HTML5

QUICK REFERENCE GUIDE

- •New Selectors
- •New Properties
- •Animations
- •2D/3D Transformations
- •Rounded Corners
- •Shadow Effects
- •Downloadable Fonts

HTML

WHAT IS HTML5?

HTML5 is being developed as the next major revision of HTML.This code can now be used for new functions that can benefit developers and Internet users.
HTML5 introduces a number of new elements and attributes. Here are the most i mortantof them: **canvas, video, geolocation, offline web applications**

HTML5 DIFFERENCES WITH HTML 4.01 AND XHTML 1.X

- New parsing rules: oriented towards flexible parsing and compatibility; not based on SGML.
- Ability to use inline SVG and MathML in `text/html`.
- New elements: `article, aside, audio, bdi, canvas, command, datalist, embed, figcaption, figure, footer, header, hgroup, keygen, meter, nav, output, rp, rt, ruby, section, source, summary, time, video, wbr`.
- New tipes of form control: `dates and times, email, url, search, color`.
- New attributes: `charset` (on meta), `async` (on script).
- Global attributes: `id, tabindex, hidden, data`.
- Deprecated elements wil be dropped altogether: `acronym, basefont, big, tt, center, dir, font, frame, frameset, isindex, noframes, strike, u`.

HTML5 Document Template

```
<!DOCYPE html>
<html>
    <head>
      <meta charset="UTF-8">
      <title>HTML5</title>
      <link rel="stylesheet" href="file.css">
      <script src="file.js"></script>
    </head>

    <body>
    </body>
</html>
```

> A character in UTF8 can be from 1 to 4 bytes long. UTF-8 can represent any character in the Unicode standard. UTF-8 is backwards compatible with ASCII. UTF-8 is the preferred encoding for e-mail and web pages.

Metadata & scripting

Tag	Description	Attributes
`<head>`	*Defines information about the document*	none
`<title>`	*Defines a title for the document*	none
`<meta>`	*Defines metadata about an HTML document*	charset, content, http-equiv, name
`<base>`	*Specifies the base URL/target for all relative URLs in a document*	href, target
`<link>`	*Defines the relationship between a document and an external resource (most used to link to style sheets)*	href, rel, media, hreflang, type, sizes
`<style>`	*Defines style information for a document*	media, type, scoped
`<noscript>`	*Defines an alternate content for users that do not support client-side scripts*	none
`<script>`	*Defines a client-side script*	async, type, defer, src, charset

Document sections

Tag	Description	Attributes
`<body>`	*Defines the document's body*	**Global attributes**
`<aside>`	*Defines content aside from the page content*	**Global attributes**
`<address>`	*Defines contact information for the author/owner of a document/article*	**Global attributes**
`<section>`	*Defines a section in a document*	`cite`
`<header>`	*Specifies an introduction, or a group of navigation elements for a document*	**Global attributes**
`<nav>`	*Defines navigation links, it is intended only for major block of navigation links.*	**Global attributes**
`<article>`	*Defines an article*	**Global attributes**
`<footer>`	*Defines a footer for a document or section A footer typically contains the author of the document, copyright information, links to terms of use, contact information, etc.*	**Global attributes**
`<hgroup>`	*Groups a set of <h1> to <h6> elements when a heading has multiple levels*	**Global attributes**
`<h1>` to `<h6>`	*Defines HTML headings*	**Global attributes**

Grouping content

Tag	Description	Attributes
`<hr>`	*Defines a thematic change in the content*	**Global attributes**
` `	*Defines a single line break*	**Global attributes**
`<figcaption>`	*Defines a caption for a `<figure>` element*	**Global attributes**
`<figure>`	*Specifies self-contained content*	**Global attributes**
`<div>`	*Defines a section in a document*	**Global attributes**
`<ol>`	*Defines an ordered list*	`start, reversed`
`<ul>`	*Defines an unordered list*	**Global attributes**
`<li>`	*Defines a list item, tag is used in ordered lists, unordered lists and in menu lists*	**Global attributes**
`<pre>`	*Defines preformatted text*	**Global attributes**
`<blockquote>`	*Defines a section that is quoted from another source*	`cite`
`<dl>`	*Defines a definition list*	**Global attributes**
`<dt>`	*Defines a term (an item) in a definition list*	**Global attributes**
`<dd>`	*Defines a description of an item in a definition list*	**Global attributes**

Forms

Tag	Description	Attributes
`<fieldset>`	*Groups related elements in a form*	`disabled`, `form`, `name`
`<meter>`	*Defines a scalar measurement within a known range*	`high`, `low`, `max`, `min`, `optimum`, `value`
`<legend>`	*Defines a caption for a <fieldset>, <figure>, or <details> element*	**Global atributes**
`<label>`	*Defines a label for an input element*	`for`, `form`
`<input>`	*Defines an input control*	`accept`, `alt`, `auto-complete` `autofocus`, `checked`, `disabled`, `form`, `formaction`, `formenctype`, `formmethod`, `formnovalidate`, `formtarget`, `height`, `list`, `max`, `maxlegth`, `min`, `multiple`, `name`, `pattern`, `placeholder`, `readonly`, `required`, `size`, `src`, `step`, `type`, `value`, `width`
`<textarea>`	*Defines navigation links, it is intended only for major block of navigation links*	`autofocus`, `cols`, `disabled`, `dirname`, `form`, `name`, `readonly`, `requierd`, `rows`, `maxlength`, `placeholder`, `wrap`
`<form>`	*Defines an HTML form for user input*	`action`, `autocomplete`, `name`, `novalidate`,`accept-charset`, `enctype`, `method`, `target`
`<select>`	*Defines a drop-down list*	`autofocus`, `size`, `disabled`, `form`, `multiple`, `name`
`<optgroup>`	*Groups a set of <h1> to <h6> elements when a heading has multiple levels*	`disabled`, `label`
`<option>`	*Defines an option in a drop-down list*	`disabled`, `label`, `selected`, `value`
`<output>`	*Defines the result of a calculation*	`form`, `for`, `name`
`<button>`	*Defines a clickable button*	`autofocus`, `disabled`, `form`, `formaction`, `formenctype`, `formmethod`, `formnovalidate`, `formtarget`, `name`, `type`, `value`
`<datalist>`	*Specifies a list of pre-defined options for input controls*	**Global atributes**
`<keygen>`	*Defines a key-pair generator field (for forms)*	`autofocus`, `challenge`, `disabled`, `form`, `kaytype`, `name`
`<progress>`	*Represents the progress of a task*	`max`, `value`

Tabular data

Tag	Description	Attributes
`<col>`	*Specifies column properties for each column within a <colgroup> element*	`span`
`<colgroup>`	*Specifies a group of one or more columns in a table for formatting*	`span`
`<caption>`	*Defines a table caption*	**Global attributes**
`<table>`	*Defines a table*	`summary`
`<tr>`	*Defines a row in a table*	**Global attributes**
`<td>`	*Defines a cell in a table*	`colspan, rowspan, headres`
`<th>`	*Defines a header cell in a table*	`colspan, rowspan, headres`
`<tbody>`	*Groups the body content in a table*	**Global attributes**
`<thead>`	*Groups the header content in a table*	**Global attributes**
`<tfoot>`	*Groups the footer content in a table*	**Global attributes**

Embeddig content

Tag	Description	Attributes
`<img>`	*Defines an image*	`alt, src, height, ismap, usemap, width`
`<area>`	*Defines an area inside an image-map*	`alt, cords, href, media, rel, hreflang, type, shape, target`
`<map>`	*Defines a client-side image-map*	`name`
`<embed>`	*Defines a container for an external application or interactive content (a plug-in)*	`height, src, type, width`
`<object>`	*Defines an embedded object*	`data, height, type, form, usemap, width`
`<param>`	*Defines a parameter for an object*	`name, value`
`<source>`	*Defines multiple media resources for media elements (<video> and <audio>)*	`media, src, type`
`<iframe>`	*Defines an inline frame*	`src, name, sandbox, width, seamless, height, srcdoc`
`<canvas>`	*Used to draw graphics, on the fly, via scripting (usually JavaScript)*	`height, width`

`<video>`	Defines a video or movie	audio, autoplay, controls, height, loop, poster, preload, src, width
`<track>`	Defines text tracks for media elements (<video> and <audio>)	/
`<audio>`	Defines sound content	autobuffer, preload, loop, controls, src
`<device>`	Allows scripts to access devices such as a webcam.	/

Text-level semantics

Tag	Description	Attributes
`<span>`	Defines a section in a document	**Global attributes**
`<a>`	Defines a hyperlink (a hypertext anchor)	href, hreflang, media, rel, target, type
`<rt>`	Defines an explanation/pronunciation of characters (for East Asian typography)	/
`<rp>`	Defines what to show in browsers that do not support ruby annotations	**Global attributes**
`<dfn>`	Defines a definition term	**Global attributes**
`<abbr>`	Defines an abbreviation	**Global attributes**
`<q>`	Defines a short quotation	cite
`<cite>`	Defines the title of a work	**Global attributes**
`<em>`	Defines emphasized text	**Global attributes**
`<time>`	Defines a date/time	datetime, pubdate
`<var>`	Defines a variable (mathematical or programming)	**Global attributes**
`<samp>`	Defines sample output from a computer program	**Global attributes**
`<i>`	Defines a part of text in an alternate voice or mood	**Global attributes**
`<b>`	Defines bold text	**Global attributes**
`<sub>`	Defines subscripted text	**Global attributes**
`<sup>`	Defines superscripted text	**Global attributes**
`<small>`	Defines smaller text	**Global attributes**
`<strong>`	Defines important text	**Global attributes**
`<mark>`	Defines marked/highlighted text	**Global attributes**

`<ruby>`	*Defines a ruby annotation (for East Asian typography)*	**Global attributes**
`<ins>`	*Defines a text that has been inserted into a document*	`cite, datetime`
`<del>`	*Defines a text that has been deleted from a document*	`cite, datetime`
`<kbd>`	*Defines keyboard input*	**Global attributes**
`<bdo>`	*Overrides the current text direction*	**Global attributes**
`<s>`	*Defines text that is no longer correct*	**Global attributes**
`<wbr>`	*Defines a possible line-break*	**Global attributes**
`<code>`	*Defines a piece of computer code*	**Global attributes**

Interactive elements

Tag	Description	
`<menu>`	*Defines a list/menu of commands*	`label, type`
`<command>`	*Defines a command button that a user can invoke*	`checked, disabled, hidden, icon, label, radiogroup, type`
`<summary>`	*Defines a visible heading for a <details> element*	**Global attributes**
`<details>`	*Defines additional details that the user can view or hide*	`open`

New APIs

In addition to specifying markup, HTML5 specifies scripting application programming interfaces (APIs). Existing document object model (DOM) interfaces are extended and "*de facto*" features documented. There are also new APIs, such as:

- The canvas element for immediate mode 2D drawing.

- Offline storage database (offline web applocations).

- Cross-document messaging

- Browser history managment

- MIME type and protocol handler registration

- Timed media playbac

- Document editing

- Drag-and-drop

- Microdata

Global Attributes

The atributes listed below are supported by all HTML 5 tags, with a few exceptions.

Attribute	Description
acceskey	Specifies a shortcut key to activate/focus an element
class	Specifies one or more classnames for an element (refers to a class in a style sheet)
contenteditable	Specifies whether the content of an element is editable or not
contextmenu	Specifies a context menu for an element. The context menu appears when a user right-clicks on the element
dir	Specifies the text direction for the content in an element
draggable	Specifies whether an element is draggable or not
dropzone	Specifies whether the dragged data is copied, moved, or linked, when dropped
hidden	Specifies that an element is not yet, or is no longer, relevant
id	Specifies a unique id for an element
lang	Specifies the language of the element's content
spellcheck	Specifies whether the element is to have its spelling and grammar checked or not
style	Specifies an inline CSS style for an element
tabindex	Specifies the tabbing order of an element
title	Specifies extra information about an element

Legend:

Tags colored with orange background denotes new tags in HTML5.

New attributes which are new in HTML5 are underlined.