Dynamic Reporting with R Markdown

FWS Data Management Workshop

# Description

The intent of this course is to provide an introduction of R Markdown for intermediate/advanced R users that are seeking to develop an automated report and just need that extra push to get started. We will present on the basics of R Markdown and the many advantages of the package. After an introduction, we will walk the class through a couple demonstrations where participants will use an example dataset to build an R Markdown report by rendering to a Word, PDF, and HTML document. It is our hope that you will walk away with the foundation to create your own R Markdown report. To better assist class participants, Jason, Jonah, and Jake are reachable via email or MS Teams post-training to address any issues or questions participants may have when creating their own reports.

# Learning goals

* Introduction to R Markdown and it’s applications.
* Example reports using different rendering outputs.
* Create your own report participant exercise.
* Discussion session to address questions or report ideas of participants.

# Instructors

Jason Ross, Jonah Withers, and Jacob Cochran

# Course Outline

* Introduction (10 minutes)
* Overview of R Markdown (45 minutes)
  + Applications
  + Anatomy of an .Rmd
  + Report rendering options
* Example R Markdown reports (45 minutes)
  + Real-world reports created using R Markdown
* Break (15 minutes)
* Report Demonstrations (Different rendering types – participant recreation)
  + MS Word
  + PDF
  + HTML
* Break (15 minutes)
* Western Snowy Plover Exercise! (1.5 hour)
  + Build an R Markdown document
* Q&A Session (30 minutes)
  + Discussion to assist with your own report ideas – bring an idea!
  + Office Hours post-training support opportunity