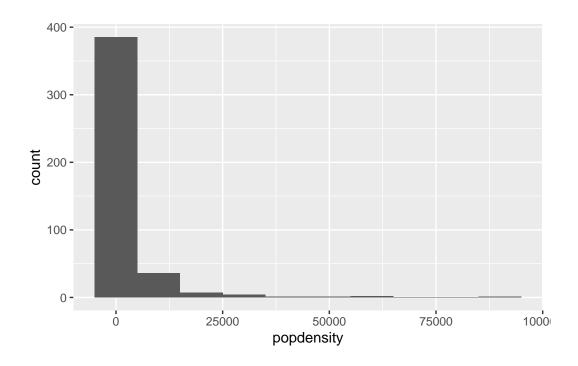
Lab 1 - Data visualization

Miranda Zhong

Load Packages

```
glimpse(midwest)
```

```
Rows: 437
Columns: 28
$ PID
                       <int> 561, 562, 563, 564, 565, 566, 567, 568, 569, 570,~
                       <chr> "ADAMS", "ALEXANDER", "BOND", "BOONE", "BROWN", "~
$ county
                       <chr> "IL", "IL", "IL", "IL", "IL", "IL", "IL", "IL", "IL", "~
$ state
                       <dbl> 0.052, 0.014, 0.022, 0.017, 0.018, 0.050, 0.017, ~
$ area
$ poptotal
                       <int> 66090, 10626, 14991, 30806, 5836, 35688, 5322, 16~
$ popdensity
                       <dbl> 1270.9615, 759.0000, 681.4091, 1812.1176, 324.222~
                       <int> 63917, 7054, 14477, 29344, 5264, 35157, 5298, 165~
$ popwhite
$ popblack
                       <int> 1702, 3496, 429, 127, 547, 50, 1, 111, 16, 16559,~
                       <int> 98, 19, 35, 46, 14, 65, 8, 30, 8, 331, 51, 26, 17~
$ popamerindian
                       <int> 249, 48, 16, 150, 5, 195, 15, 61, 23, 8033, 89, 3~
$ popasian
                       <int> 124, 9, 34, 1139, 6, 221, 0, 84, 6, 1596, 20, 7, ~
$ popother
                       <dbl> 96.71206, 66.38434, 96.57128, 95.25417, 90.19877,~
$ percwhite
                       <dbl> 2.57527614, 32.90043290, 2.86171703, 0.41225735, ~
$ percblack
                       <dbl> 0.14828264, 0.17880670, 0.23347342, 0.14932156, 0~
$ percamerindan
$ percasian
                       <dbl> 0.37675897, 0.45172219, 0.10673071, 0.48691813, 0~
                       <dbl> 0.18762294, 0.08469791, 0.22680275, 3.69733169, 0~
$ percother
                       <int> 43298, 6724, 9669, 19272, 3979, 23444, 3583, 1132~
$ popadults
                       <dbl> 75.10740, 59.72635, 69.33499, 75.47219, 68.86152,~
$ perchsd
$ percollege
                       <dbl> 19.63139, 11.24331, 17.03382, 17.27895, 14.47600,~
                       <dbl> 4.355859, 2.870315, 4.488572, 4.197800, 3.367680,~
$ percprof
$ poppovertyknown
                       <int> 63628, 10529, 14235, 30337, 4815, 35107, 5241, 16~
                       <dbl> 96.27478, 99.08714, 94.95697, 98.47757, 82.50514,~
$ percpovertyknown
$ percbelowpoverty
                       <dbl> 13.151443, 32.244278, 12.068844, 7.209019, 13.520~
$ percchildbelowpovert <dbl> 18.011717, 45.826514, 14.036061, 11.179536, 13.02~
                       <dbl> 11.009776, 27.385647, 10.852090, 5.536013, 11.143~
$ percadultpoverty
                       <dbl> 12.443812, 25.228976, 12.697410, 6.217047, 19.200~
$ percelderlypoverty
                       <int> 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 1, 0~
$ inmetro
$ category
                       <chr> "AAR", "LHR", "AAR", "ALU", "AAR", "AAR", "LAR", ~
```



Exercise 2

(Type your answer to Exercise 2 here. Add code chunks as needed. Don't forget to label your code chunk. Do not use spaces in code chunk labels.)

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