My Project Code.R

**Analysis of Hotel Pricing in Indian Market**

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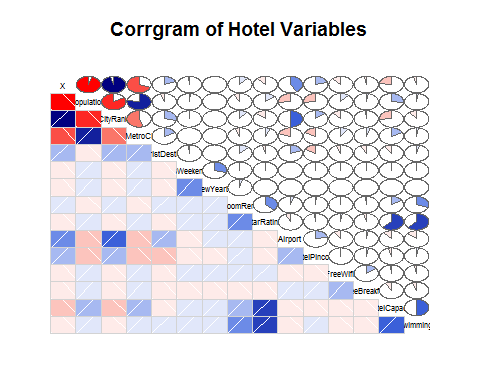
# Analysis of Hotel Pricing  
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# COLLEGE : Oregon State University, Corvallis  
  
setwd('C:/Users/purba/Desktop/R')  
hotels.df <- read.csv(paste("Cities42.csv", sep=""))  
summary(hotels.df)

## X CityName Population CityRank   
## Min. : 1 Delhi :2048 Min. : 8096 Min. : 0.00   
## 1st Qu.: 3309 Jaipur : 768 1st Qu.: 744983 1st Qu.: 2.00   
## Median : 6616 Mumbai : 712 Median : 3046163 Median : 9.00   
## Mean : 6616 Bangalore: 656 Mean : 4416837 Mean :14.83   
## 3rd Qu.: 9924 Goa : 624 3rd Qu.: 8443675 3rd Qu.:24.00   
## Max. :13232 Kochi : 608 Max. :12442373 Max. :44.00   
## (Other) :7816   
## IsMetroCity IsTouristDestination IsWeekend IsNewYearEve   
## Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000   
## 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000   
## Median :0.0000 Median :1.0000 Median :1.0000 Median :0.0000   
## Mean :0.2842 Mean :0.6972 Mean :0.6228 Mean :0.1244   
## 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:0.0000   
## Max. :1.0000 Max. :1.0000 Max. :1.0000 Max. :1.0000   
##   
## Date HotelName RoomRent   
## Dec 21 2016:1611 Vivanta by Taj : 32 Min. : 299   
## Dec 24 2016:1611 Goldfinch Hotel : 24 1st Qu.: 2436   
## Dec 25 2016:1611 OYO Rooms : 24 Median : 4000   
## Dec 28 2016:1611 The Gordon House Hotel: 24 Mean : 5474   
## Dec 31 2016:1611 Apnayt Villa : 16 3rd Qu.: 6299   
## Dec 18 2016:1608 Bentleys Hotel Colaba : 16 Max. :322500   
## (Other) :3569 (Other) :13096   
## StarRating Airport   
## Min. :0.000 Min. : 0.20   
## 1st Qu.:3.000 1st Qu.: 8.40   
## Median :3.000 Median : 15.00   
## Mean :3.459 Mean : 21.16   
## 3rd Qu.:4.000 3rd Qu.: 24.00   
## Max. :5.000 Max. :124.00   
##   
## HotelAddress   
## The Mall, Shimla : 32   
## #2-91/14/8, White Fields, Kondapur, Hitech City, Hyderabad, 500084 India: 16   
## 121, City Terrace, Walchand Hirachand Marg, Mumbai, Maharashtra : 16   
## 14-4507/9, Balmatta Road, Near Jyothi Circle, Hampankatta : 16   
## 144/7, Rajiv Gandi Salai (OMR), Kottivakkam, Chennai, Tamil Nadu : 16   
## 17, Oliver Road, Colaba, Mumbai, Maharashtra : 16   
## (Other) :13120   
## HotelPincode HotelDescription FreeWifi FreeBreakfast   
## Min. : 100025 3 : 120 Min. :0.0000 Min. :0.0000   
## 1st Qu.: 221001 Abc : 112 1st Qu.:1.0000 1st Qu.:0.0000   
## Median : 395003 3-star hotel: 104 Median :1.0000 Median :1.0000   
## Mean : 397430 3.5 : 88 Mean :0.9259 Mean :0.6491   
## 3rd Qu.: 570001 4 : 72 3rd Qu.:1.0000 3rd Qu.:1.0000   
## Max. :7000157 (Other) :12728 Max. :1.0000 Max. :1.0000   
## NA's : 8   
## HotelCapacity HasSwimmingPool   
## Min. : 0.00 Min. :0.0000   
## 1st Qu.: 16.00 1st Qu.:0.0000   
## Median : 34.00 Median :0.0000   
## Mean : 62.51 Mean :0.3558   
## 3rd Qu.: 75.00 3rd Qu.:1.0000   
## Max. :600.00 Max. :1.0000   
##

library(psych)  
describe(hotels.df)

## vars n mean sd median trimmed  
## X 1 13232 6616.50 3819.89 6616.5 6616.50  
## CityName\* 2 13232 18.07 11.72 16.0 17.29  
## Population 3 13232 4416836.87 4258386.00 3046163.0 4040816.22  
## CityRank 4 13232 14.83 13.51 9.0 13.30  
## IsMetroCity 5 13232 0.28 0.45 0.0 0.23  
## IsTouristDestination 6 13232 0.70 0.46 1.0 0.75  
## IsWeekend 7 13232 0.62 0.48 1.0 0.65  
## IsNewYearEve 8 13232 0.12 0.33 0.0 0.03  
## Date\* 9 13232 14.26 2.82 14.0 14.39  
## HotelName\* 10 13232 841.19 488.16 827.0 841.18  
## RoomRent 11 13232 5473.99 7333.12 4000.0 4383.33  
## StarRating 12 13232 3.46 0.76 3.0 3.40  
## Airport 13 13232 21.16 22.76 15.0 16.39  
## HotelAddress\* 14 13232 1202.53 582.17 1261.0 1233.25  
## HotelPincode 15 13232 397430.26 259837.50 395003.0 388540.47  
## HotelDescription\* 16 13224 581.34 363.26 567.0 575.37  
## FreeWifi 17 13232 0.93 0.26 1.0 1.00  
## FreeBreakfast 18 13232 0.65 0.48 1.0 0.69  
## HotelCapacity 19 13232 62.51 76.66 34.0 46.03  
## HasSwimmingPool 20 13232 0.36 0.48 0.0 0.32  
## mad min max range skew  
## X 4904.44 1.0 13232 13231.0 0.00  
## CityName\* 11.86 1.0 42 41.0 0.48  
## Population 3846498.95 8096.0 12442373 12434277.0 0.68  
## CityRank 11.86 0.0 44 44.0 0.69  
## IsMetroCity 0.00 0.0 1 1.0 0.96  
## IsTouristDestination 0.00 0.0 1 1.0 -0.86  
## IsWeekend 0.00 0.0 1 1.0 -0.51  
## IsNewYearEve 0.00 0.0 1 1.0 2.28  
## Date\* 2.97 1.0 20 19.0 -1.05  
## HotelName\* 641.97 1.0 1670 1669.0 0.01  
## RoomRent 2653.85 299.0 322500 322201.0 16.75  
## StarRating 0.74 0.0 5 5.0 0.48  
## Airport 11.12 0.2 124 123.8 2.73  
## HotelAddress\* 668.65 1.0 2108 2107.0 -0.37  
## HotelPincode 257975.37 100025.0 7000157 6900132.0 9.99  
## HotelDescription\* 472.95 1.0 1226 1225.0 0.11  
## FreeWifi 0.00 0.0 1 1.0 -3.25  
## FreeBreakfast 0.00 0.0 1 1.0 -0.62  
## HotelCapacity 28.17 0.0 600 600.0 2.95  
## HasSwimmingPool 0.00 0.0 1 1.0 0.60  
## kurtosis se  
## X -1.20 33.21  
## CityName\* -0.88 0.10  
## Population -1.08 37019.65  
## CityRank -0.76 0.12  
## IsMetroCity -1.08 0.00  
## IsTouristDestination -1.26 0.00  
## IsWeekend -1.74 0.00  
## IsNewYearEve 3.18 0.00  
## Date\* 2.93 0.02  
## HotelName\* -1.25 4.24  
## RoomRent 582.06 63.75  
## StarRating 0.25 0.01  
## Airport 7.89 0.20  
## HotelAddress\* -0.88 5.06  
## HotelPincode 249.76 2258.86  
## HotelDescription\* -1.25 3.16  
## FreeWifi 8.57 0.00  
## FreeBreakfast -1.61 0.00  
## HotelCapacity 11.39 0.67  
## HasSwimmingPool -1.64 0.00

hotels.df$Date <- gsub("18-Dec- 16", "Dec 18 2016", hotels.df$Date)  
hotels.df$Date <- gsub("21-Dec- 16", "Dec 21 2016", hotels.df$Date)  
hotels.df$Date <- gsub("24-Dec- 16", "Dec 24 2016", hotels.df$Date)  
hotels.df$Date <- gsub("25-Dec- 16", "Dec 25 2016", hotels.df$Date)  
hotels.df$Date <- gsub("28-Dec- 16", "Dec 28 2016", hotels.df$Date)  
hotels.df$Date <- gsub("31-Dec- 16", "Dec 31 2016", hotels.df$Date)  
hotels.df$Date <- gsub("4-Jan- 16", "Jan 04 2016", hotels.df$Date)  
hotels.df$Date <- gsub("4-Jan- 17", "Jan 04 2017", hotels.df$Date)  
hotels.df$Date <- gsub("8-Jan- 16", "Jan 08 2016", hotels.df$Date)  
hotels.df$Date <- gsub("8-Jan- 17", "Jan 08 2017", hotels.df$Date)  
hotels.df$Date <- gsub("Jan 4 17", "Jan 04 2017", hotels.df$Date)  
hotels.df$Date <- gsub("Jan 8 17", "Jan 08 2017", hotels.df$Date)  
  
library(corrgram)  
corrgram(hotels.df, main="Corrgram of Hotel Variables", lower.panel=panel.shade,  
 upper.panel=panel.pie,  
 text.panel=panel.txt)

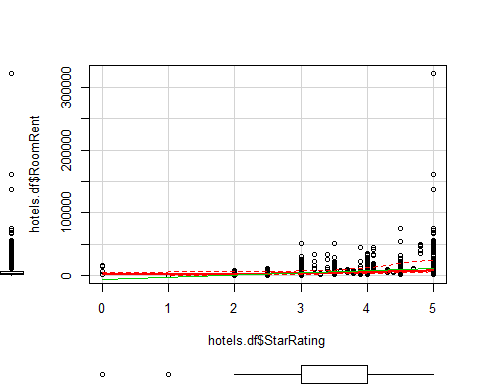


### As per the corrgram, I listed out room rent, star rating, Hotel Capacity   
### and Has Swimmming Pool shares stron correlation among each other.  
### Hence, we can consider star rating has the dependent variable  
### and room rent, Hotel Capacity   
### and Has Swimmming Pool as independent variables  
### Following analysis has been done for the same.  
  
new\_table <- data.frame(hotels.df$RoomRent,hotels.df$HotelCapacity,hotels.df$HasSwimmingPool, hotels.df$StarRating)  
View(new\_table)  
roomrent\_table <- table(hotels.df$RoomRent)  
View(roomrent\_table)  
  
library(car)

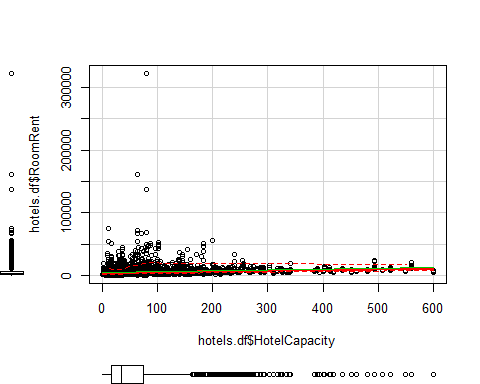
##   
## Attaching package: 'car'

## The following object is masked from 'package:psych':  
##   
## logit

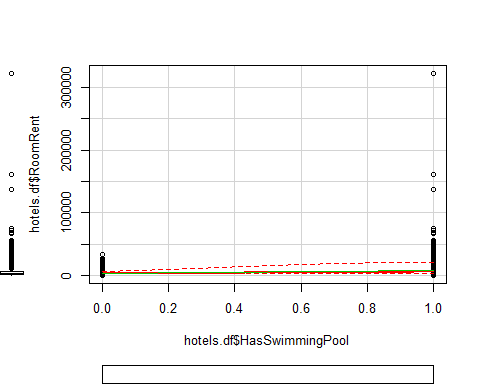
scatterplot(hotels.df$StarRating, hotels.df$RoomRent)



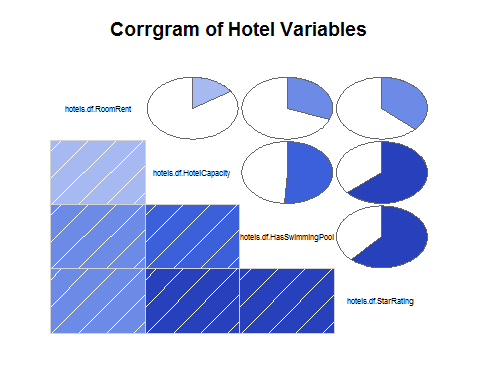
scatterplot(hotels.df$HotelCapacity, hotels.df$RoomRent)



scatterplot(hotels.df$HasSwimmingPool, hotels.df$RoomRent)



library(corrgram)  
corrgram(new\_table, main="Corrgram of Hotel Variables", lower.panel=panel.shade,  
 upper.panel=panel.pie,  
 text.panel=panel.txt)



var(hotels.df$StarRating, hotels.df$RoomRent)

## [1] 2048.375

var(hotels.df$HotelCapacity, hotels.df$RoomRent)

## [1] 88753.41

var(hotels.df$HasSwimmingPool, hotels.df$RoomRent)

## [1] 1094.202

##Hypothesis is average room rent is with higher star   
##rating hotels is more than the ones with low star rating  
t.test(hotels.df$RoomRent, hotels.df$StarRating)

##   
## Welch Two Sample t-test  
##   
## data: hotels.df$RoomRent and hotels.df$StarRating  
## t = 85.813, df = 13231, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5345.575 5595.491  
## sample estimates:  
## mean of x mean of y   
## 5473.991838 3.458933

##Hypothesis is tourist destination has more population   
t.test(hotels.df$IsTouristDestination, hotels.df$Population)

##   
## Welch Two Sample t-test  
##   
## data: hotels.df$IsTouristDestination and hotels.df$Population  
## t = -119.31, df = 13231, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4489400 -4344272  
## sample estimates:  
## mean of x mean of y   
## 6.971735e-01 4.416837e+06

##Hypothesis is higher city rank cities have more number of star rating hotels  
t.test(hotels.df$StarRating, hotels.df$CityRank)

##   
## Welch Two Sample t-test  
##   
## data: hotels.df$StarRating and hotels.df$CityRank  
## t = -96.681, df = 13314, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.60542 -11.14419  
## sample estimates:  
## mean of x mean of y   
## 3.458933 14.833736

##Hypothesis average hotel capacity is always more for star rating hotels  
t.test(hotels.df$HotelCapacity, hotels.df$StarRating)

##   
## Welch Two Sample t-test  
##   
## data: hotels.df$HotelCapacity and hotels.df$StarRating  
## t = 88.602, df = 13234, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 57.74628 60.35913  
## sample estimates:  
## mean of x mean of y   
## 62.511638 3.458933

##Hotels closer to airport has higher star ratings  
t.test(hotels.df$Airport, hotels.df$StarRating)

##   
## Welch Two Sample t-test  
##   
## data: hotels.df$Airport and hotels.df$StarRating  
## t = 89.407, df = 13260, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 17.31176 18.08786  
## sample estimates:  
## mean of x mean of y   
## 21.158744 3.458933

##Hotels closer to airport has higher room rent  
t.test(hotels.df$Airport, hotels.df$RoomRent)

##   
## Welch Two Sample t-test  
##   
## data: hotels.df$Airport and hotels.df$RoomRent  
## t = -85.535, df = 13231, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5577.792 -5327.875  
## sample estimates:  
## mean of x mean of y   
## 21.15874 5473.99184

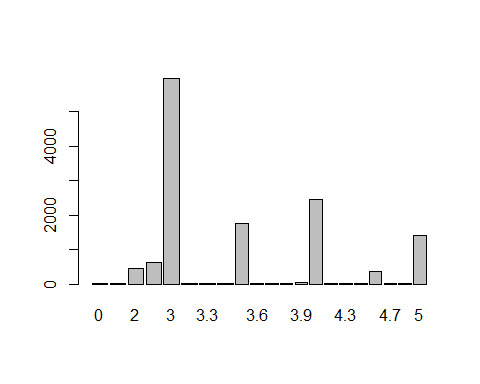
###Comparing with other variables  
counts <- table(hotels.df$StarRating)  
barplot(counts,hotels.df$StarRating, data = hotels.df )

## Warning in plot.window(xlim, ylim, log = log, ...): "data" is not a  
## graphical parameter

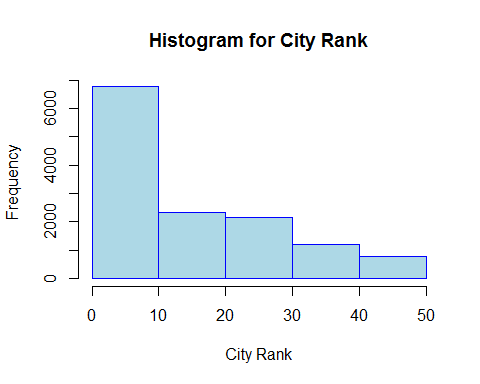
## Warning in axis(if (horiz) 2 else 1, at = at.l, labels = names.arg, lty =  
## axis.lty, : "data" is not a graphical parameter

## Warning in title(main = main, sub = sub, xlab = xlab, ylab = ylab, ...):  
## "data" is not a graphical parameter

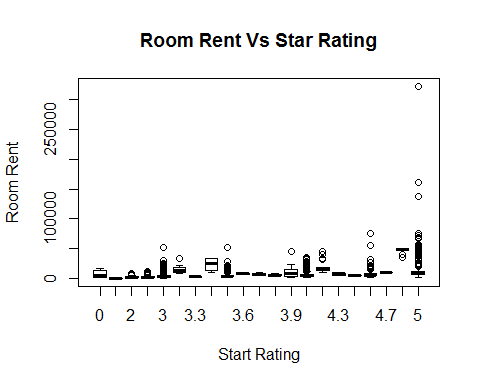
## Warning in axis(if (horiz) 1 else 2, cex.axis = cex.axis, ...): "data" is  
## not a graphical parameter



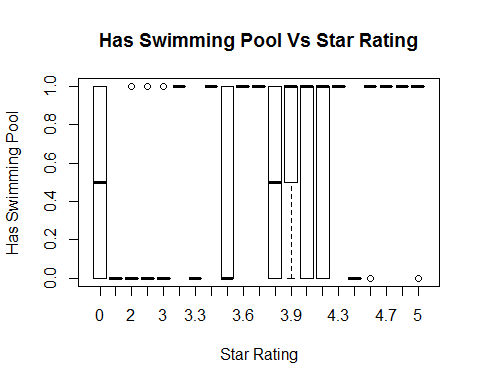
## This gives the number of hotels in each city  
hist(hotels.df$CityRank, main="Histogram for City Rank",xlab="City Rank",   
 border="blue",col="light blue",  
 breaks=5)



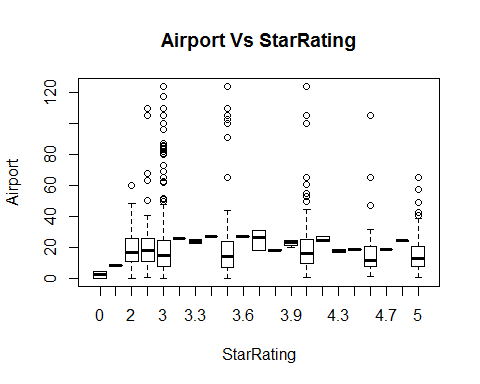
boxplot(hotels.df$RoomRent~hotels.df$StarRating,data=hotels.df,   
 main="Room Rent Vs Star Rating",   
 xlab="Start Rating", ylab="Room Rent")



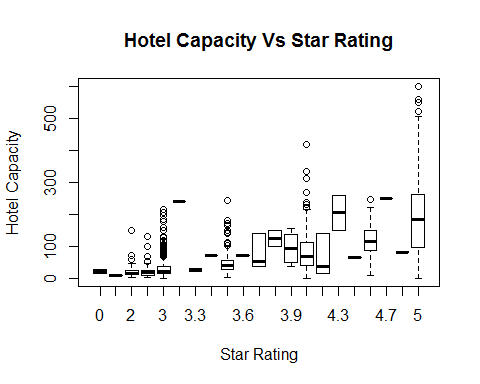
boxplot(hotels.df$HasSwimmingPool~hotels.df$StarRating,data=hotels.df,   
 main="Has Swimming Pool Vs Star Rating",   
 xlab="Star Rating", ylab="Has Swimming Pool")



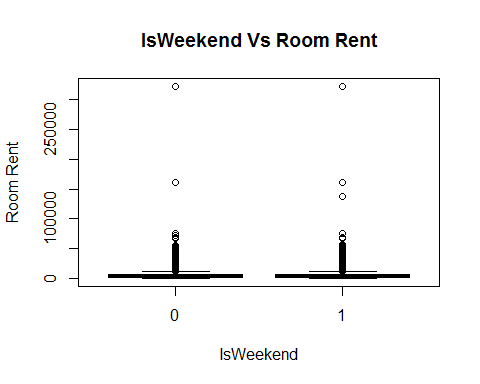
boxplot(hotels.df$Airport~hotels.df$StarRating,data=hotels.df,   
 main="Airport Vs StarRating",   
 xlab="StarRating", ylab="Airport")



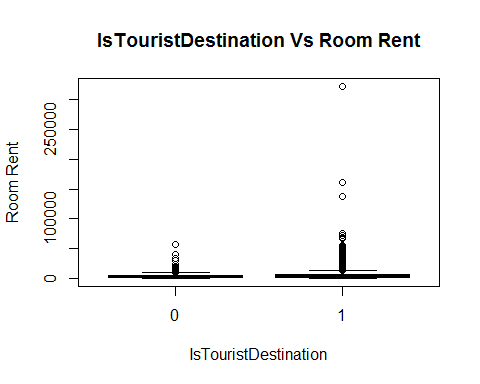
boxplot(hotels.df$HotelCapacity~hotels.df$StarRating,data=hotels.df,   
 main="Hotel Capacity Vs Star Rating",   
 xlab="Star Rating", ylab="Hotel Capacity")



boxplot(hotels.df$RoomRent~hotels.df$IsWeekend,data=hotels.df,   
 main="IsWeekend Vs Room Rent",   
 xlab="IsWeekend", ylab="Room Rent")



boxplot(hotels.df$RoomRent~hotels.df$IsTouristDestination,data=hotels.df,   
 main="IsTouristDestination Vs Room Rent",   
 xlab="IsTouristDestination", ylab="Room Rent")



## Regression Model  
model1 <- lm(hotels.df$RoomRent~hotels.df$StarRating+hotels.df$HotelCapacity+hotels.df$HasSwimmingPool, data = hotels.df)  
summary(model1)

##   
## Call:  
## lm(formula = hotels.df$RoomRent ~ hotels.df$StarRating + hotels.df$HotelCapacity +   
## hotels.df$HasSwimmingPool, data = hotels.df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -10804 -2295 -946 1002 310110   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -6896.154 340.549 -20.25 <2e-16 \*\*\*  
## hotels.df$StarRating 3597.322 111.670 32.21 <2e-16 \*\*\*  
## hotels.df$HotelCapacity -15.558 1.006 -15.47 <2e-16 \*\*\*  
## hotels.df$HasSwimmingPool 2528.885 157.894 16.02 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 6710 on 13228 degrees of freedom  
## Multiple R-squared: 0.1628, Adjusted R-squared: 0.1626   
## F-statistic: 857.5 on 3 and 13228 DF, p-value: < 2.2e-16

coefficients(model1)

## (Intercept) hotels.df$StarRating   
## -6896.15387 3597.32177   
## hotels.df$HotelCapacity hotels.df$HasSwimmingPool   
## -15.55769 2528.88529

residuals(model1)

## 1 2 3 4 5   
## 3.220717e+03 1.095717e+03 7.457166e+02 1.195717e+03 2.845717e+03   
## 6 7 8 9 10   
## 2.320717e+03 2.065717e+03 7.071660e+01 -2.575179e+02 2.292482e+03   
## 11 12 13 14 15   
## 2.941482e+03 2.941482e+03 2.941482e+03 2.941482e+03 2.941482e+03   
## 16 17 18 19 20   
## 2.941482e+03 -1.654500e+03 -1.654500e+03 -1.654500e+03 -8.294995e+02   
## 21 22 23 24 25   
## -8.294995e+02 -1.734995e+02 -1.734995e+02 -1.654500e+03 9.122966e+03   
## 26 27 28 29 30   
## 9.092966e+03 1.579297e+04 9.592966e+03 1.059297e+04 1.059297e+04   
## 31 32 33 34 35   
## 7.852966e+03 9.122966e+03 -4.755878e+02 -6.455878e+02 -4.755878e+02   
## 36 37 38 39 40   
## -4.755878e+02 -2.205878e+02 -6.455878e+02 -2.205878e+02 -2.205878e+02   
## 41 42 43 44 45   
## -1.306869e+03 -8.068692e+02 -8.068692e+02 -8.068692e+02 -1.306869e+03   
## 46 47 48 49 50   
## -1.306869e+03 -8.068692e+02 -8.068692e+02 4.132150e+03 4.132150e+03   
## 51 52 53 54 55   
## 4.132150e+03 4.132150e+03 4.132150e+03 4.132150e+03 3.061150e+03   
## 56 57 58 59 60   
## 1.989150e+03 3.649619e+03 3.649619e+03 3.649619e+03 3.649619e+03   
## 61 62 63 64 65   
## 4.649619e+03 4.649619e+03 4.649619e+03 4.649619e+03 1.974650e+03   
## 66 67 68 69 70   
## 1.974650e+03 3.143650e+03 3.143650e+03 3.143650e+03 1.974650e+03   
## 71 72 73 74 75   
## 1.974650e+03 1.974650e+03 1.710938e+03 1.710938e+03 1.710938e+03   
## 76 77 78 79 80   
## 1.710938e+03 3.210938e+03 1.710938e+03 1.710938e+03 1.710938e+03   
## 81 82 83 84 85   
## 3.213188e+03 2.313188e+03 3.213188e+03 2.313188e+03 2.313188e+03   
## 86 87 88 89 90   
## 2.313188e+03 3.213188e+03 2.413188e+03 -1.708075e+01 -1.150808e+02   
## 91 92 93 94 95   
## -1.150808e+02 -1.150808e+02 -1.150808e+02 -1.150808e+02 -1.150808e+02   
## 96 97 98 99 100   
## -1.150808e+02 -2.664280e+03 -2.664280e+03 -2.054280e+03 -2.054280e+03   
## 101 102 103 104 105   
## -2.054280e+03 -2.664280e+03 -2.664280e+03 -2.664280e+03 -1.174338e+03   
## 106 107 108 109 110   
## 5.756623e+02 5.756623e+02 2.225662e+03 -1.743377e+02 2.225662e+03   
## 111 112 113 114 115   
## -1.743377e+02 -1.174338e+03 1.642965e+03 1.642965e+03 1.642965e+03   
## 116 117 118 119 120   
## 1.642965e+03 1.642965e+03 3.052965e+03 4.825965e+03 3.052965e+03   
## 121 122 123 124 125   
## 5.546029e+03 5.546029e+03 5.546029e+03 5.546029e+03 5.546029e+03   
## 126 127 128 129 130   
## 5.546029e+03 4.246029e+03 4.246029e+03 2.630010e+03 2.630010e+03   
## 131 132 133 134 135   
## 2.630010e+03 2.864010e+03 3.217010e+03 3.217010e+03 2.630010e+03   
## 136 137 138 139 140   
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## -8.307288e+03 -8.307288e+03 -2.964172e+03 -2.964172e+03 -2.964172e+03   
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## -2.964172e+03 -2.264172e+03 -2.264172e+03 -2.264172e+03 -2.264172e+03   
## 13201 13202 13203 13204 13205   
## 6.513859e+02 2.051386e+03 2.051386e+03 2.051386e+03 2.051386e+03   
## 13206 13207 13208 13209 13210   
## 2.051386e+03 6.513859e+02 6.513859e+02 3.366167e+02 6.006167e+02   
## 13211 13212 13213 13214 13215   
## 5.326167e+02 5.036167e+02 3.886167e+02 1.966167e+02 -7.163833e+02   
## 13216 13217 13218 13219 13220   
## -1.636383e+03 -2.891153e+03 -2.524153e+03 -2.092153e+03 -2.092153e+03   
## 13221 13222 13223 13224 13225   
## -2.092153e+03 -2.092153e+03 -2.891153e+03 -2.891153e+03 -2.568782e+03   
## 13226 13227 13228 13229 13230   
## -5.667821e+02 -5.667821e+02 -5.667821e+02 -5.667821e+02 -5.667821e+02   
## 13231 13232   
## -5.667821e+02 -2.568782e+03

model2 <- lm(hotels.df$RoomRent~hotels.df$StarRating+hotels.df$HotelCapacity  
 +hotels.df$HasSwimmingPool+hotels.df$Airport, data = hotels.df)  
summary(model2)

##   
## Call:  
## lm(formula = hotels.df$RoomRent ~ hotels.df$StarRating + hotels.df$HotelCapacity +   
## hotels.df$HasSwimmingPool + hotels.df$Airport, data = hotels.df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -10785 -2265 -876 982 310437   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -7288.048 341.691 -21.329 <2e-16 \*\*\*  
## hotels.df$StarRating 3522.990 111.531 31.588 <2e-16 \*\*\*  
## hotels.df$HotelCapacity -14.776 1.006 -14.695 <2e-16 \*\*\*  
## hotels.df$HasSwimmingPool 2708.400 158.397 17.099 <2e-16 \*\*\*  
## hotels.df$Airport 25.344 2.590 9.786 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 6687 on 13227 degrees of freedom  
## Multiple R-squared: 0.1688, Adjusted R-squared: 0.1686   
## F-statistic: 671.7 on 4 and 13227 DF, p-value: < 2.2e-16

coefficients(model2)

## (Intercept) hotels.df$StarRating   
## -7288.04830 3522.99002   
## hotels.df$HotelCapacity hotels.df$HasSwimmingPool   
## -14.77562 2708.40013   
## hotels.df$Airport   
## 25.34377

residuals(model2)

## 1 2 3 4 5   
## 3.048082e+03 9.230817e+02 5.730817e+02 1.023082e+03 2.673082e+03   
## 6 7 8 9 10   
## 2.148082e+03 1.893082e+03 -1.019183e+02 -9.706986e+01 2.452930e+03   
## 11 12 13 14 15   
## 3.101930e+03 3.101930e+03 3.101930e+03 3.101930e+03 3.101930e+03   
## 16 17 18 19 20   
## 3.101930e+03 -1.719708e+03 -1.719708e+03 -1.719708e+03 -8.947084e+02   
## 21 22 23 24 25   
## -8.947084e+02 -2.387084e+02 -2.387084e+02 -1.719708e+03 8.762170e+03   
## 26 27 28 29 30   
## 8.732170e+03 1.543217e+04 9.232170e+03 1.023217e+04 1.023217e+04   
## 31 32 33 34 35   
## 7.492170e+03 8.762170e+03 -3.695112e+02 -5.395112e+02 -3.695112e+02   
## 36 37 38 39 40   
## -3.695112e+02 -1.145112e+02 -5.395112e+02 -1.145112e+02 -1.145112e+02   
## 41 42 43 44 45   
## -1.218407e+03 -7.184067e+02 -7.184067e+02 -7.184067e+02 -1.218407e+03   
## 46 47 48 49 50   
## -1.218407e+03 -7.184067e+02 -7.184067e+02 4.213574e+03 4.213574e+03   
## 51 52 53 54 55   
## 4.213574e+03 4.213574e+03 4.213574e+03 4.213574e+03 3.142574e+03   
## 56 57 58 59 60   
## 2.070574e+03 3.682928e+03 3.682928e+03 3.682928e+03 3.682928e+03   
## 61 62 63 64 65   
## 4.682928e+03 4.682928e+03 4.682928e+03 4.682928e+03 2.010396e+03   
## 66 67 68 69 70   
## 2.010396e+03 3.179396e+03 3.179396e+03 3.179396e+03 2.010396e+03   
## 71 72 73 74 75   
## 2.010396e+03 2.010396e+03 1.788452e+03 1.788452e+03 1.788452e+03   
## 76 77 78 79 80   
## 1.788452e+03 3.288452e+03 1.788452e+03 1.788452e+03 1.788452e+03   
## 81 82 83 84 85   
## 3.280535e+03 2.380535e+03 3.280535e+03 2.380535e+03 2.380535e+03   
## 86 87 88 89 90   
## 2.380535e+03 3.280535e+03 2.480535e+03 1.435027e+02 4.550271e+01   
## 91 92 93 94 95   
## 4.550271e+01 4.550271e+01 4.550271e+01 4.550271e+01 4.550271e+01   
## 96 97 98 99 100   
## 4.550271e+01 -2.498131e+03 -2.498131e+03 -1.888131e+03 -1.888131e+03   
## 101 102 103 104 105   
## -1.888131e+03 -2.498131e+03 -2.498131e+03 -2.498131e+03 -9.870728e+02   
## 106 107 108 109 110   
## 7.629272e+02 7.629272e+02 2.412927e+03 1.292716e+01 2.412927e+03   
## 111 112 113 114 115   
## 1.292716e+01 -9.870728e+02 1.722269e+03 1.722269e+03 1.722269e+03   
## 116 117 118 119 120   
## 1.722269e+03 1.722269e+03 3.132269e+03 4.905269e+03 3.132269e+03   
## 121 122 123 124 125   
## 5.603027e+03 5.603027e+03 5.603027e+03 5.603027e+03 5.603027e+03   
## 126 127 128 129 130   
## 5.603027e+03 4.303027e+03 4.303027e+03 2.668703e+03 2.668703e+03   
## 131 132 133 134 135   
## 2.668703e+03 2.902703e+03 3.255703e+03 3.255703e+03 2.668703e+03   
## 136 137 138 139 140   
## 2.668703e+03 -1.444797e+03 -1.037797e+03 -1.543797e+03 -1.543797e+03   
## 141 142 143 144 145   
## -1.543797e+03 -1.037797e+03 -1.847797e+03 -1.847797e+03 -1.499100e+03   
## 146 147 148 149 150   
## -1.499100e+03 -1.499100e+03 -1.499100e+03 -1.499100e+03 -1.020100e+03   
## 151 152 153 154 155   
## -1.020100e+03 -1.020100e+03 -4.627158e+03 -4.127158e+03 -4.627158e+03   
## 156 157 158 159 160   
## -4.627158e+03 -4.127158e+03 -4.627158e+03 -2.927158e+03 -2.927158e+03   
## 161 162 163 164 165   
## -4.640490e+03 -4.640490e+03 -4.640490e+03 -5.890490e+03 -5.640490e+03   
## 166 167 168 169 170   
## -5.890490e+03 -3.140490e+03 -3.140490e+03 2.778302e+03 1.328302e+03   
## 171 172 173 174 175   
## 1.328302e+03 1.328302e+03 1.328302e+03 2.828302e+03 2.828302e+03   
## 176 177 178 179 180   
## 4.828302e+03 5.542794e+03 3.342794e+03 3.702794e+03 4.162794e+03   
## 181 182 183 184 185   
## 6.597794e+03 1.704179e+04 6.132794e+03 5.082794e+03 2.741487e+03   
## 186 187 188 189 190   
## 2.341487e+03 2.341487e+03 2.341487e+03 4.241487e+03 2.741487e+03   
## 191 192 193 194 195   
## 3.741487e+03 2.742487e+03 3.699042e+02 1.199042e+02 1.119904e+03   
## 196 197 198 199 200   
## 1.199042e+02 6.119904e+03 6.119904e+03 2.119904e+03 3.699042e+02   
## 201 202 203 204 205   
## -3.609451e+01 -3.609451e+01 -3.609451e+01 -3.609451e+01 -3.609451e+01   
## 206 207 208 209 210   
## -3.609451e+01 5.242905e+03 6.413905e+03 3.189736e+03 3.381736e+03   
## 211 212 213 214 215   
## 3.381736e+03 3.189736e+03 3.189736e+03 3.189736e+03 3.381736e+03   
## 216 217 218 219 220   
## 3.189736e+03 2.600158e+03 3.301158e+03 3.220158e+03 3.220158e+03   
## 221 222 223 224 225   
## 3.220158e+03 3.301158e+03 3.301158e+03 3.301158e+03 4.895267e+02   
## 226 227 228 229 230   
## 9.195267e+02 1.169527e+03 7.445267e+02 9.195267e+02 7.445267e+02   
## 231 232 233 234 235   
## 9.195267e+02 1.419527e+03 1.350904e+03 1.350904e+03 1.350904e+03   
## 236 237 238 239 240   
## 1.350904e+03 1.350904e+03 7.350904e+03 4.350904e+03 1.850904e+03   
## 241 242 243 244 245   
## 3.328769e+03 1.328769e+03 1.078769e+03 1.328769e+03 1.328769e+03   
## 246 247 248 249 250   
## 3.328769e+03 1.328769e+03 1.328769e+03 4.416799e+03 4.416799e+03   
## 251 252 253 254 255   
## 4.416799e+03 4.416799e+03 4.416799e+03 4.416799e+03 5.636799e+03   
## 256 257 258 259 260   
## 5.636799e+03 -1.134679e+03 -3.346790e+02 -3.346790e+02 -3.346790e+02   
## 261 262 263 264 265   
## -3.346790e+02 3.653210e+02 3.653210e+02 3.653210e+02 1.002815e+03   
## 266 267 268 269 270   
## 1.002815e+03 2.528150e+02 4.528150e+02 4.528150e+02 1.302815e+03   
## 271 272 273 274 275   
## 1.502815e+03 1.502815e+03 -4.065028e+03 -2.064028e+03 -4.565028e+03   
## 276 277 278 279 280   
## -2.064028e+03 -5.665028e+03 -1.664028e+03 1.935972e+03 -3.664028e+03   
## 281 282 283 284 285   
## 1.002815e+03 1.002815e+03 2.528150e+02 4.528150e+02 4.528150e+02   
## 286 287 288 289 290   
## 1.302815e+03 1.502815e+03 1.502815e+03 -4.065028e+03 -2.064028e+03   
## 291 292 293 294 295   
## -4.565028e+03 -2.064028e+03 -5.665028e+03 -1.664028e+03 1.935972e+03   
## 296 297 298 299 300   
## -3.664028e+03 1.268421e+03 7.684208e+02 2.684208e+02 2.684208e+02   
## 301 302 303 304 305   
## 2.684208e+02 2.684208e+02 2.684208e+02 3.218421e+03 -1.764332e+03   
## 306 307 308 309 310   
## -1.764332e+03 -1.764332e+03 -1.764332e+03 -1.764332e+03 -1.764332e+03   
## 311 312 313 314 315   
## -5.643322e+02 4.356678e+02 1.280342e+03 1.280342e+03 1.280342e+03   
## 316 317 318 319 320   
## 1.280342e+03 1.280342e+03 1.280342e+03 6.069342e+03 5.963342e+03   
## 321 322 323 324 325   
## -1.510251e+03 -7.102515e+02 -1.510251e+03 -1.510251e+03 -7.102515e+02   
## 326 327 328 329 330   
## 8.897485e+02 -8.102515e+02 -8.102515e+02 5.220280e+03 5.220280e+03   
## 331 332 333 334 335   
## 4.720280e+03 4.720280e+03 4.720280e+03 4.720280e+03 4.720280e+03   
## 336 337 338 339 340   
## 4.720280e+03 -2.719077e+03 -2.719077e+03 -2.369077e+03 -2.719077e+03   
## 341 342 343 344 345   
## -2.719077e+03 2.324923e+03 -1.190773e+02 -1.190773e+02 1.058594e+03   
## 346 347 348 349 350   
## 1.058594e+03 1.058594e+03 1.058594e+03 1.598594e+03 1.058594e+03   
## 351 352 353 354 355   
## 1.058594e+03 5.985940e+02 3.057145e+03 3.057145e+03 3.057145e+03   
## 356 357 358 359 360   
## 3.057145e+03 3.057145e+03 2.057145e+03 2.057145e+03 2.057145e+03   
## 361 362 363 364 365   
## 1.003855e+03 1.003855e+03 1.004855e+03 1.004855e+03 1.004855e+03   
## 366 367 368 369 370   
## 1.503855e+03 1.003855e+03 1.003855e+03 -5.435408e+02 -5.435408e+02   
## 371 372 373 374 375   
## -2.335408e+02 -5.035408e+02 -5.035408e+02 -5.035408e+02 -5.035408e+02   
## 376 377 378 379 380   
## -5.035408e+02 -9.974233e+02 -9.974233e+02 -9.974233e+02 -9.974233e+02   
## 381 382 383 384 385   
## -1.974233e+02 -9.974233e+02 1.715767e+02 -6.024233e+02 -3.410278e+02   
## 386 387 388 389 390   
## -3.410278e+02 -3.410278e+02 -3.410278e+02 -3.410278e+02 -3.410278e+02   
## 391 392 393 394 395   
## -7.960278e+02 -7.960278e+02 -1.404915e+03 -1.404915e+03 -8.799153e+02   
## 396 397 398 399 400   
## -8.799153e+02 -1.104915e+03 -1.254915e+03 -1.419915e+03 -1.674915e+03   
## 401 402 403 404 405   
## -1.661632e+03 -5.216321e+02 -9.416321e+02 -9.416321e+02 -7.766321e+02   
## 406 407 408 409 410   
## -5.416321e+02 -1.456632e+03 -1.661632e+03 -3.813559e+02 -3.813559e+02   
## 411 412 413 414 415   
## 4.686441e+02 4.686441e+02 4.686441e+02 1.743644e+03 1.743644e+03   
## 416 417 418 419 420   
## 2.830644e+03 -4.924933e+02 -4.924933e+02 -4.924933e+02 -4.924933e+02   
## 421 422 423 424 425   
## -4.924933e+02 -1.904933e+02 -1.904933e+02 -1.904933e+02 1.198944e+03   
## 426 427 428 429 430   
## 1.989444e+02 -3.010556e+02 -3.010556e+02 -3.010556e+02 -3.010556e+02   
## 431 432 433 434 435   
## 1.198944e+03 1.198944e+03 3.009386e+03 3.189386e+03 7.143856e+02   
## 436 437 438 439 440   
## 1.649386e+03 1.819386e+03 1.199386e+03 3.919386e+03 3.919386e+03   
## 441 442 443 444 445   
## 3.435748e+03 3.435748e+03 2.070748e+03 2.070748e+03 2.070748e+03   
## 446 447 448 449 450   
## 3.707478e+02 3.345748e+03 4.195748e+03 -1.499100e+03 -1.499100e+03   
## 451 452 453 454 455   
## -1.499100e+03 -1.499100e+03 -1.499100e+03 -9.671003e+02 -9.671003e+02   
## 456 457 458 459 460   
## -9.671003e+02 -4.640490e+03 -4.640490e+03 -4.640490e+03 -5.890490e+03   
## 461 462 463 464 465   
## -5.640490e+03 -5.890490e+03 -3.140490e+03 -3.140490e+03 -4.627158e+03   
## 466 467 468 469 470   
## -4.127158e+03 -4.627158e+03 -4.627158e+03 -4.127158e+03 -4.627158e+03   
## 471 472 473 474 475   
## -2.927158e+03 -2.927158e+03 -3.658197e+03 -2.228197e+03 -4.153197e+03   
## 476 477 478 479 480   
## -4.153197e+03 -4.252197e+03 -2.228197e+03 -4.556197e+03 -4.556197e+03   
## 481 482 483 484 485   
## -7.184067e+02 -7.184067e+02 -4.184067e+02 -4.184067e+02 -1.218407e+03   
## 486 487 488 489 490   
## -1.218407e+03 -7.184067e+02 -7.184067e+02 1.788452e+03 1.788452e+03   
## 491 492 493 494 495   
## 1.788452e+03 1.788452e+03 3.288452e+03 1.788452e+03 1.788452e+03   
## 496 497 498 499 500   
## 1.788452e+03 5.532589e+02 1.932589e+02 1.932589e+02 1.932589e+02   
## 501 502 503 504 505   
## 2.912589e+02 1.932589e+02 1.932589e+02 1.932589e+02 -2.645887e+03   
## 506 507 508 509 510   
## -2.645887e+03 -2.035887e+03 -2.035887e+03 -2.035887e+03 -2.645887e+03   
## 511 512 513 514 515   
## -2.645887e+03 -2.645887e+03 -1.037073e+03 7.129272e+02 7.129272e+02   
## 516 517 518 519 520   
## 7.129272e+02 -3.707284e+01 2.412927e+03 1.292716e+01 -9.870728e+02   
## 521 522 523 524 525   
## 4.297184e+03 4.297184e+03 3.597184e+03 3.597184e+03 4.797184e+03   
## 526 527 528 529 530   
## 3.597184e+03 3.597184e+03 3.597184e+03 1.722269e+03 1.722269e+03   
## 531 532 533 534 535   
## 1.722269e+03 1.722269e+03 1.722269e+03 3.132269e+03 4.905269e+03   
## 536 537 538 539 540   
## 3.132269e+03 2.902703e+03 2.668703e+03 2.668703e+03 2.668703e+03   
## 541 542 543 544 545   
## 2.668703e+03 3.255703e+03 2.668703e+03 2.668703e+03 1.473082e+03   
## 546 547 548 549 550   
## 9.230817e+02 5.730817e+02 1.023082e+03 2.673082e+03 1.710082e+03   
## 551 552 553 554 555   
## 2.148082e+03 1.893082e+03 8.699042e+02 1.199042e+02 1.619904e+03   
## 556 557 558 559 560   
## 1.199042e+02 6.119904e+03 6.119904e+03 2.119904e+03 3.699042e+02   
## 561 562 563 564 565   
## 1.427805e+03 3.028805e+03 -5.721948e+02 -1.721948e+02 2.028805e+03   
## 566 567 568 569 570   
## -9.721948e+02 3.028805e+03 -5.721948e+02 2.447962e+03 2.447962e+03   
## 571 572 573 574 575   
## 2.947962e+03 2.947962e+03 2.947962e+03 2.947962e+03 2.447962e+03   
## 576 577 578 579 580   
## 2.447962e+03 -9.706986e+01 2.452930e+03 3.101930e+03 3.101930e+03   
## 581 582 583 584 585   
## 3.101930e+03 3.101930e+03 3.101930e+03 3.101930e+03 6.922794e+03   
## 586 587 588 589 590   
## 4.737794e+03 5.542794e+03 7.992794e+03 7.992794e+03 1.842179e+04   
## 591 592 593 594 595   
## 7.527794e+03 7.527794e+03 2.721552e+03 4.071552e+03 4.951552e+03   
## 596 597 598 599 600   
## 4.951552e+03 4.071552e+03 4.071552e+03 4.071552e+03 4.071552e+03   
## 601 602 603 604 605   
## 1.303503e+03 1.278159e+03 5.028150e+02 4.774712e+02 6.521274e+02   
## 606 607 608 609 610   
## 6.267836e+02 1.651440e+03 1.626096e+03 -1.064028e+03 -1.064028e+03   
## 611 612 613 614 615   
## -3.565028e+03 -1.064028e+03 -4.865028e+03 -8.640277e+02 -2.864028e+03   
## 616 617 618 619 620   
## -2.864028e+03 2.262995e+03 1.421995e+03 1.421995e+03 5.819951e+02   
## 621 622 623 624 625   
## 5.819951e+02 5.819951e+02 5.819951e+02 5.819951e+02 1.371850e+03   
## 626 627 628 629 630   
## 8.718501e+02 8.718501e+02 8.718501e+02 8.718501e+02 8.718501e+02   
## 631 632 633 634 635   
## 8.718501e+02 8.718501e+02 1.438039e+03 -5.619612e+02 -5.619612e+02   
## 636 637 638 639 640   
## -5.619612e+02 -5.619612e+02 -5.619612e+02 -5.619612e+02 -5.619612e+02   
## 641 642 643 644 645   
## 6.832966e+03 2.632966e+03 2.632966e+03 2.632966e+03 4.832966e+03   
## 646 647 648 649 650   
## 1.483297e+04 2.632966e+03 2.632966e+03 9.423811e+02 9.423811e+02   
## 651 652 653 654 655   
## 9.433811e+02 9.433811e+02 9.433811e+02 1.442381e+03 9.423811e+02   
## 656 657 658 659 660   
## 9.423811e+02 -1.157846e+02 -1.157846e+02 1.542154e+02 -1.157846e+02   
## 661 662 663 664 665   
## -1.157846e+02 -1.157846e+02 -1.157846e+02 -1.157846e+02 8.457170e+03   
## 666 667 668 669 670   
## 7.732170e+03 8.457170e+03 8.457170e+03 1.023217e+04 1.023217e+04   
## 671 672 673 674 675   
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## 4.102930e+03 3.101930e+03 3.101930e+03 2.721552e+03 4.071552e+03   
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## -2.156945e+02 -9.396945e+02 3.721305e+03 3.721305e+03 8.473055e+02   
## 13001 13002 13003 13004 13005   
## -1.654726e+03 -1.228726e+03 -1.228726e+03 -1.228726e+03 -1.228726e+03   
## 13006 13007 13008 13009 13010   
## -1.228726e+03 4.284274e+03 2.392742e+02 -1.766351e+03 -1.766351e+03   
## 13011 13012 13013 13014 13015   
## -8.723508e+02 -8.723508e+02 -1.483508e+02 -8.723508e+02 1.936649e+03   
## 13016 13017 13018 13019 13020   
## 1.936649e+03 -2.675164e+03 -1.738164e+03 9.283644e+01 9.283644e+01   
## 13021 13022 13023 13024 13025   
## -1.014164e+03 9.283644e+01 2.433836e+03 -1.211636e+02 -2.291164e+03   
## 13026 13027 13028 13029 13030   
## -1.184164e+03 1.778364e+02 1.778364e+02 -6.731636e+02 1.778364e+02   
## 13031 13032 13033 13034 13035   
## 3.072836e+03 5.178364e+02 4.327745e+02 7.617745e+02 9.917745e+02   
## 13036 13037 13038 13039 13040   
## 1.036774e+03 1.341774e+03 1.850774e+03 1.218774e+03 1.117745e+02   
## 13041 13042 13043 13044 13045   
## -2.396382e+03 -2.396382e+03 7.361792e+01 7.361792e+01 -8.203821e+02   
## 13046 13047 13048 13049 13050   
## 7.361792e+01 4.827415e+01 2.293038e+01 -4.306945e+02 -2.728695e+03   
## 13051 13052 13053 13054 13055   
## -3.293195e+02 -3.546632e+02 -3.800070e+02 -4.053508e+02 -4.306945e+02   
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## -4.306945e+02 -2.813695e+03 -2.813695e+03 -1.195695e+03 -1.195695e+03   
## 13061 13062 13063 13064 13065   
## -1.706695e+03 -4.826945e+02 -7.496945e+02 -7.496945e+02 -2.599942e+03   
## 13066 13067 13068 13069 13070   
## -2.599942e+03 -2.599942e+03 -2.599942e+03 -2.599942e+03 -1.563942e+03   
## 13071 13072 13073 13074 13075   
## -1.563942e+03 -2.742942e+03 -1.459884e+03 -1.404884e+03 -1.377884e+03   
## 13076 13077 13078 13079 13080   
## -1.399884e+03 -1.488884e+03 -1.636884e+03 -1.805884e+03 -1.805884e+03   
## 13081 13082 13083 13084 13085   
## -1.229523e+03 -1.229523e+03 5.004774e+02 5.004774e+02 5.004774e+02   
## 13086 13087 13088 13089 13090   
## 5.004774e+02 -2.995226e+02 -2.995226e+02 5.139145e+02 5.149145e+02   
## 13091 13092 13093 13094 13095   
## 2.375914e+03 2.375914e+03 2.375914e+03 2.375914e+03 1.632914e+03   
## 13096 13097 13098 13099 13100   
## 1.632914e+03 1.551745e+03 1.551745e+03 1.551745e+03 1.551745e+03   
## 13101 13102 13103 13104 13105   
## 1.551745e+03 1.551745e+03 1.551745e+03 5.174518e+01 -2.101723e+03   
## 13106 13107 13108 13109 13110   
## -2.101723e+03 -5.137230e+02 -5.137230e+02 -5.137230e+02 -5.137230e+02   
## 13111 13112 13113 13114 13115   
## -5.137230e+02 -1.479723e+03 2.228721e+03 2.453721e+03 2.620721e+03   
## 13116 13117 13118 13119 13120   
## 2.491721e+03 2.086721e+03 1.311721e+03 5.117207e+02 5.117207e+02   
## 13121 13122 13123 13124 13125   
## 2.100959e+02 2.310096e+03 2.310096e+03 2.310096e+03 3.310096e+03   
## 13126 13127 13128 13129 13130   
## 2.310096e+03 2.310096e+03 2.100959e+02 -1.753179e+03 -8.641792e+02   
## 13131 13132 13133 13134 13135   
## -2.271792e+02 -2.271792e+02 -1.645179e+03 -2.271792e+02 -8.641792e+02   
## 13136 13137 13138 13139 13140   
## -8.641792e+02 5.682544e+03 5.682544e+03 5.682544e+03 5.682544e+03   
## 13141 13142 13143 13144 13145   
## 7.682544e+03 7.682544e+03 7.682544e+03 4.682544e+03 -1.252669e+02   
## 13146 13147 13148 13149 13150   
## -1.425267e+03 3.124733e+03 3.124733e+03 3.124733e+03 3.124733e+03   
## 13151 13152 13153 13154 13155   
## 3.747331e+02 3.747331e+02 -2.398942e+02 -3.063894e+03 8.710578e+01   
## 13156 13157 13158 13159 13160   
## 8.710578e+01 -1.914894e+03 8.710578e+01 4.216106e+03 -4.189422e+01   
## 13161 13162 13163 13164 13165   
## -3.253358e+03 -3.289358e+03 -3.338358e+03 -3.359358e+03 -3.443358e+03   
## 13166 13167 13168 13169 13170   
## -3.582358e+03 -5.026358e+03 -5.026358e+03 -3.987905e+03 -1.472905e+03   
## 13171 13172 13173 13174 13175   
## -1.472905e+03 -1.472905e+03 -1.472905e+03 -1.472905e+03 -1.472905e+03   
## 13176 13177 13178 13179 13180   
## -3.987905e+03 -5.168033e+03 -4.368033e+03 -3.168033e+03 -2.368033e+03   
## 13181 13182 13183 13184 13185   
## -2.168033e+03 -2.768033e+03 -4.168033e+03 -5.168033e+03 -8.793482e+03   
## 13186 13187 13188 13189 13190   
## -8.793482e+03 -8.793482e+03 -8.793482e+03 -8.885482e+03 -8.793482e+03   
## 13191 13192 13193 13194 13195   
## -8.885482e+03 -8.885482e+03 -3.289948e+03 -3.289948e+03 -3.289948e+03   
## 13196 13197 13198 13199 13200   
## -3.289948e+03 -2.589948e+03 -2.589948e+03 -2.589948e+03 -2.589948e+03   
## 13201 13202 13203 13204 13205   
## 5.022342e+02 1.902234e+03 1.902234e+03 1.902234e+03 1.902234e+03   
## 13206 13207 13208 13209 13210   
## 1.902234e+03 5.022342e+02 5.022342e+02 -9.444477e+01 1.695552e+02   
## 13211 13212 13213 13214 13215   
## 1.015552e+02 7.255523e+01 -4.244477e+01 -2.344448e+02 -1.147445e+03   
## 13216 13217 13218 13219 13220   
## -2.067445e+03 -3.299999e+03 -2.932999e+03 -2.500999e+03 -2.500999e+03   
## 13221 13222 13223 13224 13225   
## -2.500999e+03 -2.500999e+03 -3.299999e+03 -3.299999e+03 -2.887337e+03   
## 13226 13227 13228 13229 13230   
## -8.853373e+02 -8.853373e+02 -8.853373e+02 -8.853373e+02 -8.853373e+02   
## 13231 13232   
## -8.853373e+02 -2.887337e+03

model3 <- lm(hotels.df$RoomRent~hotels.df$StarRating+hotels.df$HotelCapacity  
 +hotels.df$HasSwimmingPool+hotels.df$Airport  
 +hotels.df$FreeWifi+hotels.df$FreeBreakfast, data = hotels.df)  
summary(model3)

##   
## Call:  
## lm(formula = hotels.df$RoomRent ~ hotels.df$StarRating + hotels.df$HotelCapacity +   
## hotels.df$HasSwimmingPool + hotels.df$Airport + hotels.df$FreeWifi +   
## hotels.df$FreeBreakfast, data = hotels.df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -10783 -2286 -875 967 310387   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -7455.073 396.215 -18.816 <2e-16 \*\*\*  
## hotels.df$StarRating 3519.285 111.754 31.491 <2e-16 \*\*\*  
## hotels.df$HotelCapacity -14.786 1.009 -14.660 <2e-16 \*\*\*  
## hotels.df$HasSwimmingPool 2714.146 158.681 17.104 <2e-16 \*\*\*  
## hotels.df$Airport 25.627 2.604 9.840 <2e-16 \*\*\*  
## hotels.df$FreeWifi 227.843 226.177 1.007 0.314   
## hotels.df$FreeBreakfast -59.313 123.964 -0.478 0.632   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 6687 on 13225 degrees of freedom  
## Multiple R-squared: 0.1689, Adjusted R-squared: 0.1685   
## F-statistic: 447.9 on 6 and 13225 DF, p-value: < 2.2e-16

coefficients(model3)

## (Intercept) hotels.df$StarRating   
## -7455.07341 3519.28483   
## hotels.df$HotelCapacity hotels.df$HasSwimmingPool   
## -14.78609 2714.14551   
## hotels.df$Airport hotels.df$FreeWifi   
## 25.62737 227.84314   
## hotels.df$FreeBreakfast   
## -59.31294

residuals(model3)

## 1 2 3 4 5   
## 2997.093107 872.093108 522.093108 972.093108 2622.093108   
## 6 7 8 9 10   
## 2097.093108 1842.093108 -152.906892 -89.133066 2460.866934   
## 11 12 13 14 15   
## 3109.866934 3109.866934 3109.866934 3109.866934 3109.866934   
## 16 17 18 19 20   
## 3109.866934 -1776.212311 -1776.212311 -1776.212311 -951.212311   
## 21 22 23 24 25   
## -951.212311 -295.212311 -295.212311 -1776.212311 8714.322534   
## 26 27 28 29 30   
## 8684.322534 15384.322534 9184.322534 10184.322534 10184.322534   
## 31 32 33 34 35   
## 7444.322534 8714.322534 -363.196710 -533.196710 -363.196710   
## 36 37 38 39 40   
## -363.196710 -108.196710 -533.196710 -108.196710 -108.196710   
## 41 42 43 44 45   
## -1214.206495 -714.206495 -714.206495 -714.206495 -1214.206495   
## 46 47 48 49 50   
## -1214.206495 -714.206495 -714.206495 4217.868298 4217.868298   
## 51 52 53 54 55   
## 4217.868298 4217.868298 4217.868298 4217.868298 3146.868298   
## 56 57 58 59 60   
## 2074.868298 3685.515949 3685.515949 3685.515949 3685.515949   
## 61 62 63 64 65   
## 4685.515949 4685.515949 4685.515949 4685.515949 2014.679219   
## 66 67 68 69 70   
## 2014.679219 3183.679219 3183.679219 3183.679219 2014.679219   
## 71 72 73 74 75   
## 2014.679219 2014.679219 1792.798738 1792.798738 1792.798738   
## 76 77 78 79 80   
## 1792.798738 3292.798738 1792.798738 1792.798738 1792.798738   
## 81 82 83 84 85   
## 3285.017884 2385.017884 3285.017884 2385.017884 2385.017884   
## 86 87 88 89 90   
## 2385.017884 3285.017884 2485.017884 89.293117 -8.706883   
## 91 92 93 94 95   
## -8.706883 -8.706883 -8.706883 -8.706883 -8.706883   
## 96 97 98 99 100   
## -8.706883 -2550.687966 -2550.687966 -1940.687966 -1940.687966   
## 101 102 103 104 105   
## -1940.687966 -2550.687966 -2550.687966 -2550.687966 -980.599406   
## 106 107 108 109 110   
## 769.400594 769.400594 2419.400594 19.400594 2419.400594   
## 111 112 113 114 115   
## 19.400594 -980.599406 1725.487218 1725.487218 1725.487218   
## 116 117 118 119 120   
## 1725.487218 1725.487218 3135.487218 4908.487218 3135.487218   
## 121 122 123 124 125   
## 5544.881022 5544.881022 5544.881022 5544.881022 5544.881022   
## 126 127 128 129 130   
## 5544.881022 4244.881022 4244.881022 2838.021999 2838.021999   
## 131 132 133 134 135   
## 2838.021999 3072.021999 3425.021999 3425.021999 2838.021999   
## 136 137 138 139 140   
## 2838.021999 -1493.874761 -1086.874761 -1592.874761 -1592.874761   
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## -1592.874761 -1086.874761 -1896.874761 -1896.874761 -1493.303155   
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## -1493.303155 -1493.303155 -1493.303155 -1493.303155 -1014.303155   
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## -1014.303155 -1014.303155 -4622.856914 -4122.856914 -4622.856914   
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## -4622.856914 -4122.856914 -4622.856914 -2922.856914 -2922.856914   
## 161 162 163 164 165   
## -4693.030080 -4693.030080 -4693.030080 -5943.030080 -5693.030080   
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## -5943.030080 -3193.030080 -3193.030080 2733.950163 1283.950163   
## 171 172 173 174 175   
## 1283.950163 1283.950163 1283.950163 2783.950163 2783.950163   
## 176 177 178 179 180   
## 4783.950163 5497.620335 3297.620335 3657.620335 4117.620335   
## 181 182 183 184 185   
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## 2350.139731 2350.139731 2350.139731 4250.139731 2750.139731   
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## 3750.139731 2751.139731 320.294579 70.294579 1070.294579   
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## 70.294579 6070.294579 6070.294579 2070.294579 320.294579   
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## 3391.920625 3199.920625 3199.920625 3199.920625 3391.920625   
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## 226 227 228 229 230   
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## 231 232 233 234 235   
## 927.818196 1427.818196 1305.177092 1305.177092 1305.177092   
## 236 237 238 239 240   
## 1305.177092 1305.177092 7305.177092 4305.177092 1805.177092   
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## 246 247 248 249 250   
## 3564.972404 1564.972404 1564.972404 4425.404324 4425.404324   
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## 4425.404324 4425.404324 4425.404324 4425.404324 5645.404324   
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## 153.347847 -346.652153 -346.652153 -346.652153 -346.652153   
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## 1153.347847 1153.347847 3188.273571 3368.273571 893.273571   
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## 296.466937 198.466937 198.466937 198.466937 -2639.235908   
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## -2639.235908 -2639.235908 -1030.599406 719.400594 719.400594   
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## 719.400594 -30.599406 2419.400594 19.400594 -980.599406   
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## 4302.422210 4302.422210 3602.422210 3602.422210 4802.422210   
## 526 527 528 529 530   
## 3602.422210 3602.422210 3602.422210 1725.487218 1725.487218   
## 531 532 533 534 535   
## 1725.487218 1725.487218 1725.487218 3135.487218 4908.487218   
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## 3135.487218 3072.021999 2838.021999 2838.021999 2838.021999   
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## 2838.021999 3425.021999 2838.021999 2838.021999 1481.406046   
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RoomRent <- str(hotels.df$RoomRent)

## int [1:13232] 12375 10250 9900 10350 12000 11475 11220 9225 6800 9350 ...

StarRating <- str(hotels.df$StarRating)

## num [1:13232] 5 5 5 5 5 5 5 5 4 4 ...

HotelCapacity <- str(hotels.df$HotelCapacity)

## int [1:13232] 287 287 287 287 287 287 287 287 28 28 ...

HasSwimmingPool <- str(hotels.df$HasSwimmingPool)

## int [1:13232] 1 1 1 1 1 1 1 1 0 0 ...

## Applying Random Forest Regression  
library(randomForest)

## Warning: package 'randomForest' was built under R version 3.4.1

## randomForest 4.6-12

## Type rfNews() to see new features/changes/bug fixes.

##   
## Attaching package: 'randomForest'

## The following object is masked from 'package:psych':  
##   
## outlier

rf1 = randomForest(hotels.df$RoomRent~hotels.df$StarRating+hotels.df$HotelCapacity+hotels.df$HasSwimmingPool, data = hotels.df)  
summary(rf1)

## Length Class Mode   
## call 3 -none- call   
## type 1 -none- character  
## predicted 13232 -none- numeric   
## mse 500 -none- numeric   
## rsq 500 -none- numeric   
## oob.times 13232 -none- numeric   
## importance 3 -none- numeric   
## importanceSD 0 -none- NULL   
## localImportance 0 -none- NULL   
## proximity 0 -none- NULL   
## ntree 1 -none- numeric   
## mtry 1 -none- numeric   
## forest 11 -none- list   
## coefs 0 -none- NULL   
## y 13232 -none- numeric   
## test 0 -none- NULL   
## inbag 0 -none- NULL   
## terms 3 terms call

rf2 = randomForest(hotels.df$RoomRent~hotels.df$StarRating+  
 hotels.df$HotelCapacity+hotels.df$HasSwimmingPool  
 +hotels.df$Airport, data = hotels.df)  
summary(rf2)

## Length Class Mode   
## call 3 -none- call   
## type 1 -none- character  
## predicted 13232 -none- numeric   
## mse 500 -none- numeric   
## rsq 500 -none- numeric   
## oob.times 13232 -none- numeric   
## importance 4 -none- numeric   
## importanceSD 0 -none- NULL   
## localImportance 0 -none- NULL   
## proximity 0 -none- NULL   
## ntree 1 -none- numeric   
## mtry 1 -none- numeric   
## forest 11 -none- list   
## coefs 0 -none- NULL   
## y 13232 -none- numeric   
## test 0 -none- NULL   
## inbag 0 -none- NULL   
## terms 3 terms call

rf3 = randomForest(hotels.df$RoomRent~hotels.df$StarRating+  
 hotels.df$HotelCapacity+hotels.df$HasSwimmingPool  
 +hotels.df$Airport  
 +hotels.df$FreeWifi+hotels.df$FreeBreakfast, data = hotels.df)  
summary(rf3)

## Length Class Mode   
## call 3 -none- call   
## type 1 -none- character  
## predicted 13232 -none- numeric   
## mse 500 -none- numeric   
## rsq 500 -none- numeric   
## oob.times 13232 -none- numeric   
## importance 6 -none- numeric   
## importanceSD 0 -none- NULL   
## localImportance 0 -none- NULL   
## proximity 0 -none- NULL   
## ntree 1 -none- numeric   
## mtry 1 -none- numeric   
## forest 11 -none- list   
## coefs 0 -none- NULL   
## y 13232 -none- numeric   
## test 0 -none- NULL   
## inbag 0 -none- NULL   
## terms 3 terms call

coefficients(rf3)

## NULL