

PCA and Clustering Analysis.R

parth

2019-10-17

```
#Airbnb Dataset EDA
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##Importing Libraries
library(data.table)
library(ggplot2) # tidyverse data visualization package
library(stringr)

library(tmap)    # for static and interactive maps
library(leaflet) # for interactive maps
library(mapview) # for interactive maps
library(shiny)   # for web applications

library(car)

## Loading required package: carData

#Importing csv file from my local computer
airbnbOriginalDF =read.csv("C:/Users/yadav/Desktop/MVA
proj/airbnb/airbnb_1/Airbnb Host Data For Newyork City.csv")
#Converting data frame to data table
setDT(airbnbOriginalDF)

##### DATA CLEANING #####

#Checking null/missing value in dataset
table(is.na(airbnbOriginalDF))

##
## FALSE    TRUE
## 772268   10052

#Checking null values in review per month column
table(is.na(airbnbOriginalDF$reviews_per_month))

##
## FALSE    TRUE
## 38843   10052

#Removing values which are null and storing in new table.
airbnbNoNADT = airbnbOriginalDF[airbnbOriginalDF$reviews_per_month != 'NA']
```

```
# Rechecking, and can see no null values present now.
```

```
table(is.na(airbnbNoNADT))
```

```
##
```

```
## FALSE
```

```
## 621488
```

```
table(is.na(airbnbNoNADT$reviews_per_month)) #airbnbNoNADT is datatable with not any null values
```

```
##
```

```
## FALSE
```

```
## 38843
```

```
#Converting datatype of last review date to Date Format.
```

```
airbnbNoNADT[,last_review:=as.Date(last_review, '%m/%d/%Y')]
```

```
str(airbnbNoNADT)
```

```
## Classes 'data.table' and 'data.frame': 38843 obs. of 16 variables:
```

```
## $ id : int 2539 2595 3831 5022 5099 5121 5178
```

```
5203 5238 5295 ...
```

```
## $ name : Factor w/ 47897 levels
```

```
"","'Fan'tastic",...: 12652 38163 15693 19357 24992 8328 25039 15588 17673
```

```
5645 ...
```

```
## $ host_id : int 2787 2845 4869 7192 7322 7356 8967
```

```
7490 7549 7702 ...
```

```
## $ host_name : Factor w/ 11453 levels
```

```
"","'Cil", "#NAME?",...: 5051 4846 6264 5982 1970 3601 9699 6935 1264 6084 ...
```

```
## $ neighbourhood_group : Factor w/ 5 levels
```

```
"Bronx","Brooklyn",...: 2 3 2 3 3 2 3 3 3 3 ...
```

```
## $ neighbourhood : Factor w/ 221 levels "Allerton","Arden
```

```
Heights",...: 109 128 42 62 138 14 96 203 36 203 ...
```

```
## $ latitude : num 40.6 40.8 40.7 40.8 40.7 ...
```

```
## $ longitude : num -74 -74 -74 -73.9 -74 ...
```

```
## $ room_type : Factor w/ 3 levels "Entire
```

```
home/apt",...: 2 1 1 1 1 2 2 2 1 1 ...
```

```
## $ price : int 149 225 89 80 200 60 79 79 150 135
```

```
...
```

```
## $ minimum_nights : int 1 1 1 10 3 45 2 2 1 5 ...
```

```
## $ number_of_reviews : int 9 45 270 9 74 49 430 118 160 53
```

```
...
```

```
## $ last_review : Date, format: "2018-10-19" "2019-05-21"
```

```
...
```

```
## $ reviews_per_month : num 0.21 0.38 4.64 0.1 0.59 0.4 3.47
```

```
0.99 1.33 0.43 ...
```

```
## $ calculated_host_listings_count: int 6 2 1 1 1 1 1 1 4 1 ...
```

```
## $ availability_365 : int 365 355 194 0 129 0 220 0 188 6
```

```
...
```

```
## - attr(*, ".internal.selfref")=<externalptr>
```

#Lets try to further analyze our data by analysing data types.

#CONVERTING CATEGORICAL VALUES TO FACTORS

```
unique(airbnbNoNADT$neighbourhood_group)
```

```
## [1] Brooklyn      Manhattan      Queens          Staten Island  Bronx  
## Levels: Bronx Brooklyn Manhattan Queens Staten Island
```

#As the neighbourhood_group column has 5 categorical values, we can factor it, and convert our string data type.

```
airbnbNoNADT[,neighbourhood_group:= factor(neighbourhood_group)]
```

```
unique(airbnbNoNADT$neighbourhood)
```

```
## [1] Kensington      Midtown  
## [3] Clinton Hill     East Harlem  
## [5] Murray Hill      Bedford-Stuyvesant  
## [7] Hell's Kitchen   Upper West Side  
## [9] Chinatown        South Slope  
## [11] West Village     Williamsburg  
## [13] Fort Greene      Chelsea  
## [15] Crown Heights    Park Slope  
## [17] Windsor Terrace  Inwood  
## [19] East Village     Harlem  
## [21] Greenpoint       Bushwick  
## [23] Lower East Side  Prospect-Lefferts Gardens  
## [25] Long Island City Kips Bay  
## [27] SoHo             Upper East Side  
## [29] Prospect Heights Washington Heights  
## [31] Woodside         Flatbush  
## [33] Brooklyn Heights Carroll Gardens  
## [35] Gowanus          Flatlands  
## [37] Cobble Hill      Flushing  
## [39] Boerum Hill      Sunnyside  
## [41] DUMBO            St. George  
## [43] Highbridge       Financial District  
## [45] Ridgewood        Morningside Heights  
## [47] Jamaica          Middle Village  
## [49] NoHo             Ditmars Steinway  
## [51] Flatiron District Roosevelt Island  
## [53] Greenwich Village Little Italy  
## [55] East Flatbush    Tompkinsville  
## [57] Astoria          Eastchester  
## [59] Kingsbridge      Two Bridges  
## [61] Queens Village   Rockaway Beach  
## [63] Forest Hills     Nolita  
## [65] Woodlawn         University Heights  
## [67] Gramercy         Allerton
```

## [69]	East New York	Theater District
## [71]	Concourse Village	Sheepshead Bay
## [73]	Emerson Hill	Fort Hamilton
## [75]	Bensonhurst	Tribeca
## [77]	Shore Acres	Sunset Park
## [79]	Concourse	Elmhurst
## [81]	Brighton Beach	Jackson Heights
## [83]	Cypress Hills	St. Albans
## [85]	Arrochar	Rego Park
## [87]	Wakefield	Clifton
## [89]	Bay Ridge	Graniteville
## [91]	Spuyten Duyvil	Stapleton
## [93]	Briarwood	Ozone Park
## [95]	Columbia St	Vinegar Hill
## [97]	Mott Haven	Longwood
## [99]	Canarsie	Battery Park City
## [101]	Civic Center	East Elmhurst
## [103]	New Springville	Morris Heights
## [105]	Arverne	Gravesend
## [107]	Tottenville	Mariners Harbor
## [109]	Concord	Borough Park
## [111]	Bayside	Downtown Brooklyn
## [113]	Port Morris	Fieldston
## [115]	Kew Gardens	Midwood
## [117]	College Point	Mount Eden
## [119]	City Island	Glendale
## [121]	Red Hook	Richmond Hill
## [123]	Maspeth	Port Richmond
## [125]	Williamsbridge	Soundview
## [127]	Woodhaven	Co-op City
## [129]	Stuyvesant Town	Parkchester
## [131]	North Riverdale	Dyker Heights
## [133]	Bronxdale	Sea Gate
## [135]	Riverdale	Kew Gardens Hills
## [137]	Bay Terrace	Norwood
## [139]	Claremont Village	Whitestone
## [141]	Fordham	Bayswater
## [143]	Navy Yard	Brownsville
## [145]	Eltingville	Mount Hope
## [147]	Clason Point	Lighthouse Hill
## [149]	Springfield Gardens	Howard Beach
## [151]	Belle Harbor	Jamaica Estates
## [153]	Van Nest	Bellerose
## [155]	Fresh Meadows	Morris Park
## [157]	West Brighton	Far Rockaway
## [159]	South Ozone Park	Tremont
## [161]	Corona	Great Kills
## [163]	Manhattan Beach	Marble Hill
## [165]	Dongan Hills	East Morrisania
## [167]	Hunts Point	Neponsit

```
## [169] Pelham Bay          Randall Manor
## [171] Throgs Neck          Todt Hill
## [173] West Farms           Silver Lake
## [175] Laurelton            Grymes Hill
## [177] Holliswood           Pelham Gardens
## [179] Rosedale             Castleton Corners
## [181] Edgemere             New Brighton
## [183] Baychester           Melrose
## [185] Bergen Beach         Cambria Heights
## [187] Richmondtown         Howland Hook
## [189] Schuylerville        Coney Island
## [191] Prince's Bay         South Beach
## [193] Bath Beach           Midland Beach
## [195] Jamaica Hills        Oakwood
## [197] Castle Hill          Douglaston
## [199] Huguenot             Edenwald
## [201] Belmont              Grant City
## [203] Westerleigh          Morrisania
## [205] Bay Terrace, Staten Island Westchester Square
## [207] Little Neck          Rosebank
## [209] Unionport            Mill Basin
## [211] Hollis               Arden Heights
## [213] Bull's Head          Olinville
## [215] Rossville            Breezy Point
## [217] Willowbrook          New Dorp Beach
## 221 Levels: Allerton Arden Heights Arrochar Arverne Astoria ... Woodside
```

#For neighbourhood, we get 217 unique values. Here to reduce storage we can covert all similar type to lower case and also trim white spaces, so that each anme is unique.

```
#Converting all same type name to Lower cases
airbnbNoNADT[,neighbourhood:=tolower(neighbourhood)]
```

```
#Removing all white spaces
airbnbNoNADT[,neighbourhood:=trimws(neighbourhood)]
```

#For room type, we get 3 unique categorical values. we can factor it, and convert our string datatype.

```
unique(airbnbNoNADT$room_type)
```

```
## [1] Private room      Entire home/apt Shared room
## Levels: Entire home/apt Private room Shared room
```

```
airbnbNoNADT[,room_type:= factor(room_type)]
```

```
##### Exploratory Data Analysis #####
```

#We found few ouliers, therefore that data and we have dropped below..

```
airbnbCleaned = airbnbNoNADT[price<2500 & number_of_reviews<400 &
```

```

reviews_per_month<10]
#airbnbCleaned is our Final cleaned data

#Below we have stored the data for each boroughs in different table which
will help to analyze each borough individually as well if required
#Manhattan area dataset
airbnbManhattan = airbnbCleaned[neighbourhood_group=='Manhattan']
nrow(airbnbManhattan)

## [1] 16584

#Queens area dataset
airbnbQueens = airbnbCleaned[neighbourhood_group=='Queens']
nrow(airbnbQueens)

## [1] 4504

#Brooklyn area dataset
airbnbBrooklyn = airbnbCleaned[neighbourhood_group=='Brooklyn']
nrow(airbnbBrooklyn)

## [1] 16421

#Bronx area dataset
airbnbBronx = airbnbCleaned[neighbourhood_group=='Bronx']
nrow(airbnbBronx)

## [1] 875

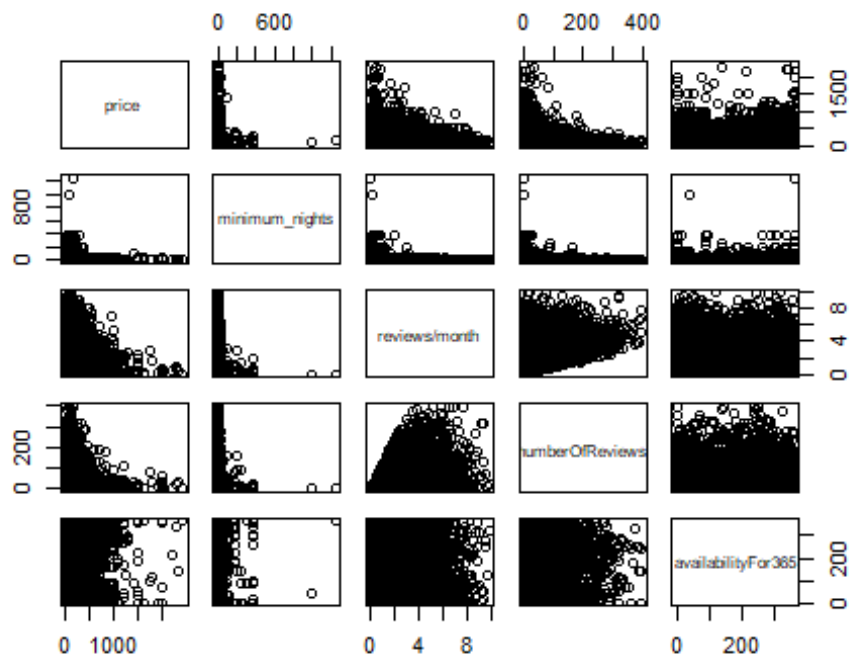
#Staten Island area dataset
airbnbStatenIsland = airbnbCleaned[neighbourhood_group=='Staten Island']
nrow(airbnbStatenIsland)

## [1] 313

#Creating correlation matrix for each boroughs
diagnolcol = c("price","minimum_nights","reviews/month", "numberOfReviews",
"availabilityFor365")

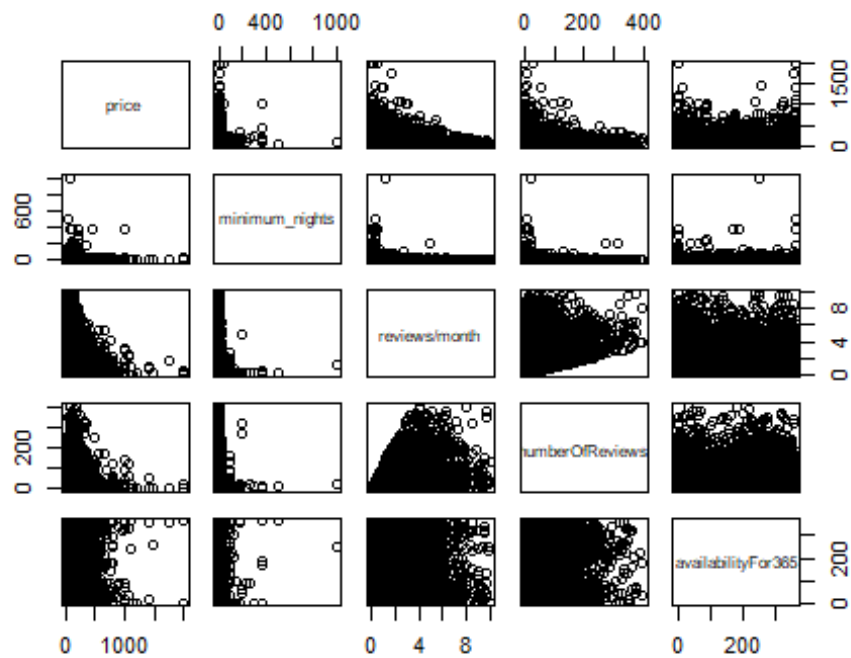
#MANHATTAN
pairs(data.table(
  airbnbManhattan$price,
  airbnbManhattan$minimum_nights,
  airbnbManhattan$reviews_per_month,
  airbnbManhattan$number_of_reviews,
  airbnbManhattan$availability_365), labels = diagonolcol)

```

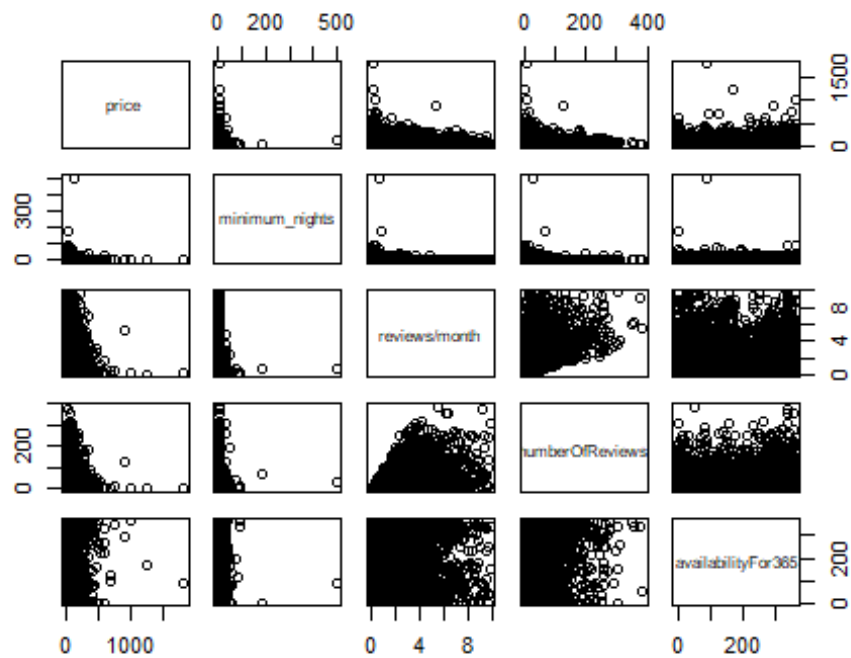


#BROOKLYN

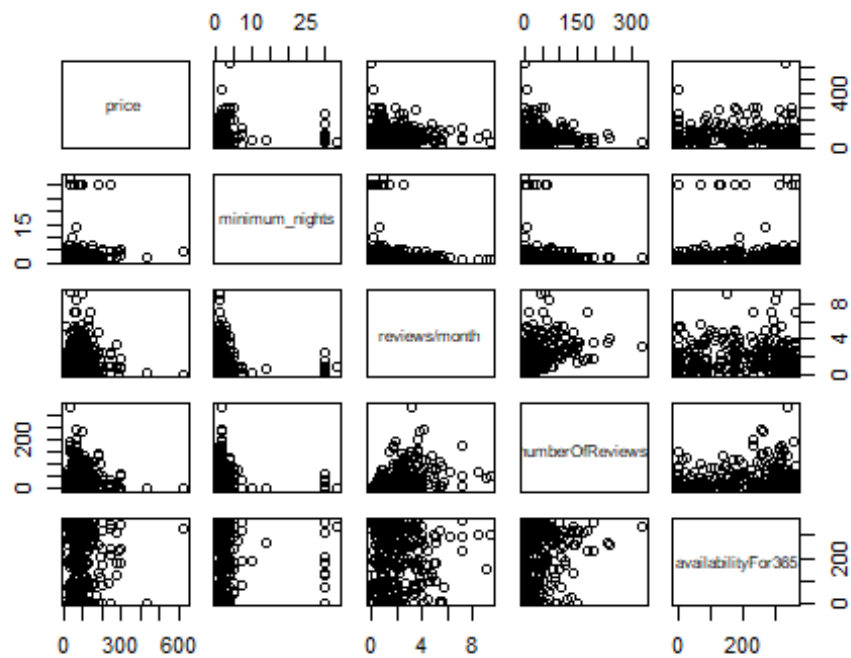
```
pairs(data.table(
  airbnbBrooklyn$price,
  airbnbBrooklyn$minimum_nights,
  airbnbBrooklyn$reviews_per_month,
  airbnbBrooklyn$number_of_reviews,
  airbnbBrooklyn$availability_365), labels = diagonalcol)
```



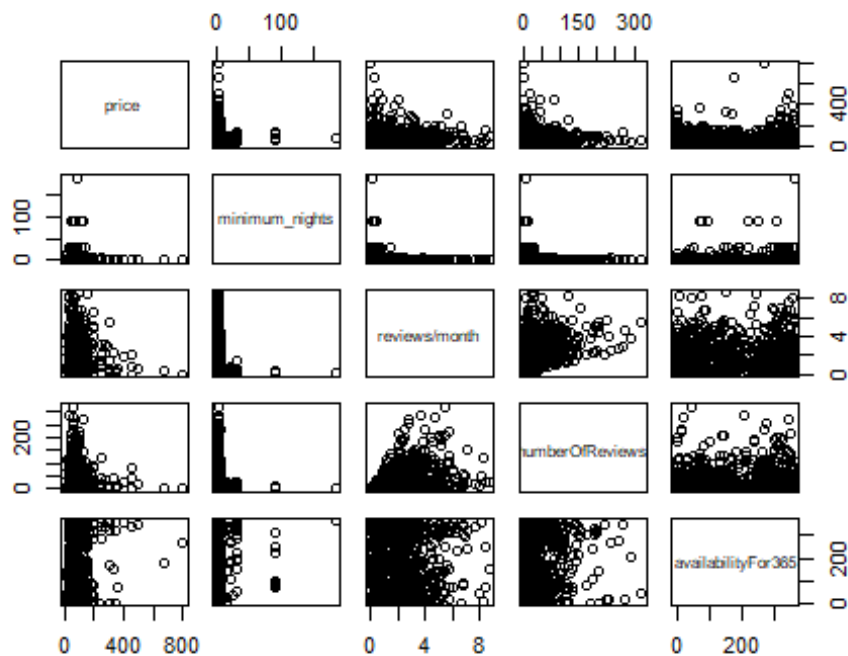
```
#QUEENS
pairs(data.table(
  airbnbQueens$price,
  airbnbQueens$minimum_nights,
  airbnbQueens$reviews_per_month,
  airbnbQueens$number_of_reviews,
  airbnbQueens$availability_365), labels = diagonalcol)
```

```
#Staten Island
pairs(data.table(
  airbnbStatenIsland$price,
  airbnbStatenIsland$minimum_nights,
  airbnbStatenIsland$reviews_per_month,
  airbnbStatenIsland$number_of_reviews,
  airbnbStatenIsland$availability_365), labels = diagonalcol)
```



```
#BRONX
pairs(data.table(
  airbnbBronx$price,
  airbnbBronx$minimum_nights,
  airbnbBronx$reviews_per_month,
  airbnbBronx$number_of_reviews,
  airbnbBronx$availability_365), labels = diagonalcol)
```



```
pairs(data.table(airbnbBronx$price,
                  airbnbBronx$minimum_nights,
                  airbnbBronx$reviews_per_month,
                  airbnbBronx$number_of_reviews,
                  airbnbBronx$availability_365), labels = diag(ncol))
```

PCA

#####PCA for Manhattan#####

```
library(dplyr)
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following object is masked from 'package:car':
```

```
##
```

```
##      recode
```

```
## The following objects are masked from 'package:data.table':
```

```
##
```

```
##      between, first, last
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```

## The following objects are masked from 'package:base':
##
##      intersect, setdiff, setequal, union

library(data.table)

#Taking the numeric columns that will contribute for variance in data
airbnbManhattanPCA = data.frame(
  airbnbManhattan$id,
  airbnbManhattan$host_id,
  airbnbManhattan$room_type,
  airbnbManhattan$price,
  airbnbManhattan$minimum_nights,
  airbnbManhattan$number_of_reviews,
  airbnbManhattan$reviews_per_month,
  airbnbManhattan$availability_365)

setDT(airbnbManhattanPCA)

##Setting column names for our new dataframe
names(airbnbManhattanPCA) <- c(
  'id',
  'host_id',
  'room_type',
  'price',
  'minimum_nights',
  'number_of_reviews',
  'reviews_per_month',
  'availability_365')

head(airbnbManhattanPCA, 5)

##      id host_id      room_type price minimum_nights number_of_reviews
## 1: 2595   2845 Entire home/apt   225              1              45
## 2: 5022   7192 Entire home/apt    80             10              9
## 3: 5099   7322 Entire home/apt   200              3             74
## 4: 5203   7490  Private room    79              2            118
## 5: 5238   7549 Entire home/apt   150              1            160
##      reviews_per_month availability_365
## 1:              0.38              355
## 2:              0.10               0
## 3:              0.59             129
## 4:              0.99               0
## 5:              1.33             188

##Here we have used prcomp function to get Principal components of data
airbnbPC <- prcomp(airbnbManhattanPCA[, -1:-3], scale=TRUE)
airbnbPC

```

```

## Standard deviations (1, .., p=5):
## [1] 1.2809561 1.1025899 1.0029067 0.8293291 0.6706998
##
## Rotation (n x k) = (5 x 5):
##
##           PC1          PC2          PC3          PC4
## price      -0.02776573 -0.5452081  0.699961309  0.4546543
## minimum_nights  0.14164147 -0.5148879 -0.696443140  0.4744301
## number_of_reviews -0.66002627  0.1113698 -0.145619680  0.2052838
## reviews_per_month -0.66848481  0.1030587 -0.004197668  0.2028235
## availability_365 -0.31090215 -0.6439054 -0.061631210 -0.6963668
##
##           PC5
## price      -0.0729439867
## minimum_nights  0.0686378512
## number_of_reviews -0.6990104042
## reviews_per_month  0.7080621380
## availability_365 -0.0006955398

##prcomp() gives three values x, sdev, rotation
names(airbnbPC)

## [1] "sdev"      "rotation" "center"   "scale"    "x"

## x contains principal components for drawing a graph.
##since there are 5 samples(COLUMNS), there are 5 PC

#To get a sense how meaningful this is, let's see how much variation in the
original data PC1 or together with PC2 accounts for
#To do this we require the square of sdev, to see how much variance in the
original data each PC accounts for
##The goal is to draw a graph that shows how the samples are related(not
related)to each other

##Creating eigen values for airbnb (sqare of sdev) ----> representing by
pca_var
(pca_var <- airbnbPC$sdev^2)

## [1] 1.6408485 1.2157045 1.0058219 0.6877868 0.4498382

names(pca_var)

## NULL

names(pca_var) <- paste("PC",1:5,sep="")
names(pca_var)

## [1] "PC1" "PC2" "PC3" "PC4" "PC5"

pca_var

##           PC1          PC2          PC3          PC4          PC5
## 1.6408485 1.2157045 1.0058219 0.6877868 0.4498382

```

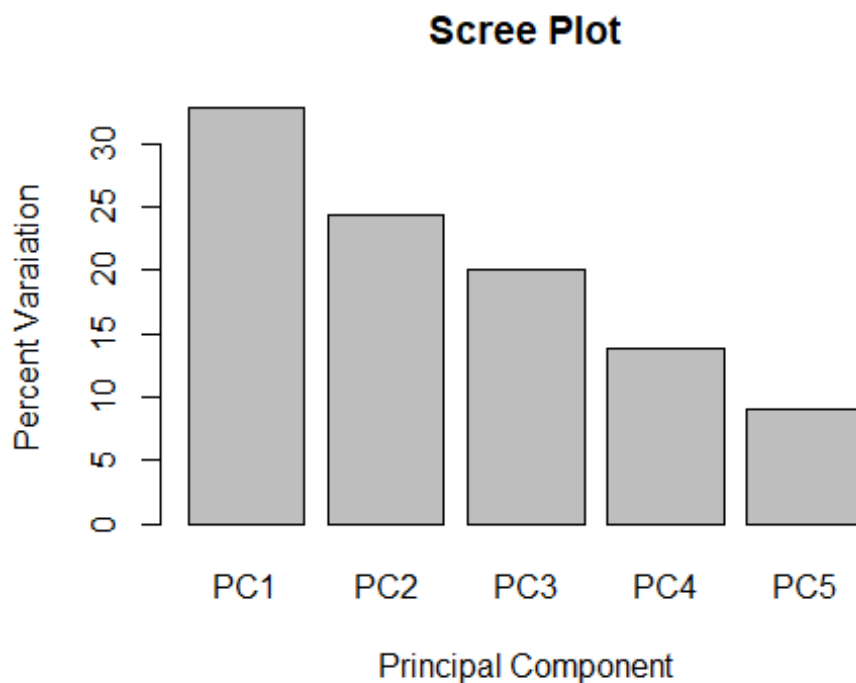
```

##Taking sum of all eigen values
sum_var <- sum(pca_var)
sum_var

## [1] 5

##Calculating percentage of variance to better visualize each PC proportion in data
pcavarpercent <- (pca_var/sum_var)*100
##Visulaization using Bar chart
barplot(pcavarpercent, main="Scree Plot", xlab="Principal Component", ylab = "Percent Varaiation")

```

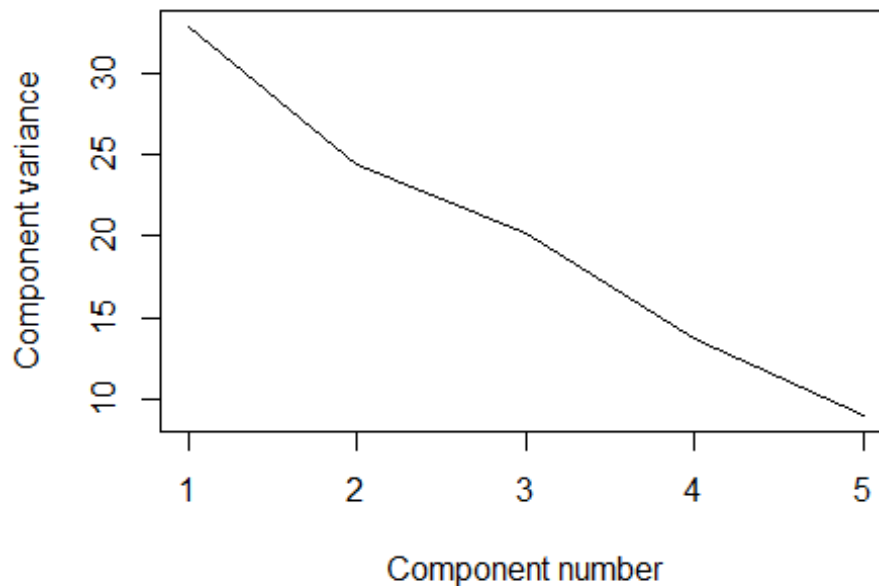


```

##Visualization using scree plot
plot(pcavarpercent, xlab = "Component number", ylab = "Component variance",
type = "l", main = "Scree diagram")

```

Scree diagram



##From the plot it can be deciphered that all PC components have good amount of information with them, approx 80% of variance is presented with PC1,PC2, PC3, and thus we cannot choose only two PC for dimensionality reduction ##since it will lead to information loss.

#####PCA for Queens#####

#Taking the numeric columns that will contribute for variance in data

```
airbnbQueensPCA = data.frame(  
  airbnbQueens$id,  
  airbnbQueens$host_id,  
  airbnbQueens$room_type,  
  airbnbQueens$price,  
  airbnbQueens$minimum_nights,  
  airbnbQueens$number_of_reviews,  
  airbnbQueens$reviews_per_month,  
  airbnbQueens$availability_365)
```

```
setDT(airbnbQueensPCA)
```

##Setting column names for our new dataframe

```
names(airbnbQueensPCA) = c(  
  'id',  
  'host_id',  
  'room_type',  
  'price',  
  'minimum_nights',
```

```
'number_of_reviews',  
'reviews_per_month',  
'availability_365')
```

```
head(airbnbQueensPCA, 5)
```

```
##      id host_id      room_type price minimum_nights number_of_reviews  
## 1: 12937  50124    Private room   130              3             248  
## 2: 18198  70091    Private room    70             30             25  
## 3: 32363 140025    Private room   140              2              1  
## 4: 39593 110506    Private room    79             30             28  
## 5: 45910 204539 Entire home/apt   350              8             10  
##      reviews_per_month availability_365  
## 1:              2.25             215  
## 2:              0.22             324  
## 3:              0.01              1  
## 4:              0.26             126  
## 5:              0.11             365
```

```
##Here we have used prcomp function to get Principal components of data  
airbnbQueensPC <- prcomp(airbnbQueensPCA[, -1:-3], scale=TRUE)  
airbnbQueensPC
```

```
## Standard deviations (1, .., p=5):  
## [1] 1.2861620 1.0268388 1.0062359 0.9056393 0.6772712  
##  
## Rotation (n x k) = (5 x 5):  
##  
##           PC1           PC2           PC3           PC4  
## price      -0.02753684  0.85116850 -0.22350413  0.4738131  
## minimum_nights -0.25176557 -0.06581667  0.82475867  0.4883942  
## number_of_reviews 0.64602441 -0.09289846  0.11825171  0.2855383  
## reviews_per_month 0.65622287 -0.12280536 -0.03724025  0.2151209  
## availability_365  0.29644533  0.49746263  0.50442912 -0.6396586  
##  
##           PC5  
## price      0.01734802  
## minimum_nights 0.11630343  
## number_of_reviews -0.69174182  
## reviews_per_month 0.71177705  
## availability_365  0.03223741
```

```
##prcomp() gives three values x, sdev, rotation  
names(airbnbQueensPC)
```

```
## [1] "sdev"      "rotation" "center"   "scale"    "x"
```

```
## x contains principal components for drawing a graph.  
##since there are 5 samples(COLUMNS), there are 5 PC
```

```
#To get a sense how meaningful this is, let's see how much variation in the  
original data PC1 or together with PC2 accounts for  
#To do this we require the square of sdev, to see how much variance in the
```



```

original data each PC accounts for
##The goal is to draw a graph that shows how the samples are related(not
related)to each other

##Creating eigen values for airbnb (sqare of sdev) ----> representing by
pca_var
(Queens_pca_var <- airbnbQueensPC$sdev^2)
## [1] 1.6542126 1.0543980 1.0125107 0.8201825 0.4586962

names(Queens_pca_var)

## NULL

names(Queens_pca_var) <- paste("PC",1:5,sep="")
names(Queens_pca_var)

## [1] "PC1" "PC2" "PC3" "PC4" "PC5"

Queens_pca_var

##      PC1      PC2      PC3      PC4      PC5
## 1.6542126 1.0543980 1.0125107 0.8201825 0.4586962

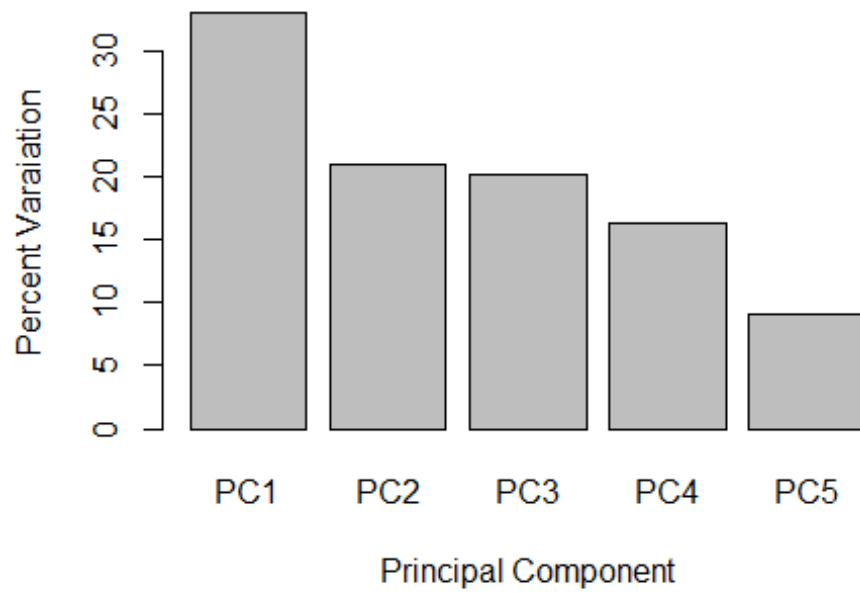
##Taking sum of all eigen values
sum_var <- sum(Queens_pca_var)
sum_var

## [1] 5

##Calculating percentage of variance to better visualize each PC proportion
in data
pcavarpercent <- (Queens_pca_var/sum_var)*100
##Visulaization using Bar chart
barplot(pcavarpercent, main="Scree Plot", xlab="Principal Component", ylab =
"Percent Varaiation")

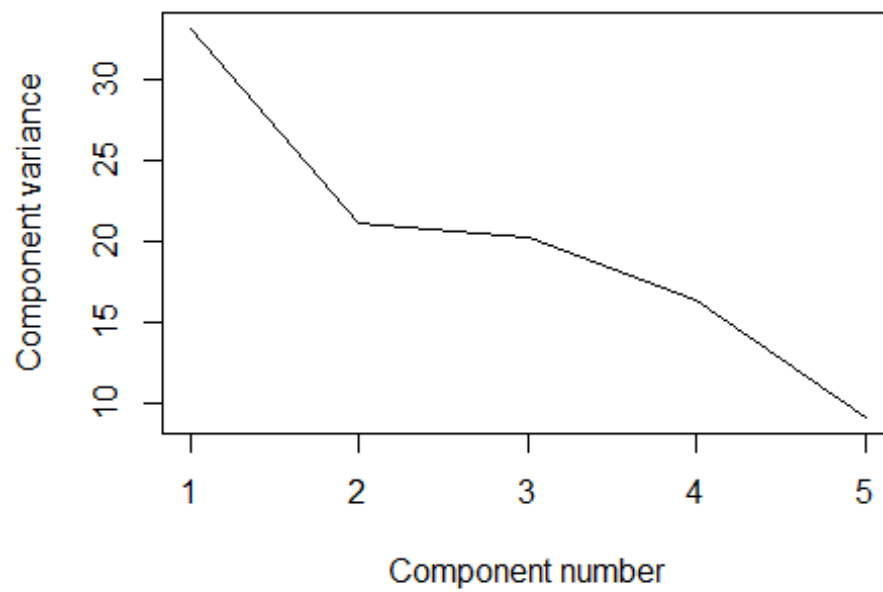
```

Scree Plot



```
##Visualization using scree plot  
plot(pcarvarpercent, xlab = "Component number", ylab = "Component variance",  
type = "l", main = "Scree diagram")
```

Scree diagram



##From the plot it can be deciphered that all PC components have good amount of information with them, approx 80% of variance is presented with PC1,PC2, PC3, and thus we cannot choose only two PC for dimensionality reduction ##since it will lead to information loss.

#####PCA for Brooklyn#####

#Taking the numeric columns that will contribute for variance in data

```
airbnbBrooklynPCA = data.frame(  
  airbnbBrooklyn$id,  
  airbnbBrooklyn$host_id,  
  airbnbBrooklyn$room_type,  
  airbnbBrooklyn$price,  
  airbnbBrooklyn$minimum_nights,  
  airbnbBrooklyn$number_of_reviews,  
  airbnbBrooklyn$reviews_per_month,  
  airbnbBrooklyn$availability_365)
```

```
setDT(airbnbBrooklynPCA)
```

##Setting column names for our new dataframe

```
names(airbnbBrooklynPCA) = c(  
  'id',  
  'host_id',  
  'room_type',  
  'price',  
  'minimum_nights',  
  'number_of_reviews',  
  'reviews_per_month',  
  'availability_365')
```

```
head(airbnbBrooklynPCA, 5)
```

```
##      id host_id      room_type price minimum_nights number_of_reviews  
## 1: 2539   2787   Private room   149             1             9  
## 2: 3831   4869 Entire home/apt    89             1            270  
## 3: 5121   7356   Private room    60            45             49  
## 4: 5803   9744   Private room    89             4            167  
## 5: 6848  15991 Entire home/apt   140             2            148  
##      reviews_per_month availability_365  
## 1:                0.21             365  
## 2:                4.64             194  
## 3:                0.40              0  
## 4:                1.34            314  
## 5:                1.20             46
```

```
##Here we have used prcomp function to get Principal components of data
airbnbBrooklynPCA <- prcomp(airbnbBrooklynPCA[, -1:-3], scale=TRUE)
airbnbBrooklynPCA
```

```
## Standard deviations (1, .., p=5):
## [1] 1.3173886 1.0502051 0.9926525 0.8714471 0.6455829
##
## Rotation (n x k) = (5 x 5):
##
##           PC1          PC2          PC3          PC4
## price      -0.03724336  0.5140580  0.81204864 -0.2708587
## minimum_nights 0.09771392 0.6776631 -0.57533594 -0.4432657
## number_of_reviews -0.64611209 -0.0702324 -0.04640668 -0.2863387
## reviews_per_month -0.64236078 -0.1632680 -0.04089855 -0.2405989
## availability_365 -0.39871885 0.4949021 -0.07575814 0.7682925
##
##           PC5
## price      0.039621269
## minimum_nights 0.061063935
## number_of_reviews -0.702469298
## reviews_per_month 0.707923498
## availability_365 0.009086074
```

```
##prcomp() gives three values x, sdev, rotation
names(airbnbBrooklynPCA)
```

```
## [1] "sdev"      "rotation" "center"   "scale"    "x"
```

```
## x contains principal components for drawing a graph.
##since there are 5 samples(COLUMNS), there are 5 PC
```

```
#To get a sense how meaningful this is, let's see how much variation in the
original data PC1 or together with PC2 accounts for
#To do this we require the square of sdev, to see how much variance in the
original data each PC accounts for
##The goal is to draw a graph that shows how the samples are related(not
related)to each other
```

```
##Creating eigen values for airbnb (square of sdev) ----> representing by
pca_var
```

```
(Brooklyn_pca_var <- airbnbBrooklynPCA$sdev^2)
```

```
## [1] 1.7355129 1.1029308 0.9853589 0.7594201 0.4167773
```

```
names(Brooklyn_pca_var)
```

```
## NULL
```

```
names(Brooklyn_pca_var) <- paste("PC",1:5,sep="")
names(Brooklyn_pca_var)
```

```
## [1] "PC1" "PC2" "PC3" "PC4" "PC5"
```

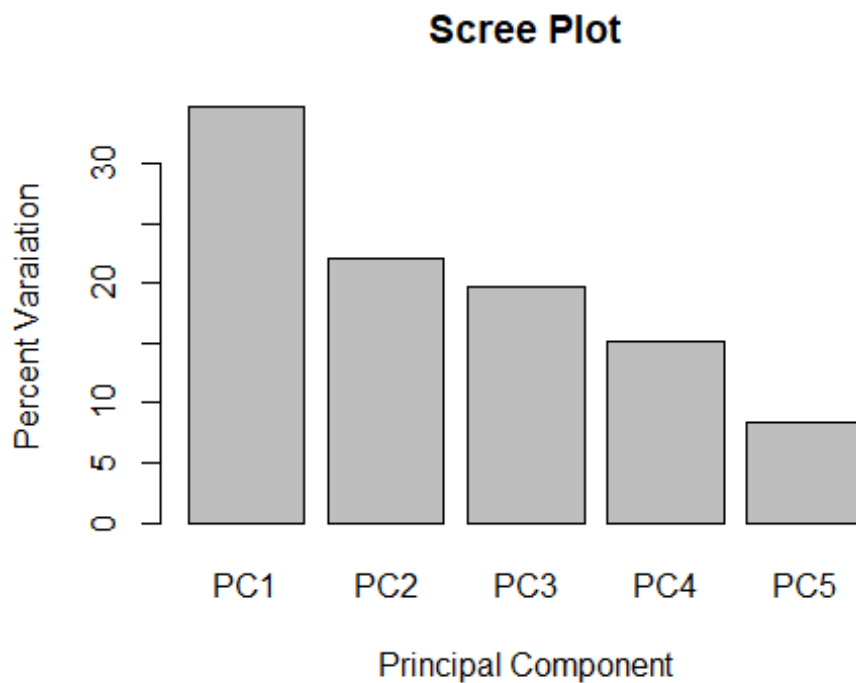
```
Brooklyn_pca_var
```

```
##          PC1          PC2          PC3          PC4          PC5
## 1.7355129 1.1029308 0.9853589 0.7594201 0.4167773

##Taking sum of all eigen values
sum_var <- sum(Brooklyn_pca_var)
sum_var

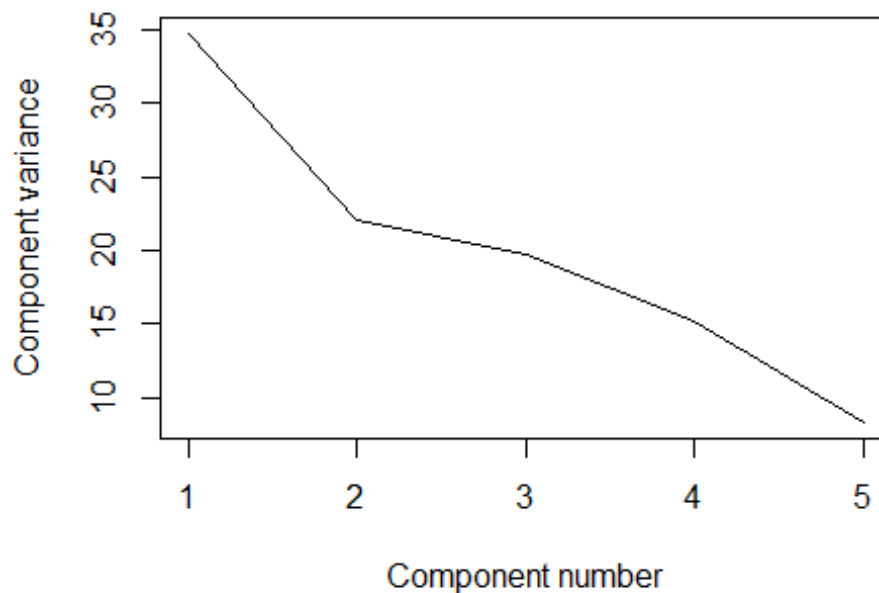
## [1] 5

##Calculating percentage of variance to better visualize each PC proportion in data
pcavarpercent <- (Brooklyn_pca_var/sum_var)*100
##Visulaization using Bar chart
barplot(pcavarpercent, main="Scree Plot", xlab="Principal Component", ylab = "Percent Varaiation")
```



```
##Visualization using scree plot
plot(pcavarpercent, xlab = "Component number", ylab = "Component variance",
type = "l", main = "Scree diagram")
```

Scree diagram



##From the plot it can be deciphered that all PC components have good amount of information with them, approx 80% of variance is presented with PC1,PC2, PC3, and thus we cannot choose only two PC for dimensionality reduction ##since it will lead to information loss.

#####PCA for Bronx#####

#Taking the numeric columns that will contribute for variance in data

```
airbnbBronxPCA = data.frame(  
  airbnbBronx$id,  
  airbnbBronx$host_id,  
  airbnbBronx$room_type,  
  airbnbBronx$price,  
  airbnbBronx$minimum_nights,  
  airbnbBronx$number_of_reviews,  
  airbnbBronx$reviews_per_month,  
  airbnbBronx$availability_365)
```

```
setDT(airbnbBronxPCA)
```

##Setting column names for our new dataframe

```
names(airbnbBronxPCA) = c(  
  'id',  
  'host_id',  
  'room_type',  
  'price',
```

```
'minimum_nights',
'number_of_reviews',
'reviews_per_month',
'availability_365')
```

```
head(airbnbBronxPCA, 5)
```

```
##      id host_id      room_type price minimum_nights number_of_reviews
## 1:  44096  190409    Private room    40              1             219
## 2:  54626  190409    Private room    45              1             138
## 3:  63610  310670 Entire home/apt   105              2              38
## 4:  71812  369015 Entire home/apt    90             30              4
## 5: 149777  716306 Entire home/apt    77              1             197
##      reviews_per_month availability_365
## 1:                2.04              353
## 2:                1.45              323
## 3:                0.50              365
## 4:                0.35              346
## 5:                2.49              309
```

##Here we have used prcomp function to get Principal components of data
 airbnbBronxPCA <- **prcomp**(airbnbBronxPCA[,**-1:-3**], **scale=TRUE**)
 airbnbBronxPCA

```
## Standard deviations (1, .., p=5):
## [1] 1.2333495 1.0519303 1.0032733 0.9069505 0.7370042
##
## Rotation (n x k) = (5 x 5):
##
##           PC1           PC2           PC3           PC4
## price      0.01569918 -0.63321675 -0.58768935  0.5028546
## minimum_nights 0.32819245 -0.21553192  0.71567853  0.5611437
## number_of_reviews -0.65136117 -0.03021002  0.23940774  0.2303486
## reviews_per_month -0.67763050  0.01155026  0.06394919  0.1438927
## availability_365 -0.09267574 -0.74265503  0.28463994 -0.5987399
##
##           PC5
## price      0.02342176
## minimum_nights -0.13695868
## number_of_reviews 0.68149794
## reviews_per_month -0.71825406
## availability_365 -0.01911542
```

##prcomp() gives three values x, sdev, rotation
names(airbnbBronxPCA)

```
## [1] "sdev"      "rotation" "center"   "scale"    "x"
```

x contains principal components for drawing a graph.
##since there are 5 samples(COLUMNS), there are 5 PC

#To get a sense how meaningful this is, let's see how much variation in the original data PC1 or together with PC2 accounts for

```

#To do this we require the square of sdev, to see how much variance in the original data each PC accounts for
##The goal is to draw a graph that shows how the samples are related(not related)to each other

##Creating eigen values for airbnb (sqare of sdev) ----> representing by pca_var
(Bronx_pca_var <- airbnbBronxPCA$sdev^2)

## [1] 1.5211510 1.1065573 1.0065573 0.8225592 0.5431753

names(Bronx_pca_var)

## NULL

names(Bronx_pca_var) <- paste("PC",1:5,sep="")
names(Bronx_pca_var)

## [1] "PC1" "PC2" "PC3" "PC4" "PC5"

Bronx_pca_var

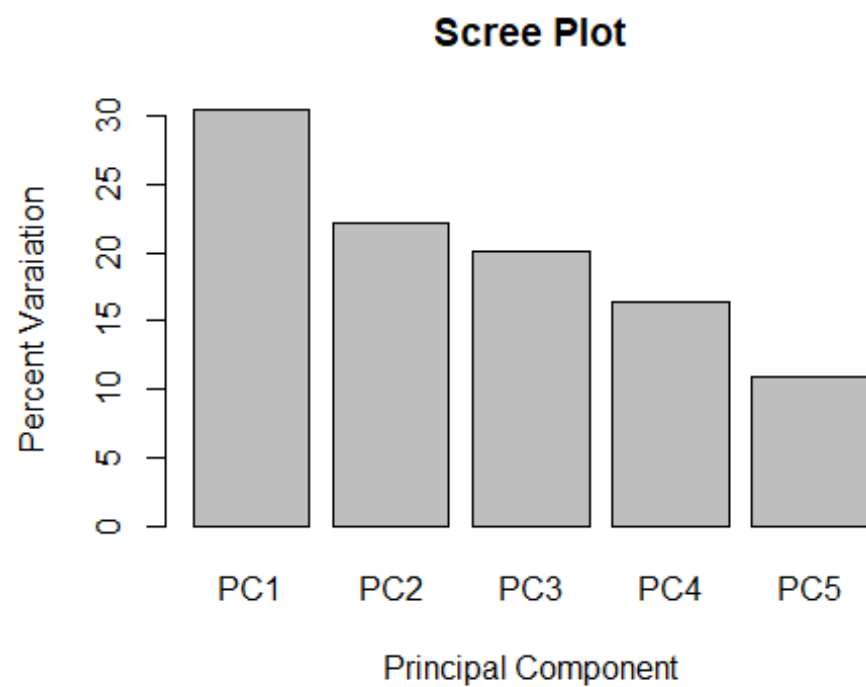
##          PC1          PC2          PC3          PC4          PC5
## 1.5211510 1.1065573 1.0065573 0.8225592 0.5431753

##Taking sum of all eigen values
sum_var <- sum(Bronx_pca_var)
sum_var

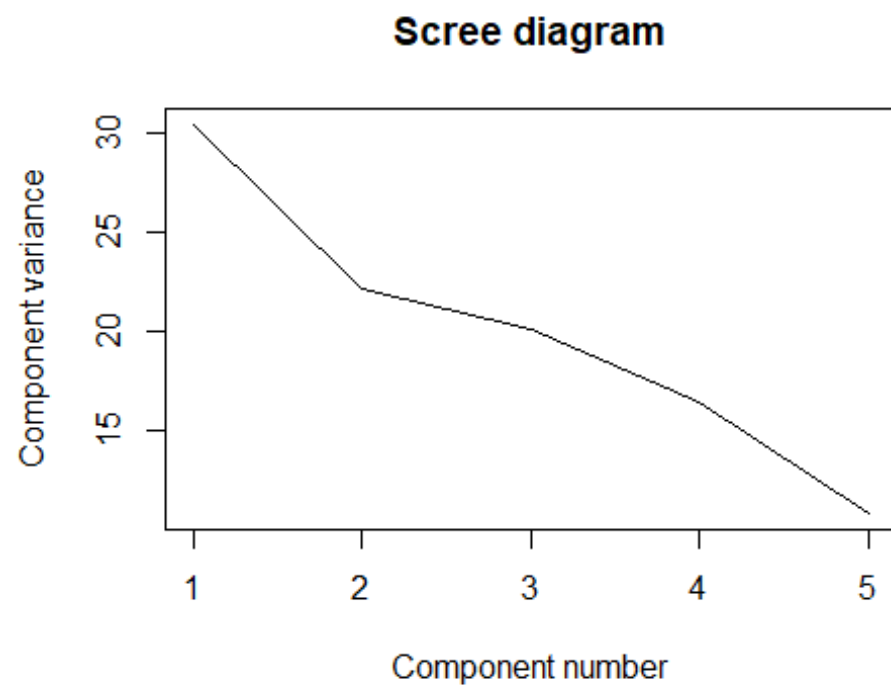
## [1] 5

##Calculating percentage of variance to better visualize each PC proportion in data
pcavarpercent <- (Bronx_pca_var/sum_var)*100
##Visulaization using Bar chart
barplot(pcavarpercent, main="Scree Plot", xlab="Principal Component", ylab = "Percent Varaiation")

```

```
##Visualization using scree plot  
plot(pcarvarpercent, xlab = "Component number", ylab = "Component variance",  
type = "l", main = "Scree diagram")
```



##From the plot it can be deciphered that all PC components have good amount of information with them, approx 80% of variance is presented with PC1,PC2, PC3, and thus we cannot choose only two PC for dimensionality reduction ##since it will lead to information loss.

#####PCA for Staten Island#####

#Taking the numeric columns that will contribute for variance in data

```
airbnbStatenIslandPCA = data.frame(  
  airbnbStatenIsland$id,  
  airbnbStatenIsland$host_id,  
  airbnbStatenIsland$room_type,  
  airbnbStatenIsland$price,  
  airbnbStatenIsland$minimum_nights,  
  airbnbStatenIsland$number_of_reviews,  
  airbnbStatenIsland$reviews_per_month,  
  airbnbStatenIsland$availability_365)
```

```
setDT(airbnbStatenIslandPCA)
```

##Setting column names for our new dataframe

```
names(airbnbStatenIslandPCA) = c(  
  'id',  
  'host_id',  
  'room_type',  
  'price',  
  'minimum_nights',  
  'number_of_reviews',  
  'reviews_per_month',  
  'availability_365')
```

```
head(airbnbStatenIslandPCA, 5)
```

```
##      id host_id  room_type price minimum_nights number_of_reviews  
## 1: 42882 185978 Private room    70              2             166  
## 2: 62452 303939 Private room    36              2             193  
## 3: 62461 303939 Private room    37              2             147  
## 4: 62787 303939 Private room    37              2             177  
## 5: 63320 303939 Private room    36              2             333  
##      reviews_per_month availability_365  
## 1:              1.66              312  
## 2:              1.85              360  
## 3:              1.44               0  
## 4:              1.71              320  
## 5:              3.19              340
```

```

##Here we have used prcomp function to get Principal components of data
airbnbStatenIslandPCA <- prcomp(airbnbStatenIslandPCA[, -1:-3], scale=TRUE)
airbnbStatenIslandPCA

## Standard deviations (1, .., p=5):
## [1] 1.2566239 1.0181863 0.9867818 0.9400917 0.7257288
##
## Rotation (n x k) = (5 x 5):
##           PC1      PC2      PC3      PC4      PC5
## price      0.2208845  0.2869374  0.88071034 -0.3050040 -0.0141013
## minimum_nights 0.3113969 -0.5853232 -0.14045285 -0.7250329 -0.1225928
## number_of_reviews -0.6365543 -0.1229617  0.10323046 -0.3103765  0.6875238
## reviews_per_month -0.6356834  0.1784692 -0.01296892 -0.2980477 -0.6892421
## availability_365 -0.2120077 -0.7266999  0.44022447  0.4428700 -0.1924279

##prcomp() gives three values x, sdev, rotation
names(airbnbStatenIslandPCA)

## [1] "sdev"      "rotation" "center"    "scale"     "x"

## x contains principal components for drawing a graph.
##since there are 5 samples(COLUMNS), there are 5 PC

#To get a sense how meaningful this is, let's see how much variation in the
original data PC1 or together with PC2 accounts for
#To do this we require the square of sdev, to see how much variance in the
original data each PC accounts for
##The goal is to draw a graph that shows how the samples are related(not
related)to each other

#Creating eigen values for airbnb (sqare of sdev) ----> representing by
pca_var
(StatenIsland_pca_var <- airbnbStatenIslandPCA$sdev^2)

## [1] 1.5791036 1.0367032 0.9737384 0.8837724 0.5266823

names(StatenIsland_pca_var)

## NULL

names(StatenIsland_pca_var) <- paste("PC",1:5,sep="")
names(StatenIsland_pca_var)

## [1] "PC1" "PC2" "PC3" "PC4" "PC5"

StatenIsland_pca_var

##           PC1      PC2      PC3      PC4      PC5
## 1.5791036 1.0367032 0.9737384 0.8837724 0.5266823

```

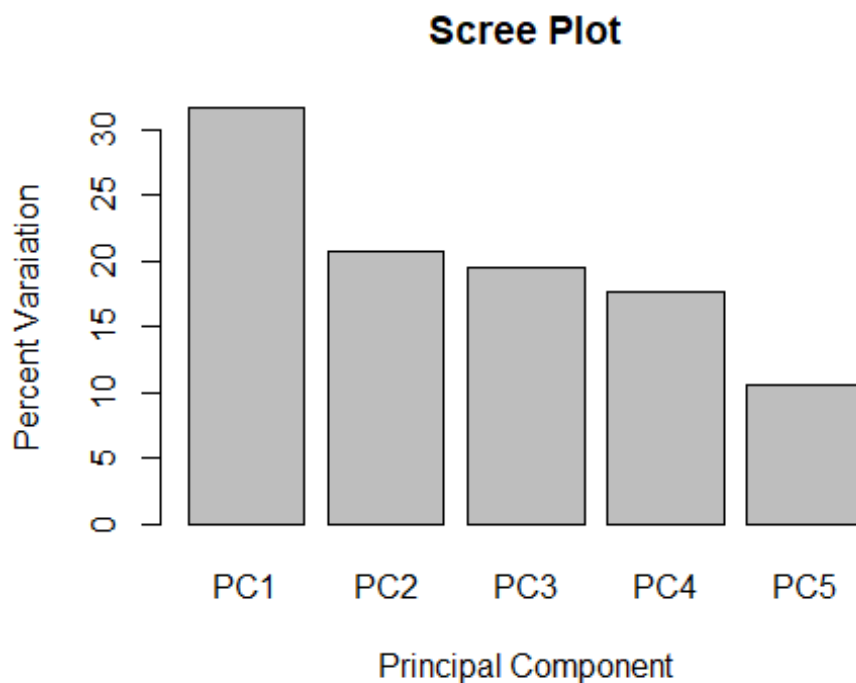
```

#Taking sum of all eigen values
sum_var <- sum(StatenIsland_pca_var)
sum_var

## [1] 5

#Calculating percentage of variance to better visualize each PC proportion in data
pcavarpercent <- (StatenIsland_pca_var/sum_var)*100
#Visulaization using Bar chart
barplot(pcavarpercent, main="Scree Plot", xlab="Principal Component", ylab = "Percent Varaiation")

```

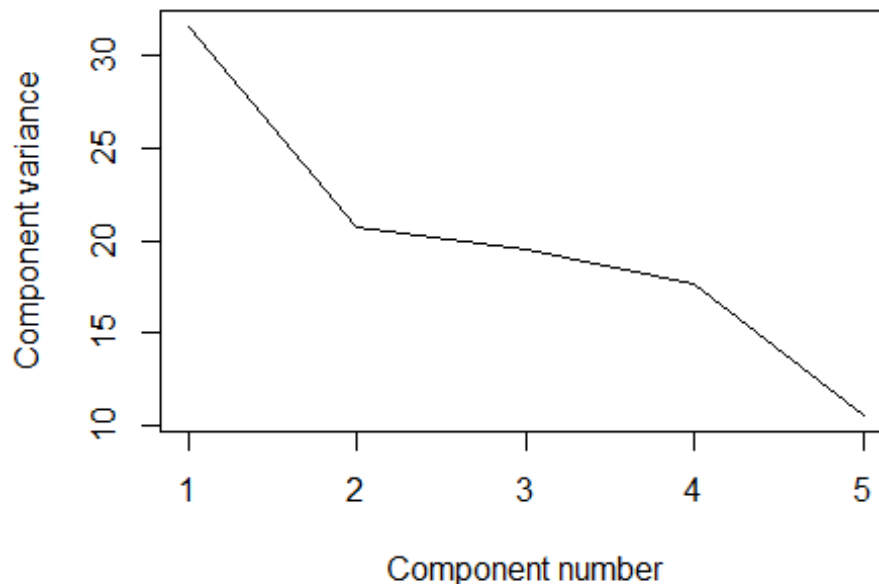


```

#Visualization using scree plot
plot(pcavarpercent, xlab = "Component number", ylab = "Component variance",
type = "l", main = "Scree diagram")

```

Scree diagram



#From the plot it can be deciphered that all PC components have good amount of information with them, approx 80% of variance is presented with PC1,PC2, PC3, and thus we cannot choose only two PC for dimensionality reduction #since it will lead to information loss.

K-means Clustering

#install.packages("cluster")

library(cluster)

```
airbnbManhattanClust = data.frame(  
  airbnbManhattan$price,  
  airbnbManhattan$number_of_reviews,  
  airbnbManhattan$reviews_per_month)
```

#Making property id as Rownames, so cluster will be formed iwth these points.

```
rownames(airbnbManhattanClust) <- airbnbManhattan$id
```

#Scaling done to make the data on one scale.

```
scaleManhattan <- scale(airbnbManhattanClust[,1:ncol(airbnbManhattanClust)])  
head(scaleManhattan)
```

```
##      airbnbManhattan.price airbnbManhattan.number_of_reviews  
## 2595          0.3309951          0.3986977  
## 5022         -0.6278950         -0.3990478  
## 5099          0.1656692          1.0413261  
## 5203         -0.6345081          2.0163484
```

```
## 5238          -0.1649825          2.9470516
## 5295          -0.2641781          0.5759745
##      airbnbManhattan.reviews_per_month
## 2595          -0.57621567
## 5022          -0.76041999
## 5099          -0.43806243
## 5203          -0.17491341
## 5238          0.04876326
## 5295          -0.54332204
```

We will find K-means by taking k=2, 3, 4, 5, 6...
Centers (k's) are numbers thus, 10 random sets are chosen

#For 2 clusters, k-means = 2

```
(kmeans2.Manhattan <- kmeans(scaleManhattan,2,nstart = 10))
```

```
## K-means clustering with 2 clusters of sizes 13380, 3204
```

```
##
```

```
## Cluster means:
```

```
##      airbnbManhattan.price airbnbManhattan.number_of_reviews
```

```
## 1          0.02087686          -0.3354392
```

```
## 2          -0.08718238          1.4008040
```

```
##      airbnbManhattan.reviews_per_month
```

```
## 1          -0.3862641
```

```
## 2          1.6130503
```

```
##
```

```
## Clustering vector:
```

```
##      2595      5022      5099      5203      5238      5295      5441      6021
```

```
##      1          1          1          2          2          1          2          2
```

```
##      6090      7322      9357      9518      9657      9668      9704      9783
```

```
##      1          2          1          2          1          2          2          2
```

```
##      12048     12192     12318     12343     14287     14322     14991     15220
```

```
##      2          2          1          2          1          1          1          2
```

```
##      15341     15396     15711     16421     16580     16821     16974     17037
```

```
##      1          1          1          2          2          2          2          1
```

```
##      17092     17693     18127     18152     18728     19159     19169     19319
```

```
##      1          1          1          2          2          1          1          1
```

```
##      20299     20300     21456     21644     21794     22918     23501     23686
```

```
##      2          1          1          1          1          1          1          1
```

```
##      25696     26362     26559     26933     26954     27006     27385     27644
```

```
##      2          2          1          1          1          1          2          2
```

```
##      27759     27883     28907     29012     29455     29683     30927     31130
```

```
##      1          1          1          1          2          1          1          1
```

```
##      31555     33014     35526     36647     36703     38638     39267     40453
```

```
##      1          1          1          1          2          2          2          1
```

```
##      41513     44212     44221     44288     44506     45393     45542     45936
```

```
##      1          1          2          1          1          1          1          2
```

```
##      47199     47370     47926     48719     51485     51572     53137     54453
```

```
##      2          1          1          2          2          2          1          1
```

```
##      54544     54860     55668     55737     56467     56859     57468     57618
```

##	2	2	2	2	2	2	2	1
##	57740	57754	57874	58467	59014	59709	59855	60164
##	1	2	2	1	1	1	1	1
##	60457	60611	60666	60673	60680	60794	60948	61167
##	1	2	2	1	2	1	2	1
##	61224	61406	61492	61509	62427	62891	62903	63693
##	1	1	2	1	1	2	1	2
##	64707	64837	65019	65562	65813	66251	66275	66718
##	1	2	2	1	1	1	2	2
##	67288	67397	68099	68305	68735	68974	69894	70095
##	1	1	2	1	1	2	1	2
##	70128	70609	71010	71248	71366	72190	74333	74404
##	1	1	1	1	1	1	1	1
##	75635	77936	80493	82638	83847	84659	84905	86215
##	2	1	2	2	1	2	2	2
##	98330	98663	99070	100002	102995	103806	106363	107895
##	1	1	2	2	1	2	2	1
##	110739	112304	112359	113945	114229	114969	115535	115678
##	1	1	1	2	1	1	1	2
##	118430	123784	125053	126816	128975	132570	133025	135706
##	1	2	1	1	2	1	2	1
##	140973	141890	141984	142069	144087	144148	145994	147586
##	1	1	1	1	1	1	1	1
##	148201	148825	150804	152078	152259	152263	153780	154934
##	1	2	1	1	2	2	2	1
##	159913	160609	160994	161996	163809	163814	164989	165461
##	1	1	2	2	1	2	1	1
##	166006	166541	167013	167482	168084	168546	168810	169002
##	2	1	1	2	2	1	1	1
##	170420	171776	172700	172870	173072	173742	174966	176653
##	1	1	1	1	2	2	1	1
##	177495	177606	179670	179741	181972	182069	182095	187488
##	1	1	2	1	2	1	1	1
##	187986	188674	189135	189181	190267	191075	193105	193853
##	1	1	1	1	1	1	1	1
##	194154	195123	197155	197753	199195	200955	203901	204959
##	1	2	2	2	1	1	1	2
##	205043	211974	212109	212178	213330	215907	218358	219793
##	2	1	1	2	1	1	1	1
##	219818	219922	220351	220946	221618	222304	224004	224006
##	1	1	2	2	1	1	1	1
##	225297	227735	228496	228517	228979	229367	230877	230956
##	1	2	1	1	1	2	2	2
##	231414	232618	233189	233662	234184	235651	235951	235960
##	1	2	1	1	1	1	2	2
##	237127	239055	239766	241862	245504	245607	246351	246938
##	2	1	1	1	2	1	1	2
##	248871	249414	249618	250323	250536	250801	251277	252076
##	2	1	1	1	1	2	2	2
##	252607	253590	253623	255957	256328	258688	258690	258740

##	1	1	1	1	1	1	1	2
##	260765	261259	261344	261674	261781	262343	262478	262583
##	2	1	1	1	1	1	1	2
##	263190	263232	263888	264323	265145	265506	265831	266146
##	1	1	2	2	1	1	1	1
##	266155	266449	266756	267376	267708	268392	268868	270345
##	1	1	1	1	1	1	1	1
##	271694	271950	271954	272026	272044	273190	274062	274743
##	1	1	2	1	1	1	1	1
##	276482	277370	278090	278631	279093	281521	281851	282443
##	2	1	2	1	1	1	2	2
##	283090	283550	284855	285442	285492	286838	287408	289020
##	1	1	2	1	1	2	1	1
##	289288	289665	289703	290457	291524	292047	292121	294250
##	2	2	1	1	1	2	1	1
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## 36004542 36025515 36026259 36029624 36032098 36034580 36038287 36044645
##      2      1      1      1      1      1      1      1
## 36057961 36062290 36069486 36075404 36076577 36076807 36077537 36078121
##      1      1      1      1      1      1      1      1
## 36081181 36082127 36097970 36100102 36106887 36112469 36113257 36113697
##      1      1      1      1      1      1      1      1
## 36128584 36133997 36137740 36139954 36140236 36140801 36147750 36152878
##      1      1      1      1      1      1      1      2
## 36172164 36198430 36198599 36205674 36221298 36224876 36235154 36242888
##      1      1      1      1      1      1      1      1
## 36272851 36273046 36274037 36318560 36335990 36351128 36411407 36425863
##      1      1      1      1      1      1      1      1
##
## Within cluster sum of squares by cluster:
## [1] 19155.88 12437.49
## (between_SS / total_SS =  36.5 %)
##
## Available components:
##
## [1] "cluster"      "centers"      "totss"        "withinss"
## [5] "tot.withinss" "betweenss"    "size"         "iter"
## [9] "ifault"

# Computing the percentage of variation accounted for two clusters
perc_var_kmeans2 <- round(100*(1 -
kmeans2.Manhattan$betweenss/kmeans2.Manhattan$totss),1)
names(perc_var_kmeans2) <- "Perc. 2 clus"
perc_var_kmeans2

## Perc. 2 clus
##      63.5

#For 3 clusters, k-means = 3
(kmeans3.Manhattan <- kmeans(scaleManhattan,3,nstart = 10))

## K-means clustering with 3 clusters of sizes 3079, 715, 12790
##
## Cluster means:
##   airbnbManhattan.price airbnbManhattan.number_of_reviews
## 1           -0.1646776              1.4421421

```

```

## 2          3.4221035          -0.2310378
## 3          -0.1516624          -0.3342583
##   airbnbManhattan.reviews_per_month
## 1          1.62693947
## 2          -0.01131017
## 3          -0.39102892
##
## Clustering vector:
##   2595    5022    5099    5203    5238    5295    5441    6021
##     3      3      3      1      1      3      1      1
##   6090    7322    9357    9518    9657    9668    9704    9783
##     3      1      3      1      3      1      1      1
##  12048   12192   12318   12343   14287   14322   14991   15220
##     1      1      3      3      3      3      3      1
##  15341   15396   15711   16421   16580   16821   16974   17037
##     3      3      3      1      1      1      1      3
##  17092   17693   18127   18152   18728   19159   19169   19319
##     3      3      3      1      1      3      3      3
##  20299   20300   21456   21644   21794   22918   23501   23686
##     1      3      3      3      3      3      3      2
##  25696   26362   26559   26933   26954   27006   27385   27644
##     1      1      3      3      3      3      1      1
##  27759   27883   28907   29012   29455   29683   30927   31130
##     3      3      3      3      1      3      3      3
##  31555   33014   35526   36647   36703   38638   39267   40453
##     3      3      3      3      1      1      1      3
##  41513   44212   44221   44288   44506   45393   45542   45936
##     3      3      1      3      3      3      3      1
##  47199   47370   47926   48719   51485   51572   53137   54453
##     1      3      3      1      1      1      3      3
##  54544   54860   55668   55737   56467   56859   57468   57618
##     1      1      1      1      1      1      1      1
##  57740   57754   57874   58467   59014   59709   59855   60164
##     3      1      1      3      3      3      3      2
##  60457   60611   60666   60673   60680   60794   60948   61167
##     3      1      1      3      1      3      1      3
##  61224   61406   61492   61509   62427   62891   62903   63693
##     2      3      1      3      3      1      3      1
##  64707   64837   65019   65562   65813   66251   66275   66718
##     3      1      1      3      3      3      1      1
##  67288   67397   68099   68305   68735   68974   69894   70095
##     3      3      1      3      3      1      3      1
##  70128   70609   71010   71248   71366   72190   74333   74404
##     3      2      3      3      3      3      3      3
##  75635   77936   80493   82638   83847   84659   84905   86215
##     1      3      1      1      3      1      1      1
##  98330   98663   99070   100002  102995  103806  106363  107895
##     3      3      1      1      3      1      1      3
## 110739  112304  112359  113945  114229  114969  115535  115678
##     3      3      3      1      3      3      3      1

```

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##	159913	160609	160994	161996	163809	163814	164989	165461
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##	166006	166541	167013	167482	168084	168546	168810	169002
##	1	3	3	1	1	3	3	3
##	170420	171776	172700	172870	173072	173742	174966	176653
##	3	3	3	3	1	1	2	3
##	177495	177606	179670	179741	181972	182069	182095	187488
##	2	3	1	3	1	3	3	3
##	187986	188674	189135	189181	190267	191075	193105	193853
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##	194154	195123	197155	197753	199195	200955	203901	204959
##	3	1	1	1	3	3	3	1
##	205043	211974	212109	212178	213330	215907	218358	219793
##	1	3	3	1	3	3	3	3
##	219818	219922	220351	220946	221618	222304	224004	224006
##	3	3	1	1	3	3	3	3
##	225297	227735	228496	228517	228979	229367	230877	230956
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##	231414	232618	233189	233662	234184	235651	235951	235960
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##	237127	239055	239766	241862	245504	245607	246351	246938
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##	248871	249414	249618	250323	250536	250801	251277	252076
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##	263190	263232	263888	264323	265145	265506	265831	266146
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##	266155	266449	266756	267376	267708	268392	268868	270345
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##	289288	289665	289703	290457	291524	292047	292121	294250
##	1	1	3	3	3	1	3	3
##	295998	299078	301034	302758	303345	304799	309342	310325
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##	310338	310796	311343	313890	314982	317838	318021	320865
##	3	3	1	3	1	3	3	3

##	321014	321136	322974	323706	324517	325429	326832	327521
##	3	3	3	2	3	1	3	3
##	327778	328040	328693	329310	329385	333323	334781	336220
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##	339456	341525	341982	342027	342965	342995	343276	343971
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##	344019	346248	346805	347865	351859	352864	353317	354095
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##	357509	360400	361803	363320	369671	377217	378460	382523
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##	542203	544131	544331	546573	549873	550288	550777	550858
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##	35064797	35069936	35070555	35071302	35079670	35080969	35081477	35082055
##	3	3	1	2	3	1	3	3
##	35082713	35088935	35092820	35096173	35097684	35098251	35100775	35108156
##	1	3	3	3	3	2	2	2
##	35112957	35115612	35115893	35117804	35118554	35119736	35121319	35122826
##	3	3	3	1	1	3	3	3
##	35123753	35124153	35125511	35127234	35127865	35131138	35132345	35132775
##	1	3	3	3	3	1	1	1

##	35144255	35152601	35152749	35153334	35154411	35154533	35154571	35154668
##	2	1	1	3	3	1	3	3
##	35154803	35154913	35155188	35155925	35156439	35158358	35158765	35160771
##	3	1	1	2	1	1	3	1
##	35161225	35161717	35163290	35163461	35163692	35165258	35166290	35166495
##	2	3	3	3	3	2	3	2
##	35166718	35166913	35167097	35167683	35175500	35177453	35184104	35186258
##	3	3	3	3	3	3	3	3
##	35186445	35187654	35188017	35189446	35190131	35191909	35192077	35192314
##	3	2	1	3	1	3	3	2
##	35193964	35195580	35195898	35195915	35196057	35196099	35196648	35197271
##	2	3	3	3	3	3	3	2
##	35197281	35202508	35202605	35206134	35212471	35215644	35217833	35219177
##	3	1	1	3	3	3	3	3
##	35220744	35220970	35221845	35222909	35224490	35226973	35228252	35228797
##	1	1	3	3	3	2	3	1
##	35229075	35229201	35229609	35230465	35230828	35230999	35231242	35231903
##	3	1	1	2	3	3	2	1
##	35233897	35233962	35238264	35240989	35249301	35257081	35257699	35257756
##	3	3	3	3	3	1	3	3
##	35260885	35261651	35262444	35263872	35265962	35266495	35277302	35282883
##	1	3	1	1	3	3	3	1
##	35283631	35290739	35292625	35301999	35304831	35304884	35305083	35310394
##	3	3	3	3	3	3	3	2
##	35311495	35313296	35314165	35314242	35314580	35315156	35315486	35315865
##	3	1	3	3	3	3	3	3
##	35317010	35317854	35318634	35318863	35318942	35328951	35330887	35330965
##	3	3	3	3	3	3	3	2
##	35335248	35335762	35337180	35338703	35342841	35342886	35344556	35345097
##	3	3	3	2	3	3	3	3
##	35345370	35346826	35348683	35348877	35350827	35352621	35353949	35355147
##	1	3	3	3	2	3	3	1
##	35356745	35357271	35361159	35368172	35369372	35370678	35374230	35376755
##	3	3	1	1	3	3	1	3
##	35378514	35378679	35379267	35380648	35384172	35384544	35385249	35386373
##	1	3	3	1	1	1	1	3
##	35386835	35386983	35387029	35389856	35397690	35406411	35408455	35409488
##	3	1	3	3	3	3	1	3
##	35410832	35412871	35412877	35413859	35413988	35414687	35415489	35416674
##	3	1	2	3	2	1	1	2
##	35416858	35416914	35419996	35420233	35420277	35423325	35424717	35425032
##	3	2	3	3	3	1	3	3
##	35425682	35428184	35430128	35430525	35431739	35432326	35442636	35447651
##	3	1	1	3	3	3	3	1
##	35448360	35448516	35448841	35456322	35458547	35459319	35459328	35463466
##	3	3	3	3	3	2	3	3
##	35463900	35464448	35464492	35464662	35465106	35465452	35466745	35467734
##	3	3	3	3	1	2	1	3
##	35468906	35474470	35482322	35482897	35483304	35483911	35484875	35486871
##	3	1	3	3	1	3	3	3

##	35487783	35488376	35490739	35491013	35491409	35492191	35493937	35496676
##	3	1	3	3	1	3	3	1
##	35497792	35507424	35507713	35507844	35509152	35510673	35521170	35535750
##	3	3	3	3	3	3	3	3
##	35541835	35546843	35563249	35565616	35566070	35569189	35569459	35570674
##	3	3	3	3	3	3	2	2
##	35573815	35574349	35576863	35578345	35578913	35579143	35579436	35579504
##	3	3	2	3	3	3	3	1
##	35580305	35582464	35582765	35583886	35584234	35590205	35593963	35596923
##	1	3	3	2	3	1	3	2
##	35597268	35598116	35598472	35598561	35598818	35601668	35604447	35608098
##	3	1	3	3	3	1	3	3
##	35609328	35609562	35610591	35613002	35614490	35614638	35614773	35616750
##	3	3	3	1	3	3	3	3
##	35617075	35617353	35618225	35619385	35633100	35634901	35642823	35645630
##	3	1	3	3	3	3	3	3
##	35646375	35646737	35647761	35647951	35648056	35650326	35655420	35655547
##	3	3	3	3	3	1	3	3
##	35658004	35658677	35666988	35667379	35669735	35673061	35674837	35676174
##	3	2	3	3	3	2	1	3
##	35681056	35682527	35684457	35685857	35686069	35692073	35706957	35707367
##	3	3	3	3	3	3	3	3
##	35707595	35707945	35709161	35709450	35709825	35710697	35711228	35713272
##	3	3	3	3	3	3	1	3
##	35713596	35715171	35716058	35716310	35717735	35718438	35718516	35718849
##	3	2	3	3	3	3	2	1
##	35726877	35739927	35757611	35760845	35765145	35766124	35768121	35768150
##	3	3	3	3	3	3	3	3
##	35768266	35768324	35769795	35783252	35784049	35793455	35794314	35796073
##	1	3	3	3	3	3	3	3
##	35811237	35812122	35816788	35819469	35826827	35830404	35832547	35832561
##	1	3	3	3	3	3	3	3
##	35835936	35836317	35839537	35842268	35843964	35844248	35846059	35860425
##	3	3	3	1	3	3	2	1
##	35873317	35874763	35876236	35877755	35879296	35880719	35880886	35893569
##	3	1	3	1	3	2	3	3
##	35900875	35903391	35907127	35907876	35913114	35916694	35920784	35921065
##	3	3	3	3	3	3	3	3
##	35943320	35943649	35946773	35948011	35949012	35963599	35966895	35967471
##	3	3	3	3	3	3	3	3
##	35968923	35971673	35971885	35974123	35994980	36000376	36001552	36002857
##	3	3	3	3	3	2	3	3
##	36004542	36025515	36026259	36029624	36032098	36034580	36038287	36044645
##	1	3	3	3	3	3	3	3
##	36057961	36062290	36069486	36075404	36076577	36076807	36077537	36078121
##	3	3	3	3	3	3	3	3
##	36081181	36082127	36097970	36100102	36106887	36112469	36113257	36113697
##	3	3	3	3	3	3	3	3
##	36128584	36133997	36137740	36139954	36140236	36140801	36147750	36152878
##	3	3	3	3	3	3	3	1

```

## 36172164 36198430 36198599 36205674 36221298 36224876 36235154 36242888
##          3          3          3          3          3          3          3          3
## 36272851 36273046 36274037 36318560 36335990 36351128 36411407 36425863
##          3          3          3          3          3          3          3          3
##
## Within cluster sum of squares by cluster:
## [1] 11168.553 3924.003 7929.109
## (between_SS / total_SS = 53.7 %)
##
## Available components:
##
## [1] "cluster"      "centers"      "totss"        "withinss"
## [5] "tot.withinss" "betweenss"    "size"         "iter"
## [9] "ifault"

# Computing the percentage of variation accounted for. Two clusters
perc_var_kmeans3 <- round(100*(1 -
kmeans3.Manhattan$betweenss/kmeans3.Manhattan$totss),1)
names(perc_var_kmeans3) <- "Perc. 3 clus"
perc_var_kmeans3

## Perc. 3 clus
##          46.3

#For 4 clusters, k-means = 4
(kmeans4.Manhattan <- kmeans(scaleManhattan,4,nstart = 10))

## K-means clustering with 4 clusters of sizes 11949, 1214, 2765, 656
##
## Cluster means:
##   airbnbManhattan.price airbnbManhattan.number_of_reviews
## 1          -0.15862908          -0.3429562
## 2          -0.20916569           2.9388558
## 3          -0.06829112           0.2480044
## 4           3.56434594          -0.2370733
##   airbnbManhattan.reviews_per_month
## 1          -0.48169322
## 2           1.44822725
## 3           1.46881864
## 4          -0.09707185
##
## Clustering vector:
##    2595    5022    5099    5203    5238    5295    5441    6021
##     1      1      1      2      2      1      2      2
##   6090    7322    9357    9518    9657    9668    9704    9783
##     1      2      1      2      1      2      3      2
##  12048   12192   12318   12343   14287   14322   14991   15220
##     2      2      1      1      1      1      1      2
##  15341   15396   15711   16421   16580   16821   16974   17037
##     1      1      1      2      2      2      2      1
##  17092   17693   18127   18152   18728   19159   19169   19319

```

##	1	1	1	2	2	1	1	1
##	20299	20300	21456	21644	21794	22918	23501	23686
##	2	1	1	1	1	1	1	4
##	25696	26362	26559	26933	26954	27006	27385	27644
##	2	2	1	1	1	1	2	2
##	27759	27883	28907	29012	29455	29683	30927	31130
##	1	1	1	1	2	1	1	1
##	31555	33014	35526	36647	36703	38638	39267	40453
##	1	1	1	1	2	2	2	1
##	41513	44212	44221	44288	44506	45393	45542	45936
##	1	1	2	1	1	1	1	2
##	47199	47370	47926	48719	51485	51572	53137	54453
##	2	1	1	2	2	2	1	1
##	54544	54860	55668	55737	56467	56859	57468	57618
##	2	2	2	2	2	2	2	1
##	57740	57754	57874	58467	59014	59709	59855	60164
##	1	2	2	1	1	1	1	4
##	60457	60611	60666	60673	60680	60794	60948	61167
##	1	2	2	1	2	1	2	1
##	61224	61406	61492	61509	62427	62891	62903	63693
##	4	3	2	1	1	2	1	2
##	64707	64837	65019	65562	65813	66251	66275	66718
##	1	2	2	1	1	1	2	2
##	67288	67397	68099	68305	68735	68974	69894	70095
##	1	1	2	1	1	2	1	2
##	70128	70609	71010	71248	71366	72190	74333	74404
##	1	4	1	1	1	1	1	1
##	75635	77936	80493	82638	83847	84659	84905	86215
##	2	1	2	2	1	2	2	2
##	98330	98663	99070	100002	102995	103806	106363	107895
##	1	1	2	2	1	2	2	1
##	110739	112304	112359	113945	114229	114969	115535	115678
##	1	1	1	2	1	1	1	2
##	118430	123784	125053	126816	128975	132570	133025	135706
##	1	2	1	1	2	1	2	1
##	140973	141890	141984	142069	144087	144148	145994	147586
##	1	1	1	1	1	1	1	1
##	148201	148825	150804	152078	152259	152263	153780	154934
##	1	2	1	1	2	2	2	1
##	159913	160609	160994	161996	163809	163814	164989	165461
##	1	1	2	2	1	2	1	1
##	166006	166541	167013	167482	168084	168546	168810	169002
##	2	1	1	2	2	1	1	1
##	170420	171776	172700	172870	173072	173742	174966	176653
##	1	1	1	1	2	2	4	1
##	177495	177606	179670	179741	181972	182069	182095	187488
##	1	1	1	1	2	1	1	1
##	187986	188674	189135	189181	190267	191075	193105	193853
##	1	1	1	1	1	1	1	1
##	194154	195123	197155	197753	199195	200955	203901	204959

##	1	2	2	2	1	1	1	2
##	205043	211974	212109	212178	213330	215907	218358	219793
##	2	1	1	2	1	1	1	1
##	219818	219922	220351	220946	221618	222304	224004	224006
##	1	1	1	2	1	1	1	1
##	225297	227735	228496	228517	228979	229367	230877	230956
##	1	2	1	1	1	2	2	2
##	231414	232618	233189	233662	234184	235651	235951	235960
##	1	2	1	1	1	1	2	1
##	237127	239055	239766	241862	245504	245607	246351	246938
##	2	1	1	1	2	1	1	2
##	248871	249414	249618	250323	250536	250801	251277	252076
##	4	1	1	1	1	4	2	2
##	252607	253590	253623	255957	256328	258688	258690	258740
##	1	1	1	4	4	1	1	2
##	260765	261259	261344	261674	261781	262343	262478	262583
##	2	1	1	1	1	1	1	2
##	263190	263232	263888	264323	265145	265506	265831	266146
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##	271694	271950	271954	272026	272044	273190	274062	274743
##	1	1	2	1	1	4	1	1
##	276482	277370	278090	278631	279093	281521	281851	282443
##	2	1	2	1	1	1	2	2
##	283090	283550	284855	285442	285492	286838	287408	289020
##	1	1	1	1	1	2	1	1
##	289288	289665	289703	290457	291524	292047	292121	294250
##	2	2	1	1	1	2	1	1
##	295998	299078	301034	302758	303345	304799	309342	310325
##	1	2	1	1	1	1	1	1
##	310338	310796	311343	313890	314982	317838	318021	320865
##	1	1	2	1	2	1	1	1
##	321014	321136	322974	323706	324517	325429	326832	327521
##	1	1	1	4	1	2	1	1
##	327778	328040	328693	329310	329385	333323	334781	336220
##	1	1	2	1	1	2	1	2
##	339456	341525	341982	342027	342965	342995	343276	343971
##	1	1	1	1	1	1	2	1
##	344019	346248	346805	347865	351859	352864	353317	354095
##	1	1	1	2	1	1	2	1
##	357509	360400	361803	363320	369671	377217	378460	382523
##	1	2	1	1	4	1	1	1
##	382524	385190	386744	386799	387324	387377	387666	387735
##	1	1	1	2	1	1	1	2
##	393016	393094	393682	396636	397034	397297	397420	398281
##	2	1	1	1	1	1	1	1
##	399946	401836	403056	403264	403668	405408	406926	409293
##	1	1	1	2	1	2	1	1
##	411336	413775	413876	415304	418291	419792	422040	424192

##	2	1	1	1	1	1	1	1
##	424667	424767	424889	430427	430665	431865	435774	435776
##	2	2	1	1	1	1	1	1
##	435909	435946	436619	436824	436916	437906	442649	443646
##	1	1	1	1	1	1	1	1
##	446367	447766	449130	450577	453255	454334	454763	454929
##	1	1	1	1	1	1	1	1
##	455734	455801	456110	456190	456457	456526	457829	459066
##	2	2	1	2	1	1	2	1
##	460036	460999	462454	467569	467866	470090	470498	471712
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##	478949	480549	481022	482365	483485	489018	489965	490278
##	1	2	2	1	2	1	1	1
##	491942	491977	493177	494937	500845	501082	501693	502132
##	1	1	2	4	2	2	2	1
##	503529	503790	504322	504394	504437	505029	505231	506571
##	1	1	1	1	1	1	1	1
##	510218	510454	511960	515392	516461	518566	518960	521038
##	2	1	1	1	1	1	2	1
##	522081	524111	525120	525412	525523	526532	526923	526942
##	2	2	1	1	1	1	1	1
##	530247	530431	530576	531258	532288	533168	533506	533927
##	1	2	1	1	2	1	1	2
##	534897	535352	538344	539160	539350	540057	540489	542054
##	1	1	2	1	1	2	1	1
##	542203	544131	544331	546573	549873	550288	550777	550858
##	1	1	1	4	1	1	1	1
##	552141	552639	553565	555206	560078	563442	563496	564049
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##	564184	564447	564751	566712	568743	573612	573870	576227
##	1	2	2	2	2	2	1	4
##	576426	576916	577703	578267	580323	583352	584122	585369
##	1	1	1	1	1	1	1	2
##	587554	587740	590903	591135	591565	593000	593292	593320
##	1	1	1	2	1	1	2	2
##	594020	594036	594640	595604	599595	602888	606269	607781
##	2	1	1	1	1	1	1	2
##	607891	611009	612936	613528	613556	621430	623747	624222
##	2	2	1	1	1	1	1	1
##	627432	628078	628227	629770	629774	629949	633950	634353
##	1	1	1	1	1	2	1	4
##	635114	636391	637716	638898	639781	640589	640990	641768
##	1	1	1	1	1	4	2	1
##	643591	643948	644833	644869	645075	645922	645942	646147
##	1	2	2	1	2	1	1	1
##	647520	647580	648047	651375	651475	652371	652466	652515
##	1	1	2	4	2	1	1	1
##	652648	652691	654005	654232	654612	655230	655783	657005

##	1	1	1	1	1	1	3	1
##	657217	657727	658366	658515	659952	660036	661814	663608
##	2	2	2	1	1	1	1	1
##	664047	665394	666220	667375	668400	669831	671633	675793
##	4	1	1	1	1	2	1	1
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##	1	1	1	2	2	1	1	1
##	684808	684991	686696	689900	690849	693597	695002	695465
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##	697499	697923	698094	698162	698298	698327	698514	700530
##	1	2	1	1	1	1	1	1
##	702551	703745	707396	707736	708374	710243	710284	711635
##	4	1	2	1	2	1	1	1
##	714939	719914	720394	721719	721762	722451	723507	723523
##	4	1	1	1	1	1	1	1
##	723560	723709	725270	728493	728498	728764	729841	731293
##	1	1	1	1	2	1	1	2
##	731316	732624	734749	735677	735890	737075	739239	739242
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##	34318100	34320892	34331364	34331925	34334524	34335188	34336328	34336740
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##	34337319	34337574	34338645	34338806	34339330	34340299	34340357	34340758
##	1	3	1	1	3	1	1	3
##	34341588	34341994	34343208	34343752	34356012	34356642	34358866	34363955
##	3	1	3	3	1	3	1	1
##	34366331	34368310	34368412	34368927	34369031	34369458	34370061	34370217
##	1	3	3	1	1	3	3	1
##	34371113	34372753	34373538	34373985	34378303	34378941	34383329	34384453
##	1	4	3	3	1	1	1	3
##	34384645	34384745	34386648	34387952	34387993	34388788	34389381	34389997
##	1	3	4	1	1	3	3	1
##	34390308	34390645	34390910	34391029	34391036	34391530	34391964	34392073
##	3	3	3	3	3	3	3	3
##	34392407	34392437	34392767	34393999	34397198	34397351	34397915	34399221
##	3	3	1	1	3	4	1	1
##	34399801	34399874	34402760	34404561	34410542	34414240	34415448	34415489
##	1	3	1	1	3	3	1	4
##	34417846	34418059	34419834	34420423	34421507	34424598	34428476	34429111
##	3	1	3	4	3	1	1	1
##	34429703	34435500	34438417	34439212	34440093	34446024	34446327	34446644
##	3	1	3	4	1	1	4	1
##	34446902	34447284	34447529	34448753	34451049	34451494	34453822	34453828
##	3	1	1	3	3	1	3	1
##	34453829	34464505	34465167	34468427	34471524	34473196	34473487	34473821
##	1	3	1	3	1	3	4	1
##	34474349	34478718	34478719	34482823	34483425	34483431	34483432	34483436
##	1	4	3	1	1	4	1	1
##	34483443	34485282	34485283	34485285	34485741	34485742	34485745	34485746

##	1	1	1	1	1	3	3	1
##	34489385	34489569	34489715	34489725	34490376	34490377	34491611	34491852
##	1	3	3	1	1	3	1	1
##	34492121	34493247	34495013	34498482	34498765	34500224	34500384	34501332
##	3	1	3	1	4	3	1	3
##	34504058	34504385	34507958	34508183	34509926	34514860	34515538	34516167
##	4	3	3	1	1	3	1	3
##	34516187	34516657	34532307	34538751	34543674	34543762	34545793	34545869
##	1	1	1	3	4	3	1	3
##	34546035	34549093	34550196	34552276	34562155	34562857	34565485	34566104
##	1	3	3	1	1	3	3	1
##	34568097	34569042	34570816	34571306	34572976	34574929	34582016	34587796
##	1	3	1	1	4	1	1	1
##	34593079	34594922	34595255	34595441	34595632	34599215	34600508	34601499
##	3	1	3	3	3	3	3	1
##	34604195	34607249	34607651	34608937	34615705	34624240	34641992	34642119
##	3	3	3	1	3	1	1	3
##	34643618	34644243	34645029	34646217	34647032	34647727	34649031	34650667
##	1	1	1	3	3	3	1	1
##	34651712	34651745	34652342	34653695	34659944	34668348	34670423	34672846
##	1	1	1	1	3	1	1	1
##	34675072	34675093	34676486	34678944	34679993	34680900	34681035	34683256
##	1	1	3	3	3	4	3	3
##	34684535	34686108	34686293	34687393	34705719	34706349	34706742	34708657
##	1	1	1	1	1	1	3	3
##	34709658	34711272	34711540	34714231	34716458	34718504	34719445	34721879
##	3	3	1	3	4	1	4	3
##	34721935	34722659	34738463	34741536	34741897	34741976	34742586	34744587
##	1	3	1	3	3	3	1	1
##	34751113	34751224	34753373	34756040	34757500	34759503	34774681	34778518
##	1	3	3	1	4	1	3	3
##	34783461	34783503	34783887	34784469	34785319	34785509	34785850	34788798
##	3	3	1	1	1	1	4	3
##	34788810	34790340	34790450	34790625	34790702	34791292	34793874	34796261
##	1	1	3	3	4	3	1	3
##	34804749	34804794	34805393	34805654	34806115	34810928	34811838	34812124
##	3	3	3	3	3	1	3	1
##	34812586	34812878	34813137	34813189	34813479	34813879	34813915	34814184
##	1	3	3	3	3	3	1	1
##	34815163	34816747	34817032	34817571	34817616	34834620	34835013	34835303
##	3	3	3	4	3	1	1	1
##	34838079	34843532	34843761	34855302	34857004	34858021	34858480	34859949
##	3	3	3	1	3	1	1	4
##	34861069	34862827	34865775	34866413	34867034	34868182	34871854	34885475
##	3	3	1	1	4	4	1	3
##	34892732	34893564	34900746	34902713	34903658	34907479	34907584	34908245
##	3	3	1	1	1	3	1	3
##	34910222	34910439	34912300	34928299	34928988	34929016	34935124	34935198
##	1	1	3	1	3	3	3	1
##	34935216	34937287	34937685	34939305	34943129	34944309	34944843	34945599

##	1	3	3	3	3	4	3	3
##	34945827	34947011	34948758	34949054	34949851	34953317	34954639	34954790
##	3	4	1	1	3	4	1	1
##	34956249	34956747	34958857	34959292	34959441	34959442	34962230	34962946
##	1	1	1	1	1	1	1	3
##	34962979	34964711	34966969	34967678	34967770	34972072	34972355	34973988
##	3	1	3	3	1	3	3	1
##	34974799	34975845	34976038	34977363	34978133	34979429	34980397	34995443
##	3	3	1	1	1	1	1	4
##	34995803	34996136	34996955	34997245	34997345	34998736	34999128	35000157
##	4	4	4	1	3	1	3	4
##	35000403	35000596	35000795	35003827	35005222	35005797	35006072	35006121
##	3	1	1	1	3	4	3	3
##	35007240	35008478	35008790	35010988	35012326	35021821	35025851	35026069
##	4	1	1	3	3	1	4	3
##	35026159	35026452	35026962	35028223	35029487	35029537	35030427	35030589
##	3	3	3	3	3	1	3	3
##	35030835	35031082	35031409	35031778	35031939	35032636	35032803	35033521
##	1	3	3	3	3	3	1	1
##	35033921	35034410	35034543	35034773	35035291	35035847	35036056	35037976
##	1	1	3	3	1	1	3	3
##	35038048	35038124	35038269	35038426	35039302	35040055	35040098	35040805
##	3	4	3	1	3	3	1	3
##	35044981	35050872	35055437	35060288	35062294	35063045	35064019	35064196
##	1	3	3	1	3	1	3	1
##	35064797	35069936	35070555	35071302	35079670	35080969	35081477	35082055
##	1	3	3	3	1	3	1	3
##	35082713	35088935	35092820	35096173	35097684	35098251	35100775	35108156
##	3	1	1	1	1	4	3	4
##	35112957	35115612	35115893	35117804	35118554	35119736	35121319	35122826
##	3	1	1	3	3	1	1	1
##	35123753	35124153	35125511	35127234	35127865	35131138	35132345	35132775
##	3	1	3	3	1	3	3	3
##	35144255	35152601	35152749	35153334	35154411	35154533	35154571	35154668
##	4	3	3	1	3	3	3	1
##	35154803	35154913	35155188	35155925	35156439	35158358	35158765	35160771
##	1	3	3	1	3	3	3	3
##	35161225	35161717	35163290	35163461	35163692	35165258	35166290	35166495
##	4	1	1	1	1	3	3	4
##	35166718	35166913	35167097	35167683	35175500	35177453	35184104	35186258
##	1	1	1	3	1	1	1	1
##	35186445	35187654	35188017	35189446	35190131	35191909	35192077	35192314
##	3	4	3	1	3	1	1	4
##	35193964	35195580	35195898	35195915	35196057	35196099	35196648	35197271
##	3	1	1	3	1	1	1	4
##	35197281	35202508	35202605	35206134	35212471	35215644	35217833	35219177
##	1	3	3	1	3	3	1	1
##	35220744	35220970	35221845	35222909	35224490	35226973	35228252	35228797
##	3	3	1	1	3	4	1	3
##	35229075	35229201	35229609	35230465	35230828	35230999	35231242	35231903

##	1	3	3	4	1	3	4	3
##	35233897	35233962	35238264	35240989	35249301	35257081	35257699	35257756
##	1	1	1	3	1	3	1	3
##	35260885	35261651	35262444	35263872	35265962	35266495	35277302	35282883
##	3	1	3	3	3	1	1	3
##	35283631	35290739	35292625	35301999	35304831	35304884	35305083	35310394
##	1	1	1	1	1	3	1	4
##	35311495	35313296	35314165	35314242	35314580	35315156	35315486	35315865
##	1	3	3	1	3	1	1	1
##	35317010	35317854	35318634	35318863	35318942	35328951	35330887	35330965
##	1	1	1	1	1	1	1	4
##	35335248	35335762	35337180	35338703	35342841	35342886	35344556	35345097
##	1	1	1	4	1	1	3	1
##	35345370	35346826	35348683	35348877	35350827	35352621	35353949	35355147
##	3	3	1	1	4	1	1	3
##	35356745	35357271	35361159	35368172	35369372	35370678	35374230	35376755
##	1	1	3	3	3	1	3	1
##	35378514	35378679	35379267	35380648	35384172	35384544	35385249	35386373
##	3	3	1	3	3	3	3	1
##	35386835	35386983	35387029	35389856	35397690	35406411	35408455	35409488
##	1	3	1	3	3	1	3	3
##	35410832	35412871	35412877	35413859	35413988	35414687	35415489	35416674
##	1	3	4	3	4	3	3	3
##	35416858	35416914	35419996	35420233	35420277	35423325	35424717	35425032
##	1	4	1	1	1	3	1	1
##	35425682	35428184	35430128	35430525	35431739	35432326	35442636	35447651
##	1	3	3	3	1	3	1	3
##	35448360	35448516	35448841	35456322	35458547	35459319	35459328	35463466
##	3	1	1	3	1	4	1	1
##	35463900	35464448	35464492	35464662	35465106	35465452	35466745	35467734
##	1	1	3	1	3	3	3	1
##	35468906	35474470	35482322	35482897	35483304	35483911	35484875	35486871
##	1	3	1	1	3	1	1	1
##	35487783	35488376	35490739	35491013	35491409	35492191	35493937	35496676
##	3	3	1	1	3	1	1	3
##	35497792	35507424	35507713	35507844	35509152	35510673	35521170	35535750
##	1	1	1	1	1	1	1	3
##	35541835	35546843	35563249	35565616	35566070	35569189	35569459	35570674
##	1	1	3	1	1	1	4	4
##	35573815	35574349	35576863	35578345	35578913	35579143	35579436	35579504
##	3	1	4	1	1	1	1	3
##	35580305	35582464	35582765	35583886	35584234	35590205	35593963	35596923
##	3	3	1	4	1	3	1	4
##	35597268	35598116	35598472	35598561	35598818	35601668	35604447	35608098
##	1	3	3	3	1	3	3	1
##	35609328	35609562	35610591	35613002	35614490	35614638	35614773	35616750
##	1	1	1	3	1	1	1	1
##	35617075	35617353	35618225	35619385	35633100	35634901	35642823	35645630
##	3	3	1	3	3	1	1	1
##	35646375	35646737	35647761	35647951	35648056	35650326	35655420	35655547

```

##      1      1      1      1      1      3      3      1
## 35658004 35658677 35666988 35667379 35669735 35673061 35674837 35676174
##      1      4      3      1      1      4      3      1
## 35681056 35682527 35684457 35685857 35686069 35692073 35706957 35707367
##      3      1      1      1      1      1      1      3
## 35707595 35707945 35709161 35709450 35709825 35710697 35711228 35713272
##      1      1      1      3      3      1      3      1
## 35713596 35715171 35716058 35716310 35717735 35718438 35718516 35718849
##      1      4      1      3      1      1      4      3
## 35726877 35739927 35757611 35760845 35765145 35766124 35768121 35768150
##      1      1      1      3      1      1      1      1
## 35768266 35768324 35769795 35783252 35784049 35793455 35794314 35796073
##      3      1      1      1      1      1      1      1
## 35811237 35812122 35816788 35819469 35826827 35830404 35832547 35832561
##      3      1      3      1      1      1      1      1
## 35835936 35836317 35839537 35842268 35843964 35844248 35846059 35860425
##      1      1      1      3      1      1      3      3
## 35873317 35874763 35876236 35877755 35879296 35880719 35880886 35893569
##      1      3      1      3      1      4      1      1
## 35900875 35903391 35907127 35907876 35913114 35916694 35920784 35921065
##      1      1      1      1      1      1      1      1
## 35943320 35943649 35946773 35948011 35949012 35963599 35966895 35967471
##      1      1      1      1      1      1      3      1
## 35968923 35971673 35971885 35974123 35994980 36000376 36001552 36002857
##      1      1      1      1      1      4      1      1
## 36004542 36025515 36026259 36029624 36032098 36034580 36038287 36044645
##      3      1      1      1      1      1      1      1
## 36057961 36062290 36069486 36075404 36076577 36076807 36077537 36078121
##      1      1      1      1      1      3      1      1
## 36081181 36082127 36097970 36100102 36106887 36112469 36113257 36113697
##      1      1      3      1      1      1      1      1
## 36128584 36133997 36137740 36139954 36140236 36140801 36147750 36152878
##      1      1      1      1      1      1      1      3
## 36172164 36198430 36198599 36205674 36221298 36224876 36235154 36242888
##      3      1      1      1      1      1      1      1
## 36272851 36273046 36274037 36318560 36335990 36351128 36411407 36425863
##      1      1      1      1      1      1      1      1
##

```

```
## Within cluster sum of squares by cluster:
```

```
## [1] 6088.311 3331.124 4623.149 3617.839
```

```
## (between_SS / total_SS = 64.5 %)
```

```
##
```

```
## Available components:
```

```
##
```

```
## [1] "cluster"      "centers"      "totss"        "withinss"
```

```
## [5] "tot.withinss" "betweenss"    "size"         "iter"
```

```
## [9] "ifault"
```

```
# Computing the percentage of variation accounted for. Two clusters
```

```
perc_var_kmeans4 <- round(100*(1 -
```



```

kmeans4.Manhattan$betweenss/kmeans4.Manhattan$totss),1)
names(perc_var_kmeans4) <- "Perc. 4 clus"
perc_var_kmeans4

## Perc. 4 clus
##          35.5

#From above, after computing percentage of variation for each k means, we
found that k means 3 could be good to preesent our data
# Saving above 3 k-means (1,2,3) in a list

#Filtering properties which are in 1 cluster of k mean 3
clus1 <- matrix(names(kmeans3.Manhattan$cluster[kmeans3.Manhattan$cluster ==
1])),
               ncol=1,
nrow=length(kmeans3.Manhattan$cluster[kmeans3.Manhattan$cluster == 1]))

colnames(clus1) <- "Cluster 1"

#Filtering properties which are in 2 cluster of k mean 3
clus2 <- matrix(names(kmeans3.Manhattan$cluster[kmeans3.Manhattan$cluster ==
2])),
               ncol=1,
nrow=length(kmeans3.Manhattan$cluster[kmeans3.Manhattan$cluster == 2]))
colnames(clus2) <- "Cluster 2"

#Filtering properties which are in 3 cluster of k mean 3
clus3 <- matrix(names(kmeans3.Manhattan$cluster[kmeans3.Manhattan$cluster ==
3])),
               ncol=1,
nrow=length(kmeans3.Manhattan$cluster[kmeans3.Manhattan$cluster == 3]))
colnames(clus3) <- "Cluster 3"

list(clus1,clus2,clus3)

## [[1]]
##      Cluster 1
##      [1,] "5203"
##      [2,] "5238"
##      [3,] "5441"
##      [4,] "6021"
##      [5,] "7322"
##      [6,] "9518"
##      [7,] "9668"
##      [8,] "9704"
##      [9,] "9783"
##     [10,] "12048"
##     [11,] "12192"
##     [12,] "15220"
##     [13,] "16421"

```

```
## [14,] "16580"  
## [15,] "16821"  
## [16,] "16974"  
## [17,] "18152"  
## [18,] "18728"  
## [19,] "20299"  
## [20,] "25696"  
## [21,] "26362"  
## [22,] "27385"  
## [23,] "27644"  
## [24,] "29455"  
## [25,] "36703"  
## [26,] "38638"  
## [27,] "39267"  
## [28,] "44221"  
## [29,] "45936"  
## [30,] "47199"  
## [31,] "48719"  
## [32,] "51485"  
## [33,] "51572"  
## [34,] "54544"  
## [35,] "54860"  
## [36,] "55668"  
## [37,] "55737"  
## [38,] "56467"  
## [39,] "56859"  
## [40,] "57468"  
## [41,] "57618"  
## [42,] "57754"  
## [43,] "57874"  
## [44,] "60611"  
## [45,] "60666"  
## [46,] "60680"  
## [47,] "60948"  
## [48,] "61492"  
## [49,] "62891"  
## [50,] "63693"  
## [51,] "64837"  
## [52,] "65019"  
## [53,] "66275"  
## [54,] "66718"  
## [55,] "68099"  
## [56,] "68974"  
## [57,] "70095"  
## [58,] "75635"  
## [59,] "80493"  
## [60,] "82638"  
## [61,] "84659"  
## [62,] "84905"  
## [63,] "86215"
```

```
## [64,] "99070"
## [65,] "100002"
## [66,] "103806"
## [67,] "106363"
## [68,] "113945"
## [69,] "115678"
## [70,] "123784"
## [71,] "128975"
## [72,] "133025"
## [73,] "148825"
## [74,] "152259"
## [75,] "152263"
## [76,] "153780"
## [77,] "160994"
## [78,] "161996"
## [79,] "163814"
## [80,] "166006"
## [81,] "167482"
## [82,] "168084"
## [83,] "173072"
## [84,] "173742"
## [85,] "179670"
## [86,] "181972"
## [87,] "195123"
## [88,] "197155"
## [89,] "197753"
## [90,] "204959"
## [91,] "205043"
## [92,] "212178"
## [93,] "220351"
## [94,] "220946"
## [95,] "227735"
## [96,] "229367"
## [97,] "230877"
## [98,] "230956"
## [99,] "232618"
## [100,] "235951"
## [101,] "235960"
## [102,] "237127"
## [103,] "245504"
## [104,] "246938"
## [105,] "251277"
## [106,] "252076"
## [107,] "258740"
## [108,] "260765"
## [109,] "262583"
## [110,] "263888"
## [111,] "264323"
## [112,] "271954"
## [113,] "276482"
```

```
## [114,] "278090"  
## [115,] "281851"  
## [116,] "282443"  
## [117,] "284855"  
## [118,] "286838"  
## [119,] "289288"  
## [120,] "289665"  
## [121,] "292047"  
## [122,] "299078"  
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```

```
head(clus1,5)
```

```
##      Cluster 1  
## [1,] "5203"  
## [2,] "5238"  
## [3,] "5441"  
## [4,] "6021"  
## [5,] "7322"
```

```
head(clus2,5)
```

```
##      Cluster 2  
## [1,] "23686"  
## [2,] "60164"  
## [3,] "61224"  
## [4,] "70609"  
## [5,] "174966"
```

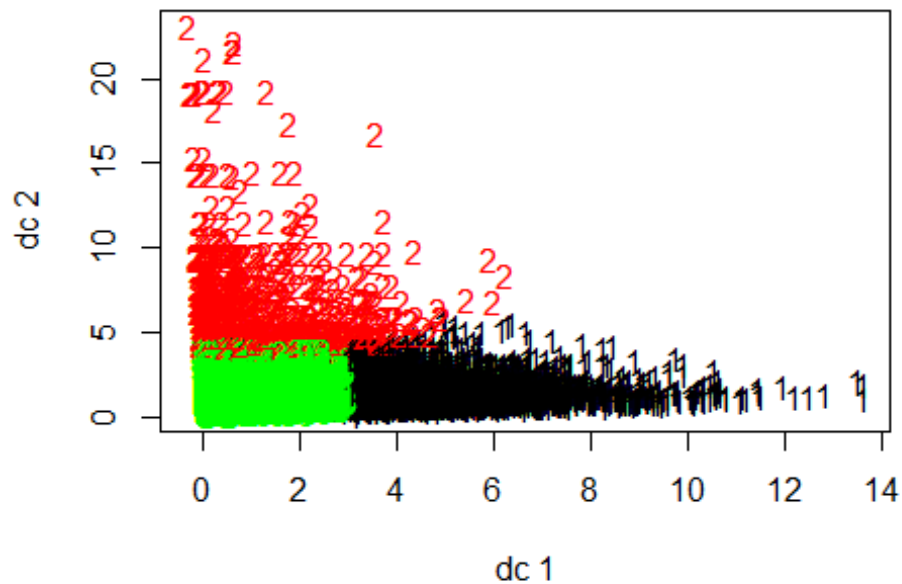
```
head(clus3,5)
```

```
##      Cluster 3  
## [1,] "2595"  
## [2,] "5022"
```

```
## [3,] "5099"  
## [4,] "5295"  
## [5,] "6090"
```

#Now we will plot these clusters

```
library(fpc)  
plotcluster(airbnbManhattanClust, kmeans3.Manhattan$cluster)
```



#We can make three subsets for three clusters by row filtering

```
airbnbManhattanCluster1 <- subset(airbnbManhattan, airbnbManhattan$id %in%  
clus1)  
airbnbManhattanCluster2 <- subset(airbnbManhattan, airbnbManhattan$id %in%  
clus2)  
airbnbManhattanCluster3 <- subset(airbnbManhattan, airbnbManhattan$id %in%  
clus3)
```

#Tried checking if properties in particular clusters are located in some specific area in Manhattan

```
length(unique(airbnbManhattanCluster1$neighbourhood))
```

```
## [1] 32
```

```
length(unique(airbnbManhattanCluster2$neighbourhood))
```

```
## [1] 28
```

```
length(unique(airbnbManhattanCluster3$neighbourhood))
```

```
## [1] 32
```

#We did not get any idea, as all clusters have almost all locations.

#This is to check the mean of 3 clusters

```
kmeans3.Manhattan$centers
```

```
##   airbnbManhattan.price airbnbManhattan.number_of_reviews
```

```
## 1          -0.1646776                1.4421421
```

```
## 2           3.4221035                -0.2310378
```

```
## 3          -0.1516624                -0.3342583
```

```
##   airbnbManhattan.reviews_per_month
```

```
## 1              1.62693947
```

```
## 2             -0.01131017
```

```
## 3             -0.39102892
```

#We will see average price, average number of reviews , average reviews per month for houses in each cluster to get a better idea of most recommendable properties.

```
mean(airbnbManhattanCluster1$price)
```

```
## [1] 150.0461
```

```
mean(airbnbManhattanCluster1$number_of_reviews)
```

```
## [1] 92.08769
```

```
mean(airbnbManhattanCluster1$reviews_per_month)
```

```
## [1] 3.728909
```

```
mean(airbnbManhattanCluster2$price)
```

```
## [1] 692.4266
```

```
mean(airbnbManhattanCluster2$number_of_reviews)
```

```
## [1] 16.58182
```

```
mean(airbnbManhattanCluster2$reviews_per_month)
```

```
## [1] 1.238685
```

```
mean(airbnbManhattanCluster3$price)
```

```
## [1] 152.0142
```

```
mean(airbnbManhattanCluster3$number_of_reviews)
```

```
## [1] 11.92377
```

```
mean(airbnbManhattanCluster3$reviews_per_month)
```

```
## [1] 0.6614934
```

#From above means , we find that properties in cluter 2 have average price of 150 and avargae no of reviews as 16.

#However for clust 1, avg price is 150 and avg no.of reviews is 11.

for 3, avg price is 692 and avg no of reviews is 16

#Thus the most recommended properties for people to stay in Manhattan lies in Cluster 2

```
setDT(airbnbManhattanCluster2)
```

#Here we are trying to see the top apartment type available in cluster 2.

```
nrow(airbnbManhattanCluster2[airbnbManhattanCluster2$room_type == 'Entire  
home/apt'])
```

```
## [1] 655
```

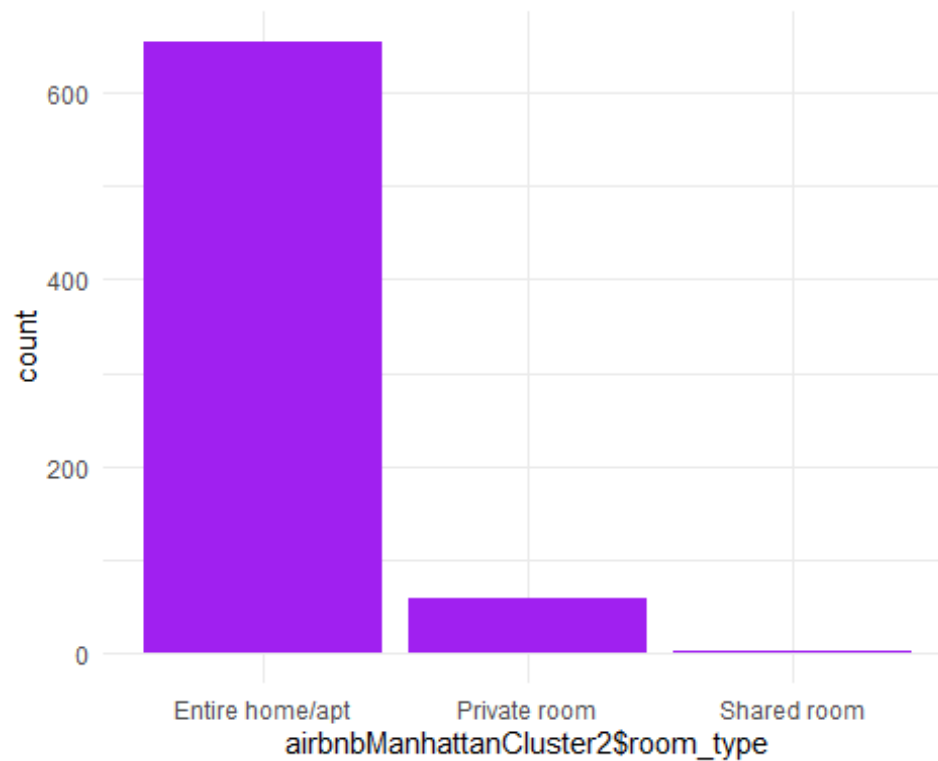
```
nrow(airbnbManhattanCluster2[airbnbManhattanCluster2$room_type == 'Private  
room'])
```

```
## [1] 58
```

```
nrow(airbnbManhattanCluster2[airbnbManhattanCluster2$room_type == 'Shared  
room'])
```

```
## [1] 2
```

```
ggplot(airbnbManhattanCluster2, aes(x=airbnbManhattanCluster2$room_type))  
+geom_bar(fill ='purple') +theme_minimal()
```

From this we see, that Entire home/apt and private room are the most available ones.

#Below we have shown the areas in Manhattan which have these properties in Cluster 2.

#There is no specific location in Manhattan have this spread out.

```
ggplot(airbnbManhattanCluster2,  
aes(x=airbnbManhattanCluster2$longitude,y=airbnbManhattanCluster2$latitude))  
+ geom_point(size=0.1, color = 'dark blue')
```

