Assignment 1: Introduction

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OVERVIEW

This exercise accompanies the introductory material in Environmental Data Analytics.

Directions

1. Change "Student Name" on line 3 (above) with your name.
2. Work through the steps, **creating code and output** that fulfill each instruction.
3. Be sure to **answer the questions** in this assignment document.
4. When you have completed the assignment, **Knit** the text and code into a single PDF file.
5. After Knitting, submit the completed exercise (PDF file) to the dropbox in Sakai. Add your last name into the file name (e.g., "Salk_A03_Introduction.Rmd") prior to submission.

The completed exercise is due on <>.

1) Discussion Questions

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

   Answer: Most of my experience with data analytics has been working with sptial data. As an undergraduate, I took my first GIS course shortly after I took statistics. For me, the two subjects have always been closely related. I do not have much experience working with non-spatial data. I have been introduced to R through my coursework, but I have not had the opportunity to practice it. I have experience with Git and Python through Advanced GIS. I have also been working on a large data wrangling and analysis process for the Duke Environmental Law and Policy Clinic for the past year. While the project has enabled me to learn a lot through trial-and-error, I am looking forward to getting some formal training through this course.

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

   Answer: I think I'll do okay with the data wrangling components. I'm interested in seeing how my self-taught methods compare to more formal methods. I am also fairly confident about the coding componets of the course. Even though I have very little experience with R, I'm really excited to learn it. I am not worried that I will have trouble picking it up.

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

   Answer: It's been a while since I took a proper statistics class. I suspect that it may take me a second to remember how certain tests and models work. I am also really nervous about the Tuesday assignment deadlines. All of my other classes are on Tuesdays. When I signed up for the Thursday lab section, I thought that I was giving myself a break in the week to devote to this course. That was clearly an incorrect assumption on my part and I am working to figure out how I can distribute my workload more evenly thoguhout the week.

2) 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.

Answer: https://github.com/emmawellbaum/Environmental_Data_Analytics_2021.git