# Web Design and Development ACS-1809

Chapter 3

Document Setup

## Create an HTML file

- At their very core, HTML files are simply text files with two additional feature.
  - 4.htm or .html as file extension name
  - They have tags.
    - Tags are commands or code used to tell the web browser how to display the page content.

```
+ 1903-002-17Winter
1 <!DOCTYPE html>
 2 <html xmlns="http://www.w3.org/1999/xhtml" class="no-js" lang="en">
 4 <meta content="text/html; charset=utf-8" http-equiv="content-type"/>
 5 <title>The University of Winnipeg</title>
7 <meta content="index, follow" name="robots"/>
       <meta content="IE=9; IE=8; IE=7; IE=EDGE" http-equiv="X-UA-Compatible"/>
      <link href="styles-2014.css" media="screen" rel="stylesheet" type="text/css"/>
11
       <!-- IE 6-8 support for media queries https://github.com/scottjehl/Respond -->
12
       <!--[if lt IE 9]>
           <link href="/styles-2014-ie.css" media="screen" rel="stylesheet" type="text/css"/>
           <script type="text/javascript" src="/ files/scripts/respond.min.js" ></script>
14
15
      <![endif]-->
       <!--[if IE]>
18
17
       <script type="text/javascript">
18
       (function(){
           var html5elmeents = "address|article|aside|audio|canvas|command|datalist|details|dialog|figure|figcaption|footer|header|hgroup|keygen|mark|meter|menu|nav|progress|ruby|section|time|video".split('|');
           for(var i = 0; i < html5elmeents.length; i++){
               document.createElement(html5elmeents[i]);
23
       })();
       </script>
24
       <![endif]-->
       <link href="print.css" media="print" rel="stylesheet" type="text/css"/>
28
       <!-- Arvo font http://www.google.com/fonts#UsePlace:use/Collection:Arvo -->
29
       <link href="https://fonts.googleapis.com/css?family=Arvo:400,700" rel="stylesheet" type="text/css"/>
       <meta content="width=device-width, initial-scale=1" name="viewport"/>
       <meta content="yes" name="apple-touch-fullscreen"/>
       <meta content="UWinnipeg" name="apple-mobile-web-app-title"/>
       <link href="_files/images/responsive-2014/favicon.png" rel="icon" type="image/png"/>
       <link href="_files/images/responsive-2014/apple-touch-icon.png" rel="apple-touch-icon-precomposed"/>
       <link href="//ajax.googleapis.com/ajax/libs/jqueryui/1/themes/redmond/jquery-ui.css" rel="stylesheet" type="text/css"/>
38
       <script src="https://code.jquery.com/jquery-latest.min.js" type="text/javascript"></script>
       <script src="_files/scripts/jquery.cycle2.js" type="text/javascript"></script>
40
       <script src="_files/scripts/custom.js" type="text/javascript"></script>
41
       <script src="_files/scripts/accordion-nav.js" type="text/javascript"></script>
42
       <script>
           $(function() {
       $( "#accordion" ).accordion();
48
       });
       </script>
48 <script src="https://www.google.com/jsapi" type="text/javascript"></script>
50 <script src="https://uwinnipeg.ca/ files/scripts/facebook-conversion-code.jg" type="text/javascript"></script>
       <noscript>
           <img height="1" src="https://www.facebook.com/tr?id=691550670905035&amp;ev=PageView&amp;noscript=1" style="display:none" width="1"/>
53
       </noscript>
57 </head>
58 <body class="home">
50 <header id="topBar"><div class="layoutBlock"><a href="index.html" id="siteLogo">University of Winnipeg</a> <a href="#search" id="siteSearchLink">Search</a>
60 <div id="mobileNavLink">
61 <div></div>
```

C 88 view-source:https://www.uwinnipeg.ca

## Naming Conventions

- About the file name
  - Be consistent about .htm or .html
  - Case sensitivity
  - Simple file names with only letters and numbers.
- Remember to save your file as a text file (on both PCs and Macs)

## Preview of You HTML Work

- No need to upload the file to be able to preview in the browser
  - "Use "open" from "File" menu in your browser.
  - **Example**
  - If the file is already opened in the web browse then just a "refresh/reload" is enough

### **HTML Document Format**

AN HTML element or tag is a command used to tell the browser how to display content on a page.

```
<em> Reminder: </em>
```

■ Tags are placed within brackets (< >).

\*\*Example: creates paragraphs, creates list items, and <br/> adds a line break.

# Types of Tags

#### Document Setup

Elements in this category include those necessary to set up a basic HTML page – html, head, title, ...

#### Text-Level Semantics

These elements help the browser understand the meaning behind bits of text content – fonts, ...

#### Sectioning

Elements used to section large chunks of content and divide up the page belong in this category – div, header,

#### Grouping

Elements used to section smaller chunks of content, like lists and paragraphs, fall into this category

# Types of Tags

#### Embedding

Often times, we need to embed content from other sources into a web page – image, vidoe, audio, ...

#### Tables

The elements that are used for managing tabular data

#### Forms

Any element used in the development of a web form falls into this category

# Types of Tags

- "Opening" and "Closing" tags.
  - ^d as an opening tag: to signify
    where to start a paragraph
  - Closing tag: to signify where the paragraph ends
    - The same tag with a forward slash placed before it:
  - Not all tags in HTML5 are required to have both opening and closing tags.

    They are called "empty" if just one tag

# Table 2-1: Basic HTML Page Tags

Opening Tag	Closing Tag	Description
!DOCTYPE	n/a	-Tells the browser about the standards used in your page.
<html></html>		-Frames the entire HTML page.
<head></head>		-Frames the identification information for the page, such as title, that is transferred to the browser and search engines.
<body></body>		-Frames the content of the page.
<title>&lt;/td&gt;&lt;td&gt;</title>	-Gives the name of the page that will appear at the top of browser window Is contained within <head> and </head> .	

#### Attribute

- Many tags have additional aspects that you can customize. These options are called attributes
- Attributes are placed after the element name but before the final bracket

```
<img src= "mypicture.jpg" width="100" height="100" alt="A photo of
me">
```

- Base element is img: insert an image at this spot
- The attributes are: src, width, height, alt
- Each attribute has a value, which comes after = sign and is placed within quotation marks

## Attributes - Cont'

- Multiple attributes can be included in a single tag
- Only add the attributes to the opening tag, and then close this opening tag (NO attributes in closing tag)
- img tag doesn't have a separate closing tag
  - This is referred to as being "empty"
  - In early version of HTML, to close tags without separate closing versions, simply place a forward slash(/) before the final bracket
    - This is not required in HTML5, but good for stricter validation (like XML parser)

### HTML Document

- There is a head and a body
  - Head: <head>the header</head>
    - contains information about the document like title, keywords for search engine, etc
  - \*Body: <body>the body</body>
    - contains the content of the web page
    - tells the browser how to display it
  - Body is always placed after the head element

# Required tags - Example

```
<!DOCTYPE html PUBLIC "-//w3c//DTD XHTML 1.0</pre>
  Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/transitional.dtd">
<html>
 <head>
  <title> My First HTML page</title>
 </head>
 <body>
  This is a very basic HTML page.
 </body>
</html>
```

## !DOCTYPE

# The !DOCTYPE tag: tells which version of HTML is used in the document

≦In HTML 4.01

- ■XHTML Transitional: for documents that combine old and new HTML code
- ■XHTML Strict: for documents that only use new code
- ■XHTML Frameset: for documents containing frames
- Now it's much simpler for HTML5 − just use "html" for <!DOCTYPE>

<!DOCTYPE html>

# Required tags - Example

```
*So now the previous HTML code becomes:
<!DOCTYPE html>
<html>
 <head>
  <title> My First HTML page</title>
 </head>
 <body>
  This is a very basic HTML page.
 </body>
</html>
```

## About the Tag

- In earlier days HTML was case insensitive
- HTML4 became case sensitive and requires all tags to be lowercase
  - All values for attributes must be placed within quotation marks

The value of the attribute

- Now in HTML5, it's case insensitive again
  - To keep backward compatible it's still recommended to use lower case for all the tags
    - as well as the quotation marks

# Nesting

Containing one HTML tag inside another

```
<strong> This text is bold and
```

<em>italic</em></strong>

The em tag is nested within strong tag

Proper way and improper way to nest tags:

```
<strong> <em>These tags are nested
properly.</em></strong>
```

<strong> <em>These tags are not nested properly.</strong>
.</em>

# Spacing and Break

- Two places within an HTML file to add breaks:
  - In between tags (as well as their components) -- to help you differentiate between sections of the page.
  - In between lines of text within the body of the page.

# Spacing and Breaks

```
<html>
  <head>
     <title>My first web page</title>
     </head>
     The title tag is indented to show it is contained or nested within the head tag.
```

# Spacing Between Lines of Text

```
<!DOCTYPE html>
<html>
 <head>
  <title> My first web page</title>
 </head>
 <body>
  Welcome.
  Thank you for visiting my first web page. I have several other
  pages that you might be interested in.
 </body>
</html>
```

# Spacing Between Lines of Text

To make those line breaks appear, you have to use a tag to tell the browser to insert a line break.

# Spacing Between Lines of Text Cont'

So to display the blank line it should be in this way:

- Welcome
  - Thank you for visiting my first web page. I have several other pages that you might be interested in
- HTML can not recognize extra space either To put more than one space between words, you must use style sheets or special characters

# **Special Characters**

Character	Numbered Entity	Named Entity
u	"	"
&	&	&
(nonbreaking space)		
©	©	©
®	®	®
é	é	é
<	<	<
>	>	>

Appendix D: full list

### Comments

■ To leave comments or notes that you don't want the visitors of your web site see (e.g. Reminders to yourself):

<!--Remember to update this page after the new product becomes available.</p>

**Space**