

Interactive web apps with Shiny

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The Shiny package for R provides a way to transform your R code into interactive applications accessible through a web browser. This lesson provides a hands-on example of how you can use Shiny to create intuitive graphical user interfaces.

Learning objectives

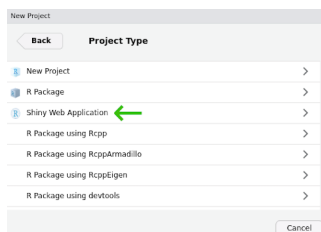
1. Explain the different responsibilities of the user interface and the server function
2. Manipulate user interface options in side panels
3. Apply defensive programming techniques to reduce errors
4. Diagnose problems with Shiny built-in debugging features
5. Share the application through shinyapps.io

[DESCRIPTION OR MOTIVATION; 2-4 sentences that would be used for an announcement]

While the R programming language is immensely popular, not everyone has the time or resources to learn how to use it (a shame, I know). How then, can you share your awesome data visualization tools that you wrote in R? The [Shiny](#) package provides the architecture to build beautiful web applications without writing a single HTML tag. This workshop will introduce some of the functionality of the package as well as platforms you can use to share your work.

Getting started

install packages (shiny and maybe palmerpenguins) start shiny project File > New Project > New Directory > Shiny Web Application



[TOPIC ONE]

[TOPIC TWO]

Do panel manipulation with Species first as a text field, then change this to a drop-down menu (defensive programming)

Additional resources

- [resource one](#)
 - [resource two](#)
 - A [PDF version](#) of this lesson
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Questions? e-mail me at jcoliver@email.arizona.edu.