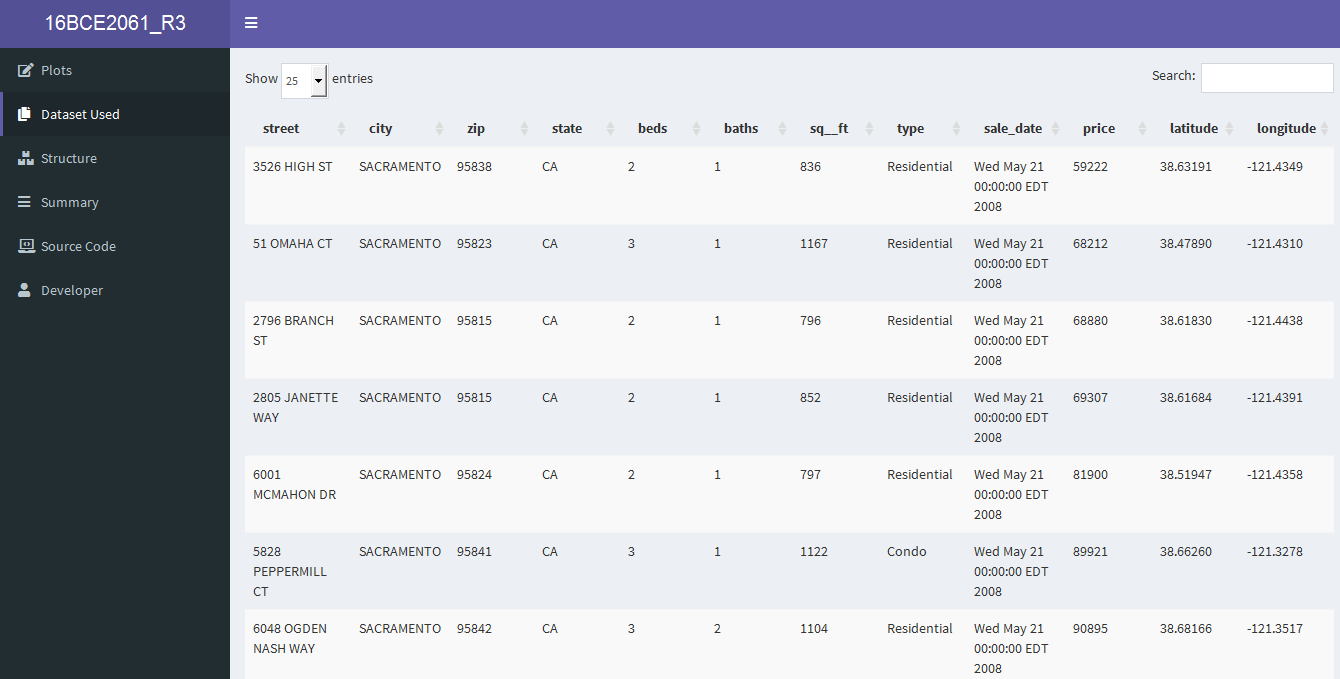
https://github.com/eellpp/SampleDataFiles/tree/master/csv/real-estate



# No. of attributes and rows

No of attributes: 12 No of rows: 985

**Attributes definition – What do they mean?**

Street: The street name in which the flats are present city: City name in which the flats are present

zip: Pin Code of the cities

state: The state name in which the flats are present beds: Total number of beds present in the given flat baths: Total number of baths present in the given flat

sq ft: Total area of the given flat

type: Type of the flat present(Residential, Condo, Multi Family, Unlnown)

sale\_date: The date in which the flat was sold

price: Price of the given flat

latitude : Location coordinates of the given flat

longitude: Location coordinates of the given flat

**Dashboard Code:**

ui <- dashboardPage(skin= "purple",

dashboardHeader(title = "16BCE2061\_R3"),

dashboardSidebar(

sidebarMenu(

menuItem("Plots", tabName = "dashboard", icon = icon("edit")),

menuItem("Dataset Used", tabName = "dataset", icon = icon("copy")),

menuItem("Structure", tabName = "struct", icon = icon("boxes")),

menuItem("Summary", tabName = "datasummary", icon = icon("bars")),

menuItem("Source Code", tabName = "scode", icon = icon("laptop-code")),

menuItem("Developer", tabName = "devp", icon = icon("user"))

)

),

dashboardBody(

# Boxes need to be put in a row (or column)

tabItems(

tabItem(tabName= "dashboard",

fluidRow(

infoBox("Pie Charts", 2, icon = icon("chart-line")),

infoBox("ScatterPlot", 10 \* 2, icon = icon("chart-line"), color= "purple"),

infoBox("Boxplot", 10 \* 2, icon = icon("chart-line"), color= "yellow"),

infoBox("Barplot", 10 \* 2, icon = icon("chart-line"), fill = TRUE),

infoBox("Linegraphs", 10 \* 2, icon = icon("chart-line"), color= "purple",fill = TRUE),

infoBox("GeoSpatial Graphs", 10 \* 2, icon = icon("chart-line"),color= "yellow",fill = TRUE)

),

fluidRow(

box( title = "PLOT 1",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot3", height = 400)),

box( title = "PLOT 2",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot4", height = 400)),

box( title = "PLOT 3",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot5", height = 400)),

box( title = "PLOT 4",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot6", height = 400)),

box( title = "PLOT 5",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot7", height = 400)),

box( title = "PLOT 6",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot8", height = 400)),

box( title = "PLOT 7",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot9", height = 400)),

box( title = "PLOT 8",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot10", height = 400)),

box( title = "PLOT 9",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot11", height = 400)),

box( title = "PLOT 10",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot12", height = 400)),

box( title = "PLOT 11",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot13", height = 400)),

box( title = "PLOT 12",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot14", height = 400)),

box( title = "PLOT 13",status = "primary", solidHeader = TRUE,

collapsible = TRUE,plotOutput("plot15", height = 400)),

#box( title = "PLOT 14",status = "primary", solidHeader = TRUE,

#collapsible = TRUE,plotOutput("plot16", height = 400))

)

),

tabItem(tabName= "dataset", dataTableOutput("table")),

tabItem(tabName= "datasummary",dataTableOutput("summary")),

tabItem(tabName= "struct",textOutput("str")),

tabItem(tabName= "scode",tags$img(src= "a.png")),

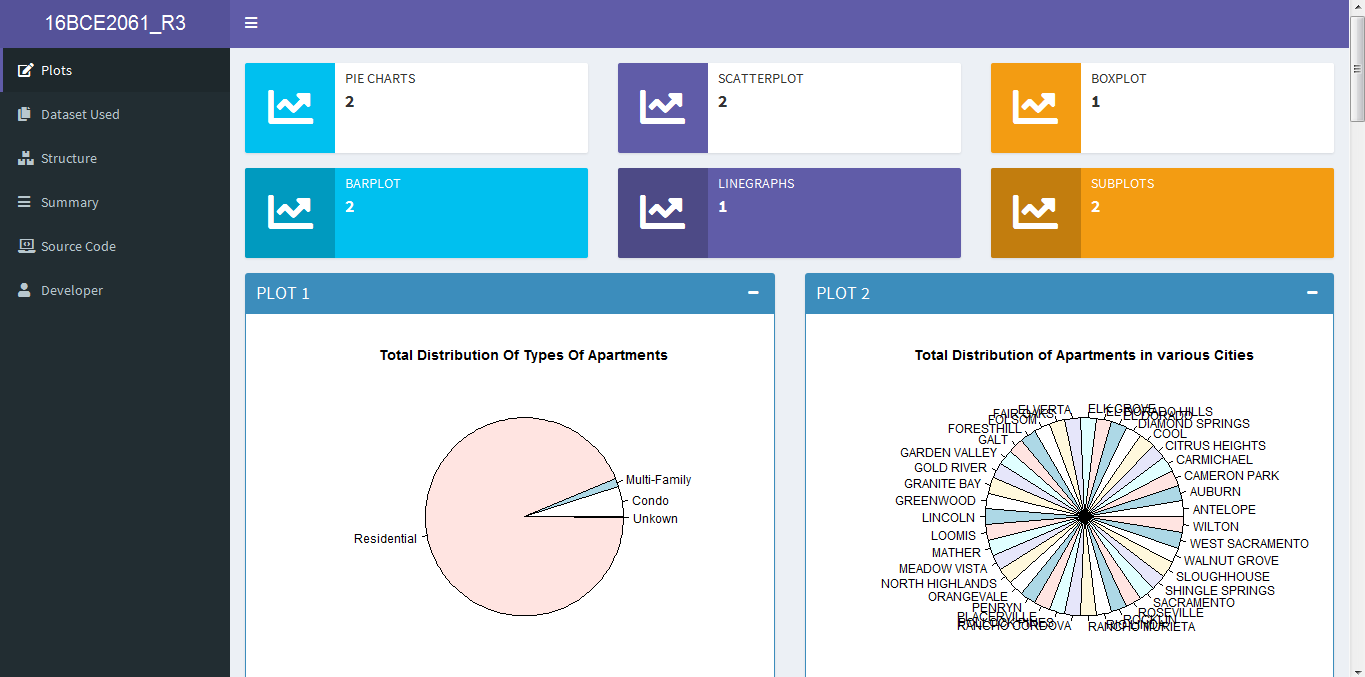
tabItem(tabName= "devp", h1("Tab5"),tags$img(src = "a.png"))

)

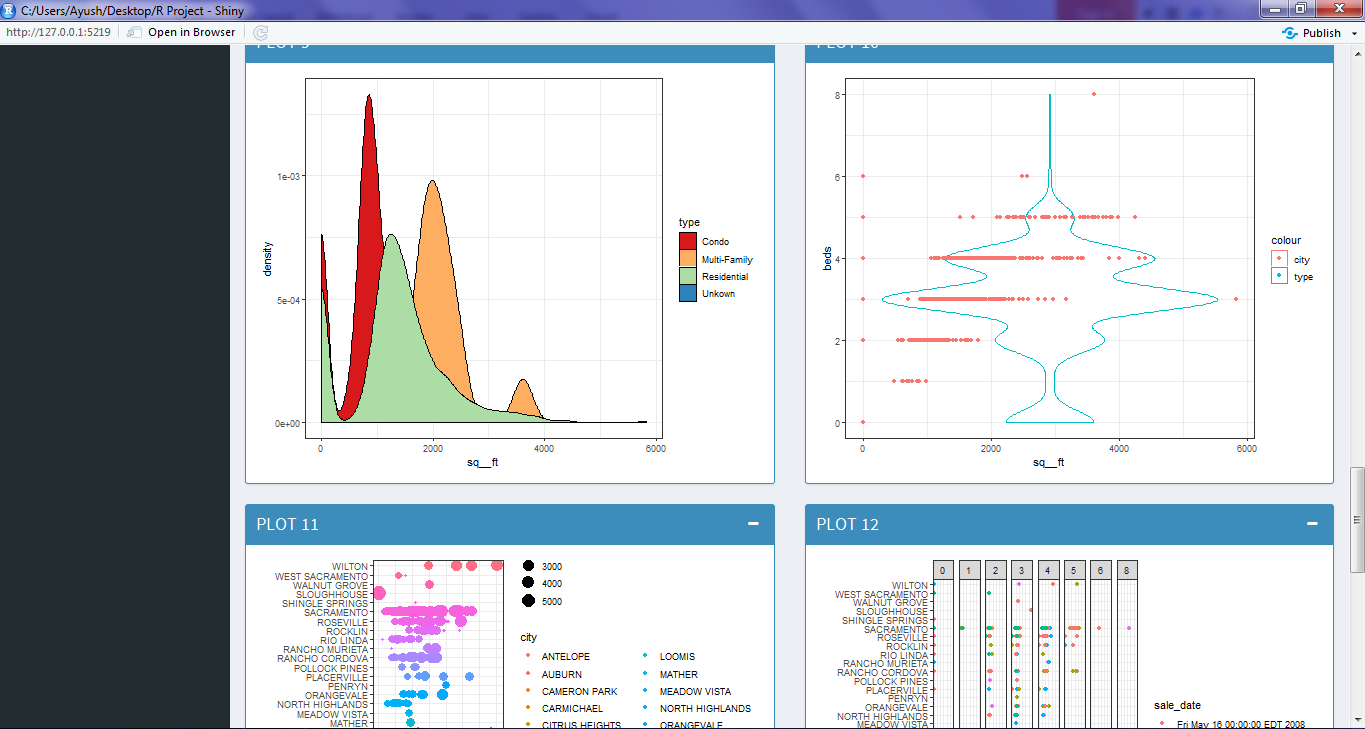
)

)

**DASHBOARD SCREENSHOTS:**



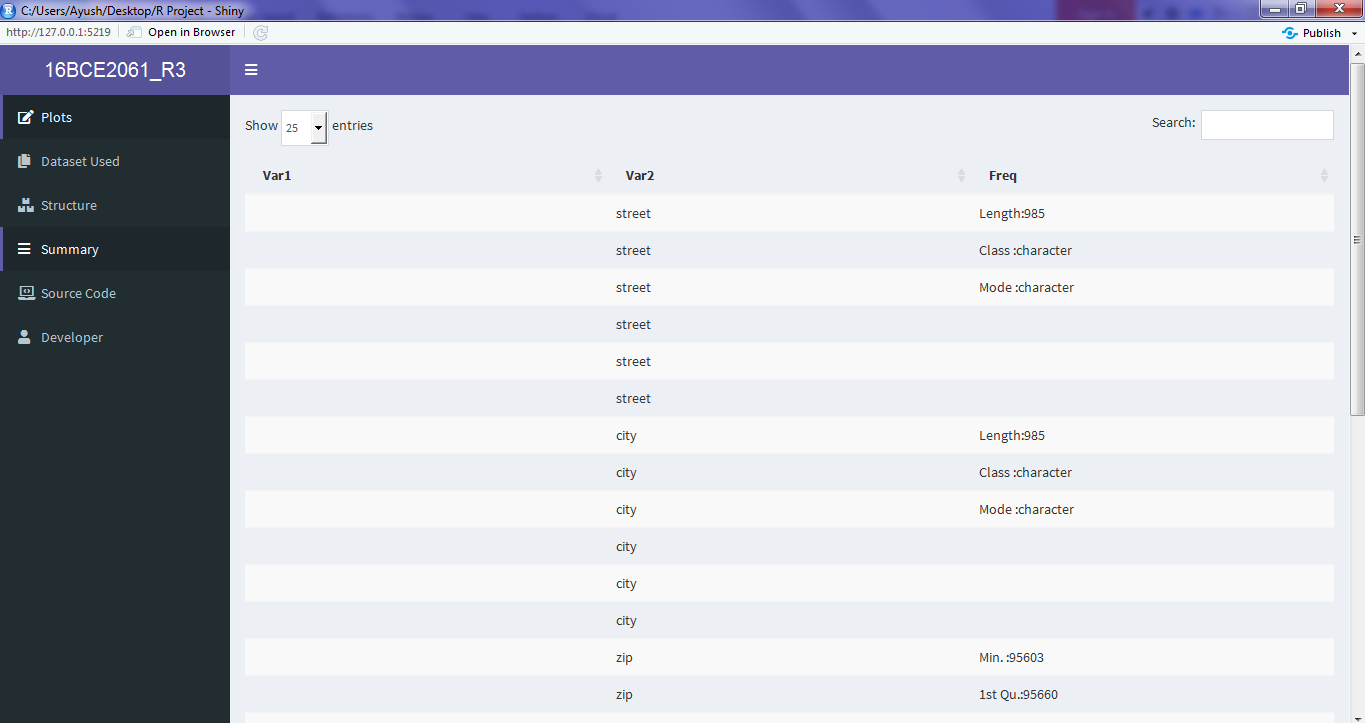
**Showing different plots of the dataset used**



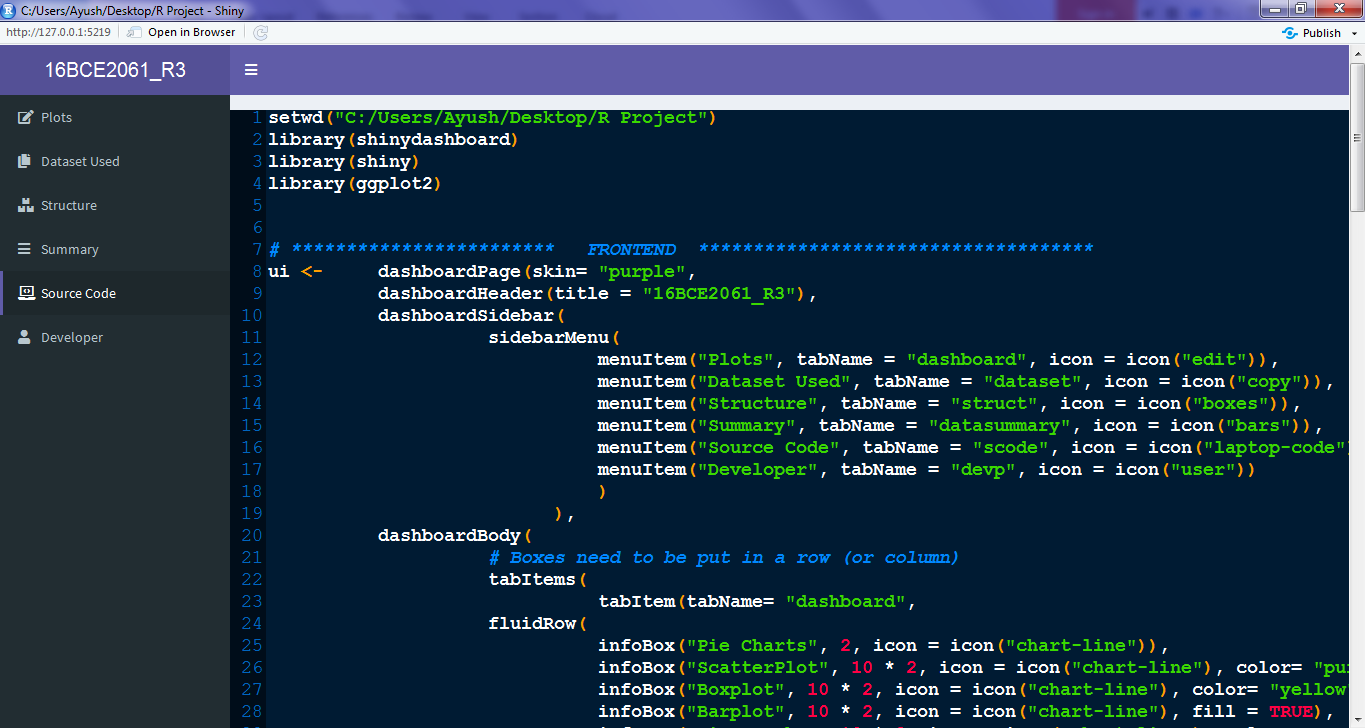
**Showing different plots of the dataset used**



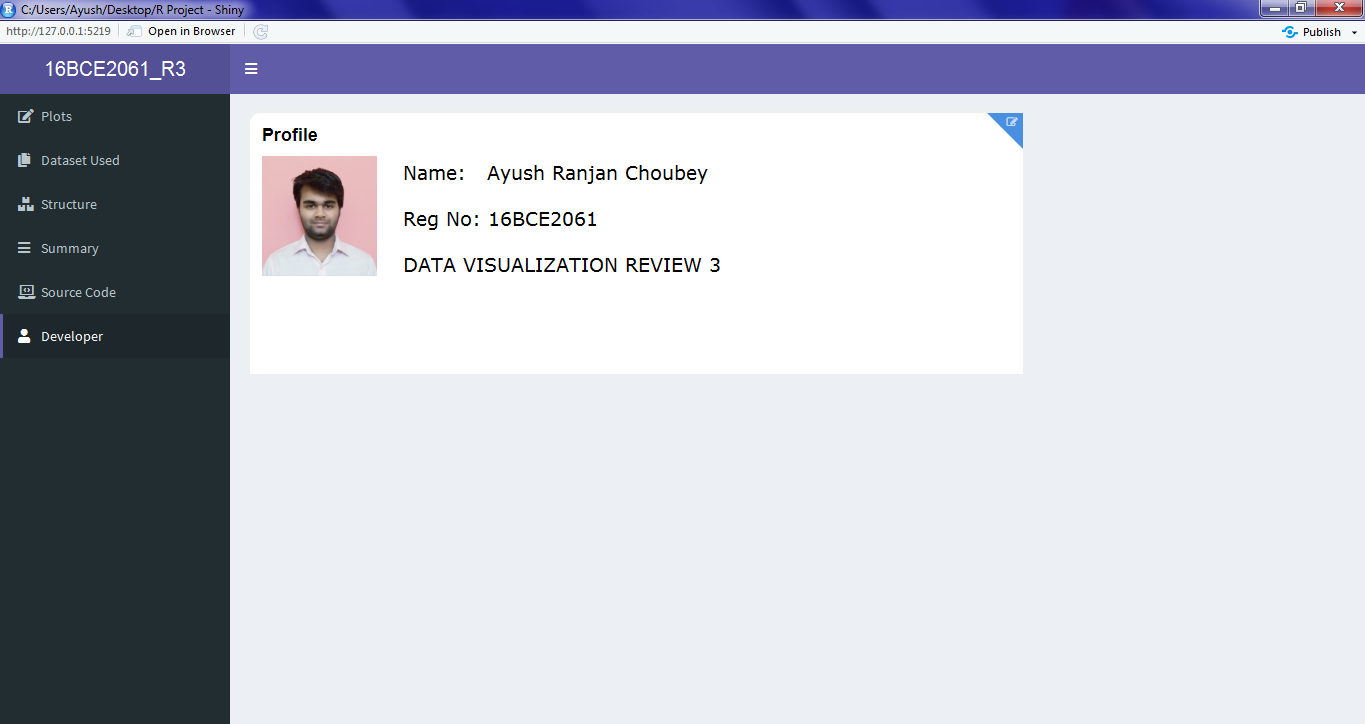
**DataTable output Of the csv file used**



**Structure Of the csv file used**

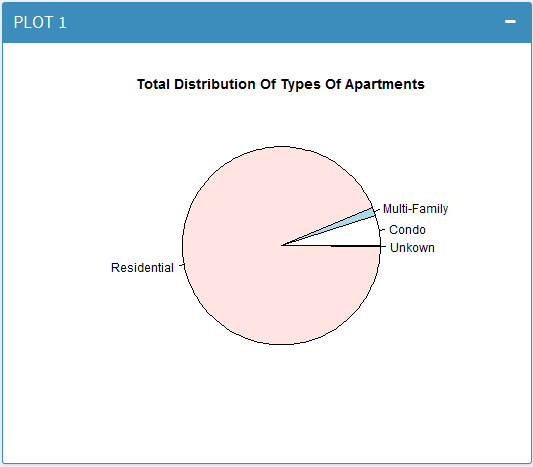


**Source code Of the Dashboard using image src**



**Details Of the developer of dashboard**

**PLOTS :**



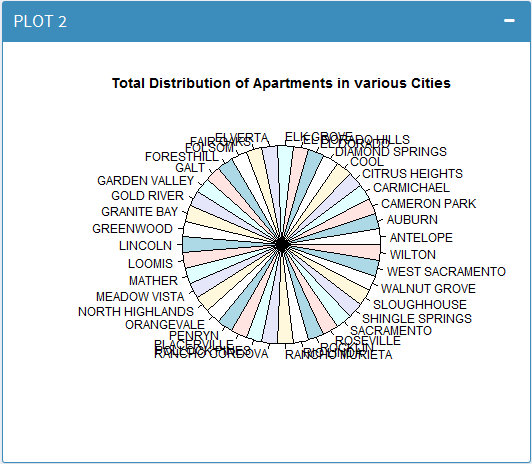
**CODE:**

type <- tapply(d$latitude, d$type , FUN= function(x) length(unique(x)) )

pie(type, main= "Total Distribution Of Types Of Apartments")

**Explaination:**

Total distribution of different types of apartments



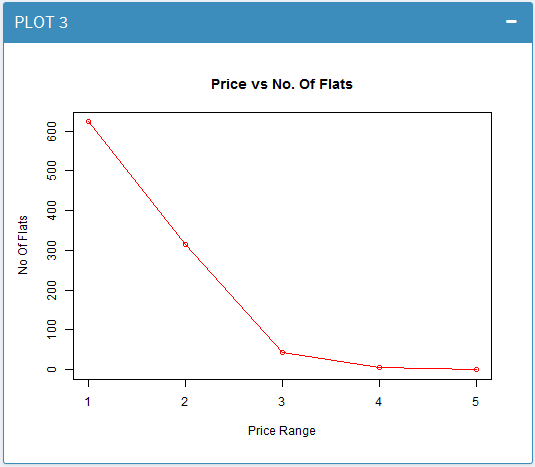
**CODE:**

city <- tapply(d$state, d$city , FUN= function(x) length(unique(x)))

pie(city, main= "Total Distribution of Apartments in various Cities")

**Explaination:**

Pie Chart for different cities



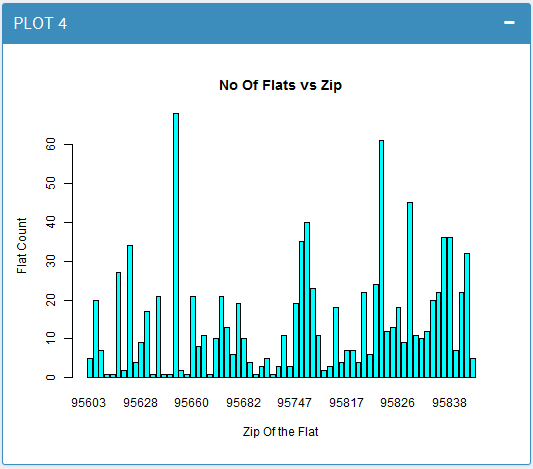
**CODE:**

price <- c(623,314,43,5,0)

plot(price,xlab= "Price Range", ylab ="No Of Flats", main= "Price vs No. Of Flats", col= "red",border= "blue", type="o")

**Explaination:**

Line Graph for price vs no of flats



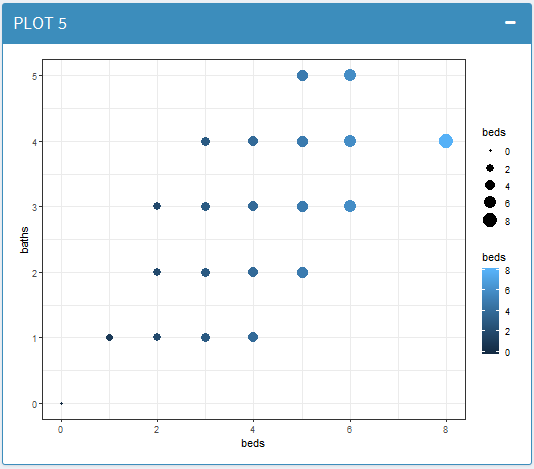
**CODE:**

a<-tapply (d$latitude, d$zip, FUN= function(x) length(unique(x)))

barplot(a, col= "cyan", main= "No Of Flats vs Zip", xlab= "Zip Of the Flat", ylab="Flat Count")

**Explaination:**

Barplot for no of flats vs zip

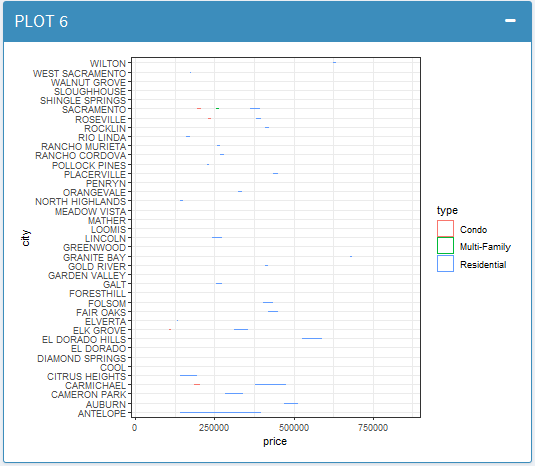


**CODE:**

ggplot(d, aes(x= beds, y= baths, colour= beds, size= beds))+ geom\_point()

**Explaination:**

Scatterplot for no of baths vs no of beds

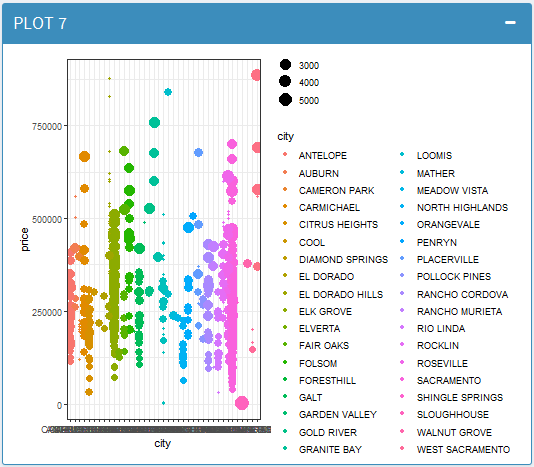


**CODE:**

ggplot(d, aes(x= price, y= city, colour= type, size= price))+ geom\_violin()

**Explaination:**

Violin plot for price vs city



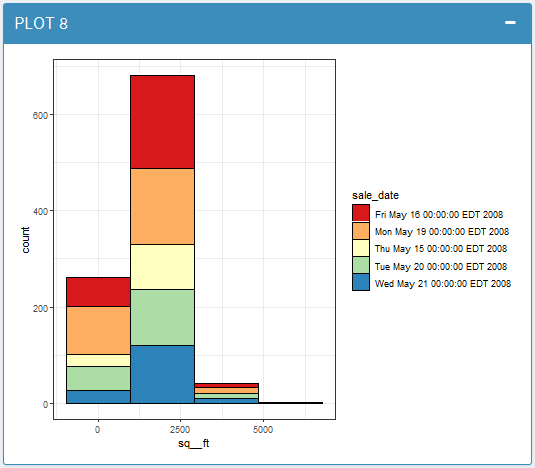
**CODE:**

theme\_set(theme\_bw())

ggplot(d, aes(x= city, y= price)) + geom\_point(aes(col = city, size= sq\_\_ft ))

**Explaination:**

Scatter plot for price vs city



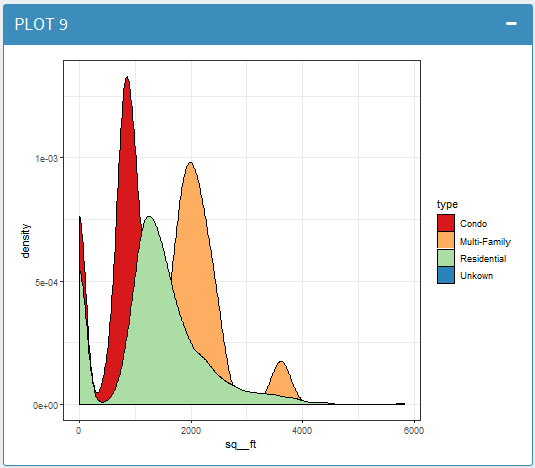
**CODE:**

theme\_set(theme\_bw())

ggplot(d, aes(sq\_\_ft))+ scale\_fill\_brewer(palette= "Spectral") + geom\_histogram(aes(fill= sale\_date), bins = 4, col= "black", size= 0.1)

**Explaination:**

Barplot for no of flats for a given range of square ft.

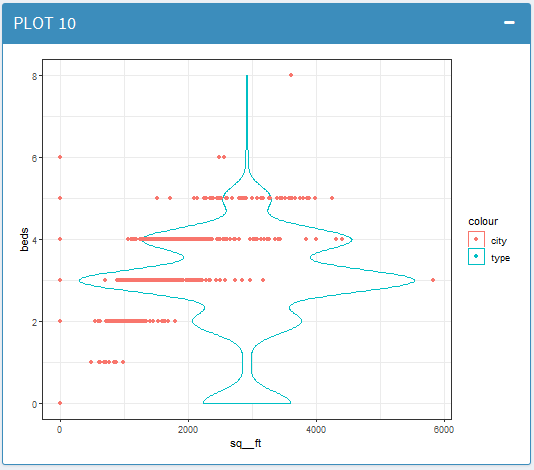


**CODE:**

ggplot(d, aes(sq\_\_ft))+ scale\_fill\_brewer(palette= "Spectral") + geom\_density(aes(fill= type), bins = 4, col= "black", size= 0.1)

**Explaination:**

Density plot for area

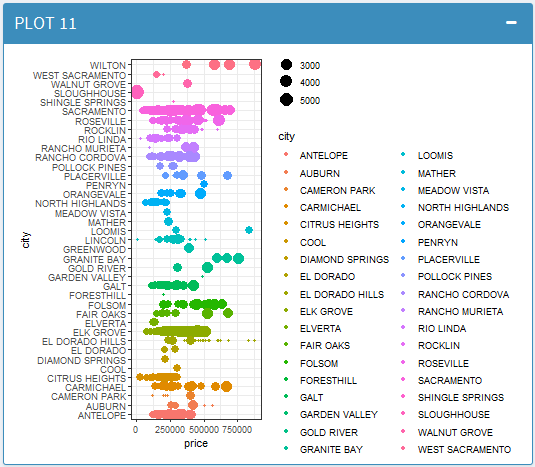


**CODE:**

ggplot(d, aes(sq\_\_ft))+ geom\_violin(aes(y= beds, col= "type"))+ geom\_point(aes(y= beds, col= "city"))

**Explaination:**

Violin plot for beds vs area

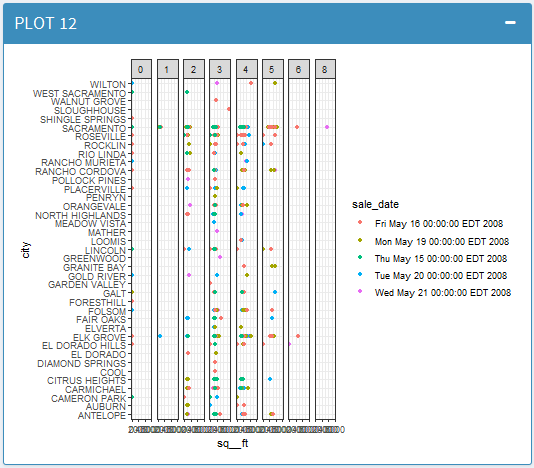


**CODE:**

ggplot(d, aes(price, city, colour= city, size= sq\_\_ft))+geom\_point()

**Explaination:**

Scatter plot for price vs city

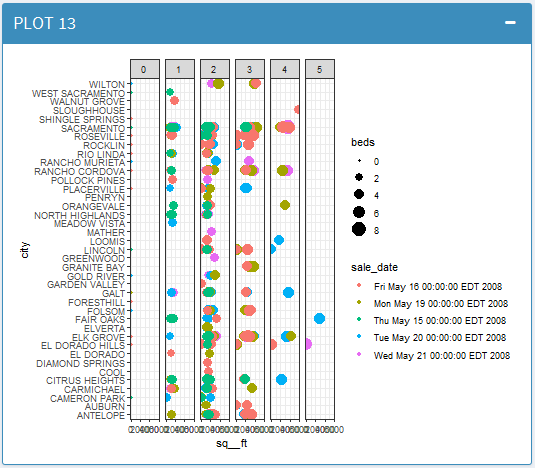


**CODE:**

ggplot(d, aes(sq\_\_ft, city, colour= sale\_date))+geom\_point()+facet\_grid(~beds)

**Explaination:**

Subplot of area vs city for the sale\_date

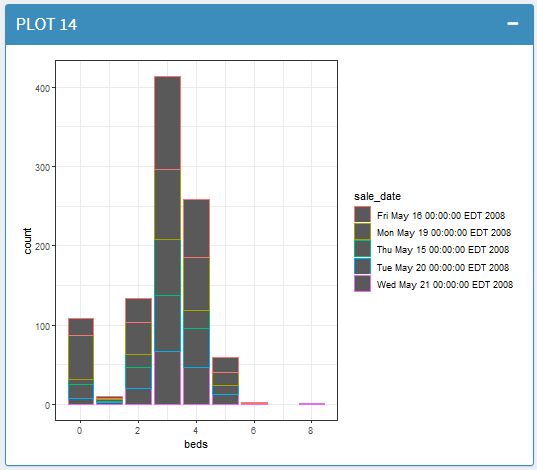


**CODE:**

ggplot(d, aes(sq\_\_ft, city, colour= sale\_date, size= beds))+geom\_point()+facet\_grid(~baths)

**Explaination:**

Subplot of area vs city for the sale\_date and no of beds

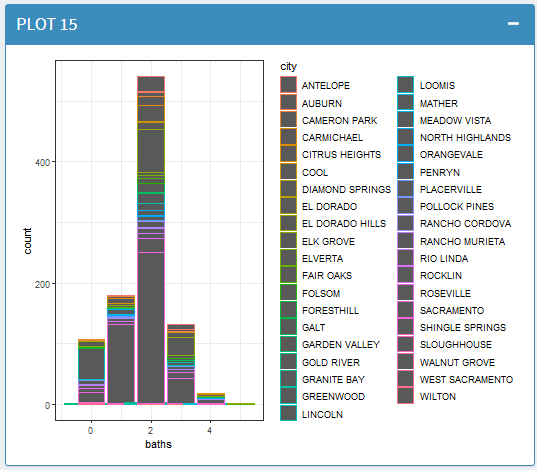


**CODE:**

ggplot(d, aes(beds, colour= sale\_date))+ geom\_bar()

**Explaination:**

Barplot of total beds count on the basis of sales\_date



**CODE:**

ggplot(d, aes(baths, colour= city))+ geom\_bar()

**Explaination:**

Barplot of total baths count on the basis of city