2020 Northeast Aquatic Biologists Conference WORKSHOP

The Newport Harbor Hotel & Marina – Newport, Rhode Island March 3-4, 2020

LAPTOP REQUIRED

Please follow the link to the instructions for preparing your laptop for the workshop. You will only need to focus on the "Preparation for Workshop" section (indicated in the table of contents located on the left). If your agency blocks GitHub, then you can download and open the accompanying HTML document.

Link to GitHub Site: https://zsmith27.github.io/rmarkdown_crash-course/preparation-forworkshop.html

SIMPLIFYING REPORT GENERATION: AN R MARKDOWN CRASH COURSE

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Overview

A large portion of report writing is often consumed by tedious edits and a disjunct workflow. The R-package, R markdown, provides a centralized workflow and reproducible framework, allowing you to focus your time and energy on the content of the report. This workshop offers you hands-on experience developing reports with R markdown and is intended for individuals with at least a basic understanding of the statistical programming language, R. You will learn basic markdown syntax, formatting tips, how to compile your report as several document types (e.g., HTML, MS Word, and PDF), how to automate the production of tables and figures, and how to configure a report template that can be used automate the production of many reports. There is time dedicated at the end of the workshop for you to bring your own dataset and begin developing an R markdown document using lessons learned throughout the workshop. Overall, this workshop will provide you with the working knowledge of R markdown enabling you to communicate your data efficiently and effectively.

AGENDA

TUESDAY, MARCH 3, 2020

10:00-4:00

10:00 – 10:15 R Markdown: Introduction

10:15 - 10:30 R and R Studio

10:30 – 10:45 Project Development

10:45 - 11:30 Lesson 1: Basic Syntax

11:30 – 12:00 Lesson 2: YAML Headers

12:00 - 1:00 LUNCH

1:00 – 1:30 Lesson 3: Document Types

1:30 – 2:30 Lesson 4: Code Chunks

2:30 - 2:40 BREAK

2:40 – 3:40 Lesson 5: Child Documents

3:40 - 4:00 Closing Remarks

WEDNESDAY, MARCH 4, 2020

9:00-12:00

LIGHT BREAKFAST

9:00 - 9:15 Recap

9:15 – 10:20 Lesson 6: Parameterized Reports

10:20 - 10:30 BREAK

10:30 – 11:50 Open Practice Session (bring your own data)

11:50 - 12:00 Closing Remarks

(LUNCH ON YOUR OWN - CONFERENCE BEGINS @ 1:00)

12:00 - 1:00