

Assignment_4.2_Vayuvegula_Soma_Shekar_R

Soma Shekar Vayuvegula

02/04/2023

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

## The following objects are masked from 'package:stats':
##
##   filter, lag

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

## -- Attaching packages ----- tidyverse 1.3.2 --
## v tibble  3.1.7      v purrr  0.3.4
## v tidyr   1.2.0      v stringr 1.4.0
## v readr   2.1.2      v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
##
## Attaching package: 'reshape2'
##
##
## The following object is masked from 'package:tidyr':
##
##   smiths
##
##
## Attaching package: 'data.table'
##
##
## The following objects are masked from 'package:reshape2':
##
##   dcast, melt
##
##
## The following object is masked from 'package:purrr':
##
##   transpose
##
## The following objects are masked from 'package:dplyr':
##
##   between, first, last
```

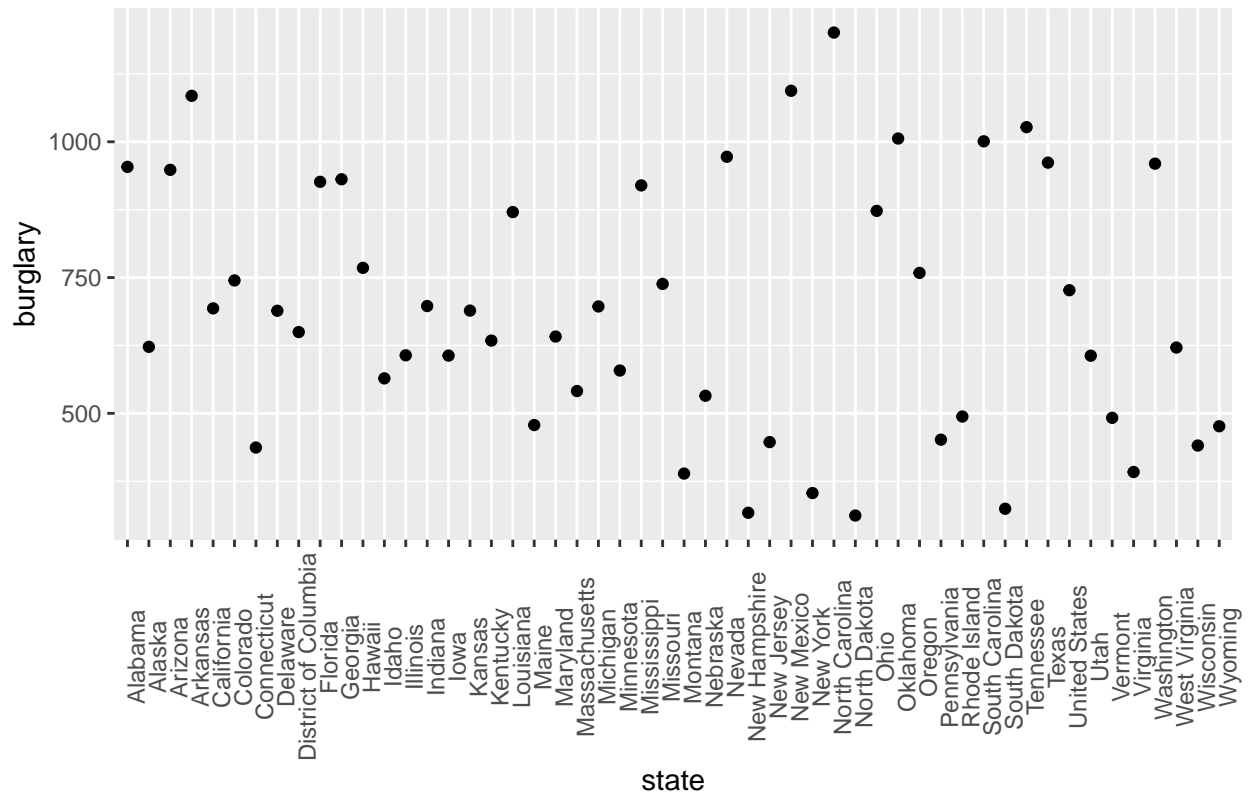
```
##
##
##
## Attaching package: 'plotly'
##
##
## The following object is masked from 'package:ggplot2':
##
##   last_plot
##
##
## The following object is masked from 'package:stats':
##
##   filter
##
##
## The following object is masked from 'package:graphics':
##
##   layout
```

```
df_crime<-read.csv("crimerates-by-state-2005.csv")
head(df_crime,5)
```

```
##           state murder forcible_rape robbery aggravated_assault burglary
## 1 United States   5.6           31.7  140.7           291.1    726.7
## 2      Alabama   8.2           34.3  141.4           247.8    953.8
## 3       Alaska   4.8           81.1   80.9           465.1    622.5
## 4      Arizona   7.5           33.8  144.4           327.4    948.4
## 5      Arkansas   6.7           42.9   91.1           386.8   1084.6
##  larceny_theft motor_vehicle_theft population
## 1      2286.3           416.7  295753151
## 2      2650.0           288.3   4545049
## 3      2599.1           391.0    669488
## 4      2965.2           924.4   5974834
## 5      2711.2           262.1   2776221
```

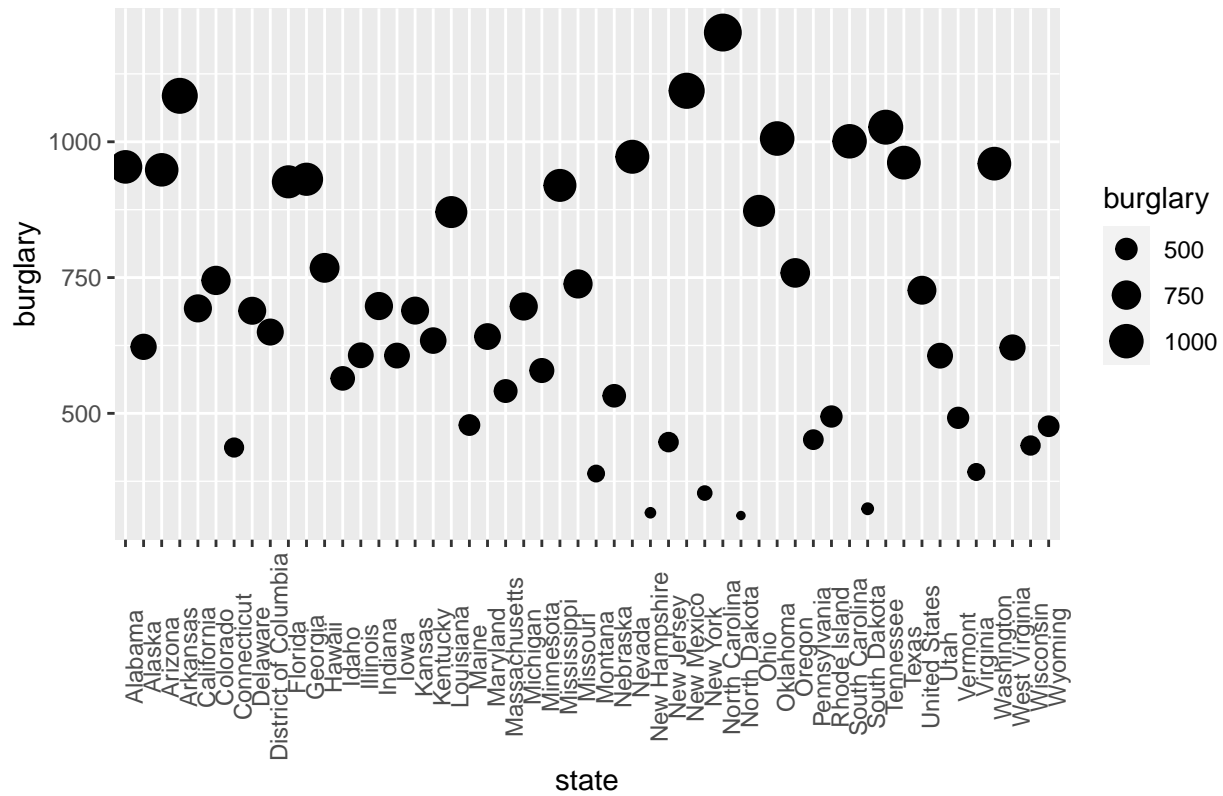
```
ggplot(df_crime,aes(x=state,y=burglary))+geom_point()+
  ggtitle("Burglary per State - Scatter Plot")+
  theme(axis.text.x = element_text(angle=90))
```

Burglary per State – Scatter Plot



```
ggplot(df_crime,aes(x=state,y=burglary,size=burglary))+geom_point()+
  ggtitle("Burglary per State - Bubble Plot")+
  theme(axis.text.x = element_text(angle=90))
```

Burglary per State – Bubble Plot



```
ggplot(df_crime,aes(x=burglary))+
  geom_histogram(aes(y=..density..),bins=30,color="blue",fill="white")+
  geom_density()+ggtitle("Burglary - Density Plot")
```

