Lab 1 - Data visualization

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Load Packages

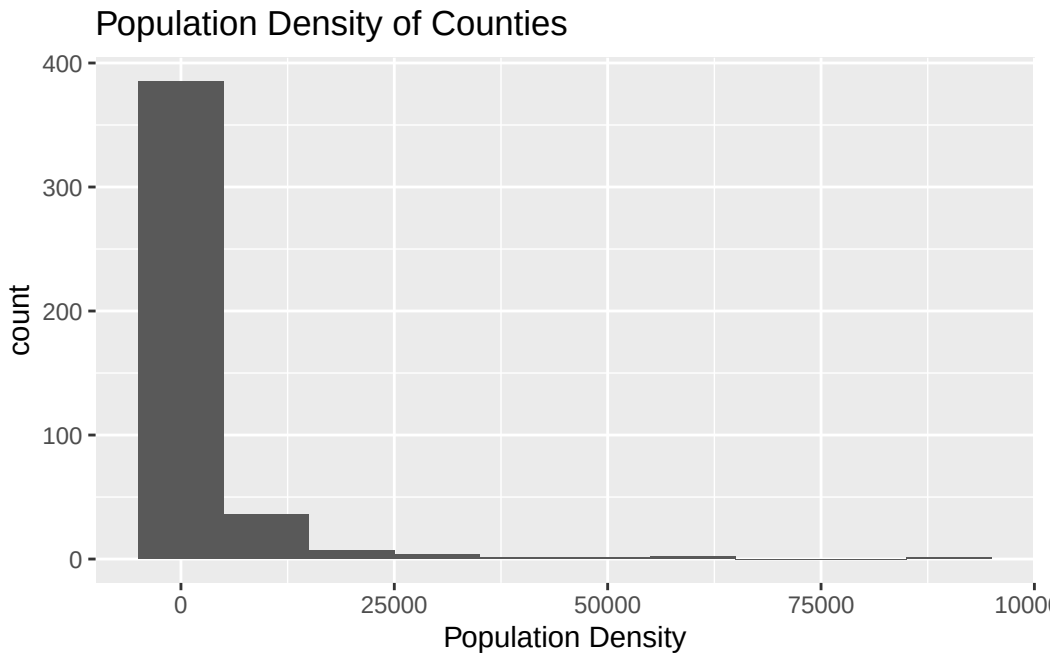
```
library(tidyverse)
```

```
Warning in system("timedatectl", intern = TRUE): running command 'timedatectl'
had status 1
```

```
library(viridis)
```

Exercise 1

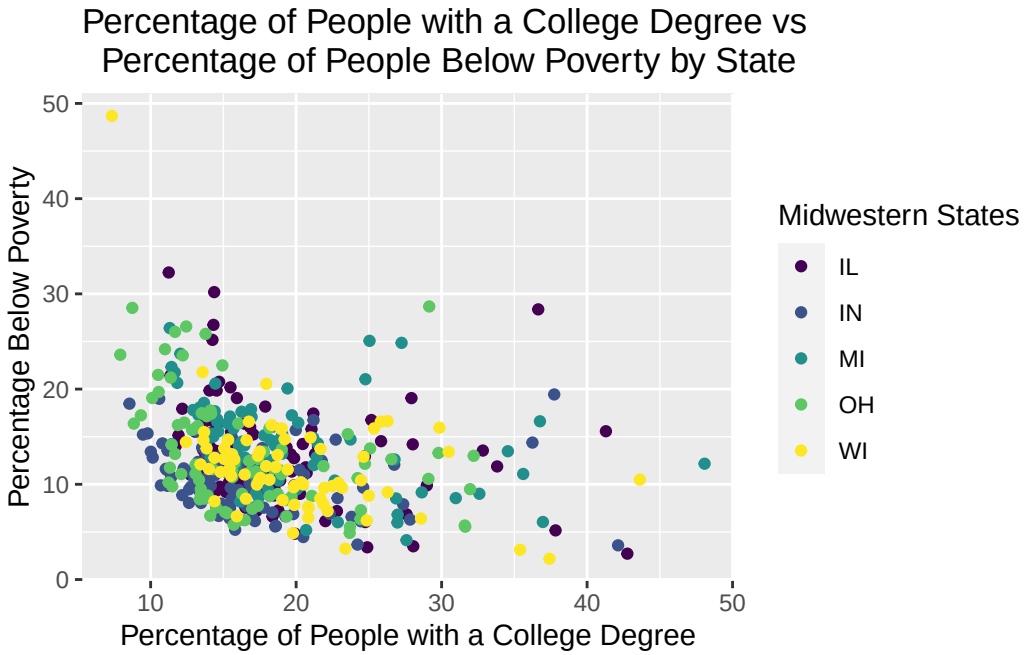
```
ggplot(midwest)+
  geom_histogram( aes(popdensity), binwidth = 10000)+
labs(
  x = "Population Density",
  y = "count",
  title = "Population Density of Counties"
)
```



This histogram is right skewed. It looks like there is an outlier in between x=7500 and x = 100000

Exercise 2

```
ggplot(data = midwest,
       mapping = aes(x = percollege, y = percbelowpoverty, color = state)) +
  geom_point()+
  labs(
  x = "Percentage of People with a College Degree",
  y = "Percentage Below Poverty",
  title = "Percentage of People with a College Degree vs
  Percentage of People Below Poverty by State",
  color = "Midwestern States"
)+
  scale_color_viridis_d()
```



Exercise 3

This is a general trend among the states included in the dataset that those below the poverty line are less likely to obtain a college degree.

Exercise 4

Exercise 5

Exercise 6

Exercise 7