

# CS615

## Internet Solutions Engineering

### Lab Week 01 (1%)

### Self Study & Preparation

For all labs, I expect you to: a) think for yourself b) collaborate c) solve problems and resolve issues d) be proactive.

#### Part 1: Self Study (~2-3 h)

In this part, you will study basic web technologies in your own time: Visit <https://learn.shayhowe.com/html-css/> and work through the first three lessons where you will be learning how to build a website, get to know HTML and CSS.

#### Part 2: Preparation and Infrastructure Setup (~2+ h)

In this part, you will setup a number of basic development tools and create accounts for some basic services:

GitHub: Create a GitHub Account and complete a basic GitHub tutorial:

<https://guides.github.com/activities/hello-world/>

- Download a cheatsheet for later:

<https://github.github.com/trainingkit/downloads/github-git-cheat-sheet.pdf>

Apache/DB/PHP: Install WAMP/Server/MAMP/XAMPP or, alternatively, Apache+MariaDB+PHP manually:

- XAMPP (good solutions for all): <https://www.apachefriends.org/>
- MAMP: <https://www.mamp.info/>
- WAMP/Server: <http://www.wampserver.com/en/>
- Manual solution for OSX Users: See my own tutorial (about 30 min)

Setup a basic PHP test: <https://www.php.net/manual/en/tutorial.firstpage.php>

Node with package manager: Install NPM and Node: <https://nodejs.org/en/>

Editors/IDEs: Install one (or more!) of the following editors/IDEs and pick a few useful extensions:

- Sublime Text: <https://www.sublimetext.com/>
- VS Code (my preference): <https://code.visualstudio.com/>
- Netbeans: <https://netbeans.apache.org/>

Browser: Install Brave (<https://brave.com/>) ; its open source!  
(<https://github.com/brave/brave-browser> )

**Important:** Upload a screenshot of your GitHub account homepage to Moodle to receive the mark.