

CPSC 1045 – LAB #0 – HTML BASICS

Objective(s):

1. Learn HTML basics
2. Write HTML pages

Resource(s):

- <http://www.w3schools.com/html/default.asp>
- Web Browser and a computing device (campus or personal)

Grade Value:

- 100 Points – 12.5 Points for each HTML Page in Part II

Assigned Task(s):

I. Learn HTML Basics

- a. Go to the first resource (see above) website.

On the left side of this website (page), you will see a list of HTML Tutorial topics.

The screenshot displays the W3Schools.com website, specifically the HTML(5) Tutorial page. The browser's address bar shows the URL www.w3schools.com/html/. The page features a navigation menu on the left side, listing various HTML topics. The main content area is titled "HTML(5) Tutorial" and includes a welcome message, a link to "W3Schools Home", and a "Next Chapter" link. Below this, there is a section for "Examples in Every Chapter" and a code editor showing the basic HTML structure: `<!DOCTYPE html>`.

- b. Review the following tutorial topics from the above site. Also, for the topics that have exercises towards the bottom of each topic, complete at least one exercise for each topic.

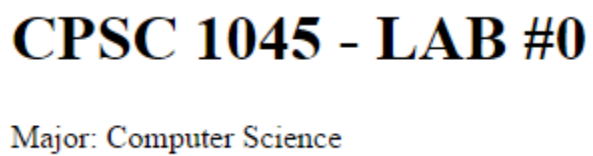
HTML Tutorial	HTML Styles	HTML Blocks
HTML HOME	HTML Formatting	HTML Layout
HTML Introduction	HTML Quotations	HTML Color Names
HTML Editors	HTML Comments	HTML Color Values
HTML Basic	HTML CSS	HTML Color Groups
HTML Elements	HTML Links	HTML Color Shades
HTML Attributes	HTML Images	HTML Head
HTML Headings	HTML Tables	HTML Entities
HTML Paragraphs	HTML Lists	HTML Forms
HTML Forms Elements	HTML Form (Input) Attributes	HTML Input Types

II. Write HTML Pages

Follow the steps below to create your first HTML page in this class. You will be required to take screenshots periodically as you progress through each phase of building the HTML page.

Page I – Getting Started

1. Open NotePad++, Brackets, or your favorite text document editor – we are going to start with a blank text file. Avoid using MS Word or any word processor.
2. Type the following **HTML** (just what's in **RED in the left column**) starting at the beginning of this blank text file.

<pre> <!DOCTYPE html> <html> <head> <title>CPSC 1045 – LAB #0</title> </head> <body> <h1>CPSC 1045 – LAB #0</h1>
 <p>Major: ???</p> </body> </html> </pre>	
--	--

**** Note - Replace the ??? above with the name of your actual major at Langara. If you do not have one, enter Undecided.**

3. Save this file as **FirstName-LastName-SID-LAB0-I.HTML**.

Note if you are using a campus computer with the CSIS desktop, do not save to your USB drive – rather, save it to the desktop. Transfer your files to your USB drive before you logout.

4. DO NOT CLOSE YOUR EDITOR AT THIS TIME.
5. Open up a file explorer window.


- Find the HTML file you just saved on your desktop.
- Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown in the right column of the table in Step 2. If not, go back to your editor and make the corrections – repeat at Step 2.
- Research Questions:

What is the difference between <title> and <h1>?

How do you know where/how to check if your <title> element is showing up correctly?

Page II – Lists

- RETURN TO YOUR EDITOR.
- Let's save this file as a different name – name it **FirstName-LastName-SID-LAB0-II.HTML**.
- Update your HTML file as shown in the left column below. **Red** is original HTML, **blue** is a change to original HTML, **green** is new HTML.

<pre> <!DOCTYPE html> <html> <head> <title>CPSC 1045 - LAB #0</title> </head> <body> <h1>CPSC 1045 - LAB #0</h1> <h3>Major: ???</h3> <h3>Courses This Semester:</h3> CPSC 1045 Enter here 2nd Course <h3>3 Favorite Restaurants/Food:</h3> The Keg McDonald's Domino's </body> </html> </pre> 	<p>CPSC 1045 - LAB #0</p> <p>Major: Computer Science</p> <p>Courses This Semester:</p> <ul style="list-style-type: none"> • CPSC 1045 • Enter here 2nd Course <p>3 Favorite Restaurants/Food:</p> <ol style="list-style-type: none"> 1. The Keg 2. McDonald's 3. Domino's
---	--

**** Note – Add more lines for more courses (after the 2nd course) – see Green Arrow above**

- Save this file.
- Open up a file explorer window.
- Find the HTML file you just saved on your desktop - **FirstName-LastName-SID-LAB0-II.HTML**.
- Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown in the right column of the table in Step 3. If not, go back to your editor and make the corrections – repeat at Step 3.

1. RETURN TO YOUR EDITOR.
2. Let's save this file as a different name – name it **FirstName-LastName-SID-LAB0-III.HTML**.
3. Update your HTML file as shown in the left column below. **Red** is original HTML, **blue** is a change to original HTML, **green** is new HTML.

```
<!DOCTYPE html>
<html>
<head>
<title>CPSC 1045 - LAB #0</title>
</head>

<body>

<h1>CPSC 1045 - LAB #0</h1>
<h3>Major: ???</h3>
<h3>Courses This Semester:</h3>
<ul>
<li>CPSC 1045</li>
<li>Enter here 2nd Course</li>
</ul>
<h3>3 Favorite Restaurants/Food:</h3>
<ol>
<li>The Keg - <a href="http://www.kegsteakhouse.com">click here to go to Keg Website</a></li>
<li><a href="http://www.mcdonalds.ca">McDonald's</a></li>
<li><a href="http://www.dominos.ca" target="_blank">Domino's</a></li>
</ol>

</body>

</html>
```

4. Save this file.
5. Open up a file explorer window.
6. Find the HTML file you just saved on your desktop - **FirstName-LastName-SID-LAB0-III.HTML**.
7. Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown below. If not, go back to your editor and make the corrections – repeat at Step 3.

CPSC 1045 - LAB #0

Major: Computer Science

Courses This Semester:

- CPSC 1045
- Enter here 2nd Course

3 Favorite Restaurants/Food:

1. The Keg - [click here to go to Keg Website](http://www.kegsteakhouse.com)
2. [McDonald's](http://www.mcdonalds.ca)
3. [Domino's](http://www.dominos.ca)

Page IV – Tables

1. RETURN TO YOUR EDITOR.
2. Let's save this file as a different name – name it **FirstName-LastName-SID-LAB0-IV.HTML**.
3. Update your HTML file as shown in the left column below. **Red** is original HTML, **blue** is a change to original HTML, **green** is new HTML.

```
<!DOCTYPE html>
<html>
<head>
<title>CPSC 1045 - LAB #0</title>
</head>

<body>
  <h1>CPSC 1045 - LAB #0</h1>
  <h3>Major: Computer Science</h3>
  <br>
  <table>
  <tr>
    <td style="border: 1px solid black">
      <h3>Courses This Semester:</h3>
      <ul>
        <li>CPSC 1045</li>
        <li>Enter here 2nd Course</li>
      </ul>
    </td>
    <td style="border: 1px solid black">
      <h3>3 Favorite Restaurants/Food:</h3>
      <ol>
        <li>The Keg - <a href="http://www.kegsteakhouse.com">click here to go to Keg Website</a></li>
        <li><a href="http://www.mcdonalds.ca">McDonald's</a></li>
        <li><a href="http://www.dominos.ca" target="_blank">Domino's</a></li>
      </ol>
    </td>
  </tr>
</table>

</body>
</html>
```

4. Save this file.
5. Open up a file explorer window.
6. Find the HTML file you just saved on your desktop - **FirstName-LastName-SID-LAB0-IV.HTML**.
7. Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown below. If not, go back to your editor and make the corrections – repeat at Step 3.

CPSC 1045 - LAB #0

Major: Computer Science

Courses This Semester:	3 Favorite Restaurants/Food:
<ul style="list-style-type: none">• CPSC 1045• Enter here 2nd Course	<ol style="list-style-type: none">1. The Keg - click here to go to Keg Website2. McDonald's3. Domino's

Page V – Colors

1. RETURN TO YOUR EDITOR.
2. Let's save this file as a different name – name it **FirstName-LastName-SID-LAB0-V.HTML**.
3. Update your HTML file as shown in the left column below. **Red** is original HTML, **blue** is a change to original HTML, **green** is new HTML.

```
<!DOCTYPE html>
<html>
<head>
<title>CPSC 1045 - LAB #0</title>
<style>
td:hover {
    background-color: yellow;
}
</style>
</head>

<body>
<h1 style="color:blue;">CPSC 1045 - LAB #0</h1>
<h3 style="color:green;">Major: Computer Science</h3>
<br>
<table>
<tr>
<td style="border: 1px solid black" bgcolor="#AB5512">
<h3 style="color:green">Courses This Semester:</h3>
<ul>
<li>CPSC 1045</li>
<li>Enter here 2nd Course</li>
</ul>
</td>
<td style="border: 1px solid black;" bgcolor="#CD5512">
<h3 style="color:green">3 Favorite Restaurants/Food:</h3>
<ol>
<li>The Keg - <a href="http://www.kegsteakhouse.com">click here to go to Keg Website</a></li>
<li><a href="http://www.mcdonalds.ca">McDonald's</a></li>
<li><a href="http://www.dominos.ca" target="_blank">Domino's</a></li>
</ol>
</td>
</tr>
</table>
</body>
</html>
```

4. Save this file.
5. Open up a file explorer window.
6. Find the HTML file you just saved on your desktop - **FirstName-LastName-SID-LAB0-V.HTML**.
7. Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown below. If not, go back to your editor and make the corrections – repeat at Step 3.

CPSC 1045 - LAB #0

Major: Computer Science

Courses This Semester: <ul style="list-style-type: none">• CPSC 1045• Enter here 2nd Course	3 Favorite Restaurants/Food: <ol style="list-style-type: none">1. The Keg - click here to go to Keg Website2. McDonald's3. Domino's
---	--

Now, move the mouse over one of the table cells, the background color should change to yellow – this is known as “hover”, and you set this up when you added the <style> element to the HTML page.

CPSC 1045 - LAB #0

Major: Computer Science

Courses This Semester: <ul style="list-style-type: none">• CPSC 1045• Enter here 2nd Course	3 Favorite Restaurants/Food: <ol style="list-style-type: none">1. The Keg - click here to go to Keg Website2. McDonald's3. Domino's
---	--

Phase VI – Images

1. RETURN TO YOUR EDITOR.
2. Let's save this file as a different name – name it **FirstName-LastName-SID-LAB0-VI.HTML**.
3. Update your HTML file as shown in the left column below. **Red** is original HTML, **blue** is a change to original HTML, **green** is new HTML.

```
<!DOCTYPE html>
<html>
<head>
<title>CPSC 1045 - LAB #0</title>
<style>
td:hover {
    background-color: yellow;
}
</style>
</head>

<body>
<h1 style="color:blue;">CPSC 1045 - LAB #0</h1>
<h3 style="color:green;">Major: Computer Science</h3>
<br>
<table>
<tr>
<td style="border: 1px solid black" bgcolor="#AB5512">
<h3 style="color:green;">Courses This Semester:</h3>
<ul>
<li>CPSC 1045</li>
<li>Enter here 2nd Course</li>
</ul>
</td>
<td style="border: 1px solid black;" bgcolor="#CD5512">
<h3 style="color:green;">3 Favorite Restaurants/Food:</h3>
<ol>
<li>The Keg - <a href="http://www.kegsteakhouse.com">click here to go to Keg Website</a></li>
<li><a href="http://www.mcdonalds.ca">McDonald's</a></li>
<li><a href="http://www.dominos.ca" target="_blank">Domino's</a></li>
</ol>
</td>
</tr>
</table>
<br>

<br>
This one is clickable
<input type="image" src="picture1.jpg" height="50" width="100" onclick='{ alert("You clicked image"); }' />
</body>
</html>
```

4. Save this file.
5. Find/obtain a picture a jpeg picture, name this file **picture1.jpg**, and save it in the same directory as your HTML files. Ensure the picture is no bigger than 200 x 200 pixels.
6. Open up a file explorer window.
7. Find the HTML file you just saved on your desktop - **FirstName-LastName-SID-LAB0-VI.HTML**.
8. Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown below. If not, go back to your editor and make the corrections – repeat at Step 3.

CPSC 1045 - LAB #0

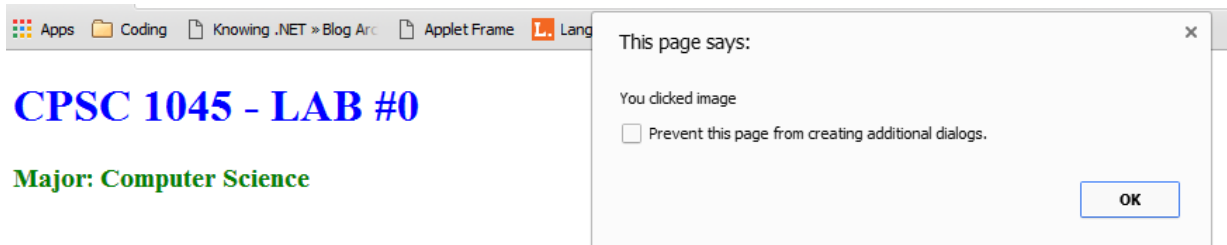
Major: Computer Science

Courses This Semester: <ul style="list-style-type: none">• CPSC 1045• Enter here 2nd Course	3 Favorite Restaurants/Food: <ol style="list-style-type: none">1. The Keg - click here to go to Keg Website2. McDonald's3. Domino's
---	--



This one is clickable

Now, click the larger image – you will see a pop-up **alert** appear similar to the following screenshot. With images, you can make them clickable, and take action on the click.



Courses This Semester: <ul style="list-style-type: none">• CPSC 1045• Enter here 2nd Course	3 Favorite Restaurants/Food: <ol style="list-style-type: none">1. The Keg - click here to go to Keg Website2. McDonald's3. Domino's
---	--



This one is clickable

Phase VII – Buttons

1. RETURN TO YOUR EDITOR.
2. Let's save this file as a different name – name it **FirstName-LastName-SID-LAB0-VII.HTML**.
3. Update your HTML file as shown in the left column below. **Red** is original HTML, **blue** is a change to original HTML, **green** is new HTML.

```
<!DOCTYPE html>
<html>
<head>
<title>CPSC 1045 - LAB #0</title>
<style>
td:hover {
    background-color: yellow;
}
</style>
</head>

<body>
<h1 style="color:blue;">CPSC 1045 - LAB #0</h1>
<h3 style="color:green;">Major: Computer Science</h3>
<br>
<table>
<tr>
<td style="border: 1px solid black" bgcolor="#AB5512">
<h3 style="color:green;">Courses This Semester:</h3>
<ul>
<li>CPSC 1045</li>
<li>Enter here 2nd Course</li>
</ul>
</td>
<td style="border: 1px solid black;" bgcolor="#CD5512">
<h3 style="color:green;">3 Favorite Restaurants/Food:</h3>
<ol>
<li>The Keg - <a href="http://www.kegsteakhouse.com">click here to go to Keg Website</a></li>
<li><a href="http://www.mcdonalds.ca">McDonald's</a></li>
<li><a href="http://www.dominos.ca" target="_blank">Domino's</a></li>
</ol>
</td>
</tr>
</table>
<br>

<br>
This one is clickable
<input type="image" src="picture1.jpg" height="50" width="100" onclick='{ alert("You clicked image"); }' />
<br>
<p><input type="button" onclick='{ prompt("Enter Your Name Place"); }' value="Press to Enter Name" /></p>

</body>
</html>
```

4. Save this file.
5. Open up a file explorer window.
6. Find the HTML file you just saved on your desktop - **FirstName-LastName-SID-LAB0-VII.HTML**.

7. Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown below. If not, go back to your editor and make the corrections – repeat at Step 3.

CPSC 1045 - LAB #0

Major: Computer Science

Courses This Semester: <ul style="list-style-type: none">• CPSC 1045• Enter here 2nd Course	3 Favorite Restaurants/Food: <ol style="list-style-type: none">1. The Keg - click here to go to Keg Website2. McDonald's3. Domino's
---	--



This one is clickable



Press to Enter Name

Now, click the button – you will see a pop-up **prompt** appear asking you to enter your name. Enter a name, and then click ok.

The screenshot shows a web browser window with the following content:

- Address bar: Apps | Coding | Knowing .NET » Blog Arc | Applet Frame | L | Lang
- Page Title: CPSC 1045 - LAB #0
- Text: Major: Computer Science
- Table with 2 columns:
 - Courses This Semester:**
 - CPSC 1045
 - Enter here 2nd Course
 - 3 Favorite Restaurants/Food:**
 1. The Keg - [click here to go to Keg Website](#)
 2. [McDonald's](#)
 3. [Domino's](#)
- Below the table:
 - Small Firefox icon
 - Text: This one is clickable
 - Large Firefox icon
 - Button: Press to Enter Name

A dialog box titled "This page says:" is open, containing:

- Text: Enter Your Name Place
- Input field: Joe
- Checkbox: ☐ Prevent this page from creating additional dialogs.
- Buttons: OK, Cancel

Phase VIII – CSS/Formatting

1. RETURN TO YOUR EDITOR.
2. Let's save this file as a different name – name it **FirstName-LastName-SID-LAB0-VIII.HTML**.
3. Update your HTML file as shown in the left column below. **Red** is original HTML, **blue** is a change to original HTML, **green** is new HTML.

```
<!DOCTYPE html>
<html>
<head>
<title>CPSC 1045 – LAB #0</title>
<style>
td:hover {
    background-color: yellow;
}
h3 {
    color: yellow;
}
</style>
</head>

<body>
<h1 style="color:blue;">CPSC 1045 – LAB #0</h1>
<h3>Major: Computer Science</h3>
<br>
<table>
<tr>
    <td style="border: 1px solid black" bgcolor="#AB5512">
        <h3>Courses This Semester:</h3>
        <ul>
            <li>CPSC 1045</li>
            <li>Enter here 2nd Course</li>
        </ul>
    </td>
    <td style="border: 1px solid black;" bgcolor="#CD5512">
        <h3>3 Favorite Restaurants/Food:</h3>
        <ol>
            <li>The Keg - <a href="http://www.kegsteakhouse.com">click here to go to Keg Website</a></li>
            <li><a href="http://www.mcdonalds.ca">McDonald's</a></li>
            <li><a href="http://www.dominos.ca" target="_blank">Domino's</a></li>
        </ol>
    </td>
</tr>
</table>
<br>

<br>
This one is clickable
<input type="image" src="picture1.jpg" height="50" width="100" onclick='{ alert("You clicked image"); }' />
<br>
<p><input type="button" onclick='{ prompt("Enter Your Name Place"); }' value="Press to Enter Name" /></p>

</body>
</html>
```

4. Save this file.
5. Open up a file explorer window.

6. Find the HTML file you just saved on your desktop – **FirstName-LastName-SID-LAB0-VIII.HTML**.
7. Double-click your HTML to run/execute your HTML file. Verify that your browser should show your page similar to the page shown below. If not, go back to your editor and make the corrections – repeat at Step 3.

CPSC 1045 - LAB #0

Major: Computer Science

Courses This Semester: <ul style="list-style-type: none">• CPSC 1045• Enter here 2nd Course	3 Favorite Restaurants/Food: <ol style="list-style-type: none">1. The Keg - click here to go to Keg Website2. McDonald's3. Domino's
---	--



This one is clickable



Press to Enter Name

For this page, we removed all the color attributes for the <h3> elements, created a style for it in <style> element, and then change the color to yellow. These changes allow us to set a style (in this case the color), and apply these changes to the same element (in this case <h3>) throughout the entire page. Try another color, and refresh the page – all the <h3> elements' color will change to your new color. The key advantage to using style is the ability to make a change globally with only minor changes as oppose to scanning and fixing all occurrences of the <h3> element when you want to change just the color.

Deliverable(s):

Submit one zipped file called **FirstName-LastName-SID-LAB0.zip** to D2L under the folder called **Lab #0**. This zip file will contain the following files:

FirstName-LastName-SID- LAB0-I.HTML through FirstName-LastName-SID- LAB0-VIII.HTML

This document will contain the eight (8) HTML files from Part II above.

Note – replace SID in filenames above with your 9 digit student ID number – starts with “10”.

Due Date:

See D2L. No late submissions accepted/graded.