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HTML & CSS – Design and build websites (book);

What is HTML used for? Hyper Text Markup Language

Structure of a web page – Text, lists, links, images, tables, forms, headings, etc. (FRONT END)

What is CSS used for?

Presentation and layout of a web page

TOOLS –

TextWrangler – plain text editor for Mac

Google Chrome – Multi-platform, standards –compliant web browser

- Allow you to edit, debug, and monitor HTML and CSS

WEB Standards – What are they?

-Technical specifications

- Developed by the W3C

WHY USE THEM?

- Reduce the cost and complexity of web development

Web standards also increase the accessibility and long-term viability of web sites.

The Web Standards Project campaigned for web standards.

INTRODUCTION TO HTML –

Main heading and important information appear

The information is expanded upon and may use subheadings

<html>

<body>

<h1>This is the Main Heading</h>

<p>This text might be an introduction to the rest of the page.</p>

<h2>This is a Sub-Heading</h2>

<p>Many long articles have sub-headings to help you follow the structure.</p>

A closer look at elements

<p> - OPENING TAG – PARAGRAPH TAG

</p> - CLOSING TAG – PARAGRAPH TAG

Attributes tell us more about elements

<a href = “http:google.com”>Google</a>

href – Attribute name

<http://google.com> - Attribute value

The evolution of HTML

HTML 4.01 – 1999 – Had some presentational elements

XHTML 1.0 – 2000 – Followed rules of XML – Presentational elements removed

HTML5 – Work in Progress – Not yet a W3C standard – Can be used today

HTML EXAMPLE:

<!DOCTYPE html> - Way that you are telling the browser what version of HTML you are using

<html lang =”en”> - Language attribute – the content of this web page is English

<head> - Information about the web page, things that don’t show up in the browser itself

<meta charset =”tuf-8”/> - Character set, to work on all browsers (Self closing)

<title>This is the Title of…</title>

</head>

<body>

<h1>This is the Body of the Page</h1>

<p>Anything within the body of a web page is displayed in the main browser window.</p>

</body>

</html>

Learning a list of elements

Learning how these elements are used

Either a heading or a paragraph NOT both

HTML pages are text documents….

Need to know what tags are available and where to put them.

Structural markup:

Tags describe content

Headings:

<h1>This is a Main Heading</h>

<h2> This is a level 2 heading</h2>

<h3> This is a level 3 heading</h3>

<h4> This is a level 4 heading</h4>

<h5> This is a level 5 heading</h5>

<h6> This is a level 6 heading</h6>

WHITESPACE IS IGNORED!!!!!!

Line breaks - <br /> - forces the browser to make a new line

INDENTION/TABBING

<ul>

<li>Mousses</li>

<li>Pastries

<ul>

<li>Croissant</li>

<li>Milles-feille</li>

COMMENTS <!-- - - >

<!—start of introduction - - >

<!—end of introduction - - >

<!--<a

href=<mailto:info@example.org>>Contact</a>

- - >

Nested elements should be indented in once, to aid in legibility and troubleshooting.

SEMANTIC MARKUP:

Structural

Semantic – Adding meaning to the page

What is it?

Elements that add semantic information, for example – The<em>tag adds emphasis

Why us it?

Provides extra information about your content

Application?

Screen readers can add emphasis to words in <em></em>

<strong></strong> - Strong emphasis

<p><strong>Beware</strong>

QUOTATIONS:

<blockquote A sentence or more

cite = <http://en.wikipedia.org/wiki/Winnite-the-Pooh>>

</blockquote>

abbreviations and acronyms

<abbr title=”Professor”>Prof</abbr>

escape characters/entities

<p>The &lt; html&gt; element</p>

<p>The &#60;html&#62; element</p> - less than and equal too

<p>&copy; 2013</p> - copyright

<p>&reg; 2013</p> - trademark

THREE LIST TYPES

1 – Ordered or numbered list (recipe) - <ol> - Ordered list <li> - puts the numbers

2 – Unordered or bulleted list (list of ingredients) - <ul> - Unordered list - <li> - puts bullets in

3 - Definition/Description list (Define terms) - <dl> - Definition list - <dt> -Definition term <dd> - Description

VALIDATION – ERRORS IN HTML

Inconsistent display

Slower load times

W3C Markup Validation service

* Highlights errors in your HTML
* <http://validator.w3.org>