

## Assignment 3: HTML/CSS (10%)


### Objective:

This assignment will give you the opportunity to practice and develop hands on practical skills to build a website using HTML and CSS. For this assignment you will be building a **2-page static website** using HTML and styling the site using CSS. The web page should include elements learned in class such as **links, lists, images, videos, and a web form**. The website should reflect the concepts of the **CSS Box Model**. The website should be meet accessibility standards, be visually appealing, incorporate Search Engine Optimization (SEO) features, and be compatible in a few browsers. Students should use their knowledge of content management to organize their project accordingly.

### Part 1. HTML Elements 30 marks

1. Project Setup: Organize your CSS and images in different folders. (2 mark)
  - a. (Hint: Always use small letters for folder/file names and avoid special characters including spaces. This will help you link your CSS and images quickly).
  - b. Create a CSS file main.css and add the normalize.css file found in the resources to the project.
  - c. Link the normalize and main style sheet to the index.html. in the correct order.
  - d. Create a web page called index.html and add your name and email in HTML comments at the top of the page.
  - e. Proper use of document type, HTML, Head element and meta elements.
2. Body element: (1 mark)
  - a. Use CSS to define:
    - i. Padding
    - ii. Margins
    - iii. Width & Max-width
    - iv. Border using the shorthand property.
    - v. Font using the shorthand property.
3. Webpage layout: Use following semantic elements: header, nav, aside, main, footer. (1 mark)
4. Set consistent borders, margins, and paddings for the header, nav and footer elements using the concepts of the Box-model. (1 mark)
5. Positioning the aside and main elements using the float properties so that the aside takes up 1/3 of the page width and the main the other 2/3. Set appropriate, margins and padding. (2 marks)
6. Header element contents: (2 marks)
  - a. h1 heading.
  - b. a logo.
  - c. Use CSS to style and position the elements and to add a background colour.
7. Navigation:
  - a. Two links: Home and Contact Us (2 marks)
  - b. Use CSS to: (2 marks)
    - i. align the two links to the right.
    - ii. remove the underline of the links.
    - iii. Enlarge the font size.
    - iv. Set margins, padding and borders to the links so they appear as buttons.
    - v. Change the background colour and the text colour when hovering over the links.
8. Aside: (5 marks)
  - a. H2 heading. Use CSS to style.
  - b. Unorder list of items
    - i. Use CSS to
      1. remove bullet points.


2. Increase the line spacing.
9. Main section: (10 marks)
  - a. H2 heading. Use CSS to style, should be consistent with the H2 heading in the aside.
  - b. 2 paragraphs (Note: you can use Lorem Ipsum text if you want).
  - c. 1 image (use a relative reference)
  - d. 1 Embedded video.
  - e. Nest the image and the video in a figure element and include a figure caption. Use CSS to style these elements.
  - f. Use CSS to:
    - i. Add margins, padding and borders as needed.
    - ii. size the image and the video.
10. Footer: (1 mark)
  - a. Using a p element add the copyright symbol, the year and your first and last name as well as your student number.
  - b. Use CSS to:
    - i. Reduce the font size.
    - ii. center the text.
    - iii. Add the same background colour as applied to the header.



## My tag line

[Home](#)[Contact Us](#)

### Page heading




Image

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### List heading

- Item 1
- Item 2
- Item 3



Video

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## Part 2: Web Form 24 marks

1. Copy and paste the Index.html page and add this to your project. Rename the file Contact.html. (.5 mark)
2. Ensure the links in the navigation section on the Contact and Index page link to the respective pages. (.5 mark)
3. Leave the header, nav, aside and footer sections as they are. (.5 mark)
4. Remove all the elements from the main element on the Contact page. (.5 mark)
5. Add new content to the main section:
  - a. H2 heading. (.5 mark)
  - b. Form element containing the following field set containing the following input fields and labels: (.5 mark)
    - i. Field set (5 marks)
      1. Legend: Personal Information
        - a. Text input with label Name.
        - b. Email input with label Email
        - c. Tel input with the label Phone.
        - d. A dropdown menu with the label Employment Status
          - i. Options should include:
            1. "Select Option" as a default.
            2. "Student"
            3. "Employed Full-time"
            4. Employed Part-time"
            5. Retired
            6. Other
    - ii. Field set: Radio input question: (2 marks)
      1. Legend - How did you hear about our site?
        - a. Options
          - i. Social Media
          - ii. Friend
          - iii. Search Engine
          - iv. Other
    - iii. Field set: (2 marks)
      1. Legend: Tell Us what you think!
      2. Text area with the label Comments
    - iv. Field set: (4 marks)
      1. Legend: Submit
        - a. Checkbox with label "I am not a robot."
        - b. Submit input.
        - c. Reset input.
  - c. Use CSS to style the form. (4 marks)
    - i. Ensure widths, padding and margins are used appropriately.
    - ii. Change the font when needed to be consistent.
    - iii. Reset & Submit buttons.
6. Apply form validation to the form.
  - i. The following fields should be required:
    1. Name (.5mark)
    2. Email (.5mark)
    3. Radio button (.5mark)
    4. Dropdown menu (.5mark)
    5. Text area(.5mark)

7. Add a focus attribute to the Name input. (.5 mark)
8. Add a placeholder to the text area. (.5 mark)
9. Add the autocomplete attribute to the form. (.5mark)

**My tag line**

[Home](#) [Contact Us](#)

### Contact Us

Personal Information

Name

Email

Phone

Date of Birth

Employment Status

How did you hear about our site?

☐ Search Engine

☐ Social Media

☐ Friend

☐ Other

### List heading

item 1

item 2

item 3

Tell Us what you think!

Comments

Submit

I am not a robot ☐

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### Part 3. Prepare for Assignment 4 Code Demo (marks awarded in Assignment 4)

1. Add media queries to make the screen responsive to two different screen sizes besides the large full screen.
2. Ensure that both pages pass the Firefox accessibility test.
3. Ensure that the webpages run correctly in at least 3 different browsers.
4. Ensure proper code structure to aid SEO and add SEO features such as a title and meta elements.
5. Ensure that the content management for the site is well structured.
6. Optimize the site's performance by correctly formatting images.
7. Use a consistent format on both pages and ensure the site is visually appealing to enhance user experience.
8. Ensure you can explain how your code fulfills the requirements.
9. Upload and publish your web page on GitHub.com.
  - a. Create a free account on GitHub.com.
  - b. Upload your completed assignment files under your GitHub account.
  - c. Issue a GitHub page to display your work.

- i. *For instructions on how to use GitHub, refer to the video tutorial on eConestoga.*

#### How to Submit

- Upload your assignment files and the link to your GitHub page to the Assignment Dropbox on eConestoga
- To submit, place all your work into a single folder. Zip this folder and submit the zipped file to eConestoga dropbox (Course Tools > Assignments > in eConestoga). A good way to make sure everything is correct; is to unzip the file you are submitting on a different location on your computer and making sure everything works.
- Also submit the link to your GitHub page, as a comment. Note that I will use the link to review your web page and the code behind, and to mark your assignment, so make sure to test the link and confirm that it is working before submitting it.

#### Academic Integrity

**It is an academic offense to use work that is not your own. For example, copying directly from someone else's work, requirement or procedural documents that were not provided by your professor during the current semester. You cannot use a lab or assignment outline or related procedural instructions that were provided to you or anyone else during a semester that isn't the one we are currently in. ALL work must be in your own. If you are found to have copied your material, it will be considered an academic offence and you will receive a grade of Zero for the assessment. To further assist you in understanding academic integrity requirements please see the following link. <https://lib.conestogac.on.ca/academic-integrity>**