

## Final project instructions and grading rubric

Final project [10 points]: You will produce static and dynamic maps within a Shiny app to communicate spatial information about your project data.

### In completing this assignment

- You may create a tab panel app, dashboard app, or combination of the two.
- I **strongly** suggest including each element of your project (e.g., static map or static ggplot) as a separate `tabItem` (dashboard app) or `tabPanel` (tab panel app).
- Shiny apps can be a challenging. If you're having difficulty creating one from scratch, you may use the two apps that I shared as a template.
- I recommend creating a new R Studio project (and associated folder structure) that only includes your Shiny app.
- **Submission:** Compress all the files of your Shiny app into a zip folder. That folder should minimally contain:
  - Your app file (e.g., `trout_app.R`)
  - A data folder with all of the data required to run your app

### Grading rubric

Element	Points	Description
Data processing	1.0	Code parsimony
	1.0	Includes only packages that we have used in this course
	0.5	Code completeness
Static tmap	0.5	Works out-of-the-box (i.e., does not require me to modify the code)
	0.5	Distinct from other provided content
	0.25	Relevant to your QHPT
	0.25	Visual appeal
Static ggplot	0.5	Works out-of-the-box
	0.5	Distinct from other provided content
	0.25	Relevant to your QHPT
	0.25	Visual appeal
	+0.25	<b>Extra credit:</b> Plots your empirical data in relation to your predictions
Interactive tmap	0.5	Works out-of-the-box
	0.5	Distinct from other provided content
	0.25	Relevant to your QHPT
	0.25	Visual appeal
Shiny app	0.5	Includes a landing tab with a brief description of the app's purpose
	0.5	Includes a minimum of 1 meaningful summary table (kable or DT)
	0.5	Includes a minimum of 1 dropdown menu [0.25] that influences the behavior of the app in a meaningful way [0.25]
	0.5	Includes a minimum of one checkbox or radio input [0.25] that influences the behavior of the app in a meaningful way [0.25]
	0.5	Is submitted as a complete zip file
	0.5	Runs out of the box