Web Programming

Tutorial 1

To begin this tutorial, please download `tut01-starter.zip` from the course website.

When you finish, zip all your deliveries to submit to this tutorial's submission box. The zip file's name should follow this format: `tclass_sid.zip` where `tclass` is your tutorial class name (e.g. `tut01`, `tut02` etc.) and `sid` is your student's ID (e.g. `2101040015`).

Activity 1 – Editor setup

We are going to use Visual Studio Code as the main programing tool.

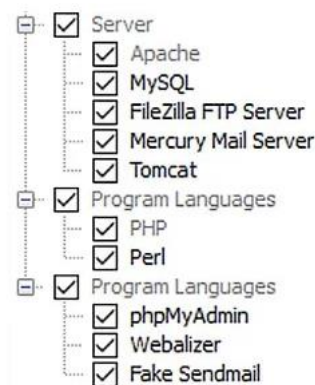Follow this link to download: https://code.visualstudio.com/download and install.

(You don't need to install any extension for HTML and CSS coding)

Activity 2 – Web server setup

Although we're going to use Node.js web server later, it is beneficial for you to try out a web server now. And XAMPP is an easy way to setup a functional web server on your personal computer. Follow this link to download XAMPP:
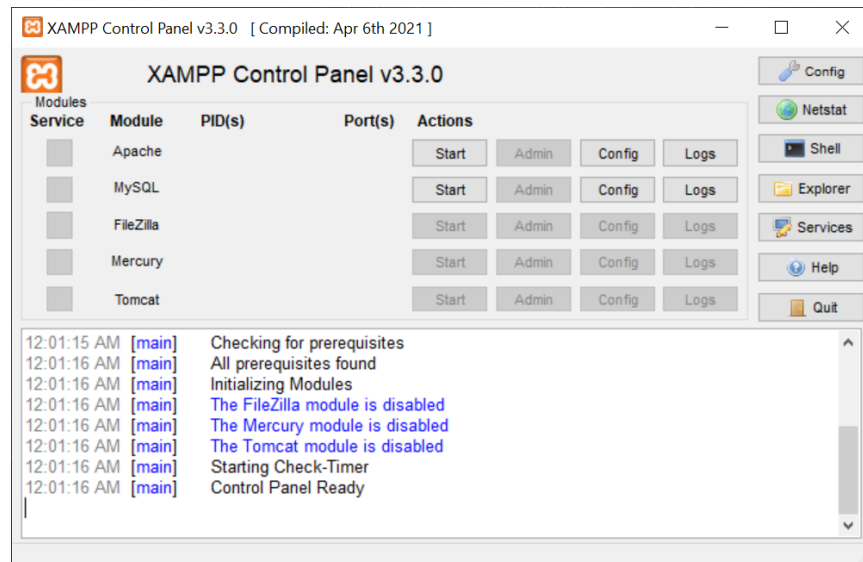
https://www.apachefriends.org/download.html

Install only the **Apache** web server, **MySQL** and **phpMyAdmin**, please *uncheck* all other options as they're not necessary and will take up your computer's space. In this tutorial, you'll only use Apache, but later on you will need **MySQL** and **phpMyAdmin**.

After installing XAMPP, please use XAMPP's control panel to Start and Stop the Apache server. Test your web server by opening https://localhost or http://localhost on

your browser. You can find the local website's document root at `C:\xampp\htdocs` by default.

Activity 3 – CSS selector exercises

(10 mins) In the `css_selector_exercise` folder, open `index.html` in a browser and write CSS selectors for the 8 requirements in there. Note your answers down to a `.txt` file in this folder to submit along with other activities.
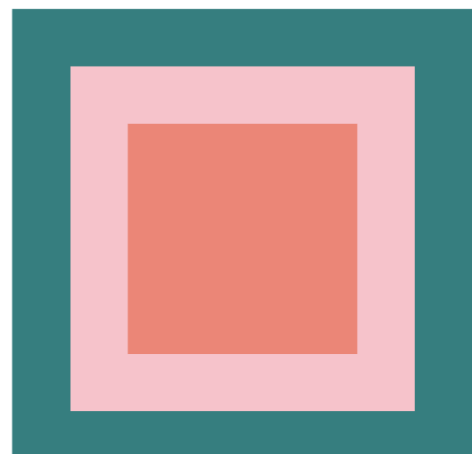
→ **Delivery**: `css_selector_answers.txt`

Activity 4 - CSS Box Model

(15 mins) Given `boxes.html` inside `boxes` folder. In the same folder, create `boxes.css` to make the appearance below:

- The padding of the outer box is teal with a width of 50 pixels.
- The border of the inner box is pink with a width of 50 pixels.
- The background color of the inner box is salmon with a width and height of 200 pixels.
- The overall box has total dimensions of 400 pixels by 400 pixels.

→ **Delivery**: `boxes` folder with `boxes.css` file.

Activity 5 – Your "about me" page

Work alone. Create your personal website to describe yourself on the installed Apache web server (so that you can access your personal website by visiting https://localhost). Try to use your full HTML & CSS knowledge and *be creative* about the content of this page.

You can create a single page or multiple pages. Here are some suggestions:

➔ The page should have a header (possibly with a navigation bar for user to navigate to different pages of your website), the main section and a footer section at the bottom.

➔ Your personal info (name, birthday, hometown, etc.), a picture of yourself (if any), a short description of yourself in 5 sentences (emphasize important words in bold or italic texts).

➔ Your achievements, education, work...

➔ A list of courses you are taking this semester at FIT. Use proper lists (unordered `<ul>` or ordered `<ol>`) where suitable.

➔ Use proper headers to divide your contents.

➔ Your 3 favorite movies, books, or TV shows (with thumbnails) in order. Make at least one link to an interesting site about that TV show/movie/book, such as its IMDB page. The link should be triggered when users click on thumbnail or title.

➔ Cite your favorite quote (don't forget to name the author).

➔ Something about one of your neighbors (people sitting next to you) or your tutor if you are sitting alone.

➔ Link to your social network accounts (better with icons).

➔ Use section `<section>` or article `<article>` appropriately to group content.

Make sure to validate your HTML on **validator.w3.org**. Zip your website and submit it on this tutorial's submission box.

→ **Delivery**: `about_me` folder with added all source code.