

Purposefully different,

consistently excellent

Welcome to EEN1037: Web Applications Development

HTML Hyper Text Markup Language

Week 1

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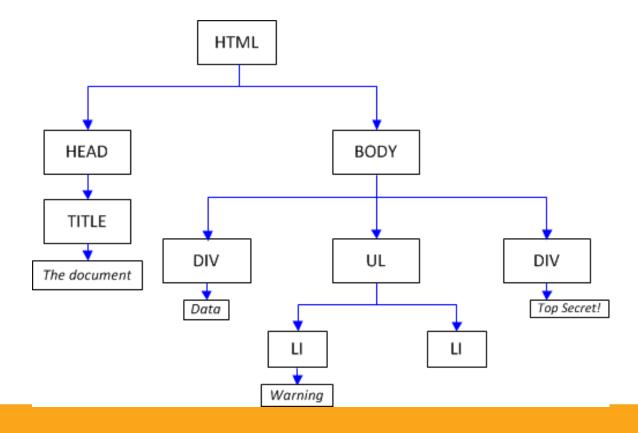
HTML (4.0)

- -Web pages received and interpreted by web clients (or browsers) are written in HTML
- -Plain text and platform-independent
- -Extensions: .html, .htm
- -Can use any editor (notepad, wordpad, specific editors)
- -Online html editors e.g. https://www.w3schools.com/html/tryit.asp?filename=tr yhtml_basic



HTML DOM

-Defines a standard for accessing and manipulating HTML documents

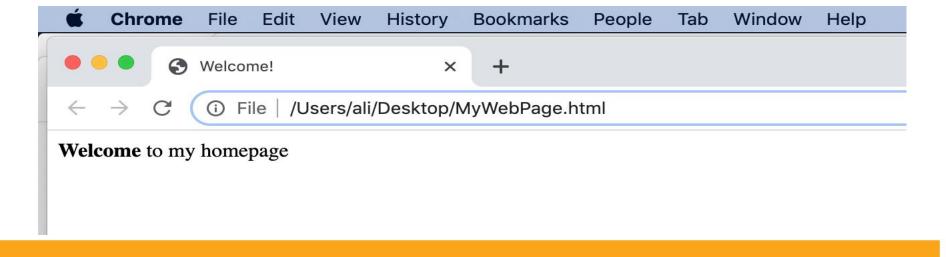




Correct HTML file

Doctype specifies which version of HTML the website is using





Start and end tags



- Tag is a basic HTML concept
- Correct HTML file consists of *properly nested* tags and text.

Elements

</html>

- We can look at each Tag as an object.
- A HTML file is an <HTML> object, consisting of a <HEAD> and a <BODY> object



Attributes

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 transitional//EN">
<html>
                                              An element may have
 <head>
                                               attributes, describing
               <title>Welcome!</title>
                                              the property of that
                                              element
 </head>
 <body>
                                            Attribute of the
               <b>Welcome</b> to my home
                                               element <img>
               <img src="photo.jpg">
               Go to
               <a href="mccs390.html">MCCS390</a>
               homepage.
                                      Attribute of the
  </body>
                                         element <a>
```



</html>

Empty-element tag

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0
 transitional//EN">
<html>
 <head>
              <title>Welcome!</title>
 </head>
                                                Some tags don't have an
                                                end tag. This is not
 <body>
                                                 considered an error in
              <b>b>Welcome</b> to my homepage.
                                                HTML (in XML it would
              <img src="photo.jpg">
                                                be an error!)
              Go to
              <a href="mccs390.html">MCCS390</a>
              homepage.
 </body>
```



</html>

Special Characters < >

1 < 2 and

3 > 2

</body>

The characters '<' and '>' (and a few other's are reserved by HTML. To use them, you need to use the alias.



1https://www.w3schools.com/html/html_entities.asp

Comments

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 transitional//EN">
<html>
  <head>
                <title>Welcome!</title>
  </head>
  <body>
                                            Comments are not part of
                1 < 2 and
                                            the HTML content, and they
                                            are delimited by <!- and -->
               3 > 2
                <!-- comment is written like this -->
  </body>
</html>
```



Basic HTML Tags

- -Basic structure: p, br, hr, h1, h2
- -Text formatting: I, b, font
- -Image: img
- -Hyperlink: a
- -List: ul, li, ol
- -Table: table, tr, th, td (more on the hands-on)



Basic Text

```
<body>
          Welcome to my homepage 
         <br/>br>
               Line break
         You can find my email at the
bottom of this page
                      The end tag
</body>
                      can be omitted
```



Text formatting

```
<body>
          This text is <b> bold </b> and <i>
italics </i>
         There is also a <font size="+1"
color="red" face="Arial"> more general
formatting tag </font>.
          </body>
```



Image

<body>

Text shown in tips box and when image is missing.

Here is a photo of myself.

</body>

. . .

URL of the image file

> Some attributes have been deprecated in future version (and in HTML5). Check http://www.w3schools.com/tags/tag_img.asp



Hyperlinks

```
cbody>
    Please review the <a href="tutorial.html"> HTML
tutorial </a>. In particular, read the <a
href="tutorial.html#anchor"> paragraph about anchor </a>
...
</body>
...

</body>

    tutorial.html
A hyperlink. When the click the text be <a> and </a>, to browser will junctions.
```

Ollscoil Chathair Bhaile Átha Cliath Dublin City University ... Anchor is
very important in HTML...

. . .

A hyperlink. When you click the text between <a> and , the browser will jump to the URL specified in the href attribute

Lists

• •

You should study the following:



ul- unordered list

li – list item

ol- ordered list

Let's try it

- -Run any web browser; Chrome, Firefox, Edge
- -Visit http://dcu.ie/
- -View source of the website:
 - Find the head tag, the body tag, a hyperlink in the source
- -Your first website?
 - Editor: any of your choice
 - Create simple html
 - Save it with an extension html or htm
 - Open it in the Web browser from your computer



Sources

-Definitions:

- http://www.webopedia.com/
- http://wikipedia.org/
- http://www.w3c.org/

-Images:

- http://google.com/
- -HTML (and other) tutorials
 - http://w3schools.com/

