

# WHAT IS HTML

- Standardized Codes
- Web pages
- SGML
- Descriptive markup
- Tags

HTML stands for Hypertext Markup Language. HTML consists of standardized codes, or "tags", that are used to define the structure of information on a web page. HTML is used to prepare documents for the World Wide Web. A web page is single a unit of information, often called a document, that is available on the World Wide Web.

HTML defines several aspects of a web page including heading levels, bold, italics, images, paragraph breaks and hypertext links to other resources.

HTML can be compared to word processing. The text in a word processed file can be formatted in various ways. For example, a heading can be bold and in larger font size than the rest of the document. Also, specific words can be italicized for emphasis.

HTML is a way to define the formats of text in a web page. However, it goes further by also being able to define placement of graphics and hypertext links.

HTML is a sub-language of SGML, or **Standard Generalized Markup Language**. SGML is a system that defines and standardizes the structure of documents.

Both SGML and HTML utilize descriptive markup to define the structure of an area of text. In general terms, descriptive markup does not specify a particular font or point size for an area of text. Instead, it *describes* an area of text as a heading or a caption, for example.

Therefore, in HTML, text is marked as a heading, subheading, numbered list, bold, italic, etc.

HTML is standardized and portable. A document that has been prepared using HTML markup "tags" can be viewed using a variety of web browsers, such as Netscape and Lynx. A browser interprets the tags in an HTML file and presents the file as a formatted, readable web page.

In addition, HTML documents can be viewed on all types of systems, such as Macintosh, PC and Unix Machines.

HTML tags are used to define areas of a document as having certain characteristics.

The tags used in HTML usually consist of a code in between two "wickets". These codes are called container tags because the formatting described by the tags affects only the text contained between the tags.

For example, **<B>** and **</B>** are the starting and ending tags used to indicate an area as bold. Therefore, the following markup will yield a sentence with the word "hello" in bold.

**Only the word **<B>hello</B>** will be bold.**

HTML tags are used to define heading levels, such as **<H1>** and **</H1>**. Heading levels can go to **<H6>**, with each successive number indicating a smaller heading size.

Some other basic HTML tags are:

- `<I>` and `</I>` used to indicate italics
- `` used to place an image in a document file
- `<P>` used to create a paragraph break

The following HTML markup produces the web page shown.

On the left is the HTML file that was written to create the web page. The HTML file is a plain text file that has been saved with an ".html" file extension. HTML files can be written in any text editing program.

Filename: sample.html

```
<H1>A Sample Web Page</H1>
<H2>Containing a photo of a
waterfall....</H2>
<P>

<P>
HTML consists of <I>standardized</I>
codes that are used to define the
structure of information that makes
up a web page.
<P>
HTML tags are used to place images,
create hypertext links, make text
bold, and more!!
```



In HTML, some codes require end tags and some do not require end tags.

In the previous example, the `<P>` tags indicate a paragraph break. This type of code is called an empty tag because no end tag is required.

The `<P>` tag does not need an end tag (like `<B>` and `</B>`) because a paragraph break is a single entity.








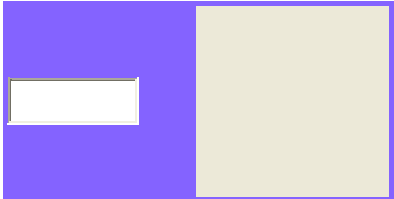

### In Summary:

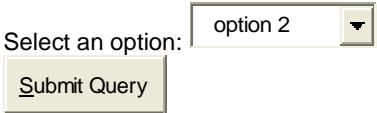
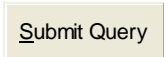
HTML is a set of standardized codes, or tags, that have been derived from the SGML standard. HTML defines and describes the structure of a web page and is used to prepare documents for the World Wide Web. In addition, HTML documents are portable - they can be viewed with any web browser on any type of computer.


The tags used in HTML consist of a code in between two "wickets". For example, For example, `<I>` and `</I>` are the starting and ending tags used to indicate an area of text as italic. Some tags, such the paragraph break, `<P>`, do not require an ending tag.

# HTML TAGS

TAG	NAME	CODE EXAMPLE	BROWSER VIEW
<!--	comment	<!--This can be viewed in the HTML part of a document-->	Nothing will show
<A -	Anchor	<A HREF="http://www.yourdomain.com/">Visit Our Site</A>	<a href="#">Visit Our Site (Tip)</a>
<B>	Bold	<B>Example</B>	<b>example</b>
<Big>	Big (text)	<BIG>Example</BIG>	<b>Example (tips)</b>
<BODY>	Body of Document	<BODY>The content of your page</BODY>	Contents or your web page
 	Line Break	The contents of your page The contents of your page	The contents of your page The contents of your page
<Center>	Center	<CENTER>This will center your contents</CENTER>	This will center your contents
<DD>	Definition Description	<DL> <DT>Definition Term <DD> <b>Definition of the term</b> <DT>Definition Term <DD> <b>Definition of the term</b> </DL>	Definition Term <b>Definition of the term</b> Definition Term <b>Definition of the term</b>
<DL>	definition list	<DL> <DT>Definition Term <DD>Definition of the term <DT>Definition Term <DD>Definition of the term </DL>	Definition Term Definition of the term Definition Term Definition of the term
<DT>	definition term	<DL> <DT> <b>Definition Term</b> <DD>Definition of the term <DT> <b>Definition Term</b> <DD>Definition of the term </DL>	<b>Definition Term</b> Definition of the term <b>Definition Term</b> Definition of the term
<EM>	emphasis	This is an <EM>Example</EM> of using the emphasis tag	This is an <i>Example</i> of using the emphasis tag
<EMBED>	embed object	<EMBED src="yourfile.mid" width="100%" height="60" align="center">	Tips
<EMBED>	embed object	<EMBED src="yourfile.mid" autostart="true" hidden="false" loop="false"> <noembed><bgsound src="yourfile.mid" loop="1"></noembed>	Music will begin playing when your page is loaded and will only play one time. A control panel will be displayed to enable your visitors to stop the music.
<FONT>	Font	<FONT FACE="Times New Roman">Example</FONT>	Example
<FONT>	font	<FONT FACE="Times New Roman" SIZE="4">Example</FONT>	Example
<FONT>	Font	<FONT FACE="Times New Roman" SIZE="+3" COLOR="#FF0000">Example</FONT>	Example
<Font>	Font	<FORM action="mailto:you@yourdomain.com"> Name: <INPUT name="Name" value="" size="10">  Email: <INPUT name="Email" value="" size="10">  <CENTER><INPUT type="submit"></CENTER> </FORM>	<div><b>Example</b></div> <div>Name: <input type="text"/></div> <div>Email: <input type="text"/></div> <div><input type="submit" value="Submit Query"/></div>
<H1>	heading 1	<H1>Heading 1 Example</H1>	Heading 1 Example

<H2>	heading 2	<H2>Heading 2 Example</H2>	Heading 2 Example
<H3>	Heading3	<H3>Heading 3 Example</H3>	Heading 3 Example
<H4>	Heading4	<H4>Heading 4 Example</H4>	Heading 4 Example
<H5>	Heading5	<H5>Heading 5 Example</H5>	Heading 5 Example
<H6>	Heading6	<H6>Heading 6 Example</H6>	Heading 6 Example
<Head>	heading of document	<HEAD>Contains elements describing the document</HEAD>	Nothing will show
<HR>	horizontal rule	<HR>	Contents of your webpage 
<HR>	horizontal rule	<HR WIDTH="50%" SIZE="3">	Contents of your webpage 
<HR>	horizontal rule	<HR WIDTH="50%" SIZE="3" NOSHADE>	Contents of your webpage 
<HR> (Internet Explorer)	horizontal rule	<HR WIDTH="75%" COLOR="#FF0000" SIZE="4">	Contents of your webpage 
<HR> (Internet Explorer)	horizontal rule	<HR WIDTH="25%" COLOR="#6699FF" SIZE="6">	Contents of your webpage 
<HTML>	hypertext markup language	<HTML><HEAD><META><TITLE>Title of your webpage</TITLE></HEAD><BODY>Webpage contents</BODY></HTML>	Contents of your webpage
<I>	italic	<I>Example</I>	Example
<IMG>	image	<IMG SRC="Earth.gif" WIDTH="41" HEIGHT="41" BORDER="0" ALT="a sentence about your site"> Example 1: <FORM METHOD=post ACTION="/cgi-bin/example.cgi">	 Example 1:
<INPUT>	input field	<INPUT type="text" size="10" maxlength="30"> <INPUT type="Submit" VALUE="Submit"> </FORM> Example 2: <FORM METHOD=post ACTION="/cgi-bin/example.cgi">	 Example 2:
<INPUT> (Internet Explorer)	input field	<INPUT type="text" STYLE="color: #FFFFFF; font-family: Verdana; font-weight: bold; font-size: 12px; background-color: #72A4D2;" size="10" maxlength="30"> <INPUT type="Submit" VALUE="Submit"> </FORM> Example 3:  <FORM METHOD=post ACTION="/cgi-bin/example.cgi"> <TABLE BORDER="0" CELSPACING="0" CELLPADDING="2"><TR><TD BGCOLOR="#8463FF"><INPUT type="text" size="10" MAXLENGTH="30"></TD><TD BGCOLOR="#8463FF" VALIGN="Middle"><INPUT type="image" name="submit" src="yourimage.gif"></TD></TR> </TABLE> </FORM>	Example 3: 
<INPUT>	input field	Example 4:  <FORM METHOD=post ACTION="/cgi-bin/example.cgi"> Enter Your Comments:  <TEXTAREA wrap="virtual" name="Comments" rows=3 cols=20 MAXLENGTH=100></TEXTAREA>  <INPUT type="Submit" VALUE="Submit"> <INPUT type="Reset" VALUE="Clear"> </FORM>	Example 4: 

<INPUT>	input field	<p>Example 5:</p> <pre>&lt;FORM METHOD=post ACTION="/cgi-bin/example.cgi"&gt; &lt;CENTER&gt; Select an option: &lt;SELECT&gt; &lt;OPTION &gt;option 1 &lt;OPTION SELECTED&gt;option 2 &lt;OPTION&gt;option 3 &lt;OPTION&gt;option 4 &lt;OPTION&gt;option 5 &lt;OPTION&gt;option 6 &lt;/SELECT&gt;&lt;BR&gt; &lt;INPUT type="Submit" VALUE="Submit"&gt;&lt;/CENTER&gt; &lt;/FORM&gt;</pre>	<p>Example 5:</p> 
<INPUT>	input field	<p>Example 6:</p> <pre>&lt;FORM METHOD=post ACTION="/cgi-bin/example.cgi"&gt; Select an option:&lt;BR&gt; &lt;INPUT type="radio" name="option"&gt; Option 1 &lt;INPUT type="radio" name="option" CHECKED&gt; Option 2 &lt;INPUT type="radio" name="option"&gt; Option 3 &lt;BR&gt; &lt;BR&gt; Select an option:&lt;BR&gt; &lt;INPUT type="checkbox" name="selection"&gt; Selection 1 &lt;INPUT type="checkbox" name="selection" CHECKED&gt; Selection 2 &lt;INPUT type="checkbox" name="selection"&gt; Selection 3 &lt;INPUT type="Submit" VALUE="Submit"&gt; &lt;/FORM&gt;</pre>	<p>Example 6:</p> <p>Select an option:</p> <ul style="list-style-type: none"> <li><input type="radio"/> Option 1</li> <li><input checked="" type="radio"/> Option 2</li> <li><input type="radio"/> Option 3</li> </ul> <p>Select an option:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Selection 1</li> <li><input checked="" type="checkbox"/> Selection 2</li> <li><input type="checkbox"/> Selection 3</li> </ul> 
<LI>	list item	<p>Example 1:</p> <pre>&lt;MENU&gt; &lt;LI type="disc"&gt;List item 1 &lt;LI type="circle"&gt;List item 2 &lt;LI type="square"&gt;List item 3 &lt;/MENU&gt;</pre> <p>Example 2:</p> <pre>&lt;OL type="i"&gt; &lt;LI&gt;List item 1 &lt;LI&gt;List item 2 &lt;LI&gt;List item 3 &lt;LI&gt;List item 4 &lt;/OL&gt;</pre>	<p>Example 1: <a href="#">(Tip)</a></p> <ul style="list-style-type: none"> <li>• <b>List item 1</b></li> <li>• <b>List item 2</b></li> <li>• <b>List item 3</b></li> </ul> <p>Example 2:</p> <ul style="list-style-type: none"> <li>i. <b>List item 1</b></li> <li>ii. <b>List item 2</b></li> <li>iii. <b>List item 3</b></li> <li>iv. <b>List item 4</b></li> </ul>
<LINK>	link	<p>Visit our &lt;A HREF="http://www.yourdomain.com/"&gt;site&lt;/A&gt;</p>	<p>Visit our <a href="#">site</a></p>
<MARQUEE> (Internet Explorer)	scrolling text	<pre>&lt;MARQUEE bgcolor="#CCCCCC" loop="-1" scrollamount="2" width="100%"&gt;Example Marquee&lt;/MARQUEE&gt;</pre>	<p>Example Marquee <a href="#">(Tip)</a></p>

<MENU>	menu	<b>&lt;MENU&gt;</b> <LI type="disc">List item 1 <LI type="circle">List item 2 <LI type="square">List item 3 <b>&lt;/MENU&gt;</b>	<ul style="list-style-type: none"> <li>List item 1</li> <li>List item 2</li> <li>List item 3</li> </ul>
<META>	Meta	<b>&lt;META</b> name="Description" content="Description of your site"> <b>&lt;META</b> name="keywords" content="keywords describing your site">	Nothing will show ( <a href="#">Tip</a> )
<META>	Meta	<b>&lt;META</b> HTTP-EQUIV="Refresh" CONTENT="4;URL=http://www.yourdomain.com/">	Nothing will show ( <a href="#">Tip</a> )
<META>	Meta	<b>&lt;META</b> http-equiv="Pragma" content="no-cache">	Nothing will show ( <a href="#">Tip</a> )
<META>	Meta	<b>&lt;META</b> name="rating" content="General">	Nothing will show ( <a href="#">Tip</a> )
<META>	Meta	<b>&lt;META</b> name="ROBOTS" content="ALL">	Nothing will show ( <a href="#">Tip</a> )
<META>	Meta	<b>&lt;META</b> NAME="ROBOTS" content="NOINDEX,FOLLOW">	Nothing will show ( <a href="#">Tip</a> )
<OL>	ordered list	Example 1:  <b>&lt;OL&gt;</b> <LI>List item 1 <LI>List item 2 <LI>List item 3 <LI>List item 4 <b>&lt;/OL&gt;</b>  Example 2:  <b>&lt;OL type="a"&gt;</b> <LI>List item 1 <LI>List item 2 <LI>List item 3 <LI>List item 4 <b>&lt;/OL&gt;</b>	Example 1:  1. List item 1 2. List item 2 3. List item 3 4. List item 4  Example 2:  a. List item 1 b. List item 2 c. List item 3 d. List item 4
<OPTION> >	listbox option	<b>&lt;FORM METHOD=post ACTION="/cgi-bin/example.cgi"&gt;</b> <b>&lt;CENTER&gt;</b> Select an option: <b>&lt;SELECT&gt;</b> <b>&lt;OPTION&gt;</b> option 1 <b>&lt;OPTION SELECTED&gt;</b> option 2 <b>&lt;OPTION&gt;</b> option 3 <b>&lt;OPTION&gt;</b> option 4 <b>&lt;OPTION&gt;</b> option 5 <b>&lt;OPTION&gt;</b> option 6 <b>&lt;/SELECT&gt;</b> <b>&lt;BR&gt;</b> <b>&lt;/CENTER&gt;</b> <b>&lt;/FORM&gt;</b>	Select an option: ( <a href="#">Tip</a> ) <div>             option 2              </div>

<P>	paragraph	<p>This is an example displaying the use of the paragraph tag. &lt;P&gt; This will create a line break and a space between lines.</p> <p>Attributes:</p> <p>Example 1:&lt;BR&gt; &lt;BR&gt; &lt;P align="left"&gt; This is an example&lt;BR&gt; displaying the use&lt;BR&gt; of the paragraph tag.&lt;BR&gt; &lt;BR&gt; Example 2:&lt;BR&gt; &lt;BR&gt; &lt;P align="right"&gt; This is an example&lt;BR&gt; displaying the use&lt;BR&gt; of the paragraph tag.&lt;BR&gt; &lt;BR&gt; Example 3:&lt;BR&gt; &lt;BR&gt; &lt;P align="center"&gt; This is an example&lt;BR&gt; displaying the use&lt;BR&gt; of the paragraph tag.</p>	<p>This is an example displaying the use of the paragraph tag.</p> <p>This will create a line break and a space between lines.</p> <p>Attributes:</p> <p>Example 1:</p> <p>This is an example displaying the use of the paragraph tag.</p> <p>Example 2:</p> <p>This is an example displaying the use of the paragraph tag.</p> <p>Example 3:</p> <p>This is an example displaying the use of the paragraph tag.</p>								
<SMALL>	small (text)	<SMALL>Example</SMALL>	Example <a href="#">(Tip)</a>								
<TABLE>	table	<p>Example 1:</p> <pre>&lt;TABLE BORDER="4" CELLPADDING="2" CELLSPACING="2" WIDTH="100%"&gt; &lt;TR&gt; &lt;TD&gt;Column 1&lt;/TD&gt; &lt;TD&gt;Column 2&lt;/TD&gt; &lt;/TR&gt; &lt;/TABLE&gt;</pre> <p>Example 2: (Internet Explorer)</p> <pre>&lt;TABLE BORDER="2" BORDERCOLOR="#336699" CELLPADDING="2" CELLSPACING="2" WIDTH="100%"&gt; &lt;TR&gt; &lt;TD&gt;Column 1&lt;/TD&gt; &lt;TD&gt;Column 2&lt;/TD&gt; &lt;/TR&gt; &lt;/TABLE&gt;</pre> <p>Example 3:</p> <pre>&lt;TABLE CELLPADDING="2" CELLSPACING="2" WIDTH="100%"&gt; &lt;TR&gt; &lt;TD BGCOLOR="#CCCCCC"&gt;Column 1&lt;/TD&gt; &lt;TD BGCOLOR="#CCCCCC"&gt;Column 2&lt;/TD&gt; &lt;/TR&gt; &lt;TR&gt; &lt;TD&gt;Row 2&lt;/TD&gt; &lt;TD&gt;Row 2&lt;/TD&gt; &lt;/TR&gt; &lt;/TABLE&gt;</pre>	<p>Example 1: <a href="#">(Tip)</a></p> <table><tr><td>Column 1</td><td>Column 2</td></tr></table> <p>Example 2: <a href="#">(Tip)</a></p> <table><tr><td>Column 1</td><td>Column 2</td></tr></table> <p>Example 3: <a href="#">(Tip)</a></p> <table><tr><td>Column 1</td><td>Column 2</td></tr><tr><td>Row 2</td><td>Row 2</td></tr></table>	Column 1	Column 2	Column 1	Column 2	Column 1	Column 2	Row 2	Row 2
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<TD>	table data	<TABLE BORDER="2" CELLPADDING="2" CELLSPACING="2" WIDTH="100%"> <TR> <TD>Column 1</TD> <TD>Column 2</TD> </TR> </TABLE>	<table><tr><td>Column 1</td><td>Column 2</td></tr></table>	Column 1	Column 2										
Column 1	Column 2														
<TH>	table header	<DIV align="center"><TABLE> <TR> <TH>Column 1</TH> <TH>Column 2</TH> <TH>Column 3</TH> </TR> <TR> <TD>Row 2</TD> <TD>Row 2</TD> <TD>Row 2</TD> </TR> <TR> <TD>Row 3</TD> <TD>Row 3</TD> <TD>Row 3</TD> </TR> <TR> <TD>Row 4</TD> <TD>Row 4</TD> <TD>Row 4</TD> </TR> </TABLE> </DIV>	<table><tr><td>Column 1</td><td>Column 2</td><td>Column 3</td></tr><tr><td>Row 2</td><td>Row 2</td><td>Row 2</td></tr><tr><td>Row 3</td><td>Row 3</td><td>Row 3</td></tr><tr><td>Row 4</td><td>Row 4</td><td>Row 4</td></tr></table>	Column 1	Column 2	Column 3	Row 2	Row 2	Row 2	Row 3	Row 3	Row 3	Row 4	Row 4	Row 4
Column 1	Column 2	Column 3													
Row 2	Row 2	Row 2													
Row 3	Row 3	Row 3													
Row 4	Row 4	Row 4													
<TITLE>	document title	<TITLE>Title of your webpage</TITLE>	Title of your webpage will be viewable in the title bar. (Tip)												
<TR>	table row	<TABLE BORDER="2" CELLPADDING="2" CELLSPACING="2" WIDTH="100%"> <TR> <TD>Column 1</TD> <TD>Column 2</TD> </TR> </TABLE>	<table><tr><td>Column 1</td><td>Column 2</td></tr></table>	Column 1	Column 2										
Column 1	Column 2														
<TT>	unordered list	Example 1:  <ul> <li>List item 1 <li>List item 2 </ul>  Example 2: <ul type="disc"> <li>List item 1 <li>List item 2 <ul type="circle"> <li>List item 3 <li>List item 4 </ul> </ul>	Example 1: <ul style="list-style-type: none"><li>List item 1</li><li>List item 2</li></ul> Example 2: <ul style="list-style-type: none"><li>List item 1</li><li>List item 2<ul style="list-style-type: none"><li>List item 3</li><li>List item 4</li></ul></li></ul>												