Who Says You R Not a Coder?

Building Data-Driven, Open Source, Static Course Content for Accessibility and Interactivity with R

Ryan Straight

11/16/22

In this session, we will introduce you to a variety of tools, processes, and methods to take home with you and explore. Using an existing Statistics class as an example, you'll see how you can use simple, plain text and minimum code to build portable, accessible, and truly interactive content that is data-driven and open. While the example we use is an upper-division applied statistics class, the methods used can be (and are!) applied to any discipline and any level. We will barely scratch the surface in the time allotted, so attendees will go home with an overflowing toolbox to explore. As an added bonus, if you're into OER, you'll find an open source method for creating and distributing multimedia texts using the same exact tools. Attendees to this session will be provided with a cloud-based template for building these accessible and compact experiences. They will take this access home with them to explore and build upon at their leisure. Knowledge of Git and GitHub is encouraged but not required.

You can view this readme file three different ways:

- As a formatted HTML page
- As a standard GitHub README file
- And as a PDF

Slide Deck

- https://ryanstraight.github.io/ac22-deck/

Examples

Here are some examples used in the session:

- A public domain book as responsive a webpage, an ePub, and a PDF.

- A document as a webpage and as a PDF, again from a single source.
- The slide deck used for this talk both published as a responsive webpage and as the raw code for you to explore!

How to Get Started

1. Download and install RStudio
2. Download and install Quarto
3. Start building!

Resources

Here is a list of some of my favorite Quarto resources that should help you hit the ground running.

- Quarto Official Documentation
- Get Started with Quarto
- A Quarto tip a day
- Slide extension: RoughNotation
- https://github.com/ryanstraight/resources#quarto