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# Setup:

```
install.packages("shiny")
library(shiny)
install.packages("maps")
library(maps)
install.packages("mapproj")
library(mapproj)
source("helpers.R")
counties <- readRDS("census-app/data/counties.rds")
```

# Lab:

1. The most efficient location to put the server setup code is above the shinyServer()
function.

2. Code in server.r in the renderPlot function:

```
> data <- switch(input$var, "Percent White" =
  counties$white, "Percent Black" = counties$black,
  "Percent Hispanic" = counties$hispanic, "Percent
  Asian" = counties$asian)
> color <- switch(input$var, "Percent White" =
  "seagreen4", "Percent Black" = "snow4", "Percent
  Hispanic" = "darkorchid4", "Percent Asian" =
  "lightcoral")
> legend <- switch(input$var, "Percent White" = "%
  White", "Percent Black" = "% Black", "Percent
  Hispanic" = "% Hispanic", "Percent Asian" = "% Asian")
> percent_map(data, color, legend, input$range[1],
  input$range[2])
```