Assignment 1: Introduction

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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 assigment 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"

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 Git/Github account, but I have never used it because I do not understand Git/Github. I took Dr. Poulson's 710 course and really enjoyed the class. The 710 course was the first time I used R. I plan on using both R and Python during my dissertation research, though I still need to learn Python. I've also used R for small projects.

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

   Answer:

I broadly feel confident about the actual "analysis" portions of the course. I'm excited to refresh my R coding skills and learn more about the data wrangling and cleaning process. I think this will be extremely useful for my dissertation research as I will primarily be working with secondary data; therefore, I expect to do some data cleaning and wrangling.

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

   Answer:

I am both excited and apprehensive about spatial data analysis section. As an environmental engineer, this will be incredibly useful and applicable to environmental risk assessment. Environmental risk assessment often involves predicting and depicting transportation of contaminants in the environment, which frequently requires mapping visualizations.

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/Jai906/EDA-Spring2023.git

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.