

# Web Development - HTML language

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HyperText Markup Language, commonly referred to as HTML, is the standard markup language used to create web pages. Although this language itself is not hard to learn, the huge amount of tags that were involved in the language usually make new learners feel overwhelmed at first contact. This manual serves the pure purpose as a look up manual for all the tags. We will proceed alphabetically.

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- `<!-- ... -->` is the comment tag, the `...` inside is the comment message. Notice that this supports multiline comments.
- `<!DOCTYPE>` Usually we put `<!DOCTYPE html>` as the first line in a html file to tell the browser to use html 5 as the language. Do notice that browsers are indifferent to the capitalization, but we do this to follow the convention.
- `<a>` is the syntax for a hyper-reference, for example we can write `<a href="/path/to/something">go to something</a>` and this will generate a hyper-linked text “go to something” which will take you to that something. Similar to the way it is in a Microsoft Office, the hyper-link has color to different its status: blue for not-clicked and purple for already accessed.
- `<abbr>` defines an abbreviation. You can write, for example, `<abbr title="university of Toronto">UofT</abbr>`, which will display “UofT” on the outside and when you hover your mouse over the word, the full name will appear.
- `<address>` defines contact information. The typical uses (by convention) of the address tag are:
  1. If the `<address>` tag is inside the body element, then it provides the info for contacting the owner/writer of the entire document.
  2. If the `<address>` tag is inside a article element, then it provides the info for contacting the owner/writer of that particular article section.
  3. Otherwise, the `<address>` tag is usually in the “other” part of footer section of the page.

notice that by very strong convention we never use address tag directly for an address, unless the address is one part of a bigger family of information.

- `<area>` defines area inside a click-able image, which means area is always inside a map tag. We can use area for hyperlinks, for example `<area shape="rect/circle" coords="???" alt="???" href="?.htm">`, which will direct us to the `?.htm` refer-ed upon clicked inside the cords for that particular shape

- `<article>` defines an area for article. This is particularly useful for posts in a BBS, articles in a blog, news or stories and comments that users leave on a certain site.
- `<aside>` defines a supplementary section for the article section (defined above). And by very strong convention, the stuff inside the aside tag has to have connection with the near-by article. In day to day use, this could be used as the side column (for annotations, comments, etc).
- `<audio>` is for audio. The audio element supports MP3, Wav and Ogg. Notice that not every browser supports such tag, so may wish put text inside this tag and those text will be displayed in cases that the browser doesn't support the audio tag.
- `<b>` stands for bold, one of the most commonly used tags if not the most common tag used.
- `base` specifies, for the page, the default absolute home path that will be used and the default method that a new tab/page window will open upon clicking a hyper-refed link. For example, as mentioned before, setting `target=_blank` will tell the browser to open a new tab for newly opened page. We shall put this inside the head section at the first line (and can only be used once), so that the rest of the head section could benefit from this default setting.
- `<bdi>` is called bi-directional isolation. This allows text inside this tag to be different direction than the parent section. This may sound silly at first, but do remember that not all language writes from left to right, for example Hebrew writes from right to left. But if that is the case, your left and right is swapped inside these characters while they are still what used to be outside, and this could confuse the compiler a lot. A typical use case would be a comment area that is designed for multi-nation access where you have absolutely no control over what the users will post where it would be a good idea to isolate each comment and allow their natural writing orientation.
- `<bdo>` is called bi-directional override. It has one required attribute `dir` which we shall set to either `ltr` (left to right) or `rtl` (right to left) to specify the direction that we want the text to appear in.

- `<big>` is for a bigger text size.
- `<blockquote>` quotes a section of text which the browser typically indents a bit. You can also set the `cite` attribute to mark the source of the information, but that will not be displayed.
- `<body>` is one of the required tags for a html document, it specifies the body section of the page, which is usually where the interesting stuff happens on a page lives.
- `<br>` is an empty tag (meaning that it has no closing tag) that stands for break (for a new line).
- `<button>` marks a button on a page.
- `<canvas>` is a container section, meaning itself has no meaning while it relies on JavaScript to “draw” on this canvas. Of course, you can still set the size of the canvas using attribute, not necessarily entirely rely on Scripts.
- `<caption>` is the title for a table and oddly has to come after the table section. You can have one (or none) caption per tableau.
- `<center>` is a deprecated, but yet somehow quite useful tag that forces the text to be centred in a line (or as a section).
- `<cite>` defines the title for, for example, books, songs, albums, televisions and sculptures, etc. Do notice that name for the creator is not considered as an element of the title.
- `<code>` is a code block, similar to the `texttt` command in L<sup>A</sup>T<sub>E</sub>X.
- `<col>` in cooperation with `<colgroup>` sets attributes (layout aspect) for a entire colgroup. This means that we can save ourselves from setting the layout for each cell seperately.
- `<colgroup>` is, as mentioned above, a grouping mechanism that allows coder to set attribute for multiple cells as a group.
- `<datalist>` specifies what stuff will show up inside an `<input>` tag, which acts as an “auto-fill” mechanism that allows users to see a down drop table (and the options inside are defined as a datalist object).

- `<dd>` specifies an explanatory section and is often used together with tags `<dl>`, `<dt>`. You don't have any particular restrictions inside a `dd` tag, you can still put paragraphs, links and tables, etc.
- `<del>` marks that a section of text is deleted, and is usually represented in a browser as the text with a stroke crossing it right in the middle. On the contrary, the `<ins>` tag represents newly added text and is usually underlined to stress the addition.
- `<details>` deprecated, only in chrome and safari 6.
- `<dfn>` stands definition. The font is extremely similar to oblique/italic so not recommended. If you wish to make the visual effect more stunning, you can try CSS.
- `<dialog>` defines a textbox, confirmation box or a new view-window.
- `<div>` defines a division, where you can have different default color settings and et-cetera. Although they are designed for formatting with HTML directly, it is often useful that we can group items together and format them with CSS instead.
- `<dl>` specifies a descriptive table. Mentioned before, it is used with ...
- `<dt>` specifies a item's name inside a descriptive table, it is used with ...
- `<em>` stands for emphasize which basically looks like italic.
- `<embed>` defines a container that allows other applications to run. Most commonly used as a container for flash animations. Use the `src` to specify where the external application is, for example `<embed src="hah.swf">`
- `<fieldset>` can divide a form into similar/related elements. It will also create a box that surrounds, to indicate an entity of fieldset. This is particularly useful for forms that have many aspects. You can have fieldsets basic info, hobbies, education, et-cetera so that the form looks organized – each section contains and only contains that they should contain, nothing more and nothing less than that.

- `<figcaption>` defines captions for `<figure>` tags. In naive words, this defines what comes below a figure, usually an explanatory paragraph of what is the content of the picture.
- `<figure>` is for the insertion of an image.
- `<font>` defines a font section, in which all text inside have to obey the rules set inside the font tag.
- `<footer>` too common, omitted
- `<form>` is a section that interacts with the user, you can add text boxes, buttons in this section, more on this later
- `<frame>` allows for display of multiple htm/html pages together side to side. Use `frameset` to configure the layout of the page. (see below)
- `<frameset>`