Lab 1 - Data visualization

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Load Packages

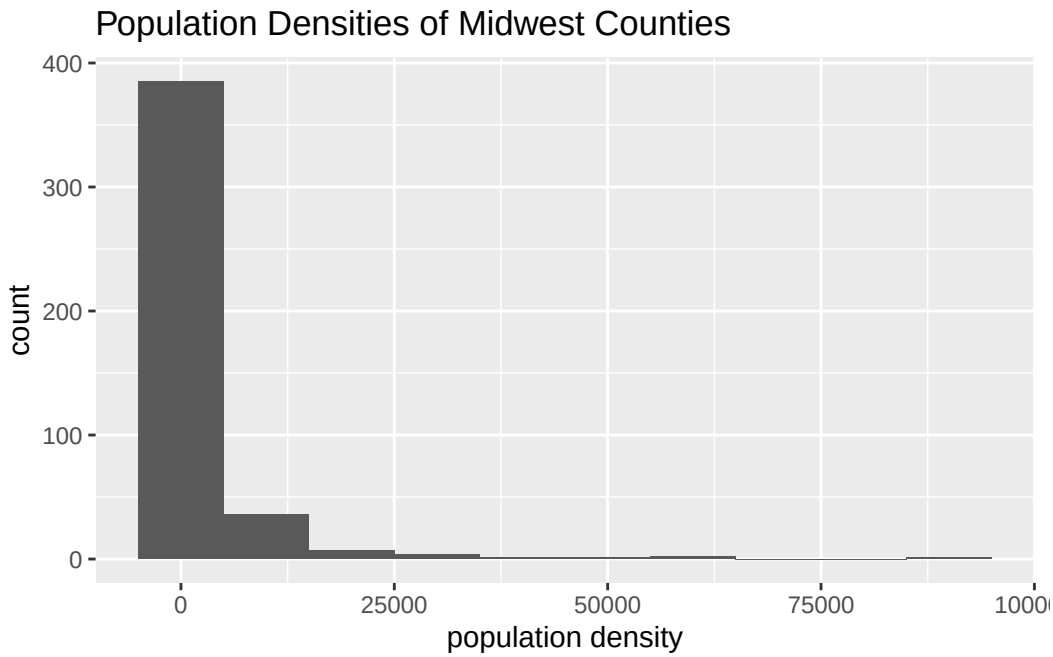
```
library(tidyverse)
```

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

```
library(viridis)
```

Exercise 1

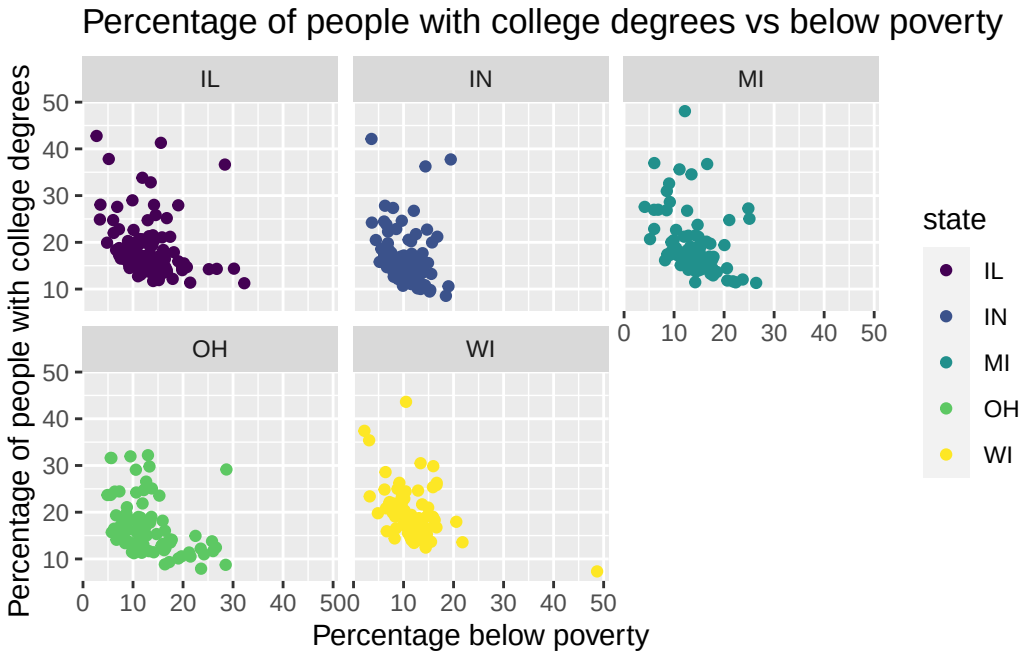
```
ggplot(midwest) +
  aes(x = popdensity) +
  geom_histogram(binwidth = 10000) +
  labs(title = "Population Densities of Midwest Counties", x = "population density", y = "
```



The shape of the distribution is right-scewed. There are some outliers that have a higher population density than the other counties. Most of the counties have a population density between 0 and 25,000 but there a couple of counties in the 60,000 and 80,000 range.

Exercise 2

```
ggplot(midwest, aes(x = percbelowpoverty, y = percollege, color = state)) +
  scale_color_viridis_d() +
  geom_point() +
  facet_wrap(~state) +
  labs(title = "Percentage of people with college degrees vs below poverty",
       x = "Percentage below poverty",
       y = "Percentage of people with college degrees")
```



Exercise 3

Exercise 4

Exercise 5

Exercise 6

Exercise 7