Lab 1 - Data visualization

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Load Packages

```r
library(tidyverse)
```

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

```r
library(viridis)
```

Exercise 1

(The shape of the distribution is right-skewed. There seem to be outliers at population density of around 9000.)

```r
ggplot(midwest, mapping=aes(x=popdensity))+
  geom_histogram(binwidth=10000)+
  labs(
    x="population density",
    y= "frequency",
    title="Population Density of Counties"
  )
```
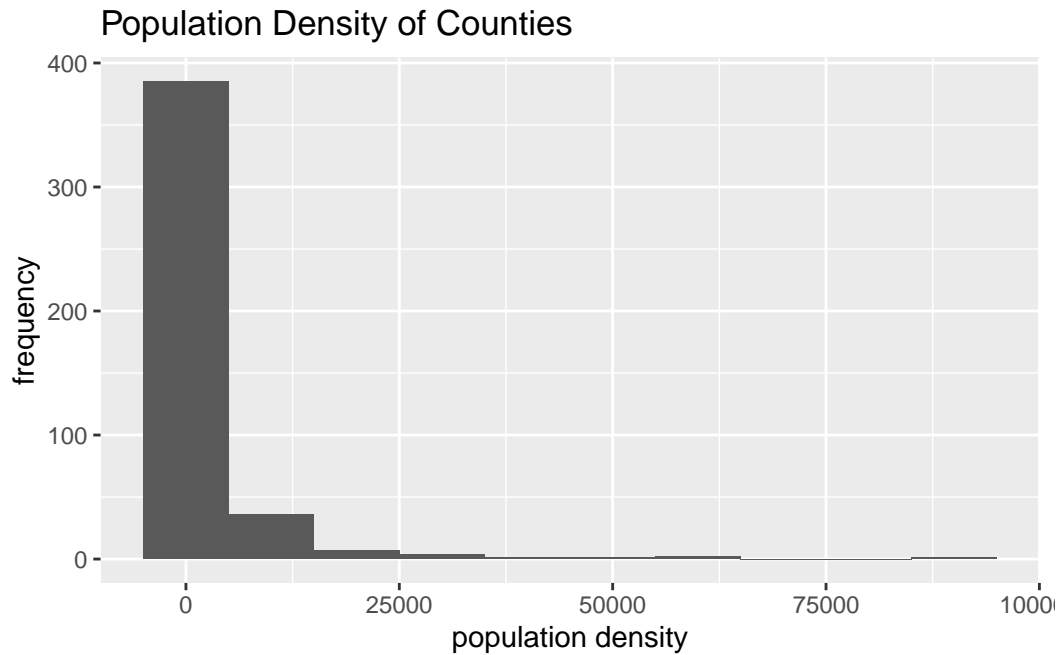
Exercise 2

```
ggplot(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 v Percentage below poverty"
  )+
  scale_color_viridis_d(option="D", end=0.8)+
  theme_minimal()
```

Percentage of people with a college degree v Percentage below
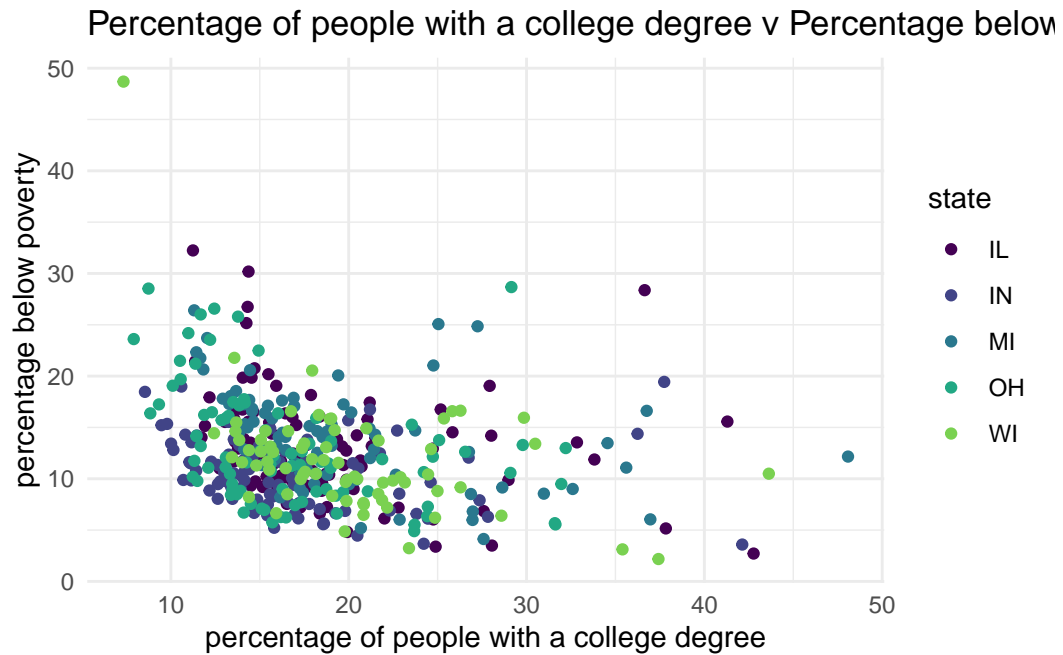
Exercise 3

(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