Web Programming Step by Step
HTML Syntax "Cheat Sheet"

HTML page structure (2.1.2)

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
     "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        information about the page
    </head>

    <body>
        page contents
    </body>
</html>
```

Tag syntax

```
<element attribute="value" ... attribute="value">
    content
</element>

<element attribute="value" ... attribute="value" />      <!-- self-closing tag -->
```

Tags used in the `head` section

Tag	Type	Description
`<title>` **text** `</title>`		page title bar text (in `head` section)
`<meta` **attribute**="**value**" ... `/>`		page metadata (in `head` section)
`<link href="`**url**`" type="`**MIME type**`"` `    rel="`**description**`" />`		links to other files, such as CSS style sheets, favorites icons, etc. (in `head` section) MIME type is e.g. `"text/css"`, `"image/gif"`, `"image/png"`, `"image/jpg"`...

`<style type="text/css">`
    CSS content
`</style>`
		CSS style rules embedded in web page
		(in `head` section; don't do this. Use `link`)

`<script src="`**url**`"` `type="text/javascript"></script>`		link to JavaScript code (in `head` section)
`<!--` **comments** `-->`		comment (can appear in `head` or `body`)

Tags used in the `body` section

Tag	Type	Description
`<p>` **content** `</p>`	block	paragraph

`<h1>` **content** `</h1>`
`<h2>` **content** `</h2>`
`...`
`<h6>` **content** `</h6>`
	block	headings

`<hr />`	block	horizontal rule (line)
`<a href="`**url**`">` **content** `</a>`	inline	anchor (link)
`<img src="`**url**`" alt="`**description**`" />`	inline	image

` `	inline	line break
`<em>` **content** `</em>` `<strong>` **content** `</strong>`	inline	emphasis (italic) and strong emphasis (bold)

`<ol>`
    `<li>` **content** `</li>`
    `<li>` **content** `</li>`
    `<li>`
        `<ul>`
            `<li>` **nested item** `</li>`
            `<li>` **nested item** `</li>`
        `</ul>`
    `</li>`
`</ol>`
	block	ordered (`ol`) and unordered (`ul`) list;
		list item (`li`)

`<dl>`
    `<dt>` **term 1** `</dt>`
    `<dd>` **description 1** `</dd>`
    `<dt>` **term 2** `</dt>`
    `<dd>` **description 2** `</dd>`
`</dl>`
	block	definition list (`dl`);
		term (`dt`), and its description (`dd`)

`<blockquote>`
    `<p>` **content** `</p>`
    `...`
`</blockquote>`
	block	block-level quotation

`<q>` **content** `</q>`	inline	inline-level quotation
`<code>` **content** `</code>`	inline	computer code (monospaced font)

`<pre>`
content
`</pre>`
	block	pre-formatted text (preserves whitespace)

`<table>`
    `<caption>` **text** `</caption>`
    `<tr>`
        `<th>` **heading 1** `</th>`
        `<th>` **heading 2** `</th>`
    `</tr>`
    `<tr>`
        `<td>` **cell 1** `</td>`
        `<td>` **cell 2** `</td>`
    `</tr>`
    `...`
`</table>`
	block	table of data (`table`);
		description of table (`caption`);
		table row (`tr`);
		table heading cell (`th`);
		normal table cell (`td`)

`<div>` **content** `</div>`	block	block-level section of a page
`<span>` **content** `</span>`	inline	inline section of a page

Character entities (2.2.4)

Character	Entity
<	`<`
>	`>`
&	`&`
"	`"`

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Tags for HTML forms (6.1

`<form action="`**`url`**`" method="`**`get or post`**`">`
    content
`</form>`
	block	HTML form of data

`<input type="`**`type`**`" name="`**`name`**`" ... />`	inline	form input data control; `input` attributes: • `type` can be `text`, `submit`, `reset`, `checkbox`, `radio`, `file`, `hidden` • `checked="checked"` (on a checkbox/ radio button to be initially checked) • `size="`**`num`**`"` • `maxlength="`**`num`**`"`(how many chars can be typed) • `disabled="disabled"` • `readonly="readonly"`

`<textarea rows="`**`num`**`" cols="`**`num`**`">`
initial text
`</textarea>`
	inline	multi-line text input box

`<label>` **content** `</label>`	inline	clickable text label around a form control

`<select>`
    `<option>` **content** `</option>`
    `<option>` **content** `</option>`
    `<optgroup label="`**`text`**`">`
        `<option>` **content** `</option>`
        `<option>` **content** `</option>`
    `</optgroup>`
    `...`
`</select>`
	inline	drop-down selection box (`select`);
		each option within the box (`option`);
		a labeled group of options (`optgroup`);
		
		`select` optional attributes:
		• `size="`**`num`**`"`
		• `multiple="multiple"`
		`option` optional attributes:
		• `selected="selected"`

`<fieldset>`
    `<legend>` **text** `</legend>`
    content
`</fieldset>`
	block	a grouped set of form fields