



HTML Code

HTML-5 Document Structure

```
<!DOCTYPE html>
<html>

<head>
<title>Title of the document</title>
</head>

<body>
the content of the document.....
</body>

</html>
```

DOCUMENT

CONTAINER TAGS (see some used above)

<html> and </html>	-----	Encompasses all code
<head> and </head>	-----	Sits between <html> tags. Encompasses <title>, <meta> and <link>
<title> and </title>	-----	<title>Title of My Page</title>
<body> and </body>	-----	Sits between <html> tags, and below <head> tags. Encompasses all visible document content.
and	-----	To add structure to page (nav. Bars, body, and footer sections)

STAND ALONE NON-EMPTY TAGS

<!-- and -->	-----	Comment
<?--and -->	-----	Declaration
<meta/>	-----	Specifies info about doc.
<link/>	-----	Links to a CSS document
	-----	Horizontal rule

EMPTY ELEMENTS

 	-----	Line break
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ATTRIBUTES (define elements)

<html> xmlns	-----	XML namespace
<html> lang	-----	Language
<div> id	-----	<div id="sidebar"><image tag here></div> (use external style sheet to define formatting for the sidebar)

<meta/> http-equiv	<meta http-equiv="Content-Type" ...
<meta/> content	...Type" content="text/html"/>
<meta/> name	<meta name="keywords" content="keyword1 keyword2"/>
<meta/> charset	<meta charset="utf-8"/>
<link/> rel	<link rel="stylesheet" ...
<link/> type	...stylesheet" type="text/css" ...
<link/> href	...css" href="directory/filename.css" ...
<link/> title	...css" title="stylesheet"/>
<body> background	<body background="tiledimage.jpg">
<body> bgcolor	<body bgcolor="white"> or <body bgcolor="#FFFFFF">
<body> text	<body text="red"> (color of all text on page)
<body> alink	<body alink="blue"> (color of link w/mouse pressed)
<body> link	<body link="yellow"> (color of unvisited links)
<body> vlink	<body link="green"> (color of visited links)
size	<hr size="4"/> (amount of pixels)
width	<hr size="4" width="60%" /> (percentage of screen, or pixels)
align	<hr size="4" width="60%" align="left"/> (left, right, or center)
noshade	<hr size="4" width="60%" align="left" noshade="noshade"
	<i>**this attribute deprecated – not allowed in XHTML (use css)</i>
Style	(syntax) style="property: value" style=text-align: left"

PROPERTIES (of a style)

Background color ⁵	<body style="background-color: #c0c0c0" ...
Background image ⁶	syntax = "background: url (src) ...color:#c0c0c0; background: url(images/src.gif) ...
Background repeat ¹	...src.gif); background-repeat: no-repeat" ...
Background attachment (scroll or fixed)	...no-repeat; background-attachment: fixed" ...
Background position ²	...fixed; background-position: left">
OR/ Background	<body style="background: url (images/src.gif); color: #c0c0c0; no-repeat; fixed; left">

TEXT

CONTAINER TAGS

<cite> and </cite>	Results display in <i>italic text</i> .
<blockquote> and </blockquote>	Indents a block of text
and	Aligns selected text using align attribute
and	Heading - from biggest to smallest: h1; h2; h3; h4; h5; h6
and	Specifies font info for a piece of text
and	Paragraph <p style="text-align: center; font-size: 18pt">
 and 	Strong Text (bold Text)
 and 	bold Text
<big> and </big>	Big Text
 and 	<i>Emphasized Text (Italic Text)</i>
<i> and </i>	<i>Italic Text</i>
and	Small Text
<tt> and </tt>	Teletype or Monospaced text. Each character uses same space.
<pre> and </pre> ¹⁶	Preformat; Monospaced Text.
<u> and </u>	<u>Underlined Text</u>

<strike> and </strike>	Text with strike
_{and}	Text _{Subscript}
^{and}	Text ^{Superscript}
 and 	Used as a marker to provide formatting to part of a web page. text text

ATTRIBUTES (define elements)

Style	(syntax) style="property:value" style="text-align: left"
(<div>) align	text or image
() size	Text text
() color	..."7" color="blue">Text text
() face	..."blue" face="arial">Text text

PROPERTIES (of a style within a paragraph)

Align text	<p style="text-align: center" ... (by default, text aligns to left)
Font ³	...center; font-family: arial, helvetica, sans-serif" ...
Font size ⁴	...serif; font-size: 18pt" ...
Font color ⁵	...: 18pt; color: blue" ...
Font weight	...color: blue; font-weight: bold" ...
Float (left or right)	<body style="float: right">
Clear ⁹ (of floating elements)	...font-weight: bold; clear: right">text text text</p>

IMAGES

STAND ALONE NON-EMPTY TAGS

 (image)	
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ATTRIBUTES (define elements)

Size	size="x" (a number of pixels) (x = the value)
Width	width="x" (a number of pixels, or % of screen)
Height	height="x" (a number of pixels)
Hspace	hspace="x" (aligns image horizontally)
Vspace	vspace="x" (aligns image vertically)
Style	(syntax) style="property:value" style="text-align: left"
Source (src)	
Alternative text (alt)	
Align ¹⁷	Aligns image relative to text (syntax) **align attribute of img deprecated for XHTML. Ok to use, but prefer CSS

PROPERTIES (of a style)

Border ⁷	syntax = border: "width style color" ...8</sup>	...orange; float: right" ...
Margin ¹⁰	...float: right; margin: 0 0 5px 20px" />	
OR/ Border	...alt="child" style="border: 5px; ridge; orange; float: right; margin: 0 0 5px 20px" />	

HYPERLINKS

CONTAINER TAGS

<a> and (anchor) ----- syntax = Text or Item

ATTRIBUTES (define elements)

href (Link to another page) ----- Text
target (How link will open) ¹¹ ----- ..."url.htm" target="_blank">Text
href (Link to anchor on same page) ----- text/image linking to targetArea1
href (Link to anchor on another page) ----- link text or image
name (anchor on same page) ----- target anchor text or image
or - <h1>text or image</h1>
Id (using heading as anchor) ----- or - <h1 id="targetArea1">text or image</h1>

PROPERTIES (of a link)

Link to email (mailto) ----- Send us your comments
Link to a document ----- Local Accommodations

TABLES

CONTAINER TAGS

<table> and </table> ----- Defines the beginning and end of a **table**.
<caption> and </caption> ----- Displays descriptive info about the table. Follows opening <table> tag.
<tr> and </tr> ----- Defines the beginning and end of a **table row**.
<th> and </th> ----- Defines beginning and end of a table **heading within a table row**.
<td> and </td> ----- Defines the beginning and end of a **table cell within a table row**.
Empty cell ----- Use a nonbreaking space: <td> </td>

ATTRIBUTES

<table> style ----- <table style="properties" ...
<table> border ----- ...properties" border="2" ... (in pixels)
<table> cellpadding ----- ..."2" cellpadding="5" ... (in pixels)
<table> cellspacing (pixels) ----- ..."5" cellpadding="5" ... (in pixels)
<table> align ----- ..."5" align="center" ... (Deprecated in favor of styles or sheets)
<table> width ----- ...center" width="50%"> (in pixels or %)
<caption> Summary ----- <caption summary="This table lists all of the available..." ...
<tr> style ----- <tr style="properties" ...
<tr> align (horizontally) ----- ...properties" align="right" ...
<tr> vertical align (valign) ----- ...right" valign="middle" ... (also: top; bottom; baseline)
<tr> background color (bgcolor) ----- ...middle" bgcolor="red"> (deprecated in favor of styles or sheets)
<td> align (content of cells) ----- <td align="center" ...
<td> vertical align (valign) ----- ...center" valign="baseline" ... (also: top, bottom, middle)
<td> rowspan (number of rows) ----- ...baseline" rowspan="2" ...
<td> colspan (number of columns)¹² ----- ...2" colspan="2" ...
<td> cell height ----- ...2" height="22" ...
<td> Cell width¹³ ----- ...22" width="150">data data data</td>

PROPERTIES (of a style within a table)

Float -----	<table style="float: left ... (left or right)
Margin ¹⁰ -----	...left; margin: 10px 0 10px 10px ...
Background color -----	...10px; background-color: blue ...
Border color ¹⁴ -----	...blue; border-color: green>

LISTS

CONTAINER TAGS

 and (ordered list- numerical order)

 and (unordered list – using bullets)

 and (List item)

```
<ol>
  <li>first item</li>
  <li>second item</li>
  <li>third item</li>
</ol>
```

<dl> and </dl> (Definition list. Names and descriptions are set apart)

<dt> and </dt> (Term in a definition list)

<dd>and</dd> (Definition of a term in a definition list)

ATTRIBUTES

Style (change appearance of bullets & numbers) ---- <ul style ="property">

PROPERTIES

List-style-type¹⁵ ----- <ul style="list-style-type: circle">

FORMS

CONTAINER TAGS

<form>and </form> -----	Encompasses all form data
<select>and</select> -----	Used to create single-option and multiple-option select lists (drop-down lists)
<option>and</option> -----	Use with the Select element to create each list entry.
<textarea>and</textarea> -----	Used to create scrolling text fields.

STAND ALONE NON-EMPTY TAGS

<input/>----- Used to create text boxes, check boxes, radio buttons, password fields, file upload field & button, and Submit and Reset buttons.

ATTRIBUTES

(<form>) method ¹⁸ -----	<form method="post" ... (values: post or get)
(<form>) action ¹⁹ -----	...post" action="http://www.anyserver.com/cgi-bin/scriptfile">
(<select>) name -----	How often do you want to receive updates? <select name="frequency">

<option> value -----	<option> Once a week</option>
<select> multiple -----	<option> Once a month</option>
	<option value="remove">Never</option>
	What countries have you worked in?
	<select name="countries" multiple="multiple" ...
	<option>UK</option>
	<option>Germany</option>
<select> size -----	...multiple" size="4"> (number of items to appear in scrolling box)
<textarea> name -----	<textarea name="comments" ...
<textarea> cols (width in characters) -----	...comments" cols="30" ...
<textarea> rows -----	...30" rows="4" ...
<textarea> wrap -----	...4" wrap="virtual">default text</textarea> (virtual or none)
	**wrap is deprecated in HTML 4.01 and not allowed in XHTML 1.0. Text wrapping is responsibility of user agent – browser.
<input/> type -----	<input type="radio" ...
<input/> name -----	...radio" name="AddToList"/>
<input/> size (width of text box) -----	<input type="password" name="password" size="14" ...
<input/> maxlength (# of characters) -----	...14" maxlength="14"/>
<input/> value -----	<input type="text" name="FieldName" value="DefaultText"/>
<input/> checked (use w/ radio button) -----	<input type="radio" checked="checked" name=.....

VALUES (for input type)

Text -----	text box
Checkbox -----	check box
Radio -----	radio button
Password -----	password box
File -----	File upload field and browse button
Submit -----	submit button
Reset -----	reset button

IMAGE MAPS

CONTAINER TAGS

<map>and</map> -----	Encompasses all image map data.
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STAND ALONE NON-EMPTY TAGS

<area/> -----	References each area of coordinates on an image map.
 -----	Image

ATTRIBUTES

<map> name -----	<map name="mapname" ...	
<map> id -----	name" id="mapname" ... (same as 'name' but required in XHTML)	
<area/> shape -----	<area shape="circle" ... (rect, circle, or polygon – any other shape)	
<area/> coords -----	...square" cords="coordinates" ...	
<area/> href -----	...nates" href="url" ...	
<area/> alt -----	...url" alt="description of linked page" />	
 src -----	usemap -----	...map.gif" usemap="#mapname" />

FRAMES – Frameset Document

CONTAINER TAGS – <frameset> takes place of <body>

<frameset>and</frameset> -----	Defines regions (frames) in your browser window and assign separate files and URLs to each region.
<noframes>and</noframes> -----	Used for old browsers that don't support frames. Sits between <frameset> tags. Requires <body> tags around text. <noframes> <body>If you had a frames-capable browser, you would see frames here</body> </noframes>

STAND ALONE NON-EMPTY TAGS

<frame/> -----	Defines content in each frame. Sits between <frameset> tags.
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ATTRIBUTES

(<frameset>) cols -----	<frameset cols="35%,65%"></frameset>
(<frameset>) rows -----	<frameset rows="160, *"></frameset> (*= remaining space) (Frameset can contain either cols or rows, or both)
(<frame/>) src -----	<frame src="webpage1.html"... (Can be local doc or full URL)
(<frame/>) name -----	...html" name="frame1" ...
(<frame/>) frameborder -----	...frame1" frameborder="0"... (Use 0 if you don't want to see the frames)
(<frame/>) marginwidth -----	..."0" marginwidth="5" ...
(<frame/>) marginheight -----	..."5" marginheight="10" ...
(<frame/>) scrolling -----	..."10" scrolling="yes"/> (value options – yes, no, auto)

FRAMES – Accompanying XHTML Documents

CONTAINER TAGS

<a>and -----	Link tag used to open a URL in a different (target) frame.
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STAND ALONE NON-EMPTY TAGS

<base/> -----	Placed in the file for the document containing all the links. Tells all of the links to link to the same target frame.
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ATTRIBUTES

(<a>) target ²⁰ -----	Link Text
(<base/>) target ²¹ -----	<base target="frame1"/> (Sits between the <head> tags.)

CHARACTER ENTITIES (notations for a special character)

Always begin with ‘&’ and end with ‘;’

Quotation Marks	"
Left quote	“
Right quote	”
Non-breaking space	
Copyright	©
Ampersand	&
Registered Trademark	®
Trademark	™
Em dash	—
Pound (British currency)	£
Euro	€
Yen	¥

TERMS

Nested Element	Where one element is contained within another. <i>Desert Park</i>
Hexadecimal Value	A 6-character value that defines the amount of red, green, and blue in a color. Increases color choices. Use the # followed by 6 characters. 1 st 2=red, 2 nd 2=green, last 2=blue. Use combos of 0-9 and a-f.
RGB Value	Defines the intensity of the shades of red, green, and blue in a color. Brown = style="color: rgb(165,42,42)"
Inline image	An image contained within the text of a document.
Absolute Path (within a link)	Complete file name or URL. Can only be accessed by your comp. Eg: Or:
Relative Path (within a link)	A portion of the full path. If file is in same folder as the site. If file is in one folder up :

END NOTES

- 1 Repeat attribute ----- Defines the # of times a background image is repeated.
Repeat = image repeats, or tiles, horizontally and vertically.
Repeat-x = Repeats horizontally but not vertically.
Repeat-y = Repeats vertically but not horizontally.
No-repeat = image does not repeat. Displays only 1 time.
- 2 Position attribute ----- Sets the starting location of a background image. Value choices:
top right; center; 50% 50%; 50px 100px
- 3 Font family property ----- Always give 2 or 3 choices of font in case browsers don't have the first choice.
Fonts with multiple words, use single quotes: 'lucida console'
- 4 Font size property ----- a number followed by: Pt; px; pc (picas); mm; cm; in
a number followed by: % (percentage of screen width)
xx-small; x-small; small; large; x-large; xx-large
smaller; larger (than default size)
- 5 Font or background color ----- 16 standard colors that can be defined by all browsers.
For other colors, use their **hexadecimal value**, or the **RGB value**.
- 6 Background property ----- Order of background attributes: background-color; background-image; background-repeat; background-attachment; and background-position.
- 7 Image border ----- Possible values of a border:
Dashed, dotted, double, groove, inset, outset, ridge, solid.
Color: Define by color name, RGB value, or hexadecimal value.
Width: thin, thick, medium, or define number of pixels.
- 8 Float property ----- default = the element will display where it occurs in the text.
left = image stays on the left, text moves to the right.
right = image moves to the right, text stays on the left.
- 9 Clear property ----- left = left side must be clear of floating elements.
Right = right side must be clear of floating elements.
Both = both left and right sides must be clear of floating elements.
- 10 Margin property ----- Four possible margin values: top, right, bottom, left. To set only one margin: **margin-right: 10px**
- 11 Target attribute ----- Possible target values:
_self (new page opens in the same window replacing the existing page)
_blank (new page opens in a blank window with the original page hidden behind).
- 12 Colspan attribute ----- Can add to both <th> (table heading), and <td> table cell.

13	Cell width & height attributes -----	Can add to <th>, <td>, and <table> tags. Can be specified in pixels or as a percentage.
14	Table border color -----	<table style="border-color: red"> all 4 sides red. <table style="border-right-color: green"> <table style="border-left-color: blue"> <table style="border-bottom-color: orange">
15	List style type -----	style="list-style-type: disc" (default) ○ circle ▪ square decimal - 1, 2, 3, 4 decimal-leading-zero - 01; 02; 03; 04 lowercase Roman - I, ii, iii, iv uppercase Roman - I, II, III, IV lowercase alpha - a, b, c, d uppercase alpha - A, B, C, D image as bullet style="list-style-image: url (filename.ext)"
16	Preformat tags -----	All formatting – line breaks, spacing, fonts, font sizes, will display in browser the same as they appear in the HTML text. Good for tables and charts.
17	Image align -----	Possible values: Bottom; middle; top; left; right
18	Method attribute -----	Specifies which method the browser will use to send form data to a web server. Values= get or post. Get = form data appended to URL for use in a query string. Sends information in cleartext. Less secure. Post = form data is posted to URL specified by the Action attribute. Most common method.
19	Action attribute -----	Specifies the name and location of the CGI script used to process the form.
20	Targeting Frames -----	Once you name a frame, then you can target that frame from another document. So, if you click on a link in the document in frame B, then the link will open in frame A. (document code for Frame A): <frame src="url" name="FrameA"> (document code for Frame B): Link Text
21	Base Target -----	If there are a lot of links to target to the same frame, then put a Base target between the <head> tags. Then there is no need to Use the target attribute in the <a> tags.