

COMP 2511 - Web I: Client Development

Assignment #1: HTML & CSS



Due Date: Feb. 24th



Weight: 10%



Group/Individual

COMP 2511 Assignment #1: HTML & CSS

Outcomes

The intent of this assignment is to build towards a mastery of using HTML and CSS. Skills learned in this assignment are subject to examination. Upon successful completion of this assignment the student will:

- Understand the syntax of HTML markup.
- Be able to describe and apply semantic tags to create structural meaning.
- Be able to build a consistent navigation structure over multiple pages.
- Be able to understand and use appropriate HTML attributes and tags.
- Use absolute and relative links correctly.
- Include at least one image in the webpage and addressing its accessibility appropriately.
- Use CSS selectors.
- Apply CSS stylesheets to achieve consistent appearance of the elements as directed.

Submission

All assignment files must be included in the git project share with your instructor (github username:jonathanwhudson or github email:jonathan.w.hudson@gmail.com or email:jhudson3@mtroyal.ca), by the due date. No changes must be made to the project after the deadline. The contribution of each team member must be visible in Git history.

Grading

Your assignment will be graded based on the overall quality of the pages, consistency between pages, as well as completion of the requirements on a per page basis.

Team work

- Before starting the project, read the requirements. If working in a group, then meet with your project partner to divide tasks equally. If you are working in a group list all tasks and assign them each to one member of the team in a planning document. If you aren't in a group just list the expected tasks. The document can be stored in your remote repository and shared with all team members and with your course instructor. (The Trello tool <https://trello.com/> is a possible solution to this task)
- If in a team, both team members must contribute to the git project. The contribution of each member must be visible in the history of your git project.
- Both members of a team must be knowledgeable about the whole project. Your instructor may ask questions from each member of a team or request each member to modify any of the pages in your site. Make sure to review the pages that are developed by your teammate.
- Students will be asked demo their project to the course instructor.

Content Requirements

In this assignment, you will be developing a Website for your own company! The Website can be designed for a company that you want to establish in future or can be a hypothetical one which offers services or products of your choice. The content of this website should be unique from other groups in the class and your website should not copy-paste content from an existing web page on the Internet. In assignment 1, you are requested to create the content of your Website, using HTML and style it through the application CSS stylesheets. In the following assignment, you will improve the layout and responsiveness of your Website.

Your website must have at least FOUR pages:

1. Home page: Contains general information about your company and services/products.
2. Services/Products: Describes at least four products/services that your company offers.
3. Contact: Includes contact information, and has a form for submitting customer inquiries to an email address.
4. A page of your choice: What else do you want to share about your company? Add a page of your choice.

To get some ideas, you can check the Website of companies like yours to see what they put in their Website. What you think their website is missing may also be useful for ideas of what you want to add to your Website.

Structural Requirements

1. You must submit **valid** <https://validator.w3.org/> and semantically appropriate HTML5 code (use of semantic tags like header/nav/etc.).
2. You must create at least 4 web pages that will define your Website. The pages must be named properly in their filenames and page titles.
3. Each of your pages must be consistent with one another. There should be:
 - a. a consistent look and feel between pages
 - b. navigation menu with links from/to all 4 other pages
4. Your Website must include:
 - A logo for your company. (this doesn't have to be professional and avoid using copyrighted content from found on the Internet)
 - Appropriate content on every page.
 - Appropriate META tags must be provided for each page.
 - Ensure a unique and descriptive <title> tag for each page.
5. Use the following elements in your Website:
 - a. At least, one photo enclosed in a <figure> with a <figurecaption> (not the logo). All images must be stored in a local directory called images. You must define "alt" attributes for all pictures for accessibility. (Note that you may leave the value of alt attribute empty for decorative images.)
 - b. At least one HTML comment. This can be anywhere in the page.
 - c. One External link to another Website that opens in a new tab
 - d. At least one link to another place on the same page.

- e. A table with a merged (spanned) cell.
- 6. Semantic markup:
 - a. Use <nav> tag and define a consistent "menu" on each page.
 - b. Use <article>, <header>, <main>, and <footer> tags to properly define the structure of your pages.
- 7. The form designed for the contact page, must have:
 - a. A mandatory input box for the subject. Include a max length for user input.
 - b. A mandatory textarea for entering the body of the inquiry.
 - c. A mandatory input box to get user's email address. Include a place holder to show the valid format and a pattern to validate the input.
 - d. An optional box to get user's telephone number. Must include a place holder to show the valid format and a pattern to validate the input.
 - e. Radio buttons with at least 2 different options.
 - f. Checkboxes with at least 2 different options to select.
 - g. A reset button that clears all form inputs
 - h. An input element that accepts date input.
 - i. A submit button that submits the form to an email address.
- 8. Valid **HTML5 markup**. Your site should validate without error (warnings are ok).
- 9. Submit your own raw HTML code – evidence of automatically generated HTML code will result in a 0.
- 10. Do not add any internal/embedded CSS, JavaScript, or other advanced components to the site.

CSS Requirements

- 1. Navigation menu: In every page, the menu item of the current page must be styled differently. (e.g. special color to indicate the user is at this menu item's page)
- 2. Use the first-letter **pseudo element selector** to style a first letter of (at least) one of your paragraphs differently.
- 3. Use a **pseudo class selector** of your choice in one of your pages.
- 4. Use a **contextual selector** of your choice in one of your pages.
- 5. Use an **attribute selector** of your choice in one of your pages.
- 6. Style your table using CSS properties to have **striped table format** (i.e., style even and odd rows with different colors. You should **not** use inline styling for this!
- 7. Float an image to the right side of a paragraph of your choice in your Website.
- 8. Uses consistent design for the header and footer area in all pages. The whole website should have a professional look and design.
- 9. Use **external CSS files** to style your Website. Include all your CSS files inside a folder called "style" and include them in the <head> section of your HTML files.
- 10. All pages must use consistent font, margin, padding. These must be defined using a general CSS file shared by all pages. Page-specific styles should be defined in separate CSS files. Note that you can include multiple CSS files for your HTML files.

Note: If a specific requirement is not given for a part of your Website, you are welcome to use CSS properties to create a design of your choice.

	Point	Grade
General <ul style="list-style-type: none"> Pages are consistently styled using external CSS files with proper names. If working in a group the contribution of both members into the project must be visible in git history of the remote repository. If not in a group, multiple small commits as project is developed are expected. 	3	
Content of the Website <ul style="list-style-type: none"> Includes the 4 pages as described earlier with appropriate content Unique to each group Includes company logo All images must be stored in a directory called images Appropriate choices of semantic tags (header/nav/etc.) 	5	
Menu items <ul style="list-style-type: none"> You can create your menu items with spans or list. Menu items must be linked to their related pages In every page, menu item of current page must be styled a different color. 	5	
Images <ul style="list-style-type: none"> Include at least one semantically tagged image with a caption. You must define “alt” attributes for all pictures for accessibility. An image is floated to right side of a paragraph (this can be in any page). Images are in their own relative directory as specified. 	5	
Navigation <ul style="list-style-type: none"> One External link to another Website that opens in a new tab At least one link to another place on the same page. 	4	
<ul style="list-style-type: none"> At least one HTML comment 	1	
Table <ul style="list-style-type: none"> Table-related HTML elements (table, tr, td, th) are used properly A table with a merged cell Striped table format is created using CSS properties. 	6	
Form design <ul style="list-style-type: none"> Has all requested elements and requirements described earlier. Mandatory fields are visually distinguishable from non-mandatory fields. 	6	
CSS selectors <ul style="list-style-type: none"> Pseudo class selector is used. Pseudo element selector is used. Contextual selector is used. Attribute selector is used. 	2 2 2 2	
Design quality <ul style="list-style-type: none"> All pages have consistent and professional look and content. Relevant head tag elements used properly (meta/title/link). Proper use and storage location of shared/page specific CSS files. All webpages validate without errors for HTML5. 	5	
If in a group, tasks should be divided equally, and the task distribution plan provided. If not in a group the task plan should be provided. You can create your plan in a document (or Trello) and store it in your Bitbucket repository (Trello can also be connected to a Bitbucket repo.)	2	
TOTAL	50	