









exercise Shiny

# FOR/STT 875, Shiny Exercise

## Learning objectives

- practice updating ggplot2 plot aesthetics
- · modify a Shiny app
- add an interactive Shiny element

#### Overview and deliverables

Update the app.R files for the Michigan Campsite data.

#### Submission instructions

Upload your updated app.R script to the Shiny Exercise D2L dropbox.

## Grading

You will receive full credit if your Shiny app: 1) compiles without error; 2) closely recreates the updated Shiny app specifications which result in the improved app posted here (http://blue.for.msu.edu:443/exercise\_12\_shiny/); and 3) has neatly formatted code.

## **Getting started**

Review the code for the Michigan Campsites Shiny app from Section 9.4 of the Shiny Chapter 9. For this assignment, you will simply be updating the app.R file to complete the TODO tasks.

Notice that in the original app, we used three of the data frame rows: TOTAL SITE, Camp type, and ADA SITES. In this exercise, you will be creating a widget that takes in the DISTRICT information.

Note, you'll likely need to install the shiny, maps, and htmltools packages.

After completing the tasks below, your Shiny app should look like the one hosted here (http://blue.for.msu.edu:443/exercise 12 shiny/).

Complete the four following tasks to update the Michigan Campsites sniny app:

- 1. Update the map output so the campground marker sizes depend upon the total number of campsites at each location.
- 2. Update the map output so the campground marker colors depend upon the county in which the campground is located.
- 3. Update the HTML bulleted list output so the number of sites is displayed after the campground name.
- 4. Add an additional search parameter of district checkboxes (HINT: use checkboxGroupInput ). Initially, all districts should be selected.

Congratulations! You've reached the end of the Shiny Exercise.

#### **Questions?**

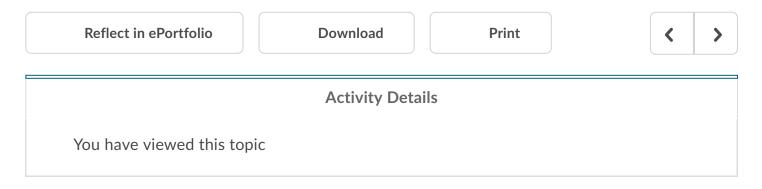
If you have any lingering questions about the material in this document or in the corresponding chapter, add them as comments to the end your R script.

Response...

### Give us your feedback!

1. How do you feel you're doing in this class?

Response...



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