

# Lab 2 – Create a Novice Website

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## Purpose

- Create a novice website
- Upload your website to a Web server

## Due Date

- This lab must be handed in before the due date, at the end of Week 2.  
**Friday May 29, 2020 – before midnight**

## Assessment

- This Lab is worth 2% of your total course mark.

## Assigned Readings

- **Lecture Slides** posted on Brightspace
  - Module 2 -> Part 2
- The following chapters of **Fundamentals of Web Development** will be useful in completing this exercise:
  - Chapter 2

## Lab Supplies

To complete this lab you will require the following lab supplies:

- Lecture Slides (**Module 1 -> Part 2**) posted on Brightspace
- Textbook: **Fundamentals of Web Development** by Randy Connolly and Ricardo Hoar
- EasyPHP, or other WAMP server
- Eclipse, Notepad (or other text editor, or IDE)
- FileZilla (or other FTP client)

## Summary of Tasks

1. Use the knowledge gained in 'Introduction to HTML5' under 'Course Content-> Module 2- The Web, HTML and CSS -> Part 2-Introduction to HTML5' to create a novice web page.
2. Create links between your two labs
3. Upload your website to the webserver
4. View your webpage using a web browser
5. Submit the URL (hyperlink) of Lab 2 on Brightspace

## Task 1

Use the knowledge gained from this week's lecture (Module 2 -> Part 2- Introduction to HTML5 -> Introduction to HTML5) to create a novice website.

The title of the web page will be "**ELEMENTS OF HTML5**".

The web page must display the syntax and an example (output) for each of the following HTML5 Elements:

1. Heading element.
2. Paragraph element.
3. Line Break element.
4. Blockquote element.
5. All Phrase elements (<b>, <em>, <i>, <mark>, <small>, <strong>, <sub>, <sup>).
6. Lists (Unordered, Ordered, Description).
7. Special characters.
8. Anchor (Absolute, relative and email hyperlinks) element.
9. Meter element.
10. Progress element.
11. Data list control.
12. Slider control.
13. Calendar control.

Name this webpage: **index.html**

The expected output for **index.html** is below:

**Elements of HTML5**

**1. Heading Element:**

- Syntax:  
`<h1>This is heading 1</h1>`  
`<h2>This is heading 2</h2>`  
`<h3>This is heading 3</h3>`
- Output:

**This is heading 1**

**This is heading 2**

**This is heading 3**

**2. Paragraph Element**

- Syntax:  
`<p>lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod  
tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,  
quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo  
consequat.</p>`
- Output:  
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

**3. Line Break Element**

- Syntax:  
`<p>a<br>b<br>c<br>d<br>e<br>f<br>g</p>`
- Output:  
a  
b  
c  
d  
e  
f  
g

**4. Blockquote Element**

- Syntax:  
`<blockquote>"lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod  
tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,  
quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo  
consequat."</blockquote>`
- Output:  
"Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat."

**5. Phrase Elements**

- Syntax:  
`<b>bold</b> text.`  
`<em>emphasized</em> text.`  
`<i>italicized</i> text.`  
`<mark>mark</mark> text.`  
`<small>small</small> text.`  
`<strong>strong</strong> text.`  
`<sub>sub</sub> text.`  
`<sup>sup</sup> text.`
- Output: **bold** text. *emphasized* text. *italicized* text. **mark** text. small text. **strong** text. <sub>sub</sub> text. <sup>sup</sup> text.

**6. Lists**

**a) Lists Unordered**

- Syntax:  
`<li>example a</li>`  
`<li>example b</li>`
- Output:
  - example a
  - example b

**b) Lists Ordered**

- Syntax:  
`<ol>`  
`<li>example a</li>`  
`<li>example b</li>`  
`</ol>`
- Output:
  - 1. example a
  - 2. example b

**c) Description list**

- Syntax:  
`<dl>`  
`<dt>Triangle</dt>`  
`<dd>Pyramid</dd>`  
`<dt>Square</dt>`  
`<dd>Cube</dd>`  
`</dl>`
- Output:
  - Triangle
  - Pyramid
  - Square
  - Cube

## 7. Special Characters

- Syntax:

```
"copyright":&copy; <br>
"less":&lt; <br>
"greater":&gt; <br>
"ampersand":&#amp;
```

- Output:  
"copyright":©  
"less":<  
"greater":>  
"ampersand":&

## 8. Anchor Element

### a) Absolute link

- Syntax:

Link to a different website: <a href="http://www.google.ca">www.google.ca</a>

- Output:  
Link to a different website: [www.google.ca](http://www.google.ca)

### b) Relative link

- Syntax:

Link to a different page on the same website: <a href="../lab1/index.html">lab1</a>

- Output:  
Link to a different page on the same website: [lab1](#)

### c) E-mail hyperlink

- Syntax:

Link to mail program connected with browser or a message is displayed <a href="mailto:me@gmail.com">me@gmail.com</a>

- Output:  
Link to mail program connected with browser or a message is displayed [me@gmail.com](mailto:me@gmail.com)

## 9. Meter Element

- Syntax:


```
<meter value="100" min="0" max="100">Max 100</meter>
<meter value="50" min="0" max="100">Max 50</meter>
<meter value="10" min="0" max="100">Max 0</meter>
```

- Output:  


## 10. Progress Element

- Syntax:

```
<progress value="700" max="1000">700</progress>
```

- Output:  


## 11. Datalist Control

- Syntax:

```
<label for="fruit">Fruit</label>
<input type="text" name="fruit" id="fruit"
list="fruits">
<datalist id="fruits">
  <option value="Peaches">
  <option value="Apples">
  <option value="Pears">
</datalist>
```

- Output:  
Fruit

## 12. Slider Control

- Syntax:

```
<label for="Hunger">
Express how hungry you are between 1 and 10<br>
Low<input type="range" name="myChoice" id="Hunger" min="1" max="10">High
</label>
```

- Output:  
Express how hungry you are between 1 and 10  
Low  High

## 13. Calendar Control

- Syntax:

```
<label for="theDate">What day?</label>
<input type="date" name="theDate" id="theDate">
```

- Output:  
What day?

## Task 2

Create a link between your first and second labs

- On the web page '**Index.html**' add an Anchor tag that links to the URL submitted in 'Lab 1'

## Task 3

Upload the website to your webserver domain.

Once you connect to the webserver using an FTP client, create a directory called '**/Lab2**' under '**/public\_html/CST8238**' directory. Once your personal directory has been created navigate to that new directory. Add your index.html file to this location. (Using FileZilla simply drag the index.html file into your folder)

For more information on using FileZilla, please navigate to the following material on Brightspace: [Course Content](#) → [Extra Material](#) → [FileZilla Instruction.docx](#)

## Task 4

View your website using a web browser. Open a web browser and navigate to the following web address:

**[http://web-server\\_domain\\_name/CST8238/Lab2/<filename>](http://web-server_domain_name/CST8238/Lab2/<filename>)**

For example, the web address to a sample page is:

<http://rejaulchowdhury.com/CST8238/Lab2/index.html>

Where 'rejaulchowdhury.com' is the domain name of the Web server, 'CST8238/Lab2' is the name of the directory I created in the Web server under '/public\_html' directory using FTP client and 'index.html' is the web page of this lab.

## Task 5

Once you have confirmed that your webpage is available online, you are ready to hand in your lab.

Create a word document (Lab2.doc) in which write the following Information:

- Student Number, First Name, Last Name
- The URL, or hyperlink, prepared in Task 4

To hand in your lab go to Brightspace and navigate to Course Content → Labs. Then click on 'Lab 2 – Create a Novice Website' link. Upload the word document (Lab2.doc) on Brightspace.

### **IMPORTANT NOTE:**

If the URL, or hyperlink, does not direct the professor to the lab you will receive a ZERO for the lab assignment.