

Using HTML to Structure a Page

In this lab, you'll demonstrate your understanding of concepts presented in chapter 3, and create your own web pages from scratch. You may use the topic of your choice, but I'd certainly recommend picking something that you may be able to polish up to use as one of your term project site web pages!

Getting Started

1. Read chapter 3 in the *Murach* textbook.
 2. Download the **CS125hLab02.zip** file from Moodle and extract its contents onto your drive.
 3. Rename the folder **YourLastName-CS125hLab02**.
 4. Open the folder to explore its contents. The **murach_ch03** folder contains files you'll need to complete practice activities from the end of each chapter. The **hands-on** folder will be where you store your first completely self-generated web page (and any related files).
 5. Create a subfolder in the **hands-on** folder for storing images. You may also create other subfolders if that helps you better organize your project.
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Add Structure to an Existing Web Page (40 points)

6. Follow the directions to create the structured home page for the San Joaquin Valley Town Hall page that begin on page 98 of the textbook, with the following modifications:
 - a. Add an HTML comment to the **head** section of the index page that includes your name, the date, and CS 125H - Lab 2
 - b. The `c3_index.html` file and `c3_content.txt` files are located within the `murach_ch03` folder inside the `CS125hLab02` folder that you downloaded. The HTML file is in the root of the `murach_ch03` folder and the text file is in the `murach_ch03/text` folder.
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Creating Your Own Well-Structured Page (40 points)

7. Create a new blank document in your text editor and save it inside the **YourLastName-CS125hLab02/hands-on** folder as **index.html**.
8. Add all of the required tabs to create your basic web page:
 - a. Document type declaration
 - b. Html tags
 - c. Head tags
 - d. A character set meta tag
 - e. Body tags.
9. Add an HTML comment to the **head** section of the page that includes your name, the date, and CS 125H - Lab 2

10. Add content to the page on the topic of your choice. You could build the home page for a website for a club you belong to, a band you like, a special event you're involved with, etc. You may use this page to get a start on one page of your term project website or use something completely unrelated. It's up to you!

11. Add HTML tags to structure your content into an outline:

- a. Use at least three different tags from the primary HTML5 semantic elements (listed in Figure 3-8 on page 79).
- b. There should be exactly one first-level heading that describes the main idea of the page
- c. There should be at least two second-level headings that divide the main topic into two (or more) sub-topics
- d. There should be at least one third-level heading that divides one (or more) of the sub-topics into one (or more) smaller topics.
- e. Each heading should be followed by at least one paragraph element.
Note that you may use filler text for your paragraphs. There are a number of online resources that generate nonsense text that you may use as placeholders while you focus on HTML and page layout, from the classic (<https://www.lipsum.com/>) to the whimsical (<https://www.shopify.com/partners/blog/79940998-15-funny-lorem-ipsum-generators-to-s-hake-up-your-design-mockups>).
- f. Use at least three different inline elements to meaningfully markup content on your page (listed in Figure 3-5 on page 83)
- g. Use at least one image - make sure to store the image in an appropriate folder location and give it alt text.
- h. Create at least one link to another web page. The web page can be to another of your site pages or to any existing published web page.

12. Validate your HTML page and correct any errors.

13. Compress the YourLastName-CS125hLab02 folder and upload through the appropriate link in Moodle.

To zip a folder, right-click on the folder and select Send To > Compressed (zipped) folder. This will create a new file with the same name as the folder, but with the .zip file extension added and a zippered folder icon.

Weekly Discussion (20 points)

Topic: Research a Web Host

Do a little Internet searching to find a free or low-cost web host. Review the features that the host makes available (storage space, bandwidth, email addresses, presence -or not- of advertisements, etc). Sign up for an account and take the host out for a test drive. Report your findings in this week's discussion forum.

1. Select one (or more) web hosts to try and sign up for an account.
2. Interact with the web host a bit
 1. Can you upload a sample web page?
 2. View an existing page?
 3. Rename files?
 4. Connect through your FTP client or only through their web-based file manager?
 5. How obnoxious are the ads (did the web host add code to your uploaded files)?
3. Create a reply post in the Web Hosting discussion forum that:
 1. Includes the name and URL of the web host(s) you selected
 2. Describes why you selected that host initially
 3. Details your current impression of the webhost after your initial interactions.
Essentially, are you satisfied with your choice or are you trying again?
4. Once you have made your reply, you'll be able to view the posts that other students have made and compare your experience to theirs. It is okay to switch hosts at any time if you find that someone discovered a better bargain than you did; or has a more positive experience.