



COMP1234 - INTRODUCTION TO WEB DEVELOPMENT

Relative and Absolute Path - Individual Assignment

Weight: 5% of Final Grade

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Introduction

This assignment aims **to help** students understand the differences between relative and absolute references and when to use them appropriately in web development. This will include understanding a website's file structure and navigating it effectively. Students will also learn to manage their hosting account and use an FTP client to update their websites.

Upon completion, students should be able to correctly reference files and directories within the folder structure and external URLs. They should understand the difference between relative and absolute references.

Outcomes:

This assignment will demonstrate your ability to create a valid HTML5 referencing internal and external resources.

1. Students will understand the concept of folder structure and file organization in web development projects.
2. Students will learn how to use both absolute and relative references in linking to files and directories within a project.
3. Students will gain experience linking to external URLs in an HTML document.
4. Students will develop the ability to create a functional and well-organized web development project.
5. Students will learn how to use the file path to navigate the project structure.
6. Students will gain experience troubleshooting and debugging broken links and references in a web development project.

Task

For this assignment, you will be creating a folder structure as described below in `public_html`:

(some of the folders may have already been created in previous lab classes; you do not need to recreate those folders).

Make sure that the folders are spelled correctly and that you follow the naming convention used, DO NOT change the name of any folder.

- `comp1234/`
 - `assignments/`
 - `assignment01`
 - `assignment1-reflection.html` (*this is a file, not a folder*)
 - `assets/`
 - `img`
 - `css`
 - `assignment02`
 - `assignment2-reflection.html` (*this is a file, not a folder*)
 - `assets/`
 - `img`
 - `css`
 - `assignment03`
 - `assignment3-reflection.html` (*this is a file, not a folder*)
 - `assets/`
 - `img`
 - `css`
 - `lab/`
 - `exercises/`
 - `wk01`
 - `wk02`
 - `wk03`
 - `wk04`
 - `wk05`
 - `wk06`
 - `wk07`
 - `wk09`
 - `wk10`
 - `wk11`
 - `wk12`
 - `wk13`
 - `wk14`
 - `wk15`

Once you have created the above folder structure, you will need to **create a single page html file called "index.html"** (this is not the same file you created in Lab 01; you are creating a new index.html file) within the `comp1234/assignments/assignment01/` directory. On this page, you will need to add 12 references to the above directory structure using both absolute and relative references as instructed below:

Root-Relative References: Root-relative references in web development specify the path to a file or resource starting from the website's root directory. They begin with a forward slash ("/") and follow the directory structure from the root level down to the target file. Root-relative references are useful when you want to ensure that the link remains consistent, regardless of the page's location within the website. For example, "/assets/images/image.jpg" would refer to an image located in the "assets/images" directory from the website's root.

Document-Relative References: Document-relative references specify the path to a file or resource relative to the location of the current document (web page). Unlike root-relative references, document-relative references do not start with a forward slash. Instead, they describe the path from the current page's location to the target file. These references are particularly helpful when linking resources within the same directory or a nearby directory on the website. For instance, "images/image.jpg" would refer to an image located in a directory named "images" within the same folder as the current webpage.

Example:

```
<a href='https://www.google.ca'>Google – (A) https://www.google.ca</a>
<a href='../comp1234/labs'>Labs – (R) ../comp1234/labs</a>
```

1. Link reference
2. Main label
3. Type (A) for absolute link
4. Type (R) for relative link
5. Link reference

Links on the web page should look like the image below:

Google – (A) <https://www.google.ca>

Labs – (R) <../comp1234/labs>

Links and References:

#	Link Reference	Link Content	TYPE	Point
1	To your home page (public_html/index.html)	Main label+ Type and link reference	Absolute reference	6
2	To your picture in the assets folder within public_html use <a> tag	Main label+ Type and link reference	root-relative	6

3	To style.css in the assets folder within public_html	Main label+ Type and link reference	document-relative	6
4	To assignment03 folder	Main label+ Type and link reference	root- relative	6
5	To assignment1-reflection.html	Main label+ Type and link reference	document-relative	6
6	To the assets folder within assignment02	Main label+ Type and link reference	root-relative	6
7	To the wk02 folder within your lab Exercises folder	Main label+ Type and link reference	document-relative	6
8	To assets/img folder within assignment02 folder	Main label+ Type and link reference	document-relative	6
9	To assets/css folder within assignment03 folder	Main label+ Type and link reference	root-relative	6
10	Reference 3 external URLs related to HTML tutorial websites	Main label+ Type and link reference	Absolute reference	6
			Total	60

Reflection

In addition to the tasks outlined in the previous description, you will also need to create a file called "assignment1-reflection.html" in the comp1234/assignments/assignment01 directory.

Write about what you learned while completing this assignment. Some questions you may want to consider answering include:

- What challenges did you encounter while creating the folder structure and linking to files and directories?
- How did you approach troubleshooting and debugging any broken links or references?
- What did you learn about the relationship between HTML and file structure in web development projects?
- What did you find most challenging about the assignment, and how did you overcome it?

This reflection should be at least 250 words and written in proper English.

Rubrics:

Your assignment will be evaluated based on the above-mentioned points and the following points.

#	Description	Point
1	Including the student's first and last name and student id at the beginning of the page	1
2	Naming Files and Folders (Best Practices) – lowercase, no space, use camel or snake case	4
3	Presence of validation script at the bottom of the page.	5
4	Misspelled file or directory name	5
5	Completion of assignment1-reflection.html (250 words)	10
6	Valid HTML5 (no error, no warning)	15

You will receive a zero mark if one of the following occurs.

#	Description
1	Placing your assignment files and directory in the wrong path.
2	Forgot to upload your code to your GBLearn account.
3	Forgot to submit your assignment via my.gblearn.com
Late assignment 20% per day to a maximum of 5 days, including weekends.	
Validation Script <script src=https://my.gblearn.com/js/loadscript.js></script>	

Uploading Your Profile Changes

This next step outlines the steps you must perform to upload your changes back to the **GBLearn** server.

1. Make sure to open FileZilla and connect to your **GBLearn** account, using your **GBLearn** username/password credentials.
2. Upload the following:

- a. **index.html** to the **public_html/comp1234/assignments/assignment01/** folder
- b. **assignment1- reflection.html** to the **public_html/comp1234/assignments/assignment01/** folder

3. Make sure you can access the assignment files and folder on your GBLearn via browser.

<https://username.gblearn.com>

My.GBLearn submission

4. Login to <https://my.gblearn.com/> using your GBLearn username and password.
5. If you have not selected your lab instructor - please go to your profile and select your lab instructor before the submission.
6. Select COMP1234 and assignment 01 to submit your assignment on my.gblearn.com (no file upload is required).

Congratulations you have completed Assignment 01!

Estimated Time for Completion:

We understand that as first-semester students, you are getting acquainted with many new concepts. Here's a breakdown of how long each component of this assignment might take:

1. **Understanding the Concept:** Familiarize yourself with the idea of relative and absolute paths.
 - **Estimated Time:** 1-2 hours
2. **Creating the Folder Structure:** Ensure accuracy in manually setting up folders and sub-folders according to the given hierarchy.
 - **Estimated Time:** 30 minutes to 1 hour
3. **Developing the index.html Page:** Implement what you've learned about links, and check the correctness of your relative and absolute paths.
 - **Estimated Time:** 2-3 hours
4. **Reflection (assignment1-reflection.html):** Reflect on your experiences during the assignment and document them.
 - **Estimated Time:** 1-1.5 hours
5. **Validation and Debugging:** Validate your HTML5 and troubleshoot any errors or issues you encounter.
 - **Estimated Time:** 1-2 hours
6. **Uploading and Submission:** Get your assignment onto the GBLearn server and ensure submission protocols are followed.
 - **Estimated Time:** 30 minutes to 1 hour
7. **Additional Time:** This is a buffer for unforeseen challenges, revisiting instructions, or seeking clarifications.
 - **Estimated Time:** 1-2 hours

Overall Estimated Completion Time: 7-12 hours

Keep in mind that individual times can vary based on your prior knowledge, work speed, and understanding of the concepts. It's essential to manage your time effectively and start early to ensure a thorough completion of the assignment.