**Module 4: Cascading Style Sheets (CSS); Web Forms in HTML; Initial Project Website**

BITE 4700

After learning fundamental HTML tags in the previous module, we used them to create basic web pages. Such rudimentary web pages lack style. In this module we learn to make web pages visually or esthetically pleasing by supplementing our HTML tags with styling directives. Given your knowledge of HTML, you might guess that styling directives are enclosed in a style tag. Indeed, that is true; the style tag opens with <style> and closes with </style>. Style directives serve multiple purposes, such as aligning text to the left, right, or center; changing the font type, size, and weight; adding color to text, to hyperlinks, and to sections of a web page; and automatically scaling images to fit different screen sizes.

**Objectives**

At the end of this assignment, you should be able to:

* Combine CSS (styling directives) with HTML in order to create visually appealing web pages.
* Use HTML and CSS to create a three-page website of fictional characters or a website of people who made historic achievements (e.g., presidents of countries, prime ministers of countries, classical music composers, or Renaissance artists, for instance), which includes a navigation bar of links or a sidebar of links.
* Use HTML and CSS to create a web page that includes a form that includes at least text fields and a submit button.
* Use HTML and CSS to create the initial version of your term project website.

**Three Tasks for Module 4**

**1. Style Web Pages using CSS**

Proceed through the Beginner and Intermediate CSS tutorials at HTML Dog (<https://htmldog.com/guides/css/>). Optionally, you may also proceed through the CSS tutorial at w3schools (<https://www.w3schools.com/css/default.asp>).

View my videos: <http://myweb.ecu.edu/luterbachk/BITE4700/Fall2019/iVideos.html>

Using HTML and CSS, create a three-page website that presents fictional characters or people who made historic achievements (e.g., presidents of countries, prime ministers of countries, classical music composers, or Renaissance artists, for instance). The website must include a navigation bar of links or a sidebar of links. Each web page must also include an image and descriptive text, as well as one more external hyperlinks. Transfer your three web pages to a new folder in your ECU web space.

Consider validating your web pages containing HTML and CSS with a tool, such as

<https://validator.w3.org/>

Fundamental HTML Tags for all web pages, supplemented with styling directives.

<!DOCTYPE html>

<html lang="en">

<head>

<title>Insert title here</title>

<style>

</style>

</head>

<body>

Content goes here

</body>

</html>

**Avoiding “Gotchas”**

When developing and publishing webpages, it is helpful to follow these tips.

* When creating a web page file name or folder name, use letters and digits. If you wish, you could also use a hyphen or underscore character. In a web page file or folder name, **do NOT use spaces or unusual characters** (e.g., punctuation marks; actually, avoid all characters except letters, digits, hyphen, and underscore).
* Be sure to transfer image files, in addition to web pages (files that end .html).

**2. Use HTML and CSS to Create a Form**

Using HTML and CSS, create a web form that includes at least three text fields and a submit button. (We will make the button functional in the next module.). If you wish, you can modify one of the two sample forms I provided by changing colors and adding at least one more text field, or adding a drop-down list, a set of radio buttons, or a textarea.

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**3. Term Project (Part 3 of 6): Create Initial Version of your Website**

Implement the functional prototype of your website in HTML and CSS. Transfer this initial version of your term project website to a new folder in your ECU web space.

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**Assignment Submission**

In the Module 4 - Assignment 4 space in Blackboard, submit two links (URLs): (1) the link to your website of fictional or historic characters; and (2) the link to your web form. In the term project space for Module 4, submit the link (URL) to the initial version of your term project website.

**Scoring Rubric for Assignment 4: Web Page Development in HTML & CSS (20 points)**

|  |  |  |
| --- | --- | --- |
| Web Page development | The three web pages in your website of fictional or historic characters includes a fully functional navigation bar or sidebar of links, images, descriptive text, and one or more functional external links. | 12 |
| Web Form | Web form is styled with CSS markup and includes at least three text fields and a submit button. If modifying one of the sample forms, changes colors and adds at least one more text field, or adds a drop-down list, a set of radio buttons, or a textarea | 3 |
| **Total** |  | **15** |

**Scoring Rubric for Term Project: Part 3 (10 project points)**

|  |  |  |
| --- | --- | --- |
| HTML | Each of the six web pages includes the fundamental HTML tags  At this initial development stage, it is okay for some web pages to have placeholders for content to be included in the next stage (iteration) of development. | 4 |
| CSS | CSS markup implements a fully functional navigation bar or sidebar and each web page contains hyperlinks enabling access to all six web pages; alignment of content and colors selected demonstrate recognition of design principles of contrast and consistency; colors chosen from a particular color palette in order to convey unity | 6 |
| **Total** |  | **10** |