

# CSE 154: Web Programming

## HTML “Cheat Sheet”

### Terminology

Term	Definition	Example
Tag	Make up the start and end of an element. Tags that contain content (other tags or text) have open/closing pairs. Tags that do not have content are almost always self-closing.	<code>&lt;p&gt;&lt;/p&gt;</code>
Element	The term to refer to the page element (tag(s) and any content).	<code>&lt;p&gt;</code> Content of a paragraph element. <code>&lt;/p&gt;</code>
Attribute	Defines a property for an element, consists of an attribute/value pair, and is defined within the element's start tag (or self-closing tag). An element's start tag may contain any number of space-separated attribute/value pairs.  Some attributes are “boolean” meaning they don't require a value (e.g. the <code>disabled</code> attribute for button elements)	<code>&lt;img src="pup.gif" alt="An adorable puppy."&gt;</code> <i>(src and alt are attributes)</i>  <code>&lt;button disabled&gt;</code> Click Me! <code>&lt;/button&gt;</code>
Semantic Tag	HTML elements that introduce meaning to the web page rather than just presentation.	Options include, but not limited to: <code>&lt;strong&gt;</code> <code>&lt;main&gt;</code> <code>&lt;section&gt;</code> <code>&lt;header&gt;</code> <code>&lt;blockquote&gt;</code> <code>&lt;code&gt;</code> <code>&lt;em&gt;</code>
Deprecated/ Presentational Tags	Tags that are discouraged to use and browsers may remove support for them in the future if they haven't already. Many are presentational tags originally used to control display without semantic value.	Options include, but not limited to: <code>&lt;center&gt;</code> <code>&lt;font&gt;</code> <code>&lt;b&gt;</code> <code>&lt;i&gt;</code> <code>&lt;u&gt;</code> <code>&lt;strike&gt;</code> <code>&lt;s&gt;</code> <code>&lt;applet&gt;</code>

## Tags Used in the <head> Section

Tag	Description
<code>&lt;title&gt; text &lt;/title&gt;</code>	title shown on page tab
<code>&lt;meta attribute="value" ... /&gt;</code>	page metadata
<code>&lt;link href="url" rel="stylesheet" /&gt;</code>	links to a CSS style sheet
<code>&lt;script src="url"&gt;&lt;/script&gt;</code>	link to JavaScript program
<code>&lt;!-- comments --&gt;</code>	comment (can appear in head or body)

## Tags Used in the <body> Section

Tag	Display	Description
<code>&lt;p&gt;text &lt;/p&gt;</code>	Block	paragraph
<code>&lt;h1&gt;text &lt;/h1&gt;</code> <code>&lt;h2&gt;text &lt;/h2&gt;</code> ... <code>&lt;h6&gt;text &lt;/h6&gt;</code>	Block	headings (h1 for top-level heading through h6 for six-level heading)
<code>&lt;hr /&gt;</code>	Block	horizontal rule (line)
<code>&lt;br /&gt;</code>	Inline	line break
<code>&lt;a href="path"&gt;text &lt;/a&gt;</code>	Block	anchor (link)
<code>&lt;img src="path" alt="description" /&gt;</code>	Inline-block	image
<code>&lt;em&gt;text&lt;/em&gt;</code>	Inline	emphasis (italic)
<code>&lt;strong&gt;text &lt;/strong&gt;</code>	Inline	strong emphasis (bold)
<code>&lt;ol&gt;</code> <code>&lt;li&gt;text &lt;/li&gt;</code> <code>&lt;li&gt;text &lt;/li&gt;</code> <code>&lt;li&gt;text</code> <code>&lt;ul&gt;</code> <code>&lt;li&gt;nested item text&lt;/li&gt;</code> <code>&lt;li&gt;nested item text&lt;/li&gt;</code> <code>&lt;/ul&gt;</code> <code>&lt;/li&gt;</code> <code>&lt;/ol&gt;</code>	Block	ordered (ol) and unordered (ul) list; list item (li)

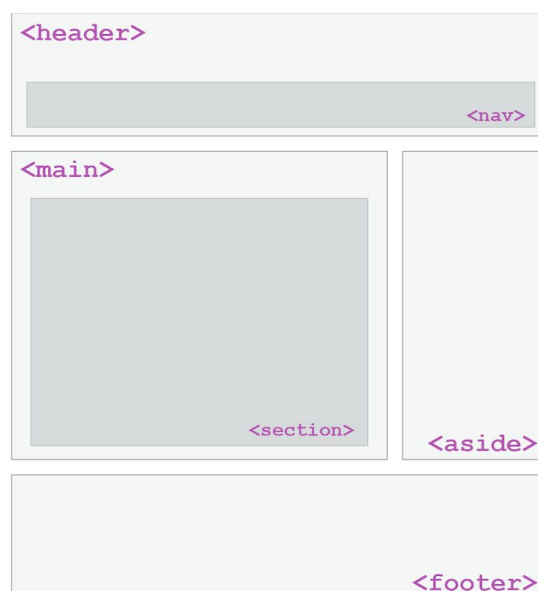
## Tags Used in the <body> Section (Continued)

Tag	Display	Description
<pre>&lt;blockquote&gt;   &lt;p&gt;text &lt;/p&gt; &lt;/blockquote&gt;</pre>	Block	block-level quotation (often contains a footer for citing an author)
<pre>&lt;q&gt;text &lt;/q&gt;</pre>	Inline	inline-level quotation
<pre>&lt;code&gt;text &lt;/code&gt;</pre>	Inline	computer code (monospace)
<pre>&lt;pre&gt;text &lt;/pre&gt;</pre>	Inline	pre-formatted <b>text</b> (preserves whitespace)
<pre>&lt;table&gt;   &lt;caption&gt;text &lt;/caption&gt;   &lt;tr&gt;     &lt;th&gt;heading 1 &lt;/th&gt;     &lt;th&gt;heading 2 &lt;/th&gt;   &lt;/tr&gt;   &lt;tr&gt;     &lt;td&gt; cell 1 &lt;/td&gt;     &lt;td&gt; cell 2 &lt;/td&gt;   &lt;/tr&gt;   ... &lt;/table&gt;</pre>	Block	table of data ( <b>table</b> ) description of table ( <b>caption</b> ) table row ( <b>tr</b> ) table heading cell ( <b>th</b> ) normal table cell ( <b>td</b> )
<pre>&lt;div&gt; ... &lt;/div&gt;</pre>	Block	block-level container of a page (should only be used for styling/layout purposes)
<pre>&lt;span&gt; ... &lt;/span&gt;</pre>	Inline	inline-level section of a page (should only be used for styling/layout purposes)

## HTML5 Semantic Grouping Tags (all block elements)

Tag	Description
<code>&lt;header&gt;</code>	Header of a page or another structural element
<code>&lt;main&gt;</code>	Main content of a page. The content inside should be unique to the document and <b>not</b> contain content that is shared across pages (e.g., website nav links, search bars, etc.)
<code>&lt;footer&gt;</code>	Footer of a page or another structural element
<code>&lt;article&gt;</code>	A standalone piece of content (e.g., entire blog post including title, author, etc.)
<code>&lt;section&gt;</code>	A piece of content that is part of another (e.g., a chapter section of a reading)
<code>&lt;aside&gt;</code>	Defines some content aside from the content it is placed in (e.g., a sidebar in an article)
<code>&lt;nav&gt;</code>	Navigational element, often containing links to navigate within/between pages

Some common layout examples:



## Common HTML UI Tags

Tag	Display	Description
<code>&lt;form&gt;</code> <b>content</b> <code>&lt;/form&gt;</code>	block	form element to group input elements, often for submitting data/information or specifying options for page application
<code>&lt;button&gt;</code> <b>content</b> <code>&lt;/button&gt;</code>	Inline	clickable button type can be submit, reset, button
<code>&lt;input type="type" name="name" /&gt;</code>	Inline	form element input tag type can be text, number, checkbox, radio, file, etc.
<code>&lt;textarea rows="num" cols="num"&gt;</code> <b>initial text</b> <code>&lt;/textarea&gt;</code>	Inline	multi-line <b>text</b> input box
<code>&lt;label&gt;text &lt;/label&gt;</code>	Inline	clickable <b>text</b> label around a form control
<code>&lt;select&gt;</code> <code>&lt;option&gt;text &lt;/option&gt;</code> <code>&lt;optgroup label="text"&gt;</code> <code>&lt;option&gt;text &lt;/option&gt;</code> <code>&lt;option&gt;text &lt;/option&gt;</code> <code>&lt;/optgroup&gt;</code> ... <code>&lt;/select&gt;</code>	Inline	drop-down selection box (select); each option within the box (option); a labeled group of option (optgroup);
<code>&lt;fieldset&gt;</code> <code>&lt;legend&gt;text &lt;/legend&gt;</code> ... <code>&lt;/fieldset&gt;</code>	Block	a grouped set of form fields with a legend

## HTML Entities Reference

Result	Description	Entity Name
	non-breaking space	<code>&amp;nbsp;</code>
<code>&lt;</code>	less than	<code>&amp;lt;</code>
<code>@</code>	at symbol	<code>&amp;commat;</code>
<code>&gt;</code>	greater than	<code>&amp;gt;</code>
<code>&amp;</code>	ampersand	<code>&amp;amp;</code>
<code>©</code>	copyright	<code>&amp;copy;</code>