



## STRUCTURE

### LINKS

<code>&lt;LINK&gt;</code>	appears in the HEAD, defines relationships with other documents; attributes include <b>href</b> , <b>hreflang</b> , <b>type</b> , <b>rel</b> , <b>rev</b> , <b>media</b>
<code>&lt;A&gt; content &lt;/A&gt;</code>	defines links and anchors in the BODY; attributes include <b>id</b> , <b>href</b> , <b>name</b> , <b>target</b> , <b>title</b> , <b>type</b> link attribute values are case-insensitive
<code>&lt;A href="mailto:user@host.com"&gt; content &lt;/A&gt;</code>	email link
<code>&lt;BASE href=url&gt;</code>	absolute URL for resolving relative URLs

### INCLUSIONS

<code>&lt;OBJECT&gt; &lt;/OBJECT&gt;</code>	generic element for objects, images, applets
<code>&lt;PARAM&gt;</code>	specifies values required by an object at run-time
<code>&lt;MAP&gt; &lt;AREA&gt; &lt;/MAP&gt;</code>	IMAGE MAP elements
<code>&lt;IMG&gt;</code>	attributes include <b>src=url</b> , <b>alt=text</b> , <b>align=left right</b>
<code>&lt;IFRAME&gt; &lt;/IFRAME&gt;</code>	INLINE FRAME element inserts HTML doc in another

### LAYOUT ELEMENTS

<code>&lt;P&gt;</code>	begin new paragraph
<code>&lt;BR&gt;</code>	line break <b>clear</b> = <b>left</b>   <b>right</b>   <b>none</b>
<code>&lt;BLOCKQUOTE&gt; &lt;/BLOCKQUOTE&gt;</code> , <code>&lt;Q&gt; &lt;/Q&gt;</code>	paragraph and inline quotations
<code>&lt;OL&gt; &lt;/OL&gt;</code>	ORDERED LIST <b>types</b> = <b>1</b>   <b>a</b>   <b>A</b>   <b>i</b>   <b>I</b>
<code>&lt;UL&gt; &lt;/UL&gt;</code>	UNORDERED LIST <b>types</b> = <b>disc</b>   <b>square</b>   <b>circle</b>
<code>&lt;LI&gt;</code>	LIST ITEM
<code>&lt;DL&gt; &lt;/DL&gt;</code>	DEFINITION LIST
<code>&lt;DT&gt;</code> , <code>&lt;DD&gt;</code>	TERM and DEFINITION elements
<code>&lt;DIV&gt; &lt;/DIV&gt;</code> , <code>&lt;SPAN&gt; &lt;/SPAN&gt;</code>	grouping elements
<code>&lt;INS&gt; &lt;/INS&gt;</code> , <code>&lt;DEL&gt; &lt;/DEL&gt;</code>	used to markup insertions or deletions
<code>&lt;BDO&gt; &lt;/BDO&gt;</code>	overrides bidirectional algorithm

## PRESENTATION

Strictly speaking, the following elements are structural, but they affect the appearance of text; specific display characteristics are determined by the viewer's browser. Stylesheets should be used for precise control of font, color, and text size. Start and end tags are **required** for all these elements.

Headings	<code>&lt;H1&gt;</code> , <code>&lt;H2&gt;</code> , <code>&lt;H3&gt;</code> , <code>&lt;H4&gt;</code> , <code>&lt;H5&gt;</code> , <code>&lt;H6&gt;</code> ,
Phrase Elements	<code>&lt;EM&gt;</code> , <code>&lt;STRONG&gt;</code> , <code>&lt;DFN&gt;</code> , <code>&lt;CODE&gt;</code> , <code>&lt;SAMP&gt;</code> , <code>&lt;KBD&gt;</code> , <code>&lt;VAR&gt;</code> , <code>&lt;CITE&gt;</code> , <code>&lt;ACRONYM&gt;</code>
Preformatted text	<code>&lt;PRE&gt; &lt;/PRE&gt;</code>
Address text	<code>&lt;ADDRESS&gt; &lt;/ADDRESS&gt;</code>
Subscript	<code>&lt;SUB&gt; &lt;/SUB&gt;</code>
Superscript	<code>&lt;SUP&gt; &lt;/SUP&gt;</code>
Marking document changes	<code>&lt;INS&gt; &lt;/INS&gt;</code> , <code>&lt;DEL&gt; &lt;/DEL&gt;</code>

The following elements are presentational. Although their use is not deprecated, W3C recommends using stylesheets instead. Start and end tags are **required** for all these elements.

Font style	<code>&lt;TT&gt;</code> <code>&lt;I&gt;</code> <code>&lt;B&gt;</code> <code>&lt;BIG&gt;</code> <code>&lt;SMALL&gt;</code>
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## COMMON ATTRIBUTES

<b>id=name</b>	assigns a document-wide name to a specific instance of an element
<b>class=cdata-list</b>	assigns a class or set of classes to a specific instance of an element
<b>lang=language-code</b>	specifies the primary language of an element's text content
<b>dir= ltr   rtl</b>	specifies default direction for directionally weak or neutral text
<b>href=url</b>	specifies an absolute or relative URL to locate a resource
<b>alt=text</b>	provides alternative text description of images
<b>title=text</b>	provides a context sensitive tool-tip-style caption; identifies stylesheets
<b>style=cdata</b>	provides inline style information
<b>name=cdata</b>	assigns a document-wide name
<b>rel=cdata</b>	forward link
<b>rev=cdata</b>	reverse link
<b>charset=cdata</b>	specifies character set used in document
<b>cite=url</b>	used with QUOTE or BLOCKQUOTE to indicate source of quote
<b>datetime=cdata</b>	used with INS or DEL to specify date and time of change
<b>cdata</b>	a sequence of characters from the document character set; may include character entities

HyperText Markup Language (HTML) is a specific application of the Standard General Markup Language (SGML) as defined by the International Standards Organization.

HTML 4.0 specification: <http://www.w3.org/TR/REC-html40/>  
SGML declaration: <http://www.w3.org/TR/REC-html40/sgml/sgmldecl.html>  
Document Type Definition (DTD): <http://www.w3.org/TR/REC-html40/sgml/dtd.html>

This reference does **not** include HTML elements and attributes designated as "**deprecated**" in the HTML 4.0 specification (meaning they are technically legal, but not recommended and likely to be eliminated in future versions of the specification). The elements and attributes on this card are organized to emphasize the distinction between structure and presentation, as the principles of good HTML design dictate. Many presentational elements and attributes are now deprecated in favor of stylesheets.

## CASCADING STYLE SHEETS

Style declaration	<b>ELEMENT</b> { <b>property: value;</b> }
Grouping	<b>ELEMENT, ELEMENT, ELEMENT</b> { <b>property: value;</b> }
Class selector	<b>.class-name</b> { <b>property: value;</b> }
ID selector	<b>#id-name</b> { <b>property: value;</b> }
Contextual selector	<b>PARENT-ELEMENT CHILD-ELEMENT</b> { <b>property: value;</b> }
Comments	<i>/* This is a comment. */</i>
font properties	<b>font-family</b> , <b>font-style</b> , <b>font-variant</b> , <b>font-weight</b> , <b>font-size</b> , <b>font</b>
text properties	<b>word-spacing</b> , <b>letter-spacing</b> , <b>text-decoration</b> , <b>vertical-align</b> , <b>text</b> <b>transform</b> , <b>text-align</b> , <b>text-indent</b> , <b>line-height</b>
box properties	<b>margin</b> , <b>padding</b> , <b>border</b> , <b>width</b> , <b>height</b> , <b>float</b> , <b>clear</b>
color properties	<b>color</b> , <b>background-color</b> , <b>background-image</b> , <b>background-repeat</b> , <b>background-attachment</b> , <b>background-position</b> , <b>background</b>
colors:	SRGB hexadecimal number: #000000 or one of 16 recognized color names: Black = #000000 Green = #008000 Silver = #C0C0C0 Lime = #00FF00 Gray = #808080 Olive = #808000 White = #FFFFFF Yellow = #FFFF00 Maroon = #800000 Navy = #000080 Red = #FF0000 Blue = #0000FF Purple = #800080 Teal = #008080 Fuchsia = #FF00FF Aqua = #00FFFF

## FORMS

An HTML form is a section of a document with special elements called **controls**: check boxes, radio buttons, menus, etc. Controls may have **labels**. Users complete forms by entering text, selecting menu items, etc., and submitting the form for processing via email or another scripted procedure.

### FORM ELEMENTS | attributes

<code>&lt;FORM&gt; &lt;/FORM&gt;</code>	<b>action=url</b> specifies a program for handling the submitted form <b>method=post</b> specifies HTTP method used to submit name/value pairs <b>enctype=content-type</b> specifies content type used to submit form; default is application/x-www-form-urlencoded; use multipart/form-data when returned document includes submitted files.
<code>&lt;INPUT&gt;</code>	defines the type of control <b>type</b> = [ <b>text</b>   <b>password</b>   <b>checkbox</b>   <b>radio</b>   <b>submit</b>   <b>reset</b>   <b>file</b>   <b>hidden</b>   <b>image</b>   <b>button</b> ] <b>name=cdata</b> assigns a name to the control <b>value=cdata</b> specifies initial value; required for radio <b>size=cdata</b> specifies initial width <b>maxlength=number</b> specifies maximum characters for text or password <b>checked</b> boolean displays element as default selection <b>src=url</b> specifies location of image used on button
<code>&lt;BUTTON&gt; &lt;/BUTTON&gt;</code>	declares the type of button <b>name=cdata</b> assigns a name to the button <b>value=cdata</b> assigns a value to the button <b>type</b> = [ <b>submit</b>   <b>button</b>   <b>reset</b> ]
<code>&lt;SELECT&gt; &lt;/SELECT&gt;</code>	creates a group of choices for user selection <b>name=cdata</b> assigns a name to the element <b>size=number</b> specifies the number of rows in list that should be visible <b>multiple</b> boolean allows multiple selections
<code>&lt;OPTGROUP&gt; &lt;/OPTGROUP&gt;</code>	group choices into a hierarchy <b>label=text</b> alternate shorter text for hierarchical menu lists
<code>&lt;OPTION&gt; &lt;/OPTION&gt;</code>	content displays as selection choice <b>selected</b> boolean displays element as default selection <b>value=cdata</b> specifies value submitted when this choice is selected <b>label=text</b> alternate shorter text for hierarchical menu lists
<code>&lt;TEXTAREA&gt; &lt;/TEXTAREA&gt;</code>	<b>name=cdata</b> assigns a name to the element <b>rows=number</b> specifies the number of visible text lines <b>cols=number</b> specifies the visible width in average character widths
<code>&lt;LABEL&gt; &lt;/LABEL&gt;</code>	<b>for=idref</b> explicitly associates label with control specified by id
<code>&lt;FIELDSET&gt; &lt;/FIELDSET&gt;</code>	group thematically related controls and labels
<code>&lt;LEGEND&gt; &lt;/LEGEND&gt;</code>	assigns caption to FIELDSET
<b>Controlling focus for an ELEMENT</b>	
<b>tabindex=number</b>	use number (0-32767) to establish tab order for INPUT, BUTTON, SELECT, TEXTAREA, OBJECT, A, AREA elements
<b>accesskey=character</b>	defines keyboard shortcuts for INPUT, BUTTON, LABEL, FIELDSET, LEGEND, A, AREA elements
<b>disabled</b>	boolean disables the control for user input
<b>read-only</b>	boolean prohibits changes to control

## SCRIPTS

<code>&lt;META http-equiv="Content-Script-Type" content="content-type"&gt;</code>	declares default scripting language for a document script-types: text/java, text/vbscript, text/tcl
<code>&lt;SCRIPT src=url type="content-type"&gt;</code>	contains a script which executes when the document loads (unless <b>defer</b> attribute is set).
<code>&lt;NOSCRIPT&gt;</code> Alternate content displays only if scripts are not supported. <code>&lt;/NOSCRIPT&gt;</code> <code>&lt;/SCRIPT&gt;</code>	

### INTRINSIC EVENTS

Attributes that carry scripts which execute every time a specific event occurs:

<b>onload</b>	when window or all frames in frameset finish loading
<b>onunload</b>	when window or frame is removed
<b>onclick</b>	when pointing device button is clicked over element
<b>ondblclick</b>	when pointing device button is doubleclicked over element
<b>onmousedown</b>	when pointing device button is pressed over element
<b>onmouseup</b>	when pointing device button is released over element
<b>onmouseover</b>	when pointing devices moves onto an element
<b>onmousemove</b>	when pointing device moves while over an element
<b>onmouseout</b>	when pointing device moves away from an element
<b>onfocus</b>	when an element receives focus (from pointing device or tab)
<b>onblur</b>	when an element loses focus (from pointing device or tab)
<b>onkeypress</b>	when a key is pressed and released over an element
<b>onkeydown</b>	when a key is pressed down over an element
<b>onkeyup</b>	when a key is released over an element
<b>onsubmit</b>	when a form is submitted (FORM element only)
<b>onreset</b>	when a form is reset (FORM element only)
<b>onselect</b>	when user selects some text in a text field
<b>onchange</b>	when a control loses focus and its value has been modified



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