Welcome to DSBA 5122

Students:

Welcome to DSBA 5122 Visual Analytics for Fall 2022. This class is in person on Mondays from 530-830, and all course content and assignments will be available on this Canvas site.   We will be using Datacamp for supporting tutorials along with Tableau. We will be learning the overall concepts of building quality data visualizations along with some tools and resources to apply these concepts.

Course Objectives

In this course you will:

- Evaluate and critique visualization designs
- Learn visualization techniques & theory
- Implement interactive data visualizations
- Develop a substantial visualization portfolio

Specifically, you should:

- Understand the principles of data and graphic design
- Evaluate the credibility, ethics, and aesthetics of data visualizations
- Create well-designed data visualizations with appropriate tools
- Share data and graphics in open forums
- Be curious and confident in consuming and producing data

Python Jupyter Notebook/R and R Studio/Visual Studio Code

You will do most of your work in this class with the open source (and free!) programming languages [R](#) and [Python](#)   . You will use [RStudio](#) as the main program to access R and Jupyter notebook for Python. Think of R/Python as engines and RStudio/Jupyter Notebook as a car dashboard—R/Python handle all the calculations and the actual statistics, while RStudio/Jupyter Notebook provide a nice interface for running R/Python code. For Streamlit I will be using Visual Studio code but you are more than welcome to use any IDE of your choosing.

Online help and Slack

Computer programming can be difficult. Computers are stupid and little errors in your code can cause hours of headache (even if you've been doing this stuff for years!).

Fortunately there are tons of online resources to help you with this. Two of the most important are [StackOverflow](#) (a Q&A site with hundreds of thousands of answers to all sorts of programming questions) and [RStudio Community](#) (a forum specifically designed for people using RStudio and the tidyverse (i.e. you)).

Additionally, we have a class chatroom at [Slack](#) where anyone in the class can ask questions and anyone can answer. Ask questions about the readings, problem sets, and projects in the class Slack workspace. I will monitor Slack regularly, and you should also all do so as well. You'll likely have similar questions as your peers, and you'll likely be able to answer other peoples' questions too.

Office hours for our TA will be posted in Canvas.

I am looking forward to meeting each one of you and working with you this fall. Class will be officially available August 22nd, and I look forward to meeting you all then!

Regards,

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post class questions on Slack