

CEGEP VANIER COLLEGE

CENTRE FOR CONTINUING EDUCATION

Web Programming

420-999-VA

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Lab 3

Jul 13, 2022

Lab 3: Working with Cascading Style Sheets

Complete all these following HTML scripts as explained in my **Lab 3 YouTube Video 1**. All *missing HTML coding* are presented in this YouTube video with explanation.

1. Introduction to CSS: All files should be saved under the subfolder *htmlclass3*

- **Style Sheet**

The style sheet is a set of declarations describing the layouts and appearance of a document such as Fonts, Text, Color, Backgrounds, Block-level elements, Positioning, Visual Formatting, and Interfaces. There exist three different styles:

In-Line Style Sheet

Embedding Style Sheet

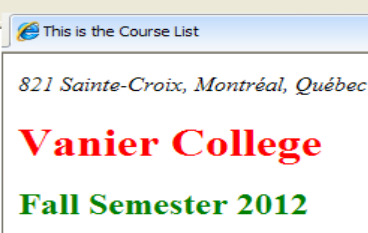
External Style Sheet

- **In-Line Style Sheet**


It is possible to associate attributes to a given element such as

`<element attribute1="value1" attribute2="value2" ...>content</element>`

Inconvenient: There is no *separation* between the HTML content and its style

HTML Code	Preview
<pre>1 <html> 2 <head> 3 <title> This is the Course List</title> 4 </head> 5 <body> 6 <address> 7 821 Sainte-Croix, Montréal, Québec Canada H4 8 </address> 9 <h1 style="color: red">Vanier College</h1> 10 <h2 style="color: green">Fall Semester 2012</h2></pre>	

- **Embedding a Style Sheet:** The power of style sheet is to collect all of the styles used in the document in an embedded style sheet that is placed in the head section of the document. Embedded style sheet are created using the style element.

HTML Code	Preview
<pre>1 <html> 2 <head> 3 <title> This is the Course List</title> 4 <style> 5 h1 {color: green;} 6 h2 {color: red;} 7 h3 {color: red;} 8 </style> 9 </head> 10 <body> 11 <h1>Vanier College</h1> 12 <h2>Fall Semester 2012</h2> 13 <h3>Course List</h3> 14 <dl> 15 <dt>HTML and <i>Internet</i> Programming</dt> 16 <dd>Learn how to Develop Web Site</dd> 17 <dt>Analysis of The Work Function & Communication</dt> 18 <dd>Basic of Communication at work place</dd> 19 <dt>Association of Law Notions to the Professional Practice</dt> 20 <dd>Key Elements of Law</dd> 21 </dl> 22 </body> 23 </html></pre>	

- **Using an External Style Sheet:**

Embedding style sheet is applied only to the current Web Page. You can place the style declarations in an **external** file (with an **extension .css**) to be used by the entire Web Site.

```

format2.css
1  /*
2     My First CSS file for Style formatting
3     Author: Samir Chebbine
4  */
5
6  h1 {
7  h2, h3 {
8  address {

```

- **Linking a Web Page to an External Style Sheet:**

HTML Code	Preview
<pre> courselist2.htm 1 <html> 2 <head> 3 <title> This is the Course List</title> 4 <link rel="stylesheet" href="format2.css"> 5 </head> 6 <body> 7 <address> 8 821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500 9 </address> 10 <h1>Vanier College</h1> 11 <h2>Fall Semester 2012</h2> 12 <h3>Course List</h3> 13 <dl> 14 <dt>HTML and <i>Internet</i> Programming</dt> 15 <dd>Learn how to Develop Web Site</dd> 16 <dt>Analysis of The Work Function & Communication</dt> 17 <dd>Basic of Communication at work place</dd> 18 <dt>Association of Law Notions to the Professional Practice</dt> 19 <dd>Key Elements of Law </dd> 20 </dl> 21 </body> 22 </html> </pre>	<p>The preview shows a web page titled "This is the Course List". It features a header with the college name and semester, followed by a list of courses and their descriptions. The styling includes a blue header bar, green text for the college name, red text for the semester, and a blue address bar. The course list is presented in a table-like format with alternating blue and white rows.</p>

2. Understanding Cascading Order: Style Precedence

In case of any conflict in the definition of style, the precedence goes from lowest to highest in the following order:

- Browser's internal style sheet
- External style sheet
- Embedded style sheet
- Inline styles

- **Style Inheritance:** Style are passed down from the more general levels to the more specific in what is known as **style inheritance**.

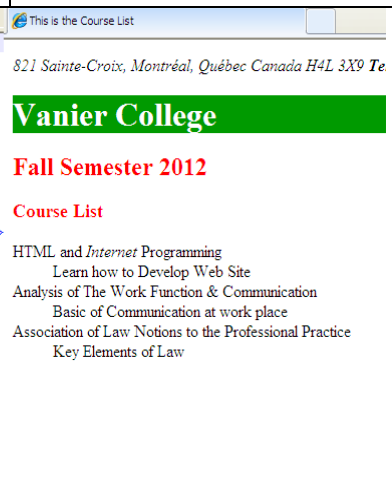
HTML Code	Preview
<pre> 1 <html> 2 <head> 3 <title> This is the Course List</title> 4 <style type="text/css"> 5 [Redacted CSS Code] 6 </style> 7 </head> 8 <body> 9 <address> 10 821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500 11 </address> 12 <h1>Vanier College</h1> 13 <h2>Fall Semester 2012</h2> 14 <h3>Course List</h3> 15 <dl> 16 <dt>HTML and <i>Internet</i> Programming</dt> 17 <dd>Learn how to Develop Web Site</dd> 18 <dt>Analysis of The Work Function & Communication</dt> 19 <dd>Basic of Communication at work place</dd> 20 <dt>Association of Law Notions to the Professional Practice</dt> 21 <dd>Key Elements of Law </dd> 22 </dl> 23 </body> 24 </html> </pre>	

- **Applying a Style to a Specific ID:** You can apply a style to a specific element marked with an id attribute.


HTML Code	Preview
<pre> 1 <html> 2 <head> 3 <title> This is the title of my web page</title> 4 <style type="text/css"> 5 [Redacted CSS Code] 6 </style> 7 </head> 8 <body> 9 <h2 id = "ListA">List A</h2> 10 <p>Section A</p> 11 <dl> 12 <dt>HTML and <i>Internet</i> Programming</dt> 13 <dd>Learn how to Develop Web Site</dd> 14 <dt>Analysis of The Work Function & Communication</dt> 15 <dd>Basic of Communication at work place</dd> 16 <dt>Association of Law Notions to the Professional Practice</dt> 17 <dd>Key Elements of Law </dd> 18 </dl> 19 <h2 id = "ListB">List B</h2> 20 <p>Section B</p> 21 <dl> 22 <dt>HTML and <i>Internet</i> Programming</dt> 23 <dd>Learn how to Develop Web Site</dd> 24 <dt>Analysis of The Work Function & Communication</dt> 25 <dd>Basic of Communication at work place</dd> 26 <dt>Association of Law Notions to the Professional Practice</dt> 27 <dd>Key Elements of Law </dd> 28 </dl> 29 <h2 id = "ListC">List C</h2> 30 <p>Section C</p> 31 <dl> </pre>	

3. Working with Color in HTML and CSS

- **Defining Text and Background Colors:** You can apply a style to a specific element marked

HTML Code	Preview
<pre>1 <html> 2 <head> 3 <title> This is the Course List</title> 4 <style type="text/css"> 5 ----- 6 </style> 7 </head> 8 <body> 9 <address> 10 821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500 11 </address> 12 <h1>Vanier College</h1> 13 <h2>Fall Semester 2012</h2> 14 <h3>Course List</h3> 15 <dl> 16 <dt>HTML and <i>Internet</i> Programming</dt> 17 <dd>Learn how to Develop Web Site</dd> 18 <dt>Analysis of The Work Function & Communication</dt> 19 <dd>Basic of Communication at work place</dd> 20 <dt>Association of Law Notions to the Professional Practice</dt> 21 <dd>Key Elements of Law </dd> 22 </dl> 23 </body> 24 </html></pre>	

- **Working with Fonts, Text Styles, and Font Size:** You can specify a font and change the font size.

HTML Code	Preview
<pre>1 <html> 2 <head> 3 <title> This is the Course List</title> 4 <link -----> 5 </head> 6 <body> 7 <address> 8 821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500 9 </address> 10 <h1>Vanier College</h1> 11 <h2>Fall Semester 2012</h2> 12 <h3>Course List</h3> 13 <dl> 14 <dt>HTML and <i>Internet</i> Programming</dt> 15 <dd>Learn how to Develop Web Site</dd> 16 <dt>Analysis of The Work Function & Communication</dt> 17 <dd>Basic of Communication at work place</dd> 18 <dt>Association of Law Notions to the Professional Practice</dt> 19 <dd>Key Elements of Law </dd> 20 </dl> 21 </body> 22 </html></pre>	

```
1 /*
2 CSS file for Style formatting
3 Author: Samir Chebbine
4 */
5
6 body {background-color: white; -----}
7 h1 {color: white; background-color: rgb(0, 154, 0)}
8 h2, h3 {color: red}
9 address {text-align: center; color: blue; -----}
```

- **Controlling Spacing and Indentation:** You can specify the amount space between characters and the amount space between the words, and you can specify the text indent.

HTML Code	Preview
<pre> 1 <html> 2 <head> 3 <title> This is the Course List</title> 4 <link href="format7.css" rel="stylesheet" type="text/css"/> 5 </head> 6 <body> 7 <address> 8 821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500 9 </address> 10 <h1>Vanier College</h1> 11 <h2>Fall Semester 2012</h2> 12 <h3>Course List</h3> 13 <dl> 14 <dt>HTML and <i>Internet</i> Programming</dt> 15 <dd>Learn how to Develop Web Site</dd> 16 <dt>Analysis of The Work Function & Communication</dt> 17 <dd>Basic of Communication at work place</dd> 18 <dt>Association of Law Notions to the Professional Practice</dt> 19 <dd>Key Elements of Law </dd> 20 </dl> 21 <p> 22 HTML documents have htm or html as an extension such as student.htm or student.html. 23 We gonna use Notepad++ to edit HTML documents. 24 What are computerization and personal assets that should 25 be acquired by a student to succeed and perform in her study? 26 Do you have any specific expectations about your long term evolution? </p> 27 </body> 28 </html> </pre>	<pre> 1 /* 2 CSS file for Style formatting 3 Author: Samir Chebbine 4 */ 5 6 body {background-color: white; font-family: Arial, Helvetica, sans-serif } 7 h1 {color: white; background-color: rgb(0, 154, 0); } 8 h2, h3 {color: red; .em} 9 address {text-align: center; color: blue; font-size:2em} 10 </pre>

- **Applying Font Features:**

You can specify the font style to particular type such as normal, italic, oblique.

```
address {text-align: center; color: blue; font-size:2em; font-style: normal}
```

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```
address {text-align: center; color: blue; font-size:2em; font-style: normal;
font-weight: bold; text-decoration: underline; text-transform: uppercase;}
```

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4. Working with Images

You can change the background of any element from its plain white color to the uploaded image using background-image attribute.

HTML Code	Preview
<pre> 1 <html> 2 <head> 3 <title> This is the Course List</title> 4 <link href="format8.css" rel="stylesheet" type="text/css"/> 5 </head> 6 <body> 7 <address> 8 821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500 9 </address> 10 <h1>Vanier College</h1> 11 <h2>Fall Semester 2012</h2> 12 <h3>Course List</h3> 13 <dl> 14 <dt>HTML and <i>Internet</i> Programming</dt> 15 <dd>Learn how to Develop Web Site</dd> 16 <dt>Analysis of The Work Function & Communication</dt> 17 <dd>Basic of Communication at work place</dd> 18 <dt>Association of Law Notions to the Professional Practice</dt> 19 <dd>Key Elements of Law</dd> 20 </dl> 21 <p> 22 HTML documents have htm or html as an extension such as student.htm or student.html. 23 We gonna use Notepad++ to edit HTML documents. 24 What are computerization and personal assets that should 25 be acquired by a student to succeed and perform in her study? 26 Do you have any specific expectations about your long term evolution? </p> 27 </body> 28 </html> </pre>	

5. Floating an Element: an In-line image is floated when it is moved alongside

HTML Code	Preview
<pre> courselist10.htm <html> <head> <title> This is the Course List</title> <link href="format10.css" rel="stylesheet" type="text/css"/> </head> <body> <address> 821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500 </address> <h1>Vanier College</h1> <h2>Fall Semester 2012</h2> <h3>Course List</h3> <dl> <dt>HTML and <i>Internet</i> Programming</dt> <dd>Learn how to Develop Web Site</dd> <dt>Analysis of The Work Function & Communication</dt> </pre>	

6. Working with the Box Model:

- **Margin Styles:** you can set the element margin:

```
h1{color: white; background-color: rgb(0, 154, 0); letter-spacing:0.3em; word-spacing:0.8em;  
margin-top:10px; margin-right:20px; margin-bottom:10px; margin-left: 20px}
```

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- **Padding Styles:** you can set the element padding:

```
h1{color: white; background-color: rgb(0, 154, 0); letter-spacing:0.3em; word-spacing:0.8em;  
margin-top:10px; margin-right:20px; margin-bottom:10px; margin-left: 20px;  
padding: 10 20 10 20}
```

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Fall Semester 2012

- **Border Styles:** you can set the element border width, color, and design:

```
address {text-align: center; color: blue;  
border-bottom-width: 4px; border-bottom-color: red; border-bottom-style: double }
```

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- **width Styles:** you can set the element border width, color, and design:



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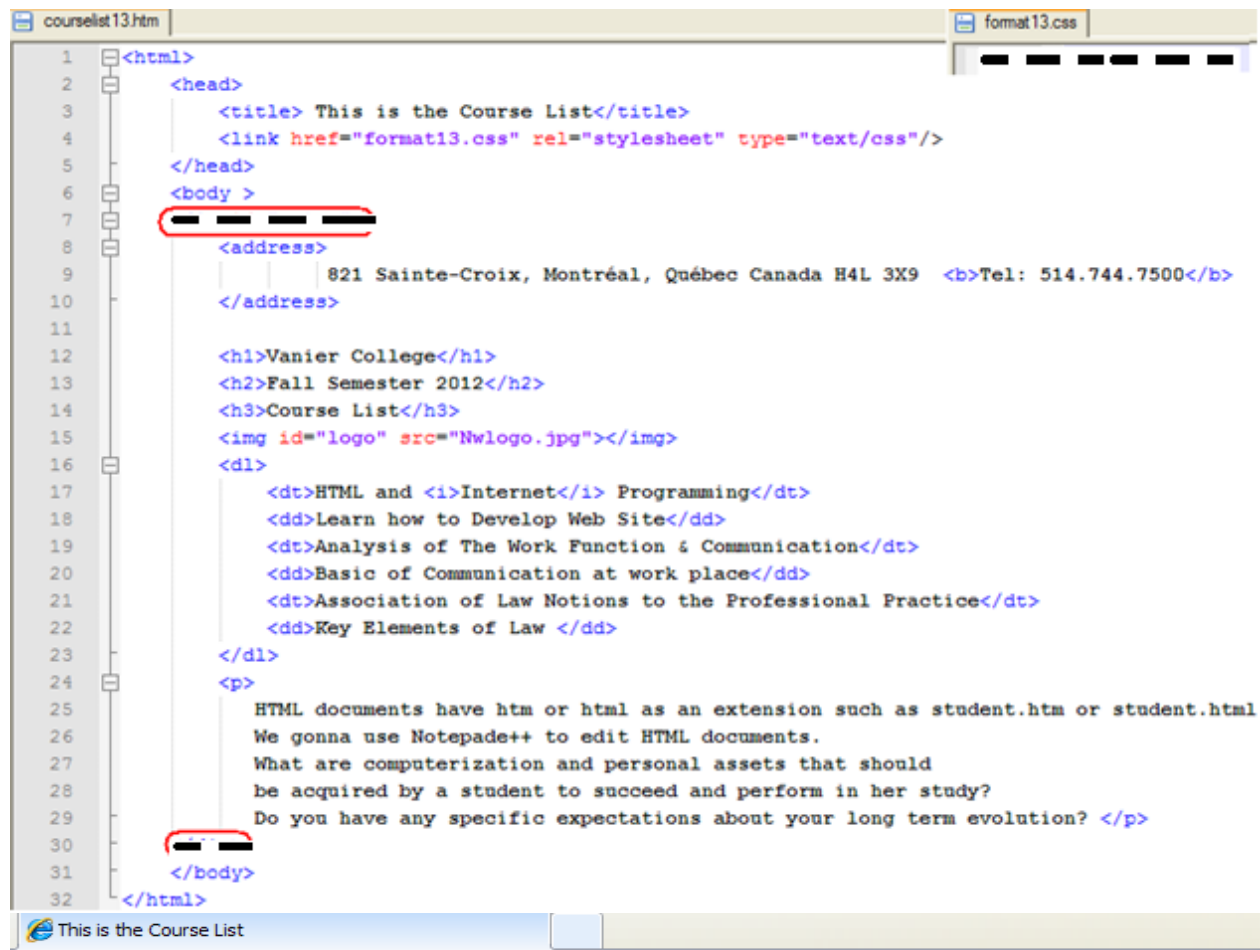
Course List

HTML and Internet Programming
Learn how to Develop Web Site
Analysis of The Work Function & Communication
Basic of Communication at work place
Association of Law Notions to the Professional Practice
Key Elements of Law



HTML documents have htm or html as an extension such as student.htm or student.html. We gonna use Notepad++ to edit HTML documents. What are computerization and personal assets that should be acquired by a student to succeed and perform in her study? Do you have any specific expectations about your long term evolution?

7. Controlling Page Layout with div Containers:



```
1 <html>
2   <head>
3     <title> This is the Course List</title>
4     <link href="format13.css" rel="stylesheet" type="text/css"/>
5   </head>
6   <body >
7     <address>
8       821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 <b>Tel: 514.744.7500</b>
9     </address>
10
11     <h1>Vanier College</h1>
12     <h2>Fall Semester 2012</h2>
13     <h3>Course List</h3>
14     </img>
15     <dl>
16       <dt>HTML and <i>Internet</i> Programming</dt>
17       <dd>Learn how to Develop Web Site</dd>
18       <dt>Analysis of The Work Function & Communication</dt>
19       <dd>Basic of Communication at work place</dd>
20       <dt>Association of Law Notions to the Professional Practice</dt>
21       <dd>Key Elements of Law </dd>
22     </dl>
23     <p>
24       HTML documents have htm or html as an extension such as student.htm or student.html
25       We gonna use Notepad++ to edit HTML documents.
26       What are computerization and personal assets that should
27       be acquired by a student to succeed and perform in her study?
28       Do you have any specific expectations about your long term evolution? </p>
29     </body>
30   </html>
```

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Course List

HTML and *Internet* Programming
Learn how to Develop Web Site
Analysis of The Work Function & Communication
Basic of Communication at work place
Association of Law Notions to the Professional Practice
Key Elements of Law

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HTML documents have htm or html as an extension such as student.htm or student.html. We gonna use Notepad++ to edit HTML documents. What are computerization and personal assets that should be acquired by a student to succeed and perform in her study? Do you have any specific expectations about your long term evolution?