

**CMPSC 580  
Junior Seminar  
Spring 2022**

**Assignment 3:  
Using Hugo and Netlify to Design an Online Research Notebook**

## Objectives

To learn how to set up a Hugo and Netlify to create a website which will play the part of a research notebook.



Figure 1: Hugo: a popular open-source static site generator. <https://gohugo.io/>

## Preparation

In this assignment, we will be setting up an online research notebook in which you are to record the progress in your research. For this task, we will use Hugo 1 and Netlify 2. For many of your assignments, you will use your website to add your progressive thinking, article summaries, a bibliography, implementations and other aspects of your work.

If you not familiar with how to create a public website (i.e., creating website's *public* repository with GitHub, and using Hugo and Netlify) then a Markdown document with some notes is provided for you in `sandbox/notes_hugoNetlify.md`. In addition, a *Unix*-based script containing commands for creating a functioning website with Hugo is also provided in `sandbox/webBuilder_demo.sh`.

It is suggested that both of these demonstration files be consulted when creating your public research notebook. It is assumed here that commands will be similar for implementations on a Windows OS, although further research on your part may still necessary to complete the steps. It is noted that since this web project is to be made public (i.e., anyone can read your material), therefore please keep your online tone polite, respectful and worthy of our College.



Figure 2: Netlify: Publish your project online from a GitHub repository. <https://www.netlify.com/>

## Clone Your Assignment Repository

HANDED OUT: 8<sup>th</sup> MARCH 2022

Today's assignment repository can be found at the below link to a GitHub Classroom repository. Here you will work on your assignment and then you must push your work to the GitHub cloud where the instructor will be able to view your work for grading. Often, there will be files in your assignment repositories which you are to edit before you submit them by using the below commands for git. **Please note that the instructor cannot view your submission and cannot grade your work unless you push your work to the GitHub cloud!**

<https://classroom.github.com/a/iMhmky5H>

To use this link, please follow the steps below.

- Click on the link and accept the assignment
- Once the importing task has completed, click on the created assignment link which will take you to your newly created GitHub repository for this lab,
- Clone this repository (bearing your name) and work locally
- As you are working on your lab, you are to commit and push regularly. The commands are the following.
  - `git add -A`
  - `git commit -m 'Your notes about commit here'`
  - `git push`

## Part 1: Build a public online notebook and add initial posts

You are to familiarize yourself with the tools described above and use them to create your online research notebook.

- Follow online documentation, supplied script files and other materials available using search engines
  - Set up Hugo site
  - Deploy on Netlify
  - Record the address of working website for your site to submit for this assignment.
- Your web site must have three (3) initial posts
  - An **autobiography** (min 50 words) to introduce yourself
  - A **brief introduction** (min 250 words) which has been written in clear and meaningful language to introduce your research interest area(s).
  - Post your **tutorial**, written in Markdown, from your deliverable of Lab 01. Note: since Hugo documents are written in Markdown, this task is to conveniently copy and past your work. Please add screenshots where appropriate.

## Part 2: Showcase your work!

During the next class, we will have another round of short presentations where you are to introduce your completed online research notebook, and to introduce the tool for which you create a tutorial from Lab 01. Please allow yourself about five minutes for this presentation.

- Five minute talks during next class
  - Introduce your **website** Please spend a moment to show-off your website and its structure.
  - Introduce your **software tool or resource**. Provide a demonstration or discussion of the tool and explain why this tool will be helpful to your work as you know it now. Note, if you provide short a demonstration, then you do not need to create slides to introduce the software tool or resource.

### Summary of deliverables

- A published web project using Hugo and Netlify. The link will be submitted in the assignment above.
- File: `writing/report.md` where you provide the details of your research notebook website link.
- Create slides for a five minute talk for our next class.

### Help?

Please let the instructor know of any questions that you may have. Please use email or make an office hour appointment if you would like to discuss any questions or issues.