

# Web development workshop

HTML Quick Reference	
Basic Page Structure	
<pre>&lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;title&gt;My First HTML Page&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;h1&gt;Welcome!&lt;/h1&gt; &lt;p&gt;Paragraph&lt;/p&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>&lt;!DOCTYPE html&gt; Defines the HTML version used in the document. In this case it is HTML5.</p> <p>&lt;html&gt; Marks the beginning and the end of the webpage.</p> <p>&lt;head&gt; Contains elements that are not part of the webpage shown in the browser window. It mainly contains information about the HTML document, called metadata.</p> <p>&lt;title&gt; Specifies text that appears in the title bar of the web browser opening the page.</p> <p>&lt;body&gt; Includes contents that are visible in the main window of a web browser.</p>
<p><b>Heading: HTML heading elements are created using &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, &lt;h4&gt;, &lt;h5&gt; and &lt;h6&gt; . Each heading requires a matching closing tag and should only contain heading text. Typically, the heading's font size and weight will reflect its importance, but headings also help readers quickly skim through a document by navigating its headings.</b></p> <p><b>&lt;h1&gt; My First Web Page &lt;/h1&gt;</b></p>	
<p><b>Paragraph: Paragraphs are contained within &lt;p&gt; and &lt;/p&gt; tags. Each paragraph element is visually separated from the next one by the browser - typically leaving two empty lines between them.</b></p> <p><b>&lt;p&gt;This is a paragraph.&lt;/p&gt;</b></p>	
<p><b>Single Line Break: &lt;br&gt; tag is used to provide a single line break between html elements.</b></p>	
<p><b>Horizontal rule: &lt;hr&gt; tag can be inserted between html elements to draw a line separating them.</b></p> <p>The &lt;hr&gt; tag and &lt;br&gt; tag are both single tags that need no matching closing tag.</p>	
<p><b>HTML Link: In Web terms, a hyperlink is a reference (an address) to a resource on the Web. Hyperlinks can point to any resource on the Web: an HTML page, an image, a sound file, a movie, and so on.</b></p> <p><b>&lt;a href="lastpage.htm"&gt; This text&lt;/a&gt; is a link to a page on this Web site.</b></p> <p><b>&lt;a href="https://www.google.com"&gt; Google &lt;/a&gt; is a link to a page on the World Wide Web.</b></p> <p><b>Opening in a new window: &lt;a href="lastpage.htm" target="_blank"&gt;Last Page&lt;/a&gt;</b></p> <p><b>Mail link: &lt;a href="mailto:myfriend@gmail.com?subject=Hello!"&gt;</b></p> <p><b>Image Link: &lt;a href="default.htm"&gt;&lt;img src="html.jpeg" alt="HTML tutorial" width="100" height="142" /&gt;</b></p> <p><b>&lt;/a&gt;</b></p>	
<p><b>Image Tag: To add an image to a page, use the image tag. Image tags (img) do not have closing tags. The two main attributes you give to the</b></p>	

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**img tag** are **src**, the image source and **alt**, which is alternative text describing the image.

```

```

### Text Formatting:

- **<b>** - Bold text **<strong>** - Important text
- **<i>** - Italic text **<em>** - Emphasized text
- **<mark>** - Marked text **<small>** - Smaller text
- **<del>** - Deleted text **<ins>** - Inserted text
- **<sub>** - Subscript text **<sup>** - Superscript text
- **<br>** - Inserts a single line break
- **<hr>** - horizontal rule or sectional break
- **<code>** - Used for program code samples
- **<blockquote>** - produces a rectangular block area to contain the quotation.
- **<strong>** - used for increased importance bold font.
- **<em>** - used for emphasize text.
- **<small>** - used for a smaller font.
- **<del>** - to indicate removed content from the document.
- **<ins>** - used to indicate new additional information.
- **<pre>** - Defines pre-formatted text.
- **<mark>** - To mark or highlight text in a document.
- **<abbr>** - expression as an abbreviation.
- **<sup>** - superscript.
- **<sub>** - subscript.

**Table:** Table cells can span multiple columns or rows using the **colspan** and **rowspan** attributes. These attributes can be applied to **<th>** and **<td>** elements.

```
<table>
  <tr>
    <td>Name</td>
    <td>Class</td>
    <td>Age</td>
  </tr>
</table>
```

### Unordered List:

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

The type attribute of the **<ol>** tag, defines the type of the list item marker:

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```
<ol type="1/A/a/l/i">
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

### Ordered List:

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

The CSS list-style-type property is used to define the style of the list item marker.

```
<ul style="list-style-type:disc/circle/square/none;">
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

### Form Elements:

```
<form action="action_page.php" enctype="multipart/form-data" method="post" >
<fieldset>
<legend>Name field set:</legend>
<label>First name:</label>
<input type="text" name="fname"
  placeholder="Enter your First name" autofocus><br><br>
<label>Last name:</label>
<input type="text" name="lname" value="krishna"><br><br>
</fieldset><br>
<label>Age:</label>
<input type="number " name="age" min="15" max="20"><br>
<label>Height:</label>
<input type="range" name="range" min="0" max="200" value="170"><br>
<label>Mail Id:</label>
<input type="email" name="mail" required><br>
<label>Date of Dirth:</label>
<input name="dob" type="date"><br>
<label>Search:</label>
<input type="search" name="search"><br>
<label>Select your hobbies:</label>
<select name="hobby">
<option value="1">Book reading</option>
<option value="2">Playing Cricket</option>
<option value="3">Chess</option>
```

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```
<option value="4">Web design</option>
</select><br>

<p>Send details:
<input type="checkbox" name="Send" value="Details">
Send prices:
<input type="checkbox" name="Send" value="Prices"></p>
<fieldset>
<legend>What kind of language is HTML?</legend>
Scripting <input type="radio" name="Definition" value="Scripting"><br>
Markup <input type="radio" name="Definition" value="Markup"><br>
Programming <input type="radio" name="Definition" value="Programming"
checked>
</fieldset>
<label>Upload Image:</label>
<input type="file" name="Upload" size="70" ><br>

<label>Enter password:</label>
<input type="password" name="Pwd"><br>
<label>Remarks:</label>
<textarea name="remarks" rows="8" cols="70">
</textarea><br>

<input type="reset" value="Reset Form">
<input type="button" value="Choose For Me">
<input type="submit" value="Submit Form" >

<label>Image Button:</label>
<input type="image" src="ibutton.png" alt="Submit Button" title="Click to submit
form">
<label>Logo:</label>
<button type="reset">Reset</button>
</form>
```

### HTML character objects: To include that special character in your HTML file.

Character	Numeric ref.	Named ref.
space	&#160;	&nbsp;
& ampersand	&#38;	&amp;
<	&#60;	&lt;
>	&#62;	&gt;
§ section	&#167;	&sect;
©	&#169;	&copy;

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®	&#174;	&reg;
<p><b>Adding Comments: Web browsers ignore comments and do not display them. Hence, you can use them to store remarks or statements. Comments are indicated by the comment tag &lt;!-- and --&gt;</b></p> <p>&lt;!-- This page last updated 22/06/2020&gt;</p>		
width (min-width, max-width)	<p style="width:25%;">	
Height(min-height, max-height)	<p style="height:25%;">	
Semantic elements	article, aside, footer, header, nav, section	
Audio	<audio controls> <source src="file.mp3" type="audio/mpeg"></audio>	
Video	<video width="500" height="700" controls> <source src="video.mp4" type="video/mp4"></video>	
<p><b>Adding Meta data: Meta information is simply data that describes other data. In the context of HTML, document metadata describes the document itself - rather than the document's contents.</b></p>		
<p><b>Character encoding: (UTF-8 is a popular 8-bit Unicode Transformation Format)</b></p>		
<meta charset="UTF-8">		
<p><b>Meta data view port: This will ensure your document will fill the device screen width and sets the initial zoom level so the content is not zoomed. To match device screen width and zooming</b></p>		
<meta name="viewport" content="width=device-width, initial-scale=1">		
<p><b>Page redirecting: Redirects the browser to a new web page after a specified number of seconds.</b></p>		
<meta http-equiv="refresh" content="5 ; url='new-page.html'">		
<p><b>Description meta data: To add description of the page contents. Provides information that may be used by search engines.</b></p>		
<meta name="description" content="Explore our extensive range of high quality italian ceramics including tuscan majolica, dinnerwares, vases, plates, and bowls">		
<p><b>Nesting: The term nesting refers to the process of containing one HTML tag inside another.</b></p>		
<strong>This text is bold and <em>italic</em></strong>		
<b>CSS Quick Reference</b>		
Inline Styling	<h1 style="color:blue;text-align:center;">This is a heading</h1> <p style="color:red;">This is a paragraph.</p>	
Internal Styling	<style> body { background-color: linen; }	

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	<pre>h1 {   color: maroon;   margin-left: 40px; } &lt;/style&gt;</pre>
External Stylesheets	<code>&lt;link rel="stylesheet" href="mystyle.css"&gt;</code>
Colors	<pre>&lt;h1 style="background-color:DodgerBlue;"&gt;Hello World&lt;/h1&gt; &lt;h1 style="color:Tomato;"&gt;Hello World&lt;/h1&gt; &lt;h1 style="border:2px solid Tomato;"&gt;Hello World&lt;/h1&gt; &lt;h1 style="color:rgb(255, 99, 71);"&gt;...&lt;/h1&gt; &lt;h1 style="color:#ff6347;"&gt;...&lt;/h1&gt;</pre>
Backgrounds	<pre>background-color: lightblue; opacity: 0.3; background-image: url("paper.gif"); background-repeat: repeat-x/norepeat/repeat-y; background-attachment: fixed/scroll;</pre>
Margin	<code>margin: 25px 50px 75px 100px;Top,right,bottom,left</code>
Padding	<code>padding: 25px 50px 75px 100px;</code>
Fonts	<pre>&lt;h1 style="font-family: georgia,garamond,serif;"&gt; &lt;h1 style="font-style: italic/normal/oblique;"&gt; &lt;h1 style="font-variant: small-caps/normal;"&gt; &lt;h1 style="font-weight: bold/normal/900;"&gt; &lt;h1 style="font-size:20px;"&gt;</pre>
Text	<pre>&lt;h1 style="color:red;"&gt; &lt;h1 style="direction: ltr rtl initial inherit;"&gt; &lt;h1 style="letter-spacing:5px;"&gt; &lt;h1 style="word-spacing:5px;"&gt; &lt;h1 style="text-indent:15px;"&gt; &lt;h1 style="text-align:center/left/right/justify;"&gt; &lt;h1 style="text-decoration: underline/overline/line- through;"&gt; &lt;h1 style="text-transform: uppercase/lowercase/capitalize;"&gt; &lt;h1 style="white-space: pre/normal/nowrap;"&gt; &lt;h1 style="text-shadow: 4px 8px 8px red;"&gt;</pre>
Pseudo-element	<pre>:first-line :first-letter :before :after :selection</pre>
Borders	<pre>&lt;p style="border-width:4px; border-style: solid;"&gt; &lt;p style="border-width:4px; border-style: dashed;"&gt; &lt;p style="border-color: green;"&gt;</pre>

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	Shorthand: <p style="border:4px solid red;">
Hyper links	<pre>a:link {   background-color: yellow; } a:visited {   background-color: cyan; } a:hover {   background-color: lightgreen; } a:active {   background-color: hotpink; }</pre>