

Assignment 1: Introduction

Katelyn Tack

OVERVIEW

This exercise accompanies the introductory material in Environmental Data Analytics.

Directions

1. Rename this file `<FirstLast>_A01_Introduction.Rmd` (replacing `<FirstLast>` with your first and last name).
2. Change “Student Name” on line 3 (above) with your name.
3. Work through the steps, **creating code and output** that fulfill each instruction.
4. Be sure to **answer the questions** in this assignment document.
5. When you have completed the assignment, **Knit** the text and code into a single PDF file.
6. After Knitting, submit the completed exercise (PDF file) to the appropriate assignment section on Sakai.

1) Finish setting up R Studio

Install TinyTex

Now, run this code cell the same way. This will install “tinytex” – a helper app that allows you to knit your markdown documents into professional quality PDFs.

Set your default knit directory

This setting will help deal with relative paths later on... - From the Tool menu, select **Global Options** - Select the RMarkdown section - In the “Evaluate chunks in directory”, set the option to “Project” (If you don’t see this option, try restarting RStudio.)

2) Discussion Questions

Enter answers to the questions just below the `>Answer:` prompt.

1. What are your previous experiences with data analytics, R, and Git? Include both formal and informal training.

Answer: I have a good bit of experience in data analytics through past GIS coursework and internships/jobs. I used geospatial data analysis track and predict trends in the environment as well as car accident trends for the Maryland Highway Safety Office. I have a small amount of experience in R through undergraduate coursework to visualize environmental and weather data. I have a small amount of experience with Git to share small snippets of code for personal projects.

2. Are there any components of the course about which you feel confident?

Answer: Although I don't have a great deal of experience with R and some other aspects of this course, I feel like my previous background with coding and data analysis gives me a good starting point that will be easier to build off of for the content of this course. At the moment, I think Python for R Users, Crafting Reports & Dashboards, and Spatial Analysis are the sections that I feel more confident in.

3. Are there any components of the course about which you feel apprehensive?

Answer: I think GLMs will be a section that I struggle with because I have always struggled a bit with linear models.

3) GitHub

Provide a link below to your forked course repository in GitHub. Make sure you have pulled all recent changes from the course repository and that you have updated your course README file, committed those changes, and pushed them to your GitHub account.

Answer: https://github.com/kotack1/EDE_Fall2023

4) Knitting

When you have completed this document, click the `knit` button. This should produce a PDF copy of your markdown document. Submit this PDF to Sakai.