

Lab 1 - Data visualization

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Load Packages

```
library(tidyverse)
```

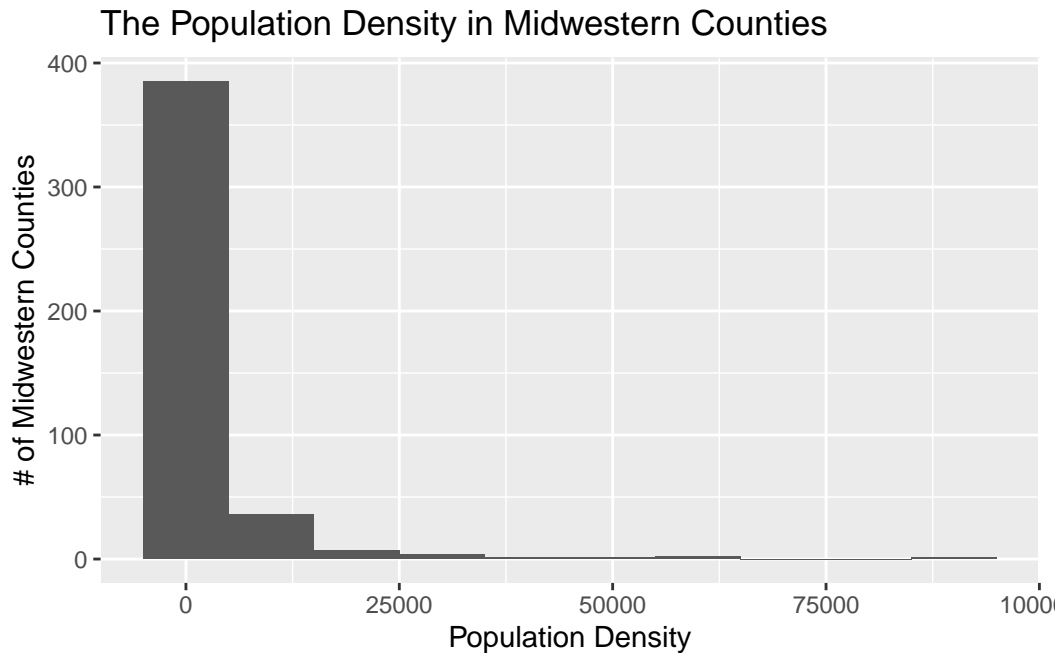
```
Warning in system("timedatectl", intern = TRUE): running command 'timedatectl'
had status 1
```

Exercise 1

(Type your answer to Exercise 1 here. Add code chunks as needed. Don't forget to label your code chunk. Do not use spaces in code chunk labels.)

Problem 1:

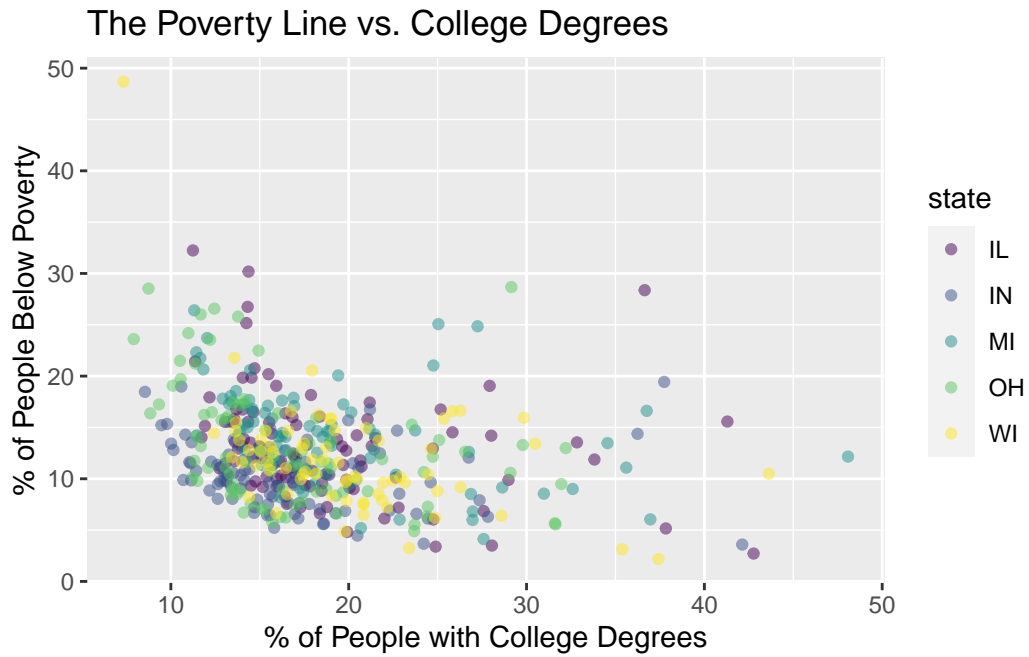
```
ggplot(data = midwest,
       aes(x = popdensity)) +
geom_histogram(binwidth = 10000) +
labs(x = "Population Density",
     y = "# of Midwestern Counties",
     title = "The Population Density in Midwestern Counties")
```



The graph is very right-skewed with most states having a population density significantly lower than 25,000 in the low thousands. There are some outliers with medium and large population density.

Exercise 2

```
ggplot(data = midwest,
       aes(x = percollege, y = percbelowpoverty, color = state)) +
geom_point(alpha = .5) +
scale_color_viridis_d() +
labs(x = "% of People with College Degrees",
     y = "% of People Below Poverty",
     title = "The Poverty Line vs. College Degrees")
```



Exercise 3

(Type your answer to Exercise 3 here. Add code chunks as needed. Don't forget to label your code chunk. Do not use spaces in code chunk labels.)

Exercise 4

Exercise 5

Exercise 6

Exercise 7