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title: "Week7"
output: html_document
date: "2024-01-22"
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```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE)

setwd("C:/Users/brean/OneDrive/Desktop/640/week7/breannaparkerdsc640week7")
knitr::opts_chunk$set(echo = TRUE)
```


```{r}
library(readr)

data <- read.csv("crimerates-by-state-2005.csv")
data

```


```{r }
#scatterplot
plot(x=data$robbery, y=data$murder,
 xlab="Robbery By State", ylab="Murder By State",
 main="Correlation of Murder and Robberies")

```


```{r }
#bubble graph
library(ggplot2)
library(dplyr)
library(plotly)

ggplot(data, aes(x=murder, y=burglary, size = population, color=state)) +
 geom_point(alpha=0.7) +
 scale_size(range = c(.1, 24), name="Population (M)")

```


```{r }
#density graph
d <- density(data$murder)
plot(d, main="Density of Murders")
polygon(d, col="red")

```

```