CMPT 165 Advanced XHTML + CSS – Part 1

June 1st, 2015



What are the errors?

```
1 </DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
         "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
 4 <html xmlns="http://www.w3.org/1999/xhtml">
 6 <head>
 7 rel="stylesheet" href="lab2-style.css" type="text/css" />
  \langle h1 \rangle CMPT Lab \langle h1 \rangle
12 </head>
13
14 <body>
16 Here's how to do a CMPT 165 lab exercise:
18 
19 1 > Read the lab
20 \langle 1i \rangle Do the lab \langle 1i \rangle
21 
23  But, you're not <em>really</em> done until you submit the lab. 
24 </body>
26 </html>
```

What are the errors? (2)

```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR
  <html xmlns="http://www.w3.org/1999/xhtml"><head>
  <meta http-equiv="content-type" content="text/html; charset=windows-1252">
  <title>CMPT165 Exercise2</title>
  </head>klink rel="stylesheet" href="lab2-style.css" type="text/css" />
 9
  <br/>body>
10
12 \langle h1 \rangle How to get a good grade on CMPT165 \langle h1 \rangle
13 13 b) the homeworks
  2. Attend the lecture
  3. Review everyweek
16
  <em>And then you will get a great mark in this course!</em>
18
19 </body></html>
```

What are the errors? (3)

```
<html>
   <head>
   <title> Here is how to do a CMPT 165 lab exercise:</title>
  k rel="stylesheet" href="lab2-style.css" type="text/css" />
   <h1> Here is how to do a CMPT 165 lab exercise: </h1>
 8 </head>
           And  are missing!
10 < body >
  Here is how to do a CMPT 165 lab exercise: <br/> 
    <font color = "red"> 1. Read the lab <br/> 
           2. Do the lab \langle br \rangle \langle lli \rangle \langle font \rangle \langle ul \rangle
14
15 <em> But you're not really done until you finish the lab</em>
16 < /body>
17 </html>
```

What are the errors? (4)

```
1 <html>
   <head>
          <title>Lab Exercise</title>
          k rel="stylesheet" href="lab2-style.css" type="text/css" />
   </head>
   <br/>body>
          <h1>Lab Exercise</h1>
 9
          \langle p1 \rangle
          <bold>Here's how to do a CMPT165 lab exercise£°<<mark>√b</mark>>
10
11
          \leq I D I \geq
          <ol≯1.Read the lab</ol>
12

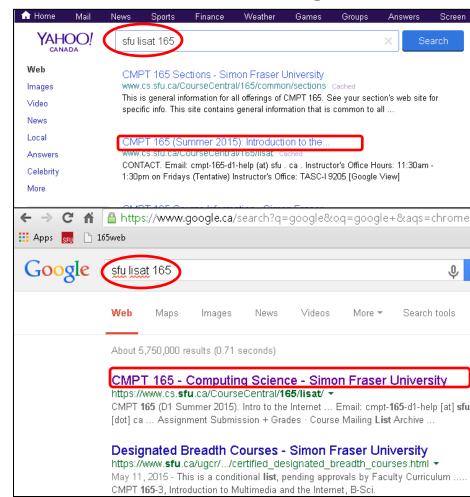
    ارکاریکی bo the lab
    ارکاریکی bo the lab
    ارکاریکی bo the lab

13
14
          <p2>
15
          But, you're not <em>really</em> done until you submit
1.6
          the lab
17
          18
19 </body>
   </html>
21
22
```

Structure of a webpage (review)

- Document type declaration (DTD) ...more later
- Header: "meta-information"
 - Not displayed in browser window!
 - -<Title>:
 - Displayed on the tab
 - Shown on "Add to favorites"
 - Shown on search-engine results
- Body: content displayed in browser window

Results from search engines:

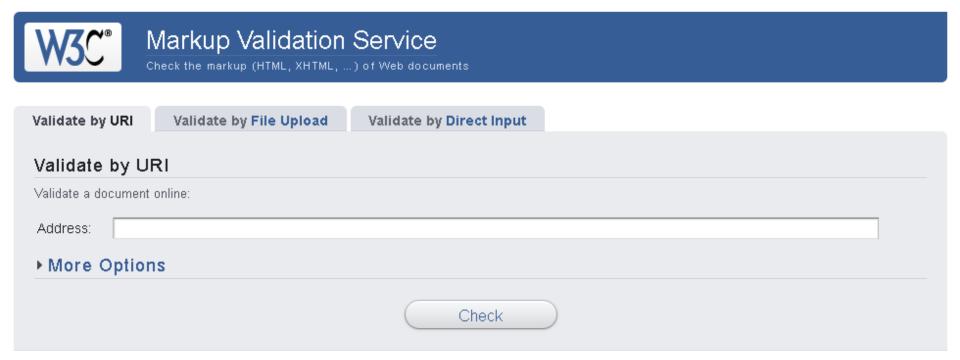


Valid XHTM 1.0 Strict

- Document type declaration: case sensitive!
 - First reference: must be exact
- xmlns: namespace name

```
<!DOCTYPE html PUBLIC "-/W3C//DTD XHTML 1.0 Strict//EN"</pre>
       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
       <html xmlns="http://www.w3.org/1999/xhtml">
       <head>
                <title>Conforming XHTML 1.0 Strict Template</title>
                <link href="mystyle.css" rel="stylesheet" type="text/css" />
Not required
                <meta name="keywords" content="HTML, CSS, XHTML, Python" />
but always
                <meta name="description" content="My blog on HTML and CSS" />
               <meta name="author" content="Mr. FirstName LastName" />
good to have
                <meta content="text/html; |charset=UTF-8"</pre>
       </head>
       <body>
                <!-- put your content here -->
       </body>
       </html>
```

Validators



This validator checks the <u>markup validity</u> of Web documents in HTML, XHTML, SMIL, MathML, etc. If you wish to validate specific content such as <u>RSS/Atom feeds</u> or <u>CSS stylesheets</u>, <u>MobileOK content</u>, or to <u>find broken links</u>, there are <u>other validators and tools</u> available. As an alternative you can also try our <u>non-DTD-based validator</u>.



<u>Try now the W3C Validator Suite™</u> premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.

Validators

CMPT 165 (D1 Summer 2015) Intro to the Internet and the World Wide Web

USEFUL LINKS

Course-specific

- Assignment Submission + Grades
- Course Mailing List Archive

Select Course Software

- Sublime Text 3
- FileZilla FTP
- Python 2.7.x
- GIMP
- Inkscape

Quick References

- W3 color names
- Character entity

Web-Based Tools

- Interactive HTML Editor | Interactive HTML/CSS Editor
- · Lorem Ipsum (text generator)
- Paletton (for color schemes)
- WDG Validator | W3C Validator
- CSS Validator

Today's Agenda

- id attribute
- Creating tables

```
Tags you'll learn:
   <caption>
Attributes you'll learn:
   summary
   abbr
   colspan
   rowspan
```

"id" attribute

- Provides an identity for an element
- e.g.

```
<img id="myprofilepic" src="pic.png" />
```

Try to use meaningful id so you can remember easily

Should be unique for proper "anchoring"

"Hash" symbol

Use # + id attribute

AN ESSAY FOR CMPT 165

"Anyone who has never made a mistake has never tried anything new."-- Albert Einstein

1. INTRODUCTION

Lorem ipsum dolor sit amet, ne has solet percipitur, voluptaria mnesarchum ea eum. Est te cibo erat rationibus, pro ponderum lobortis vulputate ea, his dolor luptatum eu. Quodsi vocibus eligendi ea duo, petentium neglegentur pro ne. Et vix laudem aperiri interesset, eos ut euismod accusam aliquando. In sit ignota alterum explicari, id vis utroque facilis temporibus, duo no erat iisque scaevola. Ne solet legimus splendide pri, ad mel habemus oportere corrumpit. Vel facilisi volutpat consetetur ut. Dicit graeco te quo, eos ei hinc animal volumus. Ne sea quem simul mucius, duo ei elitr euripidis. Quo tota choro insolens et, id dolore cotidieque duo.

Vix legere legimus id, discere repudiare in vis, amet ridens efficiendi qui no. Aeterno constituam qui id, in dicit bonorum corrumpit eum. Qui id dicam periculis philosophia, id eos explicari quaerendum. Habeo consul ex per. Pri an agam assueverit.

2. METHODS

Skip vix ne elitr aliquam erroribus, pro id quando deleniti gloriatur. Quo albucius philosophia cu, per diam audiam tamquam an. No illum luptatum delicatissimi his. Utamur qualisque deseruisse pro ei, usu modo eros invidunt ex.

2.1 Xaf sd afdsafasd f

Skipe elitr aliquam erroribus, pro id quando deleniti gloriatur. Quo albucius philosophia cu, per diam audiam tamquam an. No illum luptatum delicatissimi his. Utamur qualisque deseruisse pro ei, usu modo eros invidunt ex. as aeque detraxit ad. Cu assum exerci vix, quem congue deserunt ea cum. Quot repudiare in duo, consul consectetuer has in. Nam novum malorum ne. Dictas perfecto sententiae ad sea, modus delectus ex mei. Lorem ando.

2.2 Xaf sd afdsafasd f

Skipignota alterum explicari, id vis utroque facilis temporibus, duo no erat iisque scaevola. Ne solet legimus splendide pri, ad mel habemus oportere corrumpit. Vel facilisi volutpat consetetur ut. Dicit graeco te quo, eos ei hinc animal volumus. Ne sea quem simul mucius, duo ei elitr euripidis. Quo tota choro insolens et, id dolore cotidieque duo.

2.2.1 Afasdf Xaf sd afdsafasd f

Lorem ipsum dolor sit amet, ne has solet percipitur, voluptaria mnesarchum ea eum. Est te cibo erat rationibus, pro ponderum lobortis vulputate ea, his dolor luptatum eu. Quodsi vocibus eligendi ea duo, petentium neglegentur pro ne. Et vix laudem aperiri interesset, eos ut euismod accusam aliquando. In sit

<h1>AN ESSAY FOR CMPT 165</h1>
<blockquote>Anyone who...</blockquote >
<h2>1. INTRO</h2>
cp id="p1">skip
Lorem ipsum dolor sit amet, ne has solet pe. Est...

<h2>2. METHODS</h2>

skip

Lipsum dolor sit amet, ne has solet sab ercipitur, voluptaria mnesarchum ea eum. Est ep. top

< h3 > 2.1 Xafsdd < /h3 >

skipSipsum
dolor sit amet, ne has solet percipitur,
voluptaria mnesarchum ea Lorem ipsum
dolo. Vptaria amet luptaria mnesarchum ea
mnesarchum ea Lorem ipsum dolor sit amet,
ne lorss sits.top

id attribute

Uses:

- 1) For anchoring parts within the same webpage
 - Instantiate:

- Reference (refer to the element as):

2) For styling a specific element

```
#name_of_id {
    color: red;
}
```



id attribute

- HTML 4.01 has restrictions on id values
 - Cannot start with a number
 - Cannot be used in <head>, <html>, <meta>, <style>, <title>, etc.
 - XHTML, HTML 5: no such restriction

Today's Agenda

- id attribute
- Creating tables

abbr

colspan

rowspan

Creating tables

Heading1	Heading 2	Heading 3
Item1	Data1	Data2
Item2	Data3	Data4
Item3	Data5	Data6

Elements for table:

<u>table h</u>eader

<u>table data</u>

table row

- May contain one or more of

Creating a simple table

Reporting experimental results...

Substance examined	Measured pH level
Lemon juice	2.4
Baking soda	8.4
Orange juice	3.5

1 header row

3 data rows

→ each with 2 columns

Creating a simple table

Substance examined	Measured pH level
Lemon juice	2.4
Baking soda	8.4
Orange juice	3.5

1 header row

3 data table rows

→ each with 2 columns

Example markup:

```
Substance examined
   Measured pH
    <!-- data row -->
   Lemon juice
   2.4
    <!-- data row -->
   Baking soda
   8.4
    <!-- data row -->
   Orange juice
   3.5
```

Creating a more complex table

"pH level" header spans over 3 columns

"Substance"
header-{
spans over
2 rows

Table 1. pH levels measured in 3 test samples.

Substance	pH level			
	Measurement 1	Measurement 2	Measurement 3	
Lemon juice	2.4	2.2	2.5	
Baking soda	8.4	8.1	7.9	
Orange juice	3.5	2.9	2.7	

pH level

Substance

Example markup/styling of a table

```
 <!-- Headers -->
            Substance
            pH level
       <!-- Subheadings -->
            Sample 1
            Sample 2
            Sample 3
       <!-- First data row -->
            Lemon iuice
            2.2
            2.4
            2.2
       <!-- Second data row -->
            Baking soda
            8.4
            8.1
            8.2
       <!-- Third data row -->
            Orange juice
            3.5
            2.9
            3.1
```

```
/* CSS below */
table {
  border: solid green 2pt;
  font-size: 14pt;
  font-family: sans-serif;
  text-align: center;
}
tr {
  background-color: #9d9;
  color: green;
  padding: 1em;
th {
  width: 120px;
  background-color: green;
  color: white;
```

Making tables more accessible

```
Measurement 1Measurement 2
     <!-- First row -->
         Lemon juice
         2.4
         2.2
     <!-- Second row -->
         Baking soda
         8.4
         8.1
     <!-- Third row -->
         Orange juice
         3.5
         2.9
    <caption>This is caption of table.</caption>
```

Making tables more accessible

→ Add summary description

```
Measurement 1Measurement 2
    <!-- First row -->
       Lemon juice
       2.4
       2.2
    <!-- Second row -->
       Baking soda
       8.4
       8.1
    <!-- Third row -->
       Orange juice
       3.5
       2.9
   <caption>This is caption of table.
```

Making tables more accessible

→ Add summary description

```
Measurement 1Measurement 2
     <!-- First row -->
         Lemon juice
         2.4
         2.2
                → Add short version of header contents
     <!-- Second row -->
         Baking soda
         8.4
         8.1
                           Tip: Making sense of a
    large table via listening
     <!-- Third row -->
         Orange juice
                           can be very difficult.
         3.5
                           Try to simplify it first.
         2.9
    <caption>This is caption of table.
```

Use of tables

- Tables not for structuring contents
 - Old (bad) practice in the 90s
 - Use CSS instead
- Use tables only for display of tabular data

Other tips:

- Group related columns or rows for improved readability
- Simplify large tables whenever possible

Questions?

Today's summary

- 3 parts to webpages
 - meta vs. content
- id attribute
 - Uses:
 - 1. Anchoring within a webpage
 - 2. Styling specific elements
- Creating tables

Tags: <caption>

Attributes in tables: summary, abbr, colspan, rowspan