# HTML Quick Reference Guide

*Spinning the Web* — Andrew Ford — 1–85032–141–8
*The WorldWideWeb Handbook* — Peter Flynn — 1–85032–205–8
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- Element names are not case sensitive
- Documents start with a `<!doctype>` statement, followed by a header and text body enclosed in `<html>...</html>`
- The header is enclosed in `<head>...</head>`
- The text body is enclosed in `<body>...</body>`
- Comments are written as `<!-- A comment -->`

Elements in dark gray are not in HTML 2.0 but are supported by browsers: elements in light gray are obsolescent. Optional attributes are given in [square brackets]. The full DTD can be found at `http://www.w3.org/hypertext/WWW/MarkUp/MarkUp.html`

## Sample document

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML//EN">
<html>
  <head> <!-- A sample document -->
    <title>Document title</title>
    <link rev="made" href="mailto:info@itpuk.co.uk">
  </head>
  <body>
    <h1>Top-level heading</h1>
    <p>First paragraph of text.</p>
    <ul> <!-- A bulleted list -->
      <li>First list item</li>
      <li>Second list item, with a hypertext
      <a href="info.html">link<a> to another file.</li>
    </ul> <h2>Second-level heading</h2>
    <p>Another paragraph, <img alt="Picture of me"
       align="bottom" src="mypic.gif">
       with an illustration.</p>
  </body>
</html>
```

## Header elements

| | |
|---|---|
| **<title>...</title>** | Document running title (not part of the text), recommended maximum length 64 characters |
| **<link ...>** | Relationships for the document as a whole: attributes `rel`, `rev`, `href` |
| **<base href="*url*">** | Defines the default structure for any partial (incomplete) URLs in the document |
| **<isindex>** | Document is a script which handles searches |
| **<meta ...>** | Embed meta-information for the server: attributes `http-equiv`, `name`, `content` |
| **<nextid n="*id*">** | Editor assigns next identifier to be generated |

## Section headings

| | |
|---|---|
| **<h*n*>...</h*n*>** | Section headings, six levels available `<h1>` to `<h6>` |

## Block-oriented elements

| | |
|---|---|
| ** ... ** | Paragraphs of regular text |
| **<address>...</address>** | Address information |
| **<blockquote>...</blockquote>** | Block quotations (may contain paragraphs) |
| **<pre>...</pre>** | Preformatted text (fixed-width characters) |
| **<hr>** | Horizontal rule |

### Lists

| | |
|---|---|
| **<ol>...</ol>** | Ordered lists, items numbered consecutively |
| **<ul>...</ul>** | Unordered lists, items bulleted |
| **<menu>...</menu>** | Menu lists |
| **<dir>...</dir>** | Directory lists |
| **<li>...</li>** | List items within ordered, unordered, menu, and directory lists |
| **<dl>...</dl>** | Definition lists |
| **<dt>...</dt>** | Definition term in a definition list |
| **<dd>...</dd>** | Definition discussion in a definition list, may contain other block-oriented elements |

The `<ol>`, `<ul>`, `<menu>`, `<dir>`, and `<dl>` elements may have a `compact` attribute.

## Inline elements

### Logical markup

| | |
|---|---|
| **<cite>...</cite>** | *Citations* |
| **<code>...</code>** | `Computer code` |
| **<dfn>...</dfn>** | *Defining instance* (see HTML3) |
| **...** | *Emphasis* |
| **<kbd>...</kbd>** | **Keyboard input** |
| **<samp>...</samp>** | `Literal characters` |
| **<strike>...</strike>** | ~~strike out~~ (see HTML3) |
| **...** | **Strong emphasis** |
| **<var>...</var>** | `Variable name` |

### Visual markup

| | |
|---|---|
| **...** | **Bold type** |
| **<br>** | Forced linebreak |
| **...** | *Italic type* |
| **<tt>...</tt>** | `Typewriter type` |
| **<u>...</u>** | Underlined |

### Hypertext links

| | |
|---|---|
| **<a href="*url*">...</a>** | Link to another document or resource |
| **<a href="*url*#*label*">...</a>** | Link to a specific destination in another document |
| **<a href="#*label*">...</a>** | Link to a specific destination in the same document |
| **<a name="*label*">...</a>** | Labels the surrounded text as a target destination |

An `<a>` element may contain both `href` and `name` attributes.

## Uniform Resource Locators (URLs)

These specify the location of a resource for a hypertext link:

**`http://www.thomson.com`*`:80`*`/catalog/order.html?`*`searchterm`***

| one of... | ↓ | ↓ | ↓ | ***`#location`*** |
|---|---|---|---|---|
| `http://` | Internet server | directory | filename | options: |
| `gopher://` | hostname or IP | name | | searching means |
| `ftp://` | address with | | | URL must be a |
| `telnet://` | optional port. | | | script; using a |
| `mailto:` | Email address. | | | location implies |
| `news:` | Newsgroup name. | | | target label |

Note `mailto:` and `news:` have no double slash. exists (see `<a>`).

## Images

External images are specified with the `<a>` element as hypertext links. Inline images are specified as **`<img src="`*`url`*`"`** [**`align="..."`**] [**`alt="..."`**] [**`ismap`**]**`>`** The value of `align` can be `top`, `middle` or `bottom`. The `alt` attribute provides text for non-graphical users and is strongly recommended. An image map (clickable image) is an `<img>` with `ismap` inside an `<a>` element pointing to a server map file:

```
<a href="http://www.foo.bar/cgi-bin/imagemap/mypic">
  <img src="http://www.foo.bar/mypic.gif"
   alt="Image map" ismap> </a>
```

## Forms

**`<form method="..." action="`*`url`*`">...</form>`**
The URL should be a script or may use `mailto:` The `method` is `GET` or `POST`, depending on how you want the data returned. Within a form, input fields are defined with:

- for multiline text input (surrounds prompting text):
  **`<textarea name="..." rows="`*`n`*`" cols="`*`n`*`">...</textarea>`**
- for single-line input: **`<input name="..." type="..." [...]>`**
  The `type` can be one of `text`, `checkbox`, `radio`, `hidden`, `password`, `reset`, or `submit`. Other attributes are `align`, `checked`, `size`, `maxlength`, `src`, and `value`. All `<input>` fields of a `radio` or `checkbox` group must have the same `name`.
- for menus: **`<select name="..." [multiple]>...</select>`**
  Options are given with **`<option`** [**`value="..."`**]**`>`**... [**`</option>`**] within the `<select>...</select>`. Individual options can have an attribute of `selected` or `disabled`. If no `value` is given, the element content is used.

### Example form

```
<hr> <form method="GET"
 action="http://www.foo.bar/cgi-bin/script">
  <p>Name: <input name="name" type="text" size="20"><br>
  Operating system: <select name="opsys"><option>Unix
  <option>VMS<option>Mac<option>DOS<option></select></p>
  <p><textarea name="comments" rows="4" columns="40">
     Please write your comments here...</textarea></p>
  <p><input type="submit"> <input type="reset"></p>
</form> <hr>
```

## Special characters

| | | |
|---|---|---|
| `<` | < | less-than symbol |
| `>` | > | greater-than symbol |
| `&` | & | ampersand |
| `"` | " | unidirectional double quote |
| ` ` | ␣ | non-breaking space |
| `` | - | soft hyphen |

## ISO Latin-1 characters

| | | | | | |
|---|---|---|---|---|---|
| `À` | À | capital A, grave accent | `ï` | ï | small i, diæresis/umlaut |
| `à` | à | small a, grave accent | `Ð` | Ð | capital Eth, Icelandic |
| `Á` | Á | capital A, acute accent | `ð` | ð | small eth, Icelandic |
| `á` | á | small a, acute accent | `Ñ` | Ñ | capital N, tilde |
| `Â` | Â | capital A, circumflex | `ñ` | ñ | small n, tilde |
| `â` | â | small a, circumflex | `Ò` | Ò | capital O, grave accent |
| `Ã` | Ã | capital A, tilde | `ò` | ò | small o, grave accent |
| `ã` | ã | small a, tilde | `Ó` | Ó | capital O, acute accent |
| `Ä` | Ä | capital A, diæresis/umlaut | `ó` | ó | small o, acute accent |
| `ä` | ä | small a, diæresis/umlaut | `Ô` | Ô | capital O, circumflex |
| `Å` | Å | capital A, ring | `ô` | ô | small o, circumflex |
| `å` | å | small a, ring | `Õ` | Õ | capital O, tilde |
| `Æ` | Æ | capital AE ligature | `õ` | õ | small o, tilde |
| `æ` | æ | small ae ligature | `Ö` | Ö | capital O, diæresis/umlaut |
| `Ç` | Ç | capital C, cedilla | `ö` | ö | small o, diæresis/umlaut |
| `ç` | ç | small c, cedilla | `Ø` | Ø | capital O, slash |
| `È` | È | capital E, grave accent | `ø` | ø | small o, slash |
| `è` | è | small e, grave accent | `Ù` | Ù | capital U, grave accent |
| `É` | É | capital E, acute accent | `ù` | ù | small u, grave accent |
| `é` | é | small e, acute accent | `Ú` | Ú | capital U, acute accent |
| `Ê` | Ê | capital E, circumflex | `ú` | ú | small u, acute accent |
| `ê` | ê | small e, circumflex | `Û` | Û | capital U, circumflex |
| `Ë` | Ë | capital E, diæresis/umlaut | `û` | û | small u, circumflex |
| `ë` | ë | small e, diæresis/umlaut | `Ü` | Ü | capital U, diæresis/umlaut |
| `Ì` | Ì | capital I, grave accent | `ü` | ü | small u, diæresis/umlaut |
| `ì` | ì | small i, grave accent | `Ý` | Ý | capital Y, acute accent |
| `Í` | Í | capital I, acute accent | `ý` | ý | small y, acute accent |
| `í` | í | small i, acute accent | `Þ` | Þ | capital Thorn, Icelandic |
| `Î` | Î | capital I, circumflex | `þ` | þ | small thorn, Icelandic |
| `î` | î | small i, circumflex | `ß` | ß | small sharp s, German sz |
| `Ï` | Ï | capital I, diæresis/umlaut | `ÿ` | ÿ | small y, diæresis/umlaut |

# HTML3

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 3.0//EN">
```

## Header elements

**<style notation="...">**...**</style>** Encloses stylesheet information

**<range from="*label*" until="*label*">** Specifies range marked in text with <spot id="*label*"> elements

## Structural markup

All structural elements can have `class`, `lang`, `id`, `clear` and `background` attributes. Heading and list-oriented elements can have `seqnum`, `dingbat`, `src`, and `nowrap`. The `align` attribute can be used to affect visual positioning (e.g. `align="center"`).

**<banner>**...**</banner>** Encloses static information to remain on display

**<bq>**...**</bq>** Synonymous with <blockquote>

** **...** ** To mark divisions (chapter, section, etc)

**<lh>**...**</lh>** In lists, supplies a list header or title before the first <li> or <dt>

**<note role="...">**...**</note>** Identifies footnotes, sidenotes etc

**<spot id="*label*">** Marks a reference point for <range>

## Logical markup

**<a id="*label*">** Use of `id` replaces `name` in anchors

**<abbrev>**...**</abbrev>** Identifies an abbreviation

**<acronym>**...**</acronym>** Identifies an acronym

**<au>**...**</au>** Authors' names

**<del>**...**</del>** Marks text as having been deleted but kept for reference purposes

**<dfn>**...**</dfn>** ***Defining instance***

**<ins>**...**</ins>** Marks new text inserted

**<lang>**...**</lang>** Identifies a language other than the basic one of the document

**<person>**...**</person>** Personal names

**<q>**...**</q>** Encloses quoted speech (adds "quotes" automatically)

**<sub align="...">**...**</sub>** Subscripts

**<sup align="...">**...**</sup>** Superscripts

## Visual markup

**<big>**...**</big>** Designates bigger text (see <small>)

**<s>**...**</s>** Replaces <strike> for ~~strikeout text~~ (see also <ins> and <del>)

**<small>**...**</small>** Designates smaller text (see <big>)

**<tabstop id="*label*">** Sets tab stop at current location

**<tab to="*label*">** Tabs to the labelled position

## Figures

**<figure src="/url">**...**</figure>** Encloses a figure

**<caption>**...**</caption>** Supplies a caption

**<credit>**...**</credit>** Supplies a credit

Within figures, <a> elements can have a `shape` attribute which identifies a polygon in the image that the user can click on:

```
<figure id="d69" src="http://abc.xyz.org/~pat/house.gif"
align="center">
  <caption align="bottom">My house</caption>
  <p>Picture of my mansion in the hills above
     Naples, note the <a href="fire.html"
     shape="rect 20,120,50,140">hole in the roof</a>
     where the lightning struck.</p>
  <credit>The local paper took this shot.</credit>
</figure>
```

## Forms

**<input type="file"...>** Allows uploading of files to a server, permitted types specified with `accept` (change `enctype` of <form> to `multipart/form-data`)

**<input type="scribble"...>** For pen input

**<input type="audio"...>** For sound input

## Mathematics

**<math** [**model="..."**]**>**...**</math>** Encloses a formula

**<box>**...**</box>** Surrounds symbols to be treated as a whole, optional `delim` attribute

**<over>** and **<atop>** Separate lined and unlined fractions

**<above>**...**</above>** Identifies numerator

**<below>**...**</below>** Identifies denominator

**<root root="*n*">** Root, degree specified as *n*

**<array>**...**</array>** LaTeX-like arrays

**<arow>**...**</arow>** Row within an array

**<item>**...**</item>** Item within a row in an array

To minimize typing, <sub> and <sup> tags can be replaced with the underscore (_) and caret (^) respectively, and <box> tags can be replaced with {curly braces}, e.g. `E=mc^2^`

## Tables

**<table** [**border**]**>**...**</table>** Defines a table

**<caption>**...**</caption>** Supplies a caption

**<tr>**...**</tr>** Encloses a table row

**<th>**...**</th>** Encloses a column or row header inside a row

**<td>**...**</td>** Encloses table data (a cell value)

```
<table border>
  <tr><th>Item</thi><th>Quantity</th></tr>
  <tr><th>Population</th></td>384,000</td></tr>
  <tr><th>Sample</th></td>384</td></tr>
  <caption>Fig 1. Survey Frame</caption> </table>
```

The <th> and <td> elements can have `align` and `span` attributes.

## Additional characters from ISO 8859-1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ` ` | ` ` | ␣ | non-breaking space | `±` | `±` | ± | plus-or-minus sign |
| `¡` | `¡` | ¡ | inv. exclamation mark | `²` | `²` | ² | superscript two |
| `¢` | `¢` | ¢ | cent sign | `³` | `³` | ³ | superscript three |
| `£` | `£` | £ | pound sign | `´` | `´` | ´ | acute accent |
| `¤` | `¤` | ¤ | general currency sign | `µ` | `µ` | µ | micro sign |
| `¥` | `¥` | ¥ | yen sign | `¶` | `¶` | ¶ | pilcrow (paragraph) |
| `¦` | `¦` | ¦ | broken (vertical) bar | `·` | `·` | · | middle dot |
| `§` | `§` | § | section sign | `¸` | `¸` | ¸ | cedilla |
| `¨` | `¨` | ¨ | umlaut/dieresis | `¹` | `¹` | ¹ | superscript one |
| `©` | `©` | © | copyright sign | `º` | `º` | º | ordinal indicator, male |
| `ª` | `ª` | ª | ordinal indicator, fem | `»` | `»` | » | angle quotation, right |
| `«` | `«` | « | angle quotation, left | `¼` | `¼` | 1/4 | fraction one-quarter |
| `¬` | `¬` | ¬ | not sign | `½` | `½` | 1/2 | fraction one-half |
| `` | `` | - | soft hyphen | `¾` | `¾` | 3/4 | fraction three-quarters |
| `®` | `®` | ® | registered sign | `¿` | `¿` | ¿ | inv. question mark |
| `¯` | `¯` | ¯ | macron | `×` | `×` | × | Multiply sign |
| `°` | `°` | ° | degree sign | `÷` | `÷` | ÷ | Division sign |

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