411399
                         Private room
                                          Queens
                                                          Astoria
                                                                       18
## 2 2451438 10193030 Private room Manhattan
                                                          Harlem
                                                                        2
## 3 2905768 12095101 Entire home/apt Manhattan Hell's Kitchen
## 4 1624665 8638841
                        Private room Brooklyn
                                                                       24
                                                     Williamsburg
## 5 3542044 17830235 Entire home/apt Brooklyn
                                                     Williamsburg
                                                                       14
## 6 589089 335272
                         Private room Brooklyn Prospect Heights
                                                                       99
## 7 264017 1385139 Entire home/apt Manhattan
                                                           Nolita
                                                                       7
## 8 3190765 4844197
                                                     Williamsburg
                                                                       7
                         Private room Brooklyn
## 9 215172
                                                                       33
                 5926
                         Private room Manhattan
                                                           Harlem
## 10 2091991 10362675 Entire home/apt Manhattan
                                                                        5
                                                     East Village
## # ... with 18,828 more rows, and 8 more variables:
      overall_satisfaction <dbl>, accommodates <dbl>, bedrooms <dbl>,
      price <dbl>, minstay <dbl>, latitude <dbl>, longitude <dbl>,
      last_modified <dttm>
#new column actual_rate = price divide with minstay
actual_rate<-(Airbnb_cleaned$price/Airbnb_cleaned$minstay)</pre>
#rounding values
actual_rate <- round(actual_rate)</pre>
#column binding to dataset
Airbnb_cleaned <-cbind(actual_rate, Airbnb_cleaned)
#mean of actual rate
actual_rate_mean <-mean(Airbnb_cleaned$actual_rate)</pre>
#dividing rooms rates as less than mean and more than mean
Rooms_withless_rates <- Airbnb_cleaned[Airbnb_cleaned$actual_rate <= actual_rate_mean,]
View(Rooms_withless_rates)
Rooms_withmore_rates <- Airbnb_cleaned[Airbnb_cleaned$actual_rate > actual_rate_mean,]
View(Rooms_withmore_rates)
cheap_room_satisfaction <-mean(Rooms_withless_rates$overall_satisfaction)</pre>
```

```
luxury_room_satisfaction <- mean(Rooms_withmore_rates$overall_satisfaction)</pre>
Borough<- table(Airbnb_cleaned$borough)</pre>
prop.table(Borough)*100
##
##
           Bronx
                       Brooklyn
                                    Manhattan
                                                       Queens Staten Island
##
       0.8865060
                     37.9976643
                                    53.7583608
                                                   7.0336554
                                                                  0.3238136
#pie chart of borough
library(plotrix)
pie2<- sort(table(Airbnb_cleaned$borough),decreasing = TRUE)</pre>
borough_counts <- c(10127,7158,1325,167,61 )
labels <- c("Manhattan", "Brooklyn", "Queens", "Bronx", "Staten Island")
percent<- round(borough_counts/sum(borough_counts)*100)</pre>
labels <- paste(labels, percent) # add percents to labels
labels <- paste(labels,"%",sep="") # add % to labels
pie3D(pie2,main="Borough Cateory",labels=labels,explode = 0.045)
```

Borough Cateory



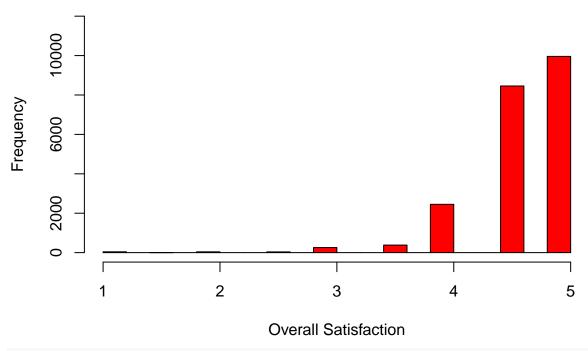
```
Neighborhood <- table(Airbnb_cleaned$neighborhood)

#table for room_type
table(Airbnb_cleaned$room_type)

##
## Entire home/apt Private room Shared room
## 10416 7933 489

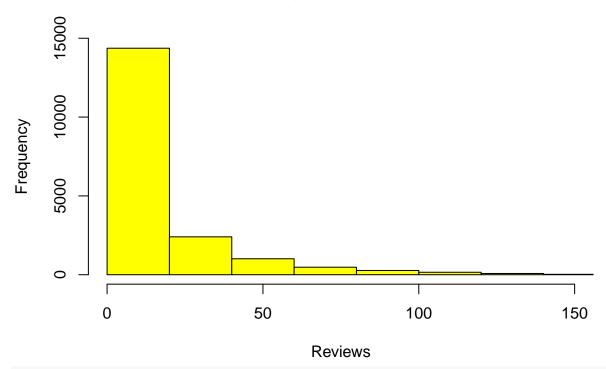
#room satisfaction histogram
hist(Airbnb$overall_satisfaction,col='red',ylim=c(0,12000),xlab="Overall Satisfaction",ylab="Frequency"</pre>
```

Overall satisfaction



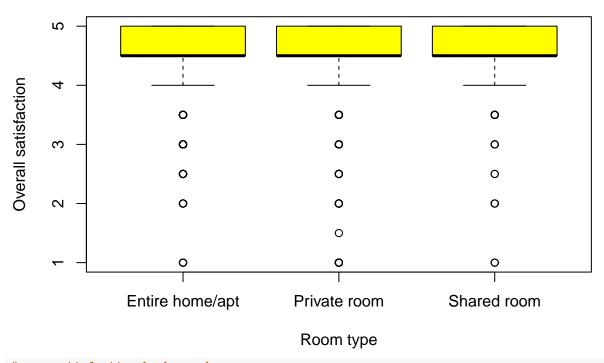
#room reviews histogram
hist(Airbnb_cleaned\$reviews,col="yellow",xlim = c(0,150),ylim=c(0,15000),breaks = 15,ylab="Frequency",x

Histogram of Reviews



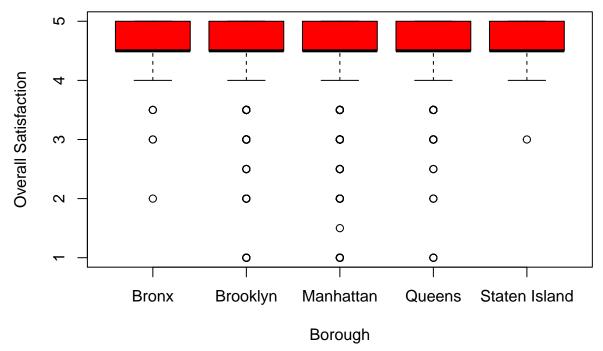
#room satisfaction by room_type
boxplot(overall_satisfaction ~ room_type,data= Airbnb_cleaned,col="yellow",xlab="Room type",ylab="Overal")

Satisfaction according to room type



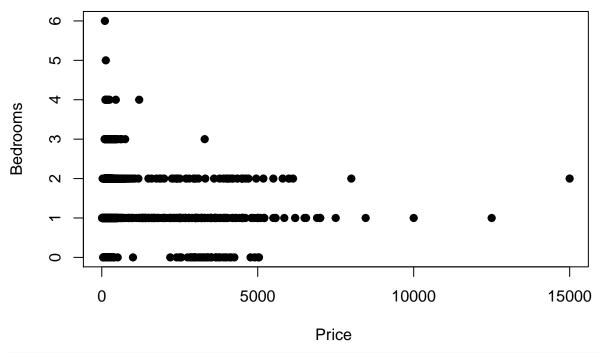
#room satisfaction by borough
boxplot(overall_satisfaction ~ borough,data=Airbnb_cleaned,col="red",xlab="Borough",ylab="Overall Satis")

Satisfaction according to borough

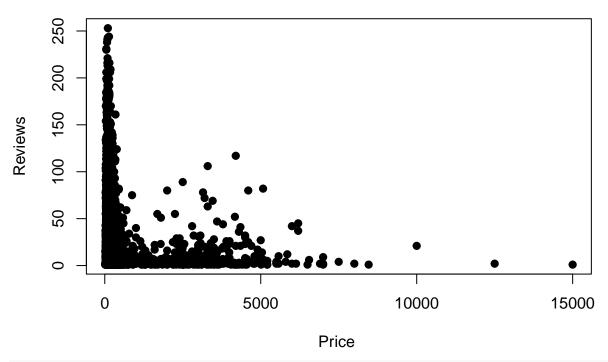


#plot price and bedrooms scatterplot
plot(Airbnb_cleaned\$price, Airbnb_cleaned\$bedrooms, main="Scatterplot for Price and Bedrooms",

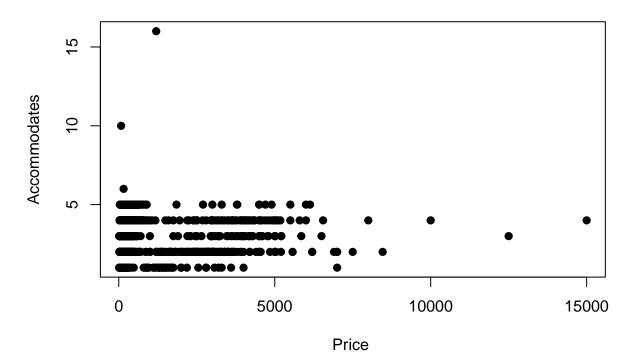
Scatterplot for Price and Bedrooms



Scatterplot for Price and Reviews



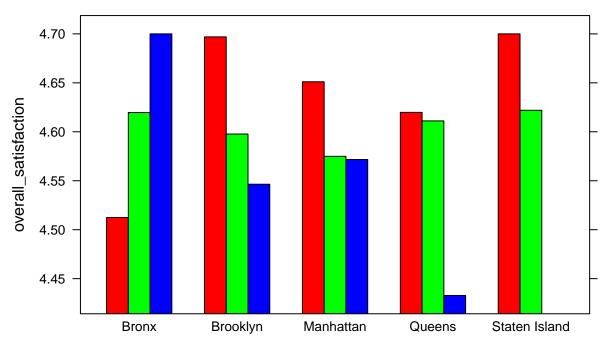
Scatterplot for Price and Accommodates



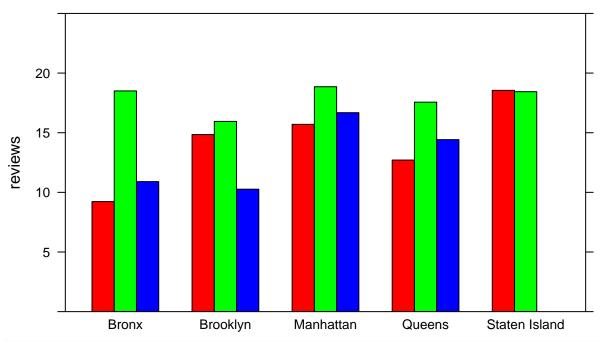
#aggregate and preparing barchart of overall_satisfaction ,borough,room_type by grouping room_type

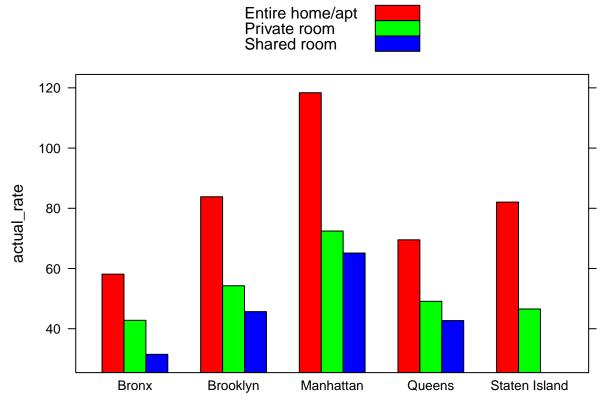
Entire home/apt Private room Shared room



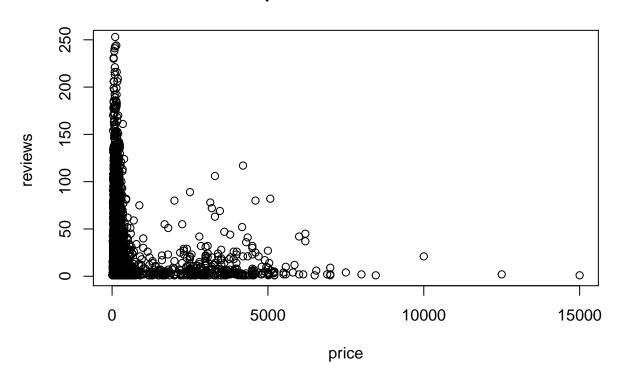


Entire home/apt Private room Shared room



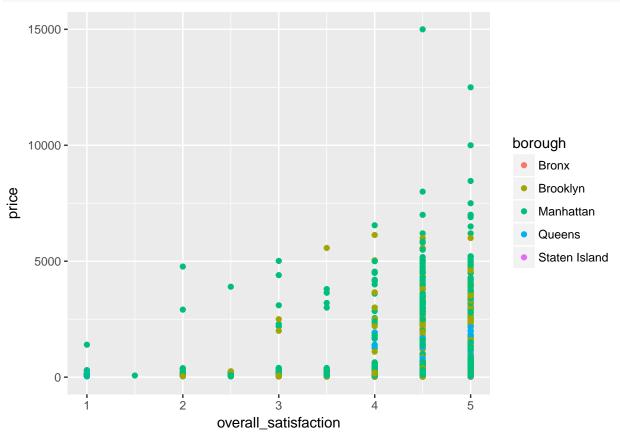


Scatterplot of Price and Reviews

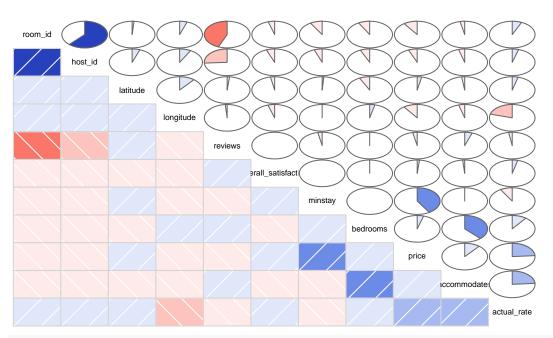


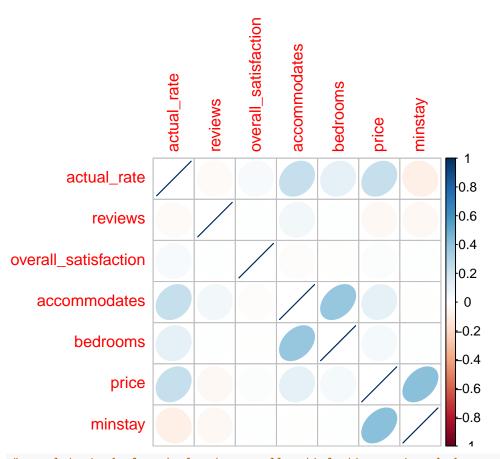
```
#qplot of overall_satisfaction and price by borough
library(ggplot2)

qplot( overall_satisfaction,price, data = Airbnb_cleaned, colour = borough)
```



Corrogram of Airbnb





```
actual_rate
                                                            minstay
        actual_rate
                                                                   0.8
                                                                   0.6
            reviews
                     -0.03
                                                                   0.4
overall_satisfaction
                      0.04
                              0
                                                                   0.2
    accommodates
                     0.24 | 0.05 | -0.01
                                                                    0
                                                                   -0.2
         bedrooms
                      0.1
                            0.01 -0.01 0.38
                                                                   -0.4
               price 0.24 -0.03 0.02 0.11
                                              0.05
                                                                   -0.6
                                                                   -0.8
            minstay | -0.08 | -0.03 |
                                                     0.41
                                        -0.01
#variance of overall_satisfaction and price
var(Airbnb_cleaned$overall_satisfaction,Airbnb_cleaned$price, na.rm = TRUE)
## [1] 3.581694
#covariance of all_satisfaction,price,accommodates,reviews,bedrooms,minstay
cov(Airbnb_cleaned$overall_satisfaction,Airbnb_cleaned$price+Airbnb_cleaned$accommodates+Airbnb_cleaned
## [1] 3.602341
#Multiple linear regression
fit <- lm(Airbnb_cleaned$overall_satisfaction ~ Airbnb_cleaned$borough )</pre>
fit2 <- lm(Airbnb_cleaned$overall_satisfaction ~ Airbnb_cleaned$room_type)</pre>
fit3 <- lm(overall_satisfaction ~ reviews+bedrooms+accommodates+actual_rate,data=Airbnb_cleaned)
fit4 <-lm(formula = price ~ room_type + neighborhood + accommodates + bedrooms
          + minstay, data = Airbnb_cleaned)
#fucntions for fit
coefficients(fit)
```

Airbnb_cleaned\$boroughBrooklyn

(Intercept)

##

```
0.045860919
##
                           4.598802395
##
       Airbnb_cleaned$boroughManhattan
                                              Airbnb_cleaned$boroughQueens
##
                           0.024235029
                                                                0.006480624
## Airbnb_cleaned$boroughStaten Island
                           0.048738588
confint(fit, level=0.95)
                                             2.5 %
                                                       97.5 %
##
## (Intercept)
                                        4.52827866 4.66932613
## Airbnb cleaned$boroughBrooklyn
                                       -0.02548075 0.11720259
## Airbnb cleaned$boroughManhattan
                                       -0.04686782 0.09533788
## Airbnb_cleaned$boroughQueens
                                       -0.06835559 0.08131683
## Airbnb_cleaned$boroughStaten Island -0.08760597 0.18508315
#fucntions for fit2
coefficients(fit2)
##
                            (Intercept) Airbnb_cleaned$room_typePrivate room
##
                             4.66441052
                                                                  -0.07484794
##
   Airbnb_cleaned$room_typeShared room
                            -0.11635326
confint(fit2, level=0.95)
                                                         97.5 %
##
                                              2.5 %
## (Intercept)
                                         4.65550925 4.67331179
## Airbnb_cleaned$room_typePrivate room -0.08838547 -0.06131040
## Airbnb_cleaned$room_typeShared room -0.15838821 -0.07431832
t.test(Airbnb_cleaned$overall_satisfaction,Airbnb_cleaned$actual_rate)
##
   Welch Two Sample t-test
## data: Airbnb cleaned$overall satisfaction and Airbnb cleaned$actual rate
## t = -124.41, df = 18838, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -81.64727 -79.11443
## sample estimates:
## mean of x mean of y
    4.62987 85.01072
##
# paired t-test
t.test(Airbnb_cleaned$overall_satisfaction,Airbnb_cleaned$bedrooms,paired=TRUE)
## Paired t-test
## data: Airbnb_cleaned$overall_satisfaction and Airbnb_cleaned$bedrooms
## t = 738.99, df = 18837, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 3.599436 3.618581
## sample estimates:
## mean of the differences
```

```
##
                 3.609008
t.test(Airbnb_cleaned$overall_satisfaction,Airbnb_cleaned$actual_rate,paired = TRUE)
##
## Paired t-test
##
## data: Airbnb_cleaned$overall_satisfaction and Airbnb_cleaned$actual_rate
## t = -124.43, df = 18837, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -81.64701 -79.11469
## sample estimates:
## mean of the differences
##
                -80.38085
res <- t.test(Airbnb_cleaned$overall_satisfaction, mu = 25)
# printing the mean
res$estimate
## mean of x
    4.62987
# printing the confidence interval
res$conf.int
## [1] 4.623229 4.636512
## attr(,"conf.level")
## [1] 0.95
#The table above presents the effects for the predictors.
# 1 ) The second column shows the parameter estimates: a negative estimate means that there is
# a negative impact to the price. The opposite can be said for a positive estimate.
# 2 )The final column indicates the significance of the pattern: the more stars, the more significant
#the effect (for p < 0.05).
# 3) When testing for significance we use a simple two-sided t-test.
# When testing we test for the variables parameter estimate to be Since we have a large test size,
# our distribution will be approximately normal distributed.
#4) The critical value for a normal distribution on a 95% confidence interval is 1.96.
# 5) Surprisingly the occupancy of apartments has a positive significant effect on the price.
#The more people who can live in the apartment the more expensive it should be, as the visitors will
# probably split the costs. Also, the accommodation variable could be positive correlated with the size
#of the apartment.which would also lead to higher prices.
#6 )The final two variables does not show any significant influence on the price
```