# Web Programming

YJ – Aug 2015

## Course Outline

- ❖ L1 ~ Web programming intro
- ❖ L2 ~ HTML5
- **❖** L3 ~ CSS3
- L4 ~ JavaScripts
- ❖ L5 ~ PHP 1 Basic
- ♦ L6 ~ PHP 2 OO && Functions
- ❖ L7 ~ PHP 3 OO && Sessions
- ❖ L8 ~ PHP 4 Advanced features
- L9 ~ Mysql
- ❖ L10 ~ Mysql 2
- ❖ L11 ~ XML/JSON
- ❖ L12 ~ Ajax
- ❖ L13 ~ Framework: Bootstrap && Laravel
- ❖ L14 ~ CMS: Wordpress, Joomla, etc.
- ❖ L15 ~ Final Projects
- ❖ L16 ~ Final Projects

## HTML

- HTML, the Hypertext Markup Language is a high level set of rules that describe the content of web pages
- Markup languages define markup, or tags, that supply structural, presentational, and semantic information about the content of documents.
- Authors embed this markup in their documents to describe the document's characteristics.

## HIML Hello World

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0//EN"</pre>
  "http://www.w3.org/TR/REC-html40/strict.dtd">
<HTML>
  <HEAD>
    <TITLE>My first HTML document</TITLE>
   <META http-equiv= "Content-Type" content =</pre>
      "text/html; charset=iso-8859-1">
  </HEAD>
  <BODY>
                                               Document
    <P>Hello world!</P>
  </BODY>
</HTML>
```

### DTD

- ❖ The HTML document type definition (DTD) declares element types that represent structures or desired behaviour.
- HTML includes element types that represent paragraphs, hypertext links, lists, tables, images, and so on.
- ❖ Each element is declared in the HTML DTD. An element's name appears between the start tag (written <element-name>) and the end tag (written </element-name>).
- Note the slash before the element name in the end tag
- ❖ You can validate your code against the W3 standard here: https://validator.w3.org/

### DTD

### HTML 4

- ❖ Strict <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/REC-html40/strict.dtd">
- Loose/ Transitional
  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/REC-html40/ loose.dtd">

HTML5

<!DOCTYPE html>

### Meta

Meta tags don't do anything to the content that is presented in the browser window, but they are used by the likes of search engines to catalogue information about the web page.

```
<meta name="keywords" content="HTML, Meta Tags, Metadata" />
<meta name="description" content="Learning about Meta Tags." />
<meta name="revised" content="Tutorialspoint, 3/7/2014" />
<meta http-equiv="cookie" content="userid=xyz; expires=Wednesday, 08-Aug-15 23:59:59 GMT;"/>
<meta ame="author" content="Mahnaz Mohtashim" />
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
```

## HTML Elements

code col colgroup dd del dfn dir div dl dt em fieldset **Font** form frame frameset h1-h6 Head hr

html iframe img input ins Isindex kbd label legend li link map menu meta noframes Noscript object ol optgroup

option p param pre q S samp script select small span strike strong style sub sup table tbody td

textarea tfoot th thead title tr tt u ul var

## Div & Span

- They are used to group together a chunk of HTML and hook some information onto that chunk, most commonly with the attributes class and id to associate the element with a class or id CSS selector.
- The difference between span and div is that a span element is in-line and usually used for a small chunk of HTML inside a line (such as inside a paragraph) whereas a div (division) element is block-line (which is basically equivalent to having a line-break before and after it) and used to group larger chunks of code.

## Sections

```
<header>
       <h1>Alternatively&hellip;</h1>
       \[An introduction\]
   </header>
<nav id="main nav">
   <u1>
       <a href="/tutorials/">Tutorials</a>
       <a href="/reference/">Reference</a>
       <a href="/articles/">Articles</a>
       <a href="/about/">About us</a>
   </nav>
   <section id="main_content">
       (p)[Content]
<aside>
       <h2>Tixall Obelisk</h2>
       {p>[A short note about Tixall Obelisk]
   </aside>
   </section>
   <footer>
      [End notes]
   </footer>
</article>
<footer>
   [Copyright bumf]
</footer>
```

## BR/HR

```
<!DOCTYPE html>
<html>
<head>
 <title>My first web page</title>
</head>
<body>
Line 1: Hi, my name is John Gilson. <br/>
Line 2: This is my first attempt at a Web page.
<hr>
Line 3: Here is a riddle for you.
Line 4: <P>Why did the lobster blush?
<hr>
<hr>
</body>
</html>
```

## Size

```
<!DOCTYPE html>
<html>
<head>
 <title>salad recipe</title>
</head>
<body>
<h2 align="center">tossed salad</h2>
<h3 align="center"><em>simple and attractive</em></h3>
<hr>>
1 large bunch of greens, preferably mixed<br>
 10 cherry tomatoes quartered
<strong>dressing</strong><br>
 1/2 cup mayonnaise < br>
 2 tbsp. minced dill or sweet pickle<br/>
 1 tsp. prepared mustard<br>
 1/4 tsp. onion powder<br>
 1 tsp. granulated sugar<br/>
 1 tbsp. milk
<em>have greens ready in separate containers in refrigerator.</em>
<strong>dressing:</strong> combine all ingredients together in a small bowl.
 mix well. spoon over greens. toss to coat. add tomato and toss together
 lightly. <em>serves 8</em>
</body>
</html>
```

## List

```
<H2 ALIGN="CENTER">no dot list</H2><HR>
<h2 ALIGN="CENTER">number order list</h2>
                                                 <DL>
ul>
                                                  <DT>Winter
 To learn HTML
                                                  <DD>Write for maps and travel brochures
 >
                                                  <DD>Read camping books
   To show off
                                                  <DD>Prepare budget and equipment list
   To my boss
                                                  <DT>Spring
                                                  <DD>Visit camping shows
     To my friends
                                                  <DD>Buy essential items
     To my cat
     To the little talking duck in my brain
                                                  <DD>Make reservations
   <DT>Week Before Trip
                                                  <DD>Have vehicle serviced
 <DD>Vaccinate pets
 < ii>> Because I've fallen in love with my computer and
                                                  <DD>Buy traveler's cheques
want to give her some
                                                  <DD>Cancel newspaper and other deliveries
   HTML loving.
 <DT>Day before trip
                                                  <DD>Load vehicle
</DL>
```

## Table

```
Row 1, cell 1
  Row 1, cell 2
  Row 1, cell 3
 Row 2, cell 1
  Row 2, cell 2
  Row 2, cell 3
 Row 3, cell 1
  Row 3, cell 2
  Row 3, cell 3
 Row 4, cell 1
  Row 4, cell 2
  Row 4, cell 3
```

## Links & Images

- <a href="http://www.google.com">Google</a>
- <img src="./image/map.jpg" align="left" width="260" height="auto" border="0" hspace="20" alt="map">

## Audio & Video

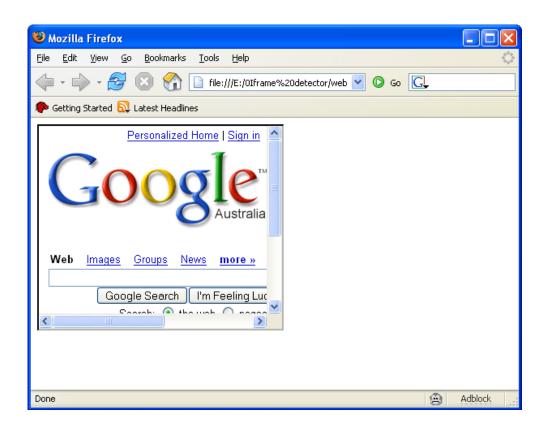
```
<audio src="meow_mix.mp3" controls>
    Your stupid browser doesn't support HTML 5 audio.
</audio>

<video src="kitties.mp4" poster="fluffy.jpg" width="300" height="200" loop muted autoplay controls></video>

<video controls>
    <source src="kitties.mp4" type="video/mp4; codecs='avc1, mp4a'">
        <source src="kitties.webm" type="video/webm; codecs='vp8.0, vorbis'">
        Browser no likey HTML 5.
</video>
```

## iFrame

<iframe src="http://www.baidu.com" width="800" height="400" style="border:5px dotted"></iframe>



# Form

Poor!

## HTML5 additional input

## Conditional Comments

❖ Conditional comments, which are nothing more than simple HTML comments that IE (up to version 9) happens to take a peep at, are used to throw a chunk of HTML at these browsers and only these browsers.

# Other tags

#### Abbreviations

abbr is used to markup an abbreviation, a shortened form of a word or phrase.

### Quotations

blockquote and q are used for quotations. blockquote is generally used for standalone often multi-line quotations whereas q is used for shorter, in-line quotations.

### Citations

Just to make things nice and confusing, as well as a cite attribute, there is also a cite tag. This can be used to define the title of a work, such as a book.

#### Code

code is used to represent any form of computer code. Further, var can be used for variables (which could be a variable in anything, not just in code - it could be a variable in an equation, for example), samp for sample output, and kbd (keyboard) for user input.

#### Mark

Text can be highlighted, as if with a marker pen, using mark

#### Time

by the datetime attribute, the value of which should be a machine-readable date and/or time.