

COMP3512 Review Lab Instructions

This lab will provide you with some experience using Git as well as refresh your HTML/CSS knowledge. It is probably the most time-consuming of all the labs in this course, since its job is to resurrect your long lost knowledge of HTML and CSS from COMP 2511. I begin Web 2 with the expectation that all the students are competent and knowledgeable with HTML and CSS; this review lab will help get you back to that state.

To compensate for the time it will take, this lab is worth 3% of your course grade (the other labs in the course are mainly worth 1%). In it, you will have to complete three new end-of-chapter projects plus one shorter Test Your Knowledge from the manuscript for the 3rd edition of the textbook, (this new edition won't be completed until summer 2020 and won't be out in stores till 2021). You will show your completed versions to me by September 16.

Besides the review, another key part of this lab is gaining some experience with the Git system. Git is the world's most commonly used version-control software. GitHub is a way to store and retrieve remote Git repositories via a web interface. Learning how to use Git and GitHub will be important learning outcomes of this course. For now, we will simply use GitHub to pull the starting source code for this week's lab onto your computer. To learn more about Git and GitHub, please read pages 571-577 in the textbook (2nd edition).

1. Using a web browser, visit:

<https://github.com/mru-comp3512-archive/comp3512-f2020-reviewLab>

While you can download content manually from GitHub, it is more common to make use of git commands instead.

2. If you don't have Git, download and install it on your development machine.
3. Open a command window (PC) or Terminal (Mac). If you are using a PC, you can also right-click on a folder and choose the Git Bash Here context menu item) as a quick way to get a command window at the correct folder location.
4. Navigate to the folder you are using for this course.
5. On your computer create a folder named labs in your course folder.
6. In the terminal, enter the command:

`git clone https://github.com/mru-comp3512-archive/comp3512-f2020-reviewLab.git`

This will download the files from GitHub onto your computer. Verify they are on your computer.

7. Complete Chapter 3 Project 3, Chapter 4 Project 2, Chapter 5 Project 2, and the Test your Knowledge #2 in the supplied Chapter 7 PDF for the specified deadline.

The Chapter 7 Test Your Knowledge #2 requires you to learn CSS Grids, which has had universal support in modern browsers since 2017. It is a powerful and ultimately much easier way to implement complex layouts in CSS that doesn't require using bloated third-party CSS libraries like

Bootstrap. We will be using grids throughout the course; CSS grids are already very commonly used today so you do need to learn how to work with them. I've provided an early version of the relevant pages from the textbook (it contains reviewer and editor comments so just ignore those) which (hopefully) should aid in learning CSS grids. The Test Your Knowledge #2 is at the end of the PDF.