

HTML

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1. HTML Fundamentals

HTML Headings

`<h1>This is Heading 1</h1>`

`<h2>Heading 2 is Smaller</h2>`

`<h3>Heading 3 is Smaller Still</h3>`

HTML Paragraphs

`<p>This is a paragraph.</p>`

`<p>This is a paragraph.</p>`

`<p>This is a paragraph.</p>`

HTML Links

` Google`

HTML Images

``

2. HTML Elements

HTML Element Syntax

An HTML element starts with a start tag/opening tag.

An HTML element ends with an end tag/closing tag.

The element content is everything between the start and the end tag.

Nested Elements

`<html>`

`<body>`

`<p>This is my first paragraph</p>`

</body>

</html>

Don't Forget the End Tag

Most browsers will display HTML correctly even if you forget the end tag.

<p>This is a paragraph

<p>This is another paragraph

Empty HTML Elements

 is an empty element without a closing tag. It defines a line break.

In XML and future versions of HTML, all elements must be closed.

Adding a slash to the end of start tag, like
, is the proper way of closing empty elements, accepted by HTML, and XML.

Even if
 works in all browsers, writing
 instead is more future proof.

Use Lowercase Tags

Use Lowercase tags

HTML tags are not case sensitive: <P> means the same as <p>. Plenty of Web sites use uppercase HTML tags in their pages.

World Wide Web Consortium (W3C) recommends lowercase in HTML 4.

3. HTML Attributes

Standard HTML Attributes

Attributes provide additional information about HTML elements.

Defining Attribute Values

Attributes come in name/value pairs like: name="value".

HTML Attributes Reference

Attribute:-

Class

Id

Style

Title

<p><abbr title="World Health Organization">WHO</abbr> was founded in 1948.</p>

<p title=" Google search engine ">google.com</p>

4. HTML Headings, Rules, & Comments

HTML Headings

<h1>This is a Heading 1</h1>

```
<h2>This is a Heading 2</h2>
<h3>This is a Heading 3</h3>
<h4>This is a Heading 4</h4>
<h5>This is a Heading 5</h5>
<h6>This is a Heading 6</h6>
```

HTML Rules (Lines)

```
<p>The hr tag defines a horizontal rule:</p>
<hr />
<p>This is a paragraph</p>
<hr />
<p>This is a paragraph</p>
<hr />
<p>This is a paragraph</p>
```

HTML Comments

```
<!--This comment will not be displayed-->
<p>This is a regular paragraph</p>
```

Viewing HTML Source Code

5. HTML Paragraphs

HTML Paragraphs

```
<p>This is a paragraph.
<p>This is another paragraph.</p>
```

HTML Line Breaks

```
<p>This is<br />a para-<br />graph with line breaks</p>
```

6. HTML Text Formatting

Text Formatting

```
<p><b>This text is bold</b></p>
<p><strong>This text is strong</strong></p>
<p><big>This text is big</big></p>
<p><em>This text is emphasized</em></p>
<p><i>This text is italic</i></p>
<p><small>This text is small</small></p>
```

Preformatted Text

```
<pre>
for i = 1 to 10
print i
next i
</pre>
```

“Computer Output” Tags

```
<code>Computer code</code>
<br />
<kbd>Keyboard input</kbd>
<br />
<tt>Teletype text</tt>
<br />
<samp>Sample text</samp>
<br />
<var>Computer variable</var>
```

Address

```
<address>
Donald Duck<br>
BOX 555<br>
Disneyland<br>
USA
</address>
```

Abbreviations and Acronyms

```
<html>
<body>
<p title="United Nations">UN</p>
<br />
<acronym title="World Wide Web">WWW</acronym>
<p>The title attribute is used to show the spelled-out
version when holding the mouse pointer over the acronym
or abbreviation.</p>
</body>
</html>
```

Deleted and Inserted Text

```
<p>
Most browsers will <del>overstrike</del> deleted text and
<u>underscore</u> text.
</p>
```

7. HTML Style Attribute

```
<h1>Look! Styles and colors</h1>
<p style="font-family:verdana;color:red">
This text is in Verdana and red</p>
<p style="font-family:times;color:green">
```

Common HTML Styles

```
<body style="background-color:gray">
<h2>Look: Colored Background!</h2>
```

8. HTML Links

HTML Links

Open a Link in a New Browser Window

Hyperlinks, Anchors, and Links

HTML Link Syntax

Links on the Same Page

Creating a mailto: Link

Creating an Image Link

Open a Link in a New Browser Window

```
<a href="lastpage.htm" target="_blank">Last Page</a>
```

Links on the same page

```
<p>
<a href="#C4">See also Chapter 4.</a>
</p>
<h2>Chapter 1</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 2</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 3</h2>
<p>This chapter explains ba bla bla</p>
<h2><a name="C4">Chapter 4</a></h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 5</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 6</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 7</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 8</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 9</h2>
```

```
<p>This chapter explains ba bla bla</p>
<h2>Chapter 10</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 11</h2>
<p>This chapter explains ba bla bla</p>
```

Creating a mailto: Link

```
<p>
This is a mail link:
<a href="mailto:someone@microsoft.com?subject=Hello%20
again">
Send Mail</a>
</p>
```

Creating an Image Link

```
<p>Create a link attached to an image:
<a href="default.htm">

</a></p>
<p>No border around the image, but still a link:
<a href="default.htm">

</a></p>
```

9. HTML Tables

A basic table includes the following tags:
Each table starts with a table tag.
Each table row starts with a tr tag.
Each table data (cell) starts with a td tag.
Table headings are defined with the <th> tag.

```
<h4>One column:</h4>
<table border="1">
<tr>
<td>100</td>
</tr>
</table>
```

```
<table border="1">
<tr>
<td>100</td>
<td>200</td>
<td>300</td>
```

```
</tr>
<tr>
<td>400</td>
<td>500</td>
<td>600</td>
</tr>
</table>
```

```
<table border="1">
<tr>
<td>First</td>
<td>Row</td>
</tr>
<tr>
<td>Second</td>
<td>Row</td>
</tr>
</table>
```

Cells Spanning Multiple Columns

```
<h4>Cell that spans two columns:</h4>
<table border="1">
<tr>
<th>Name</th>
<th colspan="2">Telephone</th>
</tr>
<tr>
<td>Bill Gates</td>
<td>555 77 854</td>
<td>555 77 855</td>
</tr>
</table>
```

```
<h4>Cell that spans two rows:</h4>
<table border="1">
<tr>
<th>First Name:</th>
<td>Bill Gates</td>
</tr>
<tr>
<th rowspan="2">Telephone:</th>
<td>555 77 854</td>
</tr>
<tr>
<td>555 77 855</td>
</tr>
</table>
```

Cells padding

<h4>Without cellpadding:</h4>

```
<table border="1">
```

```
<tr>
```

```
<td>First</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Second</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
</table>
```

<h4>With cellpadding:</h4>

```
<table border="1" cellpadding="10">
```

```
<tr>
```

```
<td>First</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Second</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
</table>
```

Cells spacing

<h4>Without cellspacing:</h4>

```
<table border="1">
```

```
<tr>
```

```
<td>First</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Second</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
</table>
```

<h4>With cellspacing:</h4>

```
<table border="1" cellspacing="10">
```

```
<tr>
```

```
<td>First</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Second</td>
```

```
<td>Row</td>
```

```
</tr>
```

```
</table>
```


10. HTML Lists

Unordered Lists

Ordered Lists

Definition Lists

Nested Lists

Unordered Lists

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

Ordered Lists

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

Definition Lists

<dl> tag (definition list).
<dt> tag (definition term).

```
<h4>A Definition List:</h4>
<dl>
<dt>Coffee</dt>
<dd>Black hot drink</dd>
<dt>Milk</dt>
<dd>White cold drink</dd>
</dl>
```

Nested lists

```
<h4>A nested List:</h4>
<ul>
<li>Coffee</li>
<li>Tea</li>
<ul>
<li>Black tea</li>
<li>Green tea</li>
</ul>
</li>
<li>Milk</li>
</ul>
```

11. HTML Forms & Input

Forms

input Tag and Attributes

action Attribute

Form Examples

HTML forms are used to collect different kinds of user input. A form is an area that can contain form elements.

Form elements are elements that allow the user to enter information in a form (like text fields, text area fields, drop-down menus, radio buttons, check boxes, and so on).

```
<form name="input" action="html_form_action.asp" method="get">
```

Type your first name:

```
<input type="text" name="FirstName" value="Mickey" size="20">
```


Type your last name:

```
<input type="text" name="LastName" value="Mouse" size="20">
```



```
<input type="submit" value="Submit">
```

12. HTML 4.01 Quick List

HTML Basic Document

```
<html>
```

```
<head>
```

```
<title>Document name goes here</title>
```

```
</head>
```

```
<body>
```

Visible text goes here

```
</body>
```

```
</html>
```

Heading Elements

```
<h1>Largest Heading</h1>
```

```
<h2> ... </h2>
```

```
<h3> ... </h3>
```

```
<h4> ... </h4>
```

```
<h5> ... </h5>
```

```
<h6>Smallest Heading</h6>
```

Text Elements

```
<p>This is a paragraph</p>
```

```
<br /> (line break)
```

```
<hr /> (horizontal rule)
```

```
<pre>This text is preformatted</pre>
```

Logical Styles

```
<em>This text is emphasized</em>
```

```
<strong>This text is strong</strong>
```

`<code>This is some computer code</code>`

Physical Styles

`This text is bold`

`<i>This text is italic</i>`

Links, Anchors, and Image Elements

`This is a Link`

``

`Send e-mail`

A named anchor:

`Useful Tips Section`

`Jump to the Useful Tips Section`

Unordered (Bulleted) List

``

`First item`

`Next item`

``

Ordered (Numbered) List

``

`First item`

`Next item`

``

Definition List

`<dl>`

`<dt>First term</dt>`

`<dd>Definition</dd>`

`<dt>Next term</dt>`

`<dd>Definition</dd>`

`</dl>`

Tables

`<table border="1">`

`<tr>`

`<th>someheader</th>`

`<th>someheader</th>`

`</tr>`

`<tr>`

`<td>sometext</td>`

`<td>sometext</td>`

`</tr>`

`</table>`

Frames

`<frameset cols="25%,75%">`

```
<frame src="page1.htm">
<frame src="page2.htm">
</frameset>
```

Forms

```
<form action="http://www.example.com/test.asp" method="post/
get">
<input type="text" name="lastname" value="Nixon" size="30"
maxlength="50">
<input type="password">
<input type="checkbox" checked="checked">
<input type="radio" checked="checked">
<input type="submit">
<input type="reset">
<input type="hidden">
<select>
<option>Apples
<option selected="selected">Apples</option>
<option selected>Bananas
<option selected="selected">Bananas</option>
<option>Cherries
<option>Cherries</option>
</select>
<textarea name="Comment" rows="60" cols="20"></textarea>
</form>
```

Entities

< is the same as <
> is the same as >
© is the same as ©

Other Elements

```
<!-- This is a comment -->
<blockquote>
Text quoted from some source.
</blockquote>
<address>
Address 1<br>
Address 2<br>
City<br>
</address>
```