

ESM 244 Final Project - Shiny App

Winter 2019

Summary

For your final project in ESM 244, you will create a Shiny app in R using data of your choosing. You should create your app using a dataset that is of interest or value to you. During Week 10 of the quarter, you will present your app to a group (details of final presentations to follow).

You can work in groups of 1 - 3 people. Everyone in the group will receive the same score. Apps will be graded using the same rubric regardless of group size. You must create a private repo in github containing all of your app materials, and add me as a collaborator.

Requirements

Your app is required to *at least* include the following:

- **A nicely formatted, professional looking user interface (not the Shiny defaults)**
- **At least 3** functional, useful widgets
- **At least** three tabs (one can...or maybe should...contain a summary of the data, what the app does, and any other background information that will be useful to the user)
- **At least** three reactive outputs (figures/tables/graphs/maps/etc.) that change based on one or more widget inputs

Some notes:

- A graph and table containing the same information don't count as two separate outputs
- You will need to be able to explain how the code works
- A user should be able to independently figure out:
 - a. The purpose of the app (explanatory text is important)
 - b. What data it uses (e.g. what data sources and inputs are - cite as needed)
 - c. How to use the app independently with instructions/guidance included in the app
 - d. How to interpret outputs (help them if unclear or challenging with text explanations, etc.)

Grading rubric (100 points possible)

- 25 points: Professional, clear and aesthetically appealing user interface
- 20 points: Three beautifully presented reactive outputs
- 18 points: General app clarity and usability
- 15 points: Three functional widgets
- 12 points: At least three tabs
- 10 points: "Consistency of effort" based on github commits (I would expect at least 3/week with progress from Weeks 4 - 9, excluding superficial changes like adding a word - most of you will have many more commits)