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## **Setup**

Download the `ui.R` and `server.R` files from iLearn (“Lab #8 – shiny.zip”) and put in your `census-app` directory.

**NOTE:** Make sure you get the above versions and NOT the versions shown/used during the lecture.

Then add the following to `server.R`:

```
source("helpers.R")
counties <- readRDS("data/counties.rds")
library(maps)
library(mapproj)
```

*1. Where is the most efficient location to put the above code?*

The most efficient location would be to stick the code on the very top portion of `server.R` as:

```
library(maps)
library(mapproj)
source("helpers.R")
counties <- readRDS("data/counties.rds")
```

## **Building a Working App**

Complete the code to build a working app.

This app has one reactive object, a plot named “map”.

The plot is built with the `percent_mapfunction`, which takes five arguments.

The first three arguments, `var`, `color`, and `legend.title`, depend on the value of the select box widget.

The last two arguments, `max` and `min`, should be the max and min values of the slider bar widget.

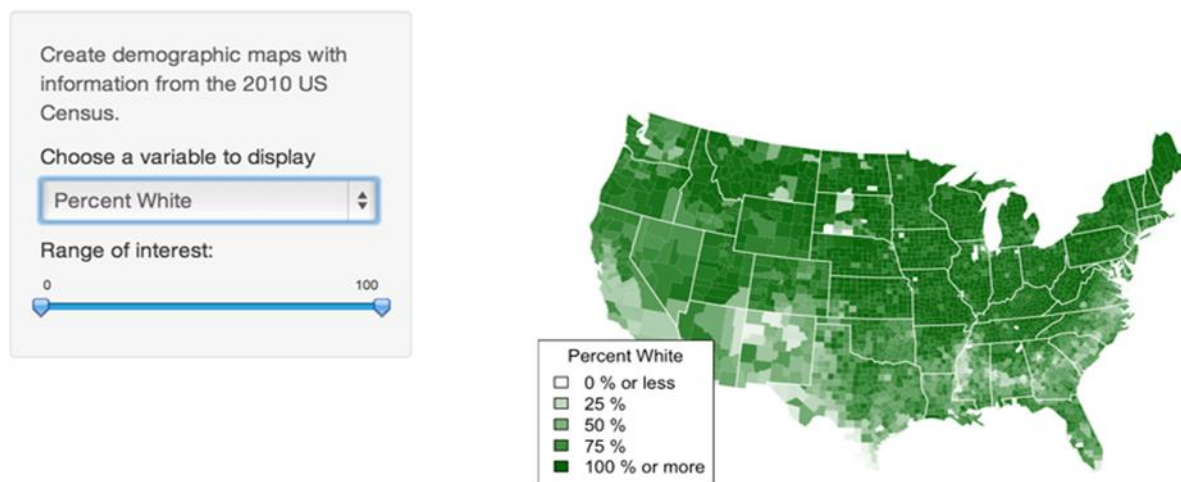
The `server.R` script shows one way to craft reactive arguments for `percent_map`.

R's `switchfunction` can transform the output of a select box widget to whatever you like. However, the script is incomplete. It does not provide values for `color`, `legend.title`, `max`, or `min`.

2. You will notice that the script will NOT run as is. *You will need to complete the code to build a working `censusVis` app.*

If everything works, your app should look similar to the one shown below:

## censusVis



You'll need to decide how to create the argument values for `percent_map`, and where to put the code that creates these arguments.

Remember, you'll want the argument values to switch whenever a user changes the associated widget.

**(Submit your code into the corresponding iLearn dropbox)**