HTML ELEMENT REFERENCE

HTML Tags Ordered Alphabetically

Tag

<!--->

<!DOCTYPE>

<a>

<abbr>

<acronym>

<address>

<applet>

<area>

<article>

<aside>

<audio>

<base>

<base>

<bd>di>

<bdo>

big>

<blook
duote>

<body>

<u>
</u>

<button>

<canvas

<caption>

<center>

<cite>

<code>

Description

Defines a comment

Defines the document type

Defines a hyperlink

Defines an abbreviation or an acronym

Not supported in HTML5. Use <abbra instead.

Defines an acronym

Defines contact information for the author/owner of a document

Not supported in HTML5. Use <embed> or <object> instead.

Defines an embedded applet

Defines an area inside an image-map

Defines an article

Defines content aside from the page content

Defines sound content

Defines bold text

Specifies the base URL/target for all relative URLs in a document

Not supported in HTML5. Use CSS instead.

Specifies a default color, size, and font for all text in a document

Isolates a part of text that might be formatted in a different direction

from other text outside it

Overrides the current text direction

Not supported in HTML5. Use CSS instead.

Defines big text

Defines a section that is quoted from another source

Defines the document's body

Defines a single line break

Defines a clickable button

Used to draw graphics, on the fly, via scripting (usually JavaScript)

Defines a table caption

Not supported in HTML5. Use CSS instead.

Defines centered text

Defines the title of a work

Defines a piece of computer code

Specifies column properties for each column within a <colgroup>

	element
<colgroup></colgroup>	Specifies a group of one or more columns in a table for formatting
<data></data>	Links the given content with a machine-readable translation
<datalist></datalist>	Specifies a list of pre-defined options for input controls
<u><dd></dd></u>	Defines a description/value of a term in a description list
<u></u>	Defines text that has been deleted from a document
<details></details>	Defines additional details that the user can view or hide
<u><dfn></dfn></u>	Represents the defining instance of a term
<dialog></dialog>	Defines a dialog box or window
<dir></dir>	Not supported in HTML5. Use ul> instead. Defines a directory list
<div></div>	Defines a section in a document
<u><dl></dl></u>	Defines a description list
<u><dt></dt></u>	Defines a term/name in a description list
<u></u>	Defines emphasized text
<embed/>	Defines a container for an external (non-HTML) application
< <u>fieldset></u>	Groups related elements in a form
<figcaption></figcaption>	Defines a caption for a < figure > element
<figure></figure>	Specifies self-contained content
	Not supported in HTML5. Use CSS instead. Defines font, color, and size for text
<footer></footer>	Defines a footer for a document or section
<form></form>	Defines an HTML form for user input
<frame/>	Not supported in HTML5. Defines a window (a frame) in a frameset
<frameset></frameset>	Not supported in HTML5. Defines a set of frames
<h1> to <h6></h6></h1>	Defines HTML headings
<head></head>	Defines information about the document
<header></header>	Defines a header for a document or section
<u><hr/></u>	Defines a thematic change in the content
<html></html>	Defines the root of an HTML document
<u><i></i></u>	Defines a part of text in an alternate voice or mood
<iframe></iframe>	Defines an inline frame
	Defines an image
<input/>	Defines an input control
<u><ins></ins></u>	Defines a text that has been inserted into a document
<u><kbd></kbd></u>	Defines keyboard input
<label></label>	Defines a label for an <input/> element
< <u>legend></u>	Defines a caption for a <fieldset> element</fieldset>

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<u></u>	Defines a list item
<u><link/></u>	Defines the relationship between a document and an external resource (most used to link to style sheets)
<main></main>	Specifies the main content of a document
<u><map></map></u>	Defines a client-side image-map
<u><mark></mark></u>	Defines marked/highlighted text
<meta/>	Defines metadata about an HTML document
<meter></meter>	Defines a scalar measurement within a known range (a gauge)
<nav></nav>	Defines navigation links
<noframes></noframes>	Not supported in HTML5. Defines an alternate content for users that do not support frames
<noscript></noscript>	Defines an alternate content for users that do not support client-side scripts
<object></object>	Defines an embedded object
<u></u>	Defines an ordered list
<optgroup></optgroup>	Defines a group of related options in a drop-down list
<option></option>	Defines an option in a drop-down list
<output></output>	Defines the result of a calculation
<u></u>	Defines a paragraph
<pre><param/></pre>	Defines a parameter for an object
<pre><picture></picture></pre>	Defines a container for multiple image resources
<pre><pre><</pre></pre>	Defines preformatted text
<pre><pre>cprogress></pre></pre>	Represents the progress of a task
<u><q></q></u>	Defines a short quotation
<u><rp></rp></u>	Defines what to show in browsers that do not support ruby annotations
<u><rt></rt></u>	Defines an explanation/pronunciation of characters (for East Asian typography)
<ruby></ruby>	Defines a ruby annotation (for East Asian typography)
<u><s></s></u>	Defines text that is no longer correct
<samp></samp>	Defines sample output from a computer program
<script></th><th>Defines a client-side script</th></tr><tr><th><section></th><th>Defines a section in a document</th></tr><tr><th><select></th><th>Defines a drop-down list</th></tr><tr><th><small></th><th>Defines smaller text</th></tr><tr><th><source></th><th>Defines multiple media resources for media elements (<video> and <audio>)</th></tr><tr><th></th><th>Defines a section in a document</th></tr><tr><th><strike></th><th>Not supported in HTML5. Use <e > del or <s> instead. Defines strikethrough text</th></tr><tr><th></th><th>Defines important text</th></tr></tbody></table></script>	

Defines style information for a document <style> <sub> Defines subscripted text Defines a visible heading for a <details> element <summary> Defines superscripted text <sup> Defines a container for SVG graphics \leq svg>Defines a table Groups the body content in a table Defines a cell in a table <template> Defines a template <textarea> Defines a multiline input control (text area) <tfoot> Groups the footer content in a table Defines a header cell in a table <thead> Groups the header content in a table <time> Defines a date/time Defines a title for the document <title> Defines a row in a table Defines text tracks for media elements (<video> and <audio>) <track> Not supported in HTML5. Use CSS instead. <tt> Defines teletype text Defines text that should be stylistically different from normal text \leq u \geq Defines an unordered list $\langle ul \rangle$ Defines a variable <var> <video> Defines a video or movie

Defines a possible line-break

<wbr>>

All HTML Attributes

Attribute	Belongs to	Description
<u>accept</u>	<input/>	Specifies the types of files that the server accepts (only for type="file")
accept-charset	<u><form></form></u>	Specifies the character encodings that are to be used for the form submission
accesskey	Global Attributes	Specifies a shortcut key to activate/focus an element
action	<u><form></form></u>	Specifies where to send the form-data when a form is submitted
align	Not supported in HTML 5.	Specifies the alignment according to surrounding elements. Use CSS instead
<u>alt</u>	<u> <area/>, , <input/></u>	Specifies an alternate text when the original element fails to display
<u>async</u>	<script></td><td>Specifies that the script is executed asynchronously (only for external scripts)</td></tr><tr><td><u>autocomplete</u></td><td><form>, <input></td><td>Specifies whether the <form> or the <input> element should have autocomplete enabled</td></tr><tr><td><u>autofocus</u></td><td><a hre</td><td>Specifies that the element should automatically get focus when the page loads</td></tr><tr><td>autoplay</td><td><audio>, <u>≪video></u></td><td>Specifies that the audio/video will start playing as soon as it is ready</td></tr><tr><td>bgcolor</td><td>Not supported in HTML 5.</td><td>Specifies the background color of an element. Use CSS instead</td></tr><tr><td>border</td><td>Not supported in HTML 5.</td><td>Specifies the width of the border of an element. Use CSS instead</td></tr><tr><td><u>charset</u></td><td><meta>, <script></td><td>Specifies the character encoding</td></tr><tr><td>checked</td><td><input></td><td>Specifies that an <input> element should be pre-selected when the page loads (for type="checkbox" or type="radio")</td></tr><tr><td>cite</td><td> </td><td>Specifies a URL which explains the quote/deleted/inserted text</td></tr><tr><td><u>class</u></td><td>Global Attributes</td><td>Specifies one or more classnames for an element (refers to a class in a style</td></tr></tbody></table></script>	

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		sheet)
color	Not supported in HTML 5.	Specifies the text color of an element. Use CSS instead
cols	<textarea></td><td>Specifies the visible width of a text area</td></tr><tr><td><u>colspan</u></td><td><u> , </u></td><td>Specifies the number of columns a table cell should span</td></tr><tr><td>content</td><td><meta></td><td>Gives the value associated with the http-equiv or name attribute</td></tr><tr><td><u>contenteditable</u></td><td>Global Attributes</td><td>Specifies whether the content of an element is editable or not</td></tr><tr><td>controls</td><td><audio>, <video></td><td>Specifies that audio/video controls should be displayed (such as a play/pause button etc)</td></tr><tr><td><u>coords</u></td><td><area></td><td>Specifies the coordinates of the area</td></tr><tr><td>data</td><td><object></td><td>Specifies the URL of the resource to be used by the object</td></tr><tr><td>data-*</td><td>Global Attributes</td><td>Used to store custom data private to the page or application</td></tr><tr><td><u>datetime</u></td><td><u>, <ins>, <time></u></td><td>Specifies the date and time</td></tr><tr><td>default</td><td><track></td><td>Specifies that the track is to be enabled if the user's preferences do not indicate that another track would be more appropriate</td></tr><tr><td>defer</td><td><script></td><td>Specifies that the script is executed when the page has finished parsing (only for external scripts)</td></tr><tr><td>dir</td><td>Global Attributes</td><td>Specifies the text direction for the content in an element</td></tr><tr><td>dirname</td><td><u><input></u>, <u><textarea></u></td><td>Specifies that the text direction will be submitted</td></tr><tr><td>disabled</td><td><pre><button>, <fieldset>, <input>,</td><td>Specifies that the specified element/group of elements should be disabled</td></tr><tr><td>download</td><td><u><a>, <area></u></td><td>Specifies that the target will be downloaded when a user clicks on the hyperlink</td></tr><tr><td><u>draggable</u></td><td>Global Attributes</td><td>Specifies whether an element is draggable or not</td></tr><tr><td>dropzone</td><td>Global Attributes</td><td>Specifies whether the dragged data is</td></tr></tbody></table></textarea>	

		copied, moved, or linked, when dropped
<u>enctype</u>	< <u>form></u>	Specifies how the form-data should be encoded when submitting it to the server (only for method="post")
for	<label>, <output></output></label>	Specifies which form element(s) a label/calculation is bound to
<u>form</u>	<pre><button>, <fieldset>, <input/>, <label>, <meter>, <object>, <output>, <select>, <textarea></pre></td><td>Specifies the name of the form the element belongs to</td></tr><tr><td>formaction</td><td><button>, <input></td><td>Specifies where to send the form-data when a form is submitted. Only for type="submit"</td></tr><tr><td><u>headers</u></td><td><u></u>, <u></u></td><td>Specifies one or more headers cells a cell is related to</td></tr><tr><td><u>height</u></td><td><canvas>, <ennous>, <iframe>, <iing>, <input>, <object>, <object>, , <input>, <object>, <object>, <ivideo>)</td><td>Specifies the height of the element</td></tr><tr><td><u>hidden</u></td><td>Global Attributes</td><td>Specifies that an element is not yet, or is no longer, relevant</td></tr><tr><td><u>high</u></td><td><meter></td><td>Specifies the range that is considered to be a high value</td></tr><tr><td>href</td><td><a>, <area>, <base>, link></td><td>Specifies the URL of the page the link goes to</td></tr><tr><td>hreflang</td><td><a>>, <area>, link≥</td><td>Specifies the language of the linked document</td></tr><tr><td>http-equiv</td><td><meta></td><td>Provides an HTTP header for the information/value of the content attribute</td></tr><tr><td><u>id</u></td><td>Global Attributes</td><td>Specifies a unique id for an element</td></tr><tr><td>ismap</td><td><u></u></td><td>Specifies an image as a server-side image-map</td></tr><tr><td><u>kind</u></td><td><track></td><td>Specifies the kind of text track</td></tr><tr><td><u>label</u></td><td><track>, <option>, <optgroup></td><td>Specifies the title of the text track</td></tr><tr><td>lang</td><td>Global Attributes</td><td>Specifies the language of the element's content</td></tr><tr><td><u>list</u></td><td><input></td><td>Refers to a <datalist> element that contains pre-defined options for an <input> element</td></tr><tr><td><u>loop</u></td><td><audio>, <video></td><td>Specifies that the audio/video will start over again, every time it is finished</td></tr><tr><td>low</td><td><meter></td><td>Specifies the range that is considered to be a low value</td></tr></tbody></table></textarea></select></output></object></meter></label></fieldset></button></pre>	

<u>max</u>	<pre><input/>, <meter>, <pre><pre>progress></pre></pre></meter></pre>	Specifies the maximum value
<u>maxlength</u>	<input/> , <textarea></td><td>Specifies the maximum number of characters allowed in an element</td></tr><tr><td>media</td><td><a>>, <area>, <link>, <source>, <style></td><td>Specifies what media/device the linked document is optimized for</td></tr><tr><td>method</td><td><<u>form></u></td><td>Specifies the HTTP method to use when sending form-data</td></tr><tr><td><u>min</u></td><td><pre><input>, <meter></pre></td><td>Specifies a minimum value</td></tr><tr><td>multiple</td><td><pre><input>, <select></pre></td><td>Specifies that a user can enter more than one value</td></tr><tr><td>muted</td><td><<u>video></u>, <<u>audio></u></td><td>Specifies that the audio output of the video should be muted</td></tr><tr><td></td><td></td><td></td></tr><tr><td>name</td><td><pre><iframe>, <input>, <map>, <meta>, <object>, <output>,</pre></td><td>Specifies the name of the element</td></tr><tr><td></td><td><pre><param>, <select>, <textarea></pre></td><td></td></tr><tr><td><u>novalidate</u></td><td><<u>form></u></td><td>Specifies that the form should not be validated when submitted</td></tr><tr><td><u>onabort</u></td><td><audio>, <embed>, , <object>, <video></td><td>Script to be run on abort</td></tr><tr><td><u>onafterprint</u></td><td><body></td><td>Script to be run after the document is printed</td></tr><tr><td><u>onbeforeprint</u></td><td><body></td><td>Script to be run before the document is printed</td></tr><tr><td><u>onbeforeunload</u></td><td><body></td><td>Script to be run when the document is about to be unloaded</td></tr><tr><td><u>onblur</u></td><td>All visible elements.</td><td>Script to be run when the element loses focus</td></tr><tr><td>oncanplay</td><td><audio>, <embed>, <object>, <video></td><td>Script to be run when a file is ready to start playing (when it has buffered enough to begin)</td></tr><tr><td>oncanplaythrough.</td><td><audio>, <video></td><td>Script to be run when a file can be played all the way to the end without pausing for buffering</td></tr><tr><td><u>onchange</u></td><td>All visible elements.</td><td>Script to be run when the value of the element is changed</td></tr><tr><td>onclick</td><td>All visible elements.</td><td>Script to be run when the element is being clicked</td></tr><tr><td>oncontextmenu</td><td>All visible elements.</td><td>Script to be run when a context menu is triggered</td></tr><tr><td>oncopy</td><td>All visible elements.</td><td>Script to be run when the content of the element is being copied</td></tr><tr><td>oncuechange</td><td><track></td><td>Script to be run when the cue changes</td></tr></tbody></table></textarea>	

		in a <track/> element
oncut	All visible elements.	Script to be run when the content of the element is being cut
ondblclick	All visible elements.	Script to be run when the element is being double-clicked
ondrag	All visible elements.	Script to be run when the element is being dragged
<u>ondragend</u>	All visible elements.	Script to be run at the end of a drag operation
<u>ondragenter</u>	All visible elements.	Script to be run when an element has been dragged to a valid drop target
<u>ondragleave</u>	All visible elements.	Script to be run when an element leaves a valid drop target
<u>ondragover</u>	All visible elements.	Script to be run when an element is being dragged over a valid drop target
<u>ondragstart</u>	All visible elements.	Script to be run at the start of a drag operation
<u>ondrop</u>	All visible elements.	Script to be run when dragged element is being dropped
ondurationchange	<audio>, <video></video></audio>	Script to be run when the length of the media changes
onemptied	<audio≽, <video≥<="" td=""><td>Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects)</td></audio≽,>	Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects)
<u>onended</u>	<audio>, <video></video></audio>	Script to be run when the media has reach the end (a useful event for messages like "thanks for listening")
onerror	<a a="" udio<="">, 	Script to be run when an error occurs
onfocus	All visible elements.	Script to be run when the element gets focus
<u>onhashchange</u>	<body></body>	Script to be run when there has been changes to the anchor part of the a URL
oninput	All visible elements.	Script to be run when the element gets user input
oninvalid	All visible elements.	Script to be run when the element is invalid
<u>onkeydown</u>	All visible elements.	Script to be run when a user is pressing a key
onkeypress	All visible elements.	Script to be run when a user presses a

		,
<u>onkeyup</u>	All visible elements.	key Script to be run when a user releases a key
<u>onload</u>	<pre><body>, <iframe>, , <input/>, <link/>, <script>, <style></pre></td><td>Script to be run when the element is finished loading</td></tr><tr><td><u>onloadeddata</u></td><td><audio>, <video></td><td>Script to be run when media data is loaded</td></tr><tr><td><u>onloadedmetadata</u></td><td><audio>, <video></td><td>Script to be run when meta data (like dimensions and duration) are loaded</td></tr><tr><td><u>onloadstart</u></td><td><audio>, <video></td><td>Script to be run just as the file begins to load before anything is actually loaded</td></tr><tr><td><u>onmousedown</u></td><td>All visible elements.</td><td>Script to be run when a mouse button is pressed down on an element</td></tr><tr><td>onmousemove</td><td>All visible elements.</td><td>Script to be run as long as the mouse pointer is moving over an element</td></tr><tr><td><u>onmouseout</u></td><td>All visible elements.</td><td>Script to be run when a mouse pointer moves out of an element</td></tr><tr><td><u>onmouseover</u></td><td>All visible elements.</td><td>Script to be run when a mouse pointer moves over an element</td></tr><tr><td><u>onmouseup</u></td><td>All visible elements.</td><td>Script to be run when a mouse button is released over an element</td></tr><tr><td>onmousewheel</td><td>All visible elements.</td><td>Script to be run when a mouse wheel is being scrolled over an element</td></tr><tr><td>onoffline A</td><td><u><body></u></td><td>Script to be run when the browser starts to work offline</td></tr><tr><td>ononline</td><td><u><body</u>≽</td><td>Script to be run when the browser starts to work online</td></tr><tr><td>onpagehide</td><td><body></td><td>Script to be run when a user navigates away from a page</td></tr><tr><td><u>onpageshow</u></td><td><<u>body></u></td><td>Script to be run when a user navigates to a page</td></tr><tr><td><u>onpaste</u></td><td>All visible elements.</td><td>Script to be run when the user pastes some content in an element</td></tr><tr><td><u>onpause</u></td><td><audio>, <video></td><td>Script to be run when the media is paused either by the user or programmatically</td></tr><tr><td><u>onplay</u></td><td><audio>, <video></td><td>Script to be run when the media has started playing</td></tr><tr><td>onplaying</td><td><audio>, <video></td><td>Script to be run when the media has started playing</td></tr><tr><td></td><td></td><td></td></tr></tbody></table></script></iframe></body></pre>	

onpopstate	 body>	Script to be run when the window's history changes.
<u>onprogress</u>	<audio>, <video></video></audio>	Script to be run when the browser is in the process of getting the media data
<u>onratechange</u>	<audio>, <video></video></audio>	Script to be run each time the playback rate changes (like when a user switches to a slow motion or fast forward mode).
<u>onreset</u>	<form></form>	Script to be run when a reset button in a form is clicked.
<u>onresize</u>	 body>	Script to be run when the browser window is being resized.
<u>onscroll</u>	All visible elements.	Script to be run when an element's scrollbar is being scrolled
<u>onsearch</u>	<input/>	Script to be run when the user writes something in a search field (for <input="search">)</input="search">
<u>onseeked</u>	<audio>, <video></video></audio>	Script to be run when the seeking attribute is set to false indicating that seeking has ended
onseeking	<audio>, <video></video></audio>	Script to be run when the seeking attribute is set to true indicating that seeking is active
onselect	All visible elements.	Script to be run when the element gets selected
<u>onstalled</u>	<audio>, <video></video></audio>	Script to be run when the browser is unable to fetch the media data for whatever reason
onstorage	<u><body></body></u>	Script to be run when a Web Storage area is updated
onsubmit	<u><form></form></u>	Script to be run when a form is submitted
onsuspend	<audio>, <video></video></audio>	Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason
<u>ontimeupdate</u>	<audio>, <video></video></audio>	Script to be run when the playing position has changed (like when the user fast forwards to a different point in the media)
<u>ontoggle</u>	<u><details></details></u>	Script to be run when the user opens or closes the <details> element</details>
<u>onunload</u>	 body>	Script to be run when a page has unloaded (or the browser window has been closed)

onvolumechange	<audio>, <video></video></audio>	Script to be run each time the volume of a video/audio has been changed
<u>onwaiting</u>	<audio>, <video></video></audio>	Script to be run when the media has paused but is expected to resume (like when the media pauses to buffer more data)
<u>onwheel</u>	All visible elements.	Script to be run when the mouse wheel rolls up or down over an element
<u>open</u>	<details></details>	Specifies that the details should be visible (open) to the user
<u>optimum</u>	<meter></meter>	Specifies what value is the optimal value for the gauge
<u>pattern</u>	<input/>	Specifies a regular expression that an <input/> element's value is checked against
<u>placeholder</u>	<pre><input/>, <textarea></pre></td><td>Specifies a short hint that describes the expected value of the element</td></tr><tr><td><u>poster</u></td><td><video></td><td>Specifies an image to be shown while
the video is downloading, or until the
user hits the play button</td></tr><tr><td><u>preload</u></td><td><audio>, <video></td><td>Specifies if and how the author thinks the audio/video should be loaded when the page loads</td></tr><tr><td><u>readonly</u></td><td><input>, <textarea></td><td>Specifies that the element is read-only</td></tr><tr><td><u>rel</u></td><td><a>, <area>, link></td><td>Specifies the relationship between the current document and the linked document</td></tr><tr><td><u>required</u></td><td><input>, <select>, <textarea></td><td>Specifies that the element must be filled out before submitting the form</td></tr><tr><td>reversed</td><td><u></u></td><td>Specifies that the list order should be descending (9,8,7)</td></tr><tr><td>rows</td><td><textarea></td><td>Specifies the visible number of lines in a text area</td></tr><tr><td><u>rowspan</u></td><td><u></u>, <u></u></td><td>Specifies the number of rows a table cell should span</td></tr><tr><td>sandbox</td><td><iframe></td><td>Enables an extra set of restrictions for the content in an <iframe></td></tr><tr><td>scope</td><td><u>></u></td><td>Specifies whether a header cell is a header for a column, row, or group of columns or rows</td></tr><tr><td>selected</td><td><option></td><td>Specifies that an option should be pre-
selected when the page loads</td></tr><tr><td>shape</td><td><area></td><td>Specifies the shape of the area</td></tr></tbody></table></textarea></pre>	

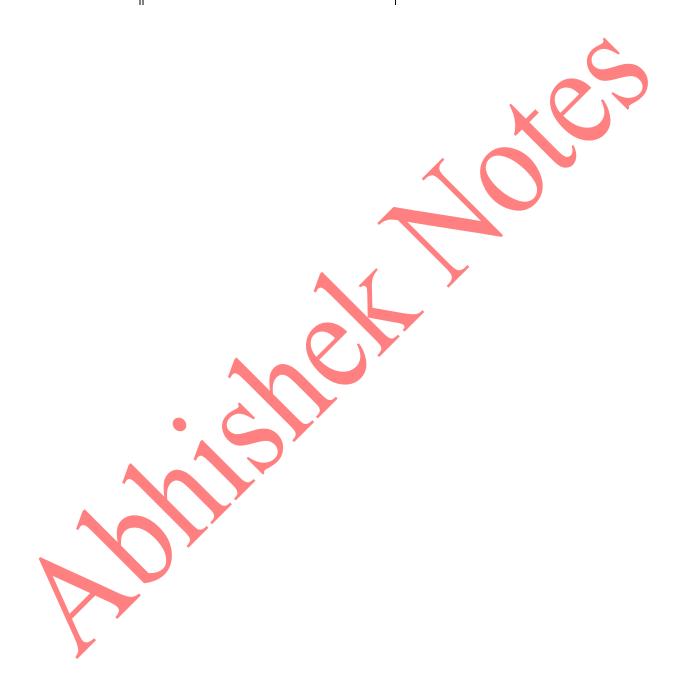
size	<pre><input/>, <select></select></pre>	Specifies the width, in characters (for <input/>) or specifies the number of visible options (for <select>)</select>
sizes	<mg>, <link/>, <source/></mg>	Specifies the size of the linked resource
<u>span</u>	<col/> , <colgroup></colgroup>	Specifies the number of columns to span
<u>spellcheck</u>	Global Attributes	Specifies whether the element is to have its spelling and grammar checked or not
src	<audio>, <embed/>, <iframe>, , <input/>, <script>, <source>, <track>, <video></td><td>Specifies the URL of the media file</td></tr><tr><td>srcdoc</td><td><iframe></td><td>Specifies the HTML content of the page to show in the <iframe></td></tr><tr><td>srclang</td><td><track></td><td>Specifies the language of the track text data (required if kind="subtitles")</td></tr><tr><td>srcset</td><td>, <source></td><td>Specifies the URL of the image to use in different situations</td></tr><tr><td>start</td><td><u></u></td><td>Specifies the start value of an ordered list</td></tr><tr><td>step</td><td><input></td><td>Specifies the legal number intervals for an input field</td></tr><tr><td>style</td><td>Global Attributes</td><td>Specifies an inline CSS style for an element</td></tr><tr><td>tabindex</td><td>Global Attributes</td><td>Specifies the tabbing order of an element</td></tr><tr><td>target</td><td><a>>, <area>, <base>, <form></td><td>Specifies the target for where to open the linked document or where to submit the form</td></tr><tr><td>title</td><td>Gløbal Attributes</td><td>Specifies extra information about an element</td></tr><tr><td>translate</td><td>Global Attributes</td><td>Specifies whether the content of an element should be translated or not</td></tr><tr><td>type</td><td><a>, <button>, <embed>,, <input>, link>, <menu>,, <object>, <script>, <source>,, <style></td><td>Specifies the type of element</td></tr><tr><td>usemap</td><td>, <object></td><td>Specifies an image as a client-side image-map</td></tr><tr><td>value</td><td><pre><button>, <input>, , , <option>, <meter>, <pre>, <pre>param></pre></td><td>Specifies the value of the element</td></tr><tr><td>width</td><td></td><td>Specifies the width of the element</td></tr></tbody></table></script></iframe></audio>	

, <input>, <object>,
<video>

wrap

<textarea>

Specifies how the text in a text area is to be wrapped when submitted in a form



HTML Global Attributes

HTML attributes give elements meaning and context.

The global attributes below can be used on any HTML element.

HTML Global Attributes

| Attribute | Description |
|------------------------|--|
| accesskey | 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) |
| <u>contenteditable</u> | Specifies whether the content of an element is editable or not |
| <u>data-*</u> | Used to store custom data private to the page or application |
| <u>dir</u> | Specifies the text direction for the content in an element |
| <u>draggable</u> | Specifies whether an element is draggable or not |
| dropzone | Specifies whether the dragged data is copied, moved, or linked, when dropped |
| <u>hidden</u> | Specifies that an element is not yet, or is no longer, relevant |
| <u>id</u> | Specifies a unique id for an element |
| lang | Specifies the language of the element's content |
| <u>spellcheck</u> | Specifies whether the element is to have its spelling and grammar checked or not |
| style | Specifies an inline CSS style for an element |
| <u>tabindex</u> | Specifies the tabbing order of an element |
| title | Specifies extra information about an element |
| translate | Specifies whether the content of an element should be translated or not |

HTML Event Attributes

Global Event Attributes

HTML has the ability to let events trigger actions in a browser, like starting a JavaScript when a user clicks on an element.

To learn more about programming events, please visit our <u>JavaScript tutorial</u>.

Below are the global event attributes that can be added to HTML elements to define event actions.

Window Event Attributes

Events triggered for the window object (applies to the <body> tag):

| Attribute | Value | Description |
|----------------------|--------|--|
| <u>onafterprint</u> | script | Script to be run after the document is printed |
| <u>onbeforeprint</u> | script | Script to be run before the document is printed |
| onbeforeunload | script | Script to be run when the document is about to be unloaded |
| <u>onerror</u> | script | Script to be run when an error occurs |
| onhashchange A | script | Script to be run when there has been changes to the anchor part of the a URL |
| <u>onload</u> | script | Fires after the page is finished loading |
| onmessage | script | Script to be run when the message is triggered |
| <u>onoffline</u> | script | Script to be run when the browser starts to work offline |
| <u>ononline</u> | script | Script to be run when the browser starts to work online |
| onpagehide | script | Script to be run when a user navigates away from a page |
| <u>onpageshow</u> | script | Script to be run when a user navigates to a page |
| onpopstate | script | Script to be run when the window's history changes |
| <u>onresize</u> | script | Fires when the browser window is resized |
| onstorage | script | Script to be run when a Web Storage area is updated |
| <u>onunload</u> | script | Fires once a page has unloaded (or the browser window has been closed) |

Form Events

Events triggered by actions inside a HTML form (applies to almost all HTML elements, but is most used in form elements):

| Attribute | Value | Description |
|----------------------|--------|--|
| onblur | script | Fires the moment that the element loses focus |
| <u>onchange</u> | script | Fires the moment when the value of the element is changed |
| <u>oncontextmenu</u> | script | Script to be run when a context menu is triggered |
| <u>onfocus</u> | script | Fires the moment when the element gets focus |
| <u>oninput</u> | script | Script to be run when an element gets user input |
| <u>oninvalid</u> | script | Script to be run when an element is invalid |
| <u>onreset</u> | script | Fires when the Reset button in a form is clicked |
| <u>onsearch</u> | script | Fires when the user writes something in a search field (for <input="search">)</input="search"> |
| onselect | script | Fires after some text has been selected in an element |
| <u>onsubmit</u> | script | Fires when a form is submitted |

Keyboard Events

| Attribute | Value | Description |
|-------------------|--------|-------------------------------------|
| onkeydown | script | Fires when a user is pressing a key |
| <u>onkeypress</u> | script | Fires when a user presses a key |
| <u>onkeyup</u> | script | Fires when a user releases a key |

MouseEvents

| Attribute | Value | Description |
|--------------------|--------|--|
| onclick | script | Fires on a mouse click on the element |
| ondblclick | script | Fires on a mouse double-click on the element |
| <u>onmousedown</u> | script | Fires when a mouse button is pressed down on an element |
| onmousemove | script | Fires when the mouse pointer is moving while it is over an element |
| <u>onmouseout</u> | script | Fires when the mouse pointer moves out of an element |
| <u>onmouseover</u> | script | Fires when the mouse pointer moves over an element |
| <u>onmouseup</u> | script | Fires when a mouse button is released over an element |
| onmousewheel | script | Deprecated. Use the <u>onwheel</u> attribute instead |

onwheel

script

Fires when the mouse wheel rolls up or down over an element

Drag Events

| Attribute | Value | Description |
|--------------------|--------|--|
| ondrag | script | Script to be run when an element is dragged |
| <u>ondragend</u> | script | Script to be run at the end of a drag operation |
| <u>ondragenter</u> | script | Script to be run when an element has been dragged to a valid drop target |
| <u>ondragleave</u> | script | Script to be run when an element leaves a valid drop target |
| <u>ondragover</u> | script | Script to be run when an element is being dragged over a valid drop target |
| <u>ondragstart</u> | script | Script to be run at the start of a drag operation |
| <u>ondrop</u> | script | Script to be run when dragged element is being dropped |
| onscroll | script | Script to be run when an element's scrollbar is being scrolled |

Clipboard Events

| Attribute | Value | Description |
|----------------|--------|---|
| Oncopy | script | Fires when the user copies the content of an element |
| <u>oncopy</u> | 1 | |
| <u>oncut</u> | script | Fires when the user cuts the content of an element |
| <u>onpaste</u> | script | Fires when the user pastes some content in an element |

Media Events

Events triggered by medias like videos, images and audio (applies to all HTML elements, but is most common in media elements, like <audio>, <embed>, , <object>, and <video>).

Tip: Look at our <u>HTML Audio and Video DOM Reference</u> for more information.

| Attribute | Value | Description |
|------------------|-----------|---|
| onabort | script | Script to be run on abort |
| oncanplay | ccrint II | Script to be run when a file is ready to start playing (when it has buffered enough to begin) |
| Oncanplaythrough | script | Script to be run when a file can be played all the way to the end without pausing for buffering |

| Oncuechange | script | Script to be run when the cue changes in a <track/> element |
|------------------|--------|---|
| Ondurationchange | script | Script to be run when the length of the media changes |
| Onemptied | script | Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects) |
| Onended | script | Script to be run when the media has reach the end (a useful event for messages like "thanks for listening") |
| Onerror | script | Script to be run when an error occurs when the file is being loaded |
| Onloadeddata | script | Script to be run when media data is loaded |
| Onloadedmetadata | script | Script to be run when meta data (like dimensions and duration) are loaded |
| Onloadstart | script | Script to be run just as the file begins to load before anything is actually loaded |
| Onpause | script | Script to be run when the media is paused either by the user or programmatically |
| Onplay | script | Script to be run when the media is ready to start playing |
| Onplaying | script | Script to be run when the media actually has started playing |
| Onprogress | script | Script to be run when the browser is in the process of getting the media data |
| onratechange | script | Script to be run each time the playback rate changes (like when a user switches to a slow motion or fast forward mode) |
| onseeked | script | Script to be run when the seeking attribute is set to false indicating that seeking has ended |
| onseeking | script | Script to be run when the seeking attribute is set to true indicating that seeking is active |
| onstalled | script | Script to be run when the browser is unable to fetch the media data for whatever reason |
| onsuspend | script | Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason |
| ontimeupdate | script | Script to be run when the playing position has changed (like when the user fast forwards to a different point in the media) |
| onvolumechange | script | Script to be run each time the volume is changed which (includes setting the volume to "mute") |
| onwaiting | script | Script to be run when the media has paused but is expected to resume (like when the media pauses to buffer more data) |

Misc Events

Attribute

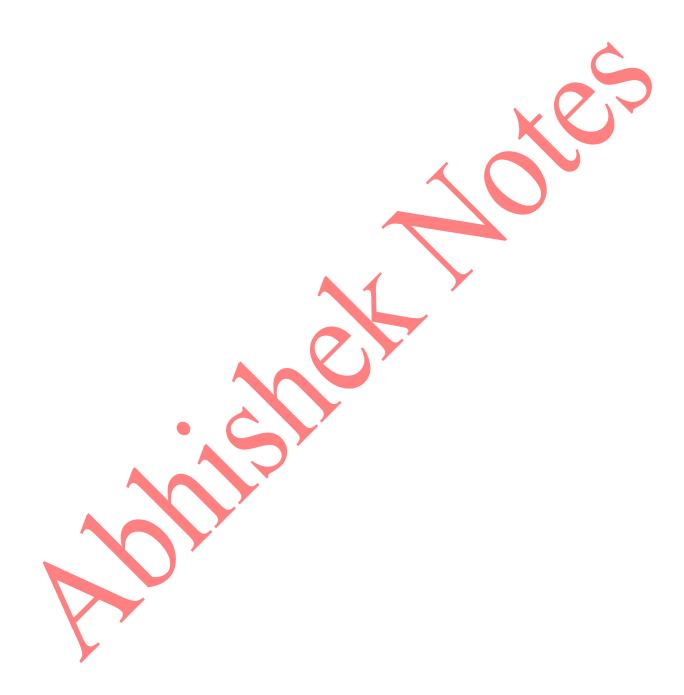
Value

Description

ontoggle

script

Fires when the user opens or closes the <details> element



HTML Canvas Reference

Description

The HTML5 <canvas> tag is used to draw graphics, on the fly, via scripting (usually JavaScript).

However, the <canvas> element has no drawing abilities of its own (it is only a container for graphics) - you must use a script to actually draw the graphics.

The getContext() method returns an object that provides methods and properties for drawing on the canvas.

This reference will cover the properties and methods of the getContext ("2d") object, which can be used to draw text, lines, boxes, circles, and more - on the canvas.

Browser Support

The numbers in the table specify the first browser version that fully supports the element.

| | | HIII (1000 | uu ruuu ruu <mark>ruu ruuu ruu r</mark> | un ramerameramerameramerameramera | ** | 001 000 000 000 000 000 000 000 000 000 |
900 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / 1000 / |
|-------------------------|-----|-------------|---|-----------------------------------|---|---|--|
| Element | | | | | , | | |
| <canvas> 4.0</canvas> | 9.0 | 2.0 | 3.1 | 9.0 | | | |
| <calivas> 4.0</calivas> | 9.0 | 2.0 | 3.1 | 9.0 | *************************************** | |
 |

Internet Explorer 9, Firefox, Opera, Chrome, and Safari support <canvas> and its properties and methods.

Note: Internet Explorer 8 and earlier versions, do not support the <canvas> element.

Colors, Styles, and Shadows

| Property | Description |
|--------------------|--|
| fillStyle | Sets or returns the color, gradient, or pattern used to fill the drawing |
| strokeStyle | Sets or returns the color, gradient, or pattern used for strokes |
| <u>shadowColor</u> | Sets or returns the color to use for shadows |
| <u>shadowBlur</u> | Sets or returns the blur level for shadows |
| shadowOffsetX | Sets or returns the horizontal distance of the shadow from the shape |

<u>shadowOffsetY</u> Sets or returns the vertical distance of the shadow from the shape

| Method | Description |
|-----------------------------------|---|
| createLinearGradient() | Creates a linear gradient (to use on canvas content) |
| <pre>createPattern()</pre> | Repeats a specified element in the specified direction |
| <pre>createRadialGradient()</pre> | Creates a radial/circular gradient (to use on canvas content) |
| addColorStop() | Specifies the colors and stop positions in a gradient object |

Line Styles

Property	Description
<u>lineCap</u>	Sets or returns the style of the end caps for a line
<u>lineJoin</u>	Sets or returns the type of corner created, when two lines meet
<u>lineWidth</u>	Sets or returns the current line width
<u>miterLimit</u>	Sets or returns the maximum miter length

Rectangles

Method	Description
rect()	Creates a rectangle
fillRect()	Draws a "filled" rectangle
strokeRect()	Draws a rectangle (no fill)
<pre>clearRect()</pre>	Clears the specified pixels within a given rectangle

Paths

Method	Description
fill()	Fills the current drawing (path)
stroke()	Actually draws the path you have defined
beginPath()	Begins a path, or resets the current path
moveTo()	Moves the path to the specified point in the canvas, without creating a line
closePath()	Creates a path from the current point back to the starting point
lineTo()	Adds a new point and creates a line to that point from the last specified point in the canvas
<pre>clip()</pre>	Clips a region of any shape and size from the original canvas
<pre>quadraticCurveTo()</pre>	Creates a quadratic Bézier curve
bezierCurveTo()	Creates a cubic Bézier curve

arc() Creates an arc/curve (used to create circles, or parts of circles)

<u>arcTo()</u> Creates an arc/curve between two tangents

<u>isPointInPath()</u> Returns true if the specified point is in the current path, otherwise false

Transformations

Method	Description
scale()	Scales the current drawing bigger or smaller
rotate()	Rotates the current drawing
translate()	Remaps the (0,0) position on the canvas
transform()	Replaces the current transformation matrix for the drawing
setTransform()	Resets the current transform to the identity matrix. Then runs transform()

Text

Property	Description
tont	Sets or returns the current font properties for text content
<u>textAlign</u>	Sets or returns the current alignment for text content
<u>textBaseline</u>	Sets or returns the current text baseline used when drawing text

Method	Description
fillText()	Draws "filled" text on the canvas
<pre>strokeText()</pre>	Draws text on the canvas (no fill)
measureText()	Returns an object that contains the width of the specified text

Image Drawing

Method		Desci	ription
. Cama Cama Cama Cama Cama Cama Cama Cam			NO ENTRE E
<u>drawImage()</u>	Draws a	n image, canvas	, or video onto the canvas

Pixel Manipulation

Property	Description
· mar	Returns the width of an ImageData object
<u>height</u>	Returns the height of an ImageData object
<u>data</u>	Returns an object that contains image data of a specified ImageData object

Method	Description
createImageData()	Creates a new, blank ImageData object
getImageData()	Returns an ImageData object that copies the pixel data for the specified rectangle on a canvas
putImageData()	Puts the image data (from a specified ImageData object) back onto the canvas

Compositing

Property	Description	V) '
	Sets or returns the current alpha or transparency				
globalCompositeOperation	Sets or returns how a new image are drawn onto	an	exi	sting ir	nage

Other

Method	Description
save()	Saves the state of the current context
restore()	Returns previously saved path state and attributes
createEvent()	
getContext()	
toDataURL()	

HTML Audio/Video DOM Reference

HTML Audio and Video DOM Reference

The HTML5 DOM has methods, properties, and events for the <audio> and <video> elements.

These methods, properties, and events allow you to manipulate <audio> and <video> elements using JavaScript.

HTML Audio/Video Methods

Method	Description
addTextTrack()	Adds a new text track to the audio/video
<pre>canPlayType()</pre>	Checks if the browser can play the specified audio/video type
<u>load()</u>	Re-loads the audio/video element
<u>play()</u>	Starts playing the audio/video
pause()	Pauses the currently playing audio/video

HTML Audio/Video Properties

Property	Description
<u>audioTracks</u>	Returns an AudioTrackList object representing available audio tracks
autoplay	Sets or returns whether the audio/video should start playing as soon as it is loaded
buffered	Returns a TimeRanges object representing the buffered parts of the audio/video
<u>controller</u>	Returns the MediaController object representing the current media controller of the audio/video
controls	Sets or returns whether the audio/video should display controls (like play/pause etc.)
crossOrigin	Sets or returns the CORS settings of the audio/video
currentSrc	Returns the URL of the current audio/video
<u>currentTime</u>	Sets or returns the current playback position in the audio/video (in seconds)
<u>defaultMuted</u>	Sets or returns whether the audio/video should be muted by default
<u>defaultPlaybackRate</u>	Sets or returns the default speed of the audio/video playback
<u>duration</u>	Returns the length of the current audio/video (in seconds)
ended	Returns whether the playback of the audio/video has ended or not

error

loop

mediaGroup

muted networkState

paused

playbackRate

played

preload

<u>readyState</u>

<u>seekable</u>

seeking

src

startDate

textTracks videoTracks

volume

Returns a MediaError object representing the error state of the audio/video

Sets or returns whether the audio/video should start over again when finished

Sets or returns the group the audio/video belongs to (used to link multiple audio/video elements)

Sets or returns whether the audio/video is muted or not Returns the current network state of the audio/video Returns whether the audio/video is paused or not

Sets or returns the speed of the audio/video playback

Returns a TimeRanges object representing the played parts of the audio/video

Sets or returns whether the audio/video should be loaded when the page

Returns the current ready state of the audio/video

Returns a TimeRanges object representing the seekable parts of the

audio/video

Returns whether the user is currently seeking in the audio/video Sets or returns the current source of the audio/video element

Returns a Date object representing the current time offset

Returns a TextTrackList object representing the available text tracks
Returns a VideoTrackList object representing the available video tracks

Sets or returns the volume of the audio/video

HTML Audio/Video Events

Event Description

abort

canplay

canplaythrough

<u>durationchange</u> emptied

ended

error

<u>loadeddata</u>

<u>loadedmetadata</u>

loadstart

Fires when the loading of an audio/video is aborted

Fires when the browser can start playing the audio/video

Fires when the browser can play through the audio/video without stopping for buffering

Fires when the duration of the audio/video is changed

Fires when the current playlist is empty

Fires when the current playlist is ended

Fires when an error occurred during the loading of an audio/video

Fires when the browser has loaded the current frame of the audio/video

Fires when the browser has loaded meta data for the audio/video

Fires when the browser starts looking for the audio/video

pause play

playing

<u>progress</u> <u>ratechange</u>

seeked

seeking

stalled

suspend timeupdate

volumechange

waiting

Fires when the audio/video has been paused

Fires when the audio/video has been started or is no longer paused Fires when the audio/video is playing after having been paused or

stopped for buffering

Fires when the browser is downloading the audio/video

Fires when the playing speed of the audio/video is changed

Fires when the user is finished moving/skipping to a new position in the

audio/video

Fires when the user starts moving/skipping to a new position in the

audio/video

Fires when the browser is trying to get media data, but data is not

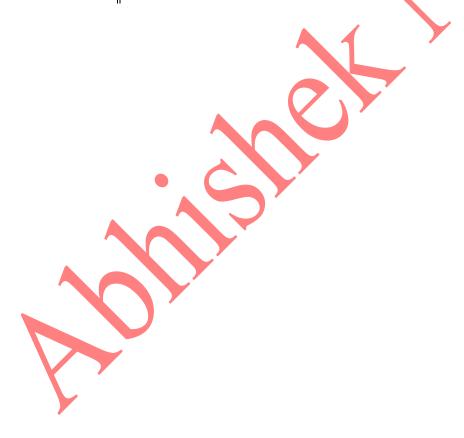
available

Fires when the browser is intentionally not getting media data

Fires when the current playback position has changed

Fires when the volume has been changed

Fires when the video stops because it needs to buffer the next frame



HTML URL Encoding Reference

URL encoding converts characters into a format that can be transmitted over the Internet.

URL - Uniform Resource Locator

Web browsers request pages from web servers by using a URL.

The URL is the address of a web page, like: https://www.w3schools.com.

URL Encoding (Percent Encoding)

URLs can only be sent over the Internet using the ASCII character-set.

Since URLs often contain characters outside the ASCII set, the URL has to be converted into a valid ASCII format.

URL encoding replaces unsafe ASCII characters with a "%" followed by two hexadecimal digits.

URLs cannot contain spaces. URL encoding normally replaces a space with a plus (+) sign or with %20.

Try It Yourself

If you click the "Submit" button below, the browser will URL encode the input before it is sent to the server. A page at the server will display the received input.

Try some other input and click Submit again.

URL Encoding Functions

In JavaScript, PHP, and ASP there are functions that can be used to URL encode a string.

PHP has the rawurlencode() function, and ASP has the Server.URLEncode() function.

In JavaScript you can use the **encodeURIComponent()** function.

Click the "URL Encode" button to see how the JavaScript function encodes the text

Hello Günter

Hello%20G%C3%BCnter

Note: The JavaScript function encodes space as %20.

ASCII Encoding Reference

Your browser will encode input, according to the character-set used in your page.

The default character-set in HTML5 is UTF-8.

Character	From Windows- 1252	From UTF-8
space	%20	%20
!	%21	%21
"	%22	%22
#	%23	%23
\$	%24	%24
%	%25	%25
&	%26	%26
,	%27	%27
(%28	%28
)	%29	%29
*	%2A	%2A
+	%2B	%2B
,	%2C	%2C

-		%2D	%2D
	"	%2E	%2E
/		%2F	%2F
0		%30	%30
1		%31	%31
2		%32	%32
3		%33	%33
4		%34	%34
5		%35	%35
6		%36	%36
7		%37	%37
8		%38	%38
9		%39	%39
:		%3A	%3A
;		%3B	%3B
<		%3C	%3C
=		%3D	%3D
>		%3E	%3E
?		%3F	%3F
@		%40	%40
A		%41	%41
В		%42	%42
C		%43	%43
D		%44	%44
E	•	%45	%45
F		%46	%46
G		%47	%47
Н		%48	%48
I		%49	%49
J		%4A	%4A
K		%4B	%4B
L		%4C	%4C
M		%4D	%4D
N		%4E	%4E
O		%4F	%4F
P		%50	%50
Q		%51	
R		%52	%52
S		%53	%53

T	%54	%54
U	%55	%55
V	%56	%56
W	%57	%57
X	%58	%58
Y	%59	%59
Z	%5A	%5A
[%5B	%5B
\	%5C	%5C
]	%5D	%5D
٨	%5E	%5E
_	%5F	%5F
`	%60	%60
a	%61	%61
b	%62	%62
c	%63	%63
d	%64	%64
e	%65	%65
f	%66	%66
g	%67	%67
h	%68	%68
i	%69	%69
j	%6A	%6A
k	%6B	%6B
1	%6C	%6C
m	%6D	%6D
n	%6E	%6E
0	%6F	%6F
p	%70	%70
q	%71	%71
r	%72	%72
S	%73	%73
t	%74	%74
u	%75	%75
V	%76	%76
W	%77 	%77
X	%78	%78
У	%79	%79
Z	%7A	%7A

{	%7B	%7B
	%7C	%7C
}	%7D	%7D
~	%7E	%7E
	%7F	%7F
`	%80	%E2%82%AC
•	%81	%81
,	%82	%E2%80%9A
f	%83	%C6%92
,,	%84	%E2%80%9E
	%85	%E2%80%A6
†	%86	%E2%80%A0
‡	%87	%E2%80%A1
^	%88	%CB%86
% o	%89	%E2%80%B0
Š	%8A	%C5%A0
‹	%8B	%E2%80%B9
Œ	%8C	%C5%92
•	%8D	%C5%8D
Ž	%8E	%C5%BD
•	%8F	%8F
•	%90	%C2%90
6	%91	%E2%80%98
,	%92	%E2%80%99
"	%93	%E2%80%9C
"	%94	%E2%80%9D
•	%95	%E2%80%A2
-	%96	%E2%80%93
_	%97	%E2%80%94
~	%98	%CB%9C
TM	%99	%E2%84
š	%9A	%C5%A1
→	%9B	%E2%80
œ	%9C	%C5%93
•	%9D	%9D
ž	%9E	%C5%BE
Ÿ	%9F	%C5%B8
	%A0	%C2%A0
i	%A1	%C2%A1
	••	**

¢	%A2	%C2%A2
£	%A3	%C2%A3
¤	%A4	%C2%A4
¥	%A5	%C2%A5
1	%A6	%C2%A6
§	%A7	%C2%A7
	%A8	%C2%A8
©	%A9	%C2%A9
a	%AA	%C2%AA
«	%AB	%C2%AB
「	%AC	%C2%AC
	%AD	%C2%AD
®	%AE	%C2%AE
-	%AF	%C2%AF
0	%B0	%C2%B0
±	%B1	%C2%B1
2	%B2	%C2%B2
3	%B3	%C2%B3
,	%B4	%C2%B4
μ	%B5	%C2%B5
\P	%B6	%C2%B6
	%B7	%C2%B7
5	%B8	%C2%B8
1	% B 9	%C2%B9
o	%BA	%C2%BA
»	%BB	%C2%BB
1/4	%BC	%C2%BC
1/2	%BD	%C2%BD
3/4	%BE	%C2%BE
i	%BF	%C2%BF
À	%C0	%C3%80
Á	%C1	%C3%81
Â	%C2	%C3%82
Ã	%C3	%C3%83
Ä	%C4	%C3%84
Å	%C5	%C3%85
Æ	%C6	%C3%86
Ç È	%C7	%C3%87
È	%C8	%C3%88

É	%C9	%C3%89
Ê	%CA	%C3%8A
Ë	%CB	%C3%8B
Ì	%CC	%C3%8C
Í	%CD	%C3%8D
Î	%CE	%C3%8E
Ϊ	%CF	%C3%8F
Đ	%D0	%C3%90
Ñ	%D1	%C3%91
Ó	%D2	%C3%92
Ó	%D3	%C3%93
Ô	%D4	%C3%94
Õ	%D5	%C3%95
Ö	%D6	%C3%96
×	%D7	%C3%97
Ø	%D8	%C3%98
Ù	%D9	%C3%99
Ú	%DA	%C3%9A
Û	%DB	%C3%9B
Ü	%DC	%C3%9C
Ý	%DD	%C3%9D
Þ	%DE	%C3%9E
ß	%DF	%C3%9F
à	%E0	%C3%A0
á	%E1	%C3%A1
â	%E2	%C3%A2
ã	%E3	%C3%A3
ä	%E4	%C3%A4
å	%E5	%C3%A5
æ	%E6	%C3%A6
ç	%E7	%C3%A7
è	%E8	%C3%A8
é	%E9	%C3%A9
ê	%EA	%C3%AA
ë	%EB	%C3%AB
ì	%EC	%C3%AC
í	%ED	%C3%AD
î	%EE	%C3%AE
ï	%EF	%C3%AF

ð	%F0	%C3%B0
ñ	%F1	%C3%B1
ò	%F2	%C3%B2
ó	%F3	%C3%B3
ô	%F4	%C3%B4
õ	%F5	%C3%B5
ö	%F6	%C3%B6
÷	%F7	%C3%B7
ø	%F8	%C3%B8
ù	%F9	%C3%B9
ú	%FA	%C3%BA
û	%FB	%C3%BB
ü	%FC	%C3%BC
ý	%FD	%C3%BD
þ	%FE	%C3%BE
ÿ	%FF	%C3%BF

URL Encoding Reference

The ASCII control characters **%00-%1F** were originally designed to control hardware devices.

Control characters have nothing to do inside a URL.

ASCII Character	Description	URL-encoding
NUL	null character	%00
SOH	start of header	%01
STX	start of text	%02
ETX /	end of text	%03
EOT	end of transmission	%04
ENQ	Enquiry	%05
ACK	acknowledge	%06
BEL	bell (ring)	%07
BS	backspace	%08
HT	horizontal tab	%09
LF	line feed	%0A
VT	vertical tab	%0B
FF	form feed	%0C
CR	carriage return	%0D
SO	shift out	%0E

SI	shift in	%0F
DLE	data link escape	%10
DC1	device control 1	%11
DC2	device control 2	%12
DC3	device control 3	%13
DC4	device control 4	%14
NAK	negative acknowledge	%15
SYN	synchronize	%16
ETB	end transmission block	%17
CAN	cancel	%18
EM	end of medium	%19
SUB	substitute	%1A
ESC	escape	%1B
FS	file separator	%1C
GS	group separator	%1D
RS	record separator	%1E
US	unit separator	%1F
	A 0	
A		
	,	
VY		

HTML Language Code Reference

ISO Language Codes

The HTML lang attribute can be used to declare the language of a Web page or a portion of a Web page. This is meant to assist search engines and browsers.

According to the W3C recommendation you should declare the primary language for each Web page with the lang attribute inside the https://example.com/html tag,

For Example:-

```
chtml lang="en">
...
</html>
In XHTML, the language is declared inside the <a href="html">html</a> tag as follows:

chtml xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
...

/html>
```

ISO 639-1 Language Codes

ISO 639-1 defines abbreviations for languages.

In HTML and XHTML they can be used in the lang and xml:lang attributes.

See also: next reference for country codes.

Language	ISO Code
Abkhazian	ab
Afar	aa
Afrikaans	af
Akan	ak
Albanian	sq
Amharic	am
Arabic	ar
Aragonese	an
Armenian	hy

Assamese as Avaric av Avestan ae Aymara ay Azerbaijani az Bambara bm Bashkir ba Basque eu Belarusian be Bengali (Bangla) bn Bislama bi Bosnian bs Breton br Bulgarian bg Burnese my Catalan ca Chamorro ch Chechen ce Chichewa, Chewa, Nyanja Chinese (Simplified) Chinese (Traditional) chinese (Traditional) Chuvash cv Cornish kw Corsican co Cree cr Croatian hr Czech cs Dānish da Divehi, Dhivehi, Maldivian Ducch Duzongkha dz Engeish en Esperanto eo Estonian et Ewe ee Faroese fo Fijian fj	"	
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Aymara az by Azerbaijani az Bambara bm Bashkir ba Basque eu Belarusian be Bengali (Bangla) bn Bihari bh Bosnian bs Breton br Bulgarian bg Burmese my Catalan ca Chamorro ch Chichewa, Chewa, Nyanja Chinese (Simplified) zh-Hans zh-Hant Chuvash cv Cornish kw Corsican co Cree cr Croatian ch Cree cr Cree cr Croatian ch Cree cr Croatian ch Cree cr Croatian ch Cree cr Croatian ch Cree cr Cree cr Croatian ch Cree cr Cree cr Croatian ch Cree cr Cree cr Croatian ch Cree cr Cree cr Croatian ch Cree cr Cree cr Cree cr Croatian ch Cree cr Croatian ch Cree cr	Avaric	av
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Basque eu Belarusian be Bengali (Bangla) bn Bihari bh Bislama bi Bosnian bs Breton br Bulgarian bg Burmese my Catalan ca Chamorro ch Chechen ce Chichewa, Chewa, Nyanja ny Chinese (Simplified) zh-Hans Chinese (Traditional) zh-Hans Chinese (Traditional) cy Cornish kw Corsican co Cree cr Croatian hr Czech cs Danish bda Divehi, Dhivehi, Maldivian Dutch Dzongkha dz English en Esperanto eo Estonian et Ewe ee Faroese fo	Bambara	bm
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Bislama bi Bislama bi Bosnian bs Breton br Bulgarian bg Burmese my Catalan ca Chamorro ch Chechen ce Chichewa, Chewa, Nyanja ny Chinese (Simplified) zh-Hans Chinese (Traditional) zh-Hant Chuvash ev Cornish ky Corsican co Cree cr Croatian hr Czech cs Danish da Divehi, Dhivehi, Maldivian Dutch Dzongkha dz English en Esperanto eo Estonian et Ewe ee Faroese fo	Belarusian	be
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Chuvash Cornish kw Corsican co Cree cr Croatian hr Czech Danish da Divehi, Dhivehi, Maldivian Dutch nl Dzongkha English en Esperanto estonian et Ewe Faroese fo	Chinese (Simplified)	zh-Hans
Cornish kw Corsican co Cree cr Croatian hr Czech cs Danish da Divehi, Dhivehi, Maldivian dv Dutch nl Dzongkha dz English en Esperanto eo Estonian et Ewe ee Faroese fo	Chinese (Traditional)	zh-Hant
Corsican Cree cr Croatian hr Czech cs Danish da Divehi, Dhivehi, Maldivian Dutch nl Dzongkha English en Esperanto eso Estonian et Ewe Faroese fo	Chuvash	cv
Cree cr Croatian hr Czech cs Danish da Divehi, Dhivehi, Maldivian dv Dutch nl Dzongkha dz English en Esperanto eo Estonian et Ewe ee Faroese fo	Cornish	kw
Croatian hr Czech cs Danish da Divehi, Dhivehi, Maldivian dv Dutch nl Dzongkha dz English en Esperanto eo Estonian et Ewe ee Faroese fo	Corsican	co
Czech cs Danish da Divehi, Dhivehi, Maldivian dv Dutch nl Dzongkha dz English en Esperanto eo Estonian et Ewe ee Faroese fo	Cree	cr
Danish da Divehi, Dhivehi, Maldivian dv Dutch nl Dzongkha dz English en Esperanto eo Estonian et Ewe ee Faroese fo	Croatian	hr
Divehi, Dhivehi, Maldivian Dutch Dzongkha English Esperanto Estonian Ewe Faroese dv dz en en eo eo fo	Czech	cs
DutchnlDzongkhadzEnglishenEsperantoeoEstonianetEweeeFaroesefo	Danish	da
DzongkhadzEnglishenEsperantoeoEstonianetEweeeFaroesefo	Divehi, Dhivehi, Maldivian	dv
English en Esperanto eo Estonian et Ewe ee Faroese fo	Dutch	nl
Esperanto eo Estonian et Ewe ee Faroese fo	Dzongkha	dz
Estonian et Ewe ee Faroese fo	English	en
Ewe ee Faroese fo	Esperanto	eo
Faroese fo	Estonian	et
	Ewe	ee
Fijian fj	Faroese	fo
$oldsymbol{II}$	Fijian	fj fj

Finnish	fi
French	fr
Fula, Fulah, Pulaar, Pular	ff
Galician	gl
Gaelic (Scottish)	gd
Gaelic (Manx)	gv
Georgian	ka
German	de
Greek	el
Greenlandic	kl
Guarani	gn
Gujarati	gu
Haitian Creole	ht
Hausa	ha
Hebrew	he
Herero	hz
Hindi	hi hi
Hiri Motu	ho
Hungarian	hu
Icelandic	is is
Ido	io
Igbo	
Indonesian	ig id, in
Interlingua	ia
Interlingue	ie
Inuktitut	iu
Inupiak	ik
Irish	ga
Italian	it
Japanese	ja
Javanese	jv
Kalaallisut, Greenlandic	kl
Kannada	kn
Kanuri	kr
Kashmiri	ks
Kazakh	kk
Khmer	km
Kikuyu	ki
Kinyarwanda (Rwanda)	" rw
	•

Kirundi	rn
Kyrgyz	ky
Komi	kv
Kongo	kg
Korean	ko
Kurdish	ku
Kwanyama	kj
Lao	lo
Latin	la
Latvian (Lettish)	lv
Limburgish (Limburger)	li
Lingala	ln
Lithuanian	lt
Luga-Katanga	lu
Luganda, Ganda	lg
Luxembourgish	lb
Manx	gv
Macedonian	mk
Malagasy	mg
Malay	ms
Malayalam	ml
Maltese	mt
Maori	mi
Marathi	mr
Marshallese	mh
Moldavian A	mo
Mongolian	mn
Nauru	na
Navajo	nv
Ndonga	ng
Northern Ndebele	nd
Nepali	ne
Norwegian	no
Norwegian bokmål	nb
Norwegian nynorsk	nn
Nuosu	ii
Occitan	ос
Ojibwe	oj
Old Church Slavonic, Old Bulgar	rian cu

Oriya	or
Oromo (Afaan Oromo)	om
Ossetian	os
Pāli	pi
Pashto, Pushto	ps
Persian (Farsi)	fa
Polish	pl
Portuguese	pt
Punjabi (Eastern)	pa
Quechua	qu
Romansh	rm
Romanian	ro
Russian	ru
Sami	se
Samoan	sm
Sango	sg
Sanskrit	sa
Serbian	sr
Serbo-Croatian	sh
Sesotho	st
Setswana	tn
Shona	sn
Sichuan Yi	ii
Sindhi	sd
Sinhalese	si
Siswati	ss
Slovak	sk
Slovenian	sl
Somali	so
Southern Ndebele	nr
Spanish	es
Sundanese	su
Swahili (Kiswahili)	sw
Swati	ss
Swedish	sv
Tagalog	tl
Tahitian	ty
Tajik	tg
Tamil	ta
••	

Tatar	tt	
Telugu	te	
Thai	th	
Tibetan	bo	
Tigrinya	ti	
Tonga	to	
Tsonga	ts	
Turkish	tr	
Turkmen	tk	
Twi	tw	
Uyghur	ug	
Ukrainian	uk	
Urdu	ur	
Uzbek	uz	
Venda	ve	
Vietnamese	vi	
Volapük	vo	
Wallon	wa	
Welsh	cy	
Wolof	wo	
Western Frisian	fy	
Xhosa	xh	
Yiddish	yi, ji	
Yoruba	yo	
Zhuang, Chuang	za	
Zulu	zu	

HTML ISO Country Codes Reference

ISO Country Codes

ISO country codes define abbreviations for countries.

In HTML they can be used as an addition to the language value in the lang attribute.

The first two characters of a language code defines the **language**. (see previous reference)

The last two defines the **country**.

For Example:-

```
<html lang="en-US">
...
</html>
```

ISO Country Codes

Country	ISO Code
AFGHANISTAN	AF
ALBANIA	AL
ALGERIA	DZ
AMERICAN SAMOA	AS
ANDORRA	AD
ANGOLA	AO
ANTARCTICA	AQ
ANTIGUA AND BARBUDA	AG
ARGENTINA	AR
ARMENIA	AM
ARUBA	AW
AUSTRALIA	AU
AUSTRIA	AT
AZERBAIJAN	AZ
BAHAMAS	BS
BAHRAIN	BH
BANGLADESH	BD
BARBADOS	BB

BELARUS	BY
BELGIUM	BE
BELIZE	BZ
BENIN	BJ
BERMUDA	BM
BHUTAN	BT
BOLIVIA	ВО
BOSNIA AND HERZEGOVINA	BA
BOTSWANA	BW
BOUVET ISLAND	BV
BRAZIL	BR
BRITISH INDIAN OCEAN TERRITORY	/ IO
BRUNEI DARUSSALAM	BN
BULGARIA	BG
BURKINA FASO	BF
BURUNDI	BI
CAMBODIA	KH
CAMEROON	CM
CANADA	CA
CAPE VERDE	CV
CAYMAN ISLANDS	KY
CENTRAL AFRICAN REPUBLIC	CF
CHAD	TD
CHILE	CL
CHINA	CN
CHRISTMAS ISLAND	CX
COCOS (KEELING) ISLANDS	CC
COLOMBIA	CO
COMOROS	KM
CONGO	CG
CONGO, THE DEMOCRATIC REPUBLIC OF THE	CD
COOK ISLANDS	CK
COSTA RICA	CR
CÔTE D'IVOIRE	CI
CROATIA	HR
CUBA	CU
CYPRUS	CY
CZECH REPUBLIC	CZ
DENMARK	DK
'	-

DJIBOUTI	DJ
DOMINICA	DM
DOMINICAN REPUBLIC	DO
ECUADOR	EC
EGYPT	EG
EL SALVADOR	SV
EQUATORIAL GUINEA	GQ
ERITREA	ER
ESTONIA	EE
ETHIOPIA	ET
FALKLAND ISLANDS (MALVINAS)	FK
FAROE ISLANDS	FO
FUI	FJ
FINLAND	FI
FRANCE	FR
FRENCH GUIANA	GF
FRENCH POLYNESIA	PF
FRENCH SOUTHERN TERRITORIES	TF
GABON	GA
GAMBIA	GM
GEORGIA	GE
GERMANY	DE
GHANA	GH
GIBRALTAR	GI
GREECE	GR
GREENLAND	GL
GRENADA	GD
GUADELOUPE	GP
GUAM	GU
GUATEMALA	GT
GUINEA	GN
GUINEA-BISSAU	GW
GUYANA	GY
HAITI	НТ
HEARD ISLAND AND MCDONALD ISLANDS	НМ
HONDURAS	HN
HONG KONG	HK
HUNGARY	HU
ICELAND	IS

INDIA	IN
INDONESIA	ID
IRAN, ISLAMIC REPUBLIC OF	IR
IRAQ	IQ
IRELAND	ΙE
ISRAEL	IL
ITALY	IT
JAMAICA	JM
JAPAN	JP
JORDAN	JO
KAZAKHSTAN	KZ
KENYA	K E
KIRIBATI	KI
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	KP
KOREA, REPUBLIC OF	KR
KUWAIT	KW
KYRGYZSTAN	KG
LAO PEOPLE'S DEMOCRATIC REPUBLIC (LAOS)	LA
LATVIA	LV
LEBANON	LB
LESOTHO	LS
LIBERIA	LR
LIBYAN ARAB JAMAHIRIYA	LY
LIECHTENSTEIN	LI
LITHUANIA	LT
LUXEMBOURG	LU
MACAO	MO
MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF	MK
MADAGASCAR	MG
MALAWI	MW
MALAYSIA	MY
MALDIVES	MV
MALI	ML
MALTA	MT
MARSHALL ISLANDS	MH
MARTINIQUE	MQ
MAURITANIA	MR
MAURITIUS	MU
MAYOTTE	YT

MEXICO	MX
MICRONESIA, FEDERATED STATES OF	FM
MOLDOVA, REPUBLIC OF	MD
MONACO	MC
MONGOLIA	MN
MONTENEGRO	ME
MONTSERRAT	MS
MOROCCO	MA
MOZAMBIQUE	MZ
MYANMAR	MM V
NAMIBIA	NA
NAURU	NR
NEPAL	NP
NETHERLANDS	NL
NETHERLANDS ANTILLES	AN
NEW CALEDONIA	NC
NEW ZEALAND	NZ
NICARAGUA	NI
NIGER	NE
NIGERIA	NG
NIUE	NU
NORFOLK ISLAND	NF
NORTHERN MARIANA ISLANDS	MP
NORWAY	NO
OMAN	OM
PAKISTAN	PK
PALAU	PW
PALESTINIAN TERRITORY, OCCUPIED	PS
PANAMA	PA
PAPUA NEW GUINEA	PG
PARAGUAY	PY
PERU	PE
PHILIPPINES	PH
PITCAIRN	PN
POLAND	PL
PORTUGAL	PT
PUERTO RICO	PR
QATAR	QA
RÉUNION	RE
	ı

ROMANIA	RO
RUSSIAN FEDERATION	RU
RWANDA	RW
SAINT HELENA	SH
SAINT KITTS AND NEVIS	KN
SAINT LUCIA	LC
SAINT PIERRE AND MIQUELON	PM
SAINT VINCENT AND THE GRENADINES	VC
SAMOA	WS
SAN MARINO	SM
SAO TOME AND PRINCIPE	ST
SAUDI ARABIA	SA
SENEGAL	SN
SERBIA	RS
SEYCHELLES	SC
SIERRA LEONE	SL
SINGAPORE	SG
SLOVAKIA	SK
SLOVENIA	SI
SOLOMON ISLANDS	SB
SOMALIA	SO
SOUTH AFRICA	ZA
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS
SPAIN	ES
SRI LANKA	LK
SUDAN	SD
SURINAME	SR
SVALBARD AND JAN MAYEN	SJ
SWAZILAND	SZ
SWEDEN	SE
SWITZERLAND	СН
SYRIAN ARAB REPUBLIC	SY
TAIWAN	TW
TAJIKISTAN	TJ
TANZANIA, UNITED REPUBLIC OF	TZ
THAILAND	TH
TIMOR-LESTE	TL
TOGO	TG
TOKELAU	TK

TONGA		TO
TRINIDAD AND TOBAGO	4.4	TT
TUNISIA		TN
TURKEY	, (max.max.)	TR
TURKMENISTAN		TM
TURKS AND CAICOS ISLANDS		TC
TUVALU		TV
UGANDA	2.2	UG
UKRAINE		UA
UNITED ARAB EMIRATES	# 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1	AE
UNITED KINGDOM	22	GB
UNITED STATES		US
UNITED STATES MINOR OUTLYING ISLANDS		UM
URUGUAY	33	UY
UZBEKISTAN		UZ
VANUATU		VU
VENEZUELA	2.2	VE
VIET NAM		VN
VIRGIN ISLANDS, BRITISH		VG
VIRGIN ISLANDS, U.S.	66	VI
WALLIS AND FUTUNA		WF
WESTERN SAHARA		EH
YEMEN	44	YE
ZAMBIA		ZM
ZIMBABWE		ZW
	• •	

HTTP Status Messages

When a browser requests a service from a web server, an error might occur.

This is a list of HTTP status messages that might be returned:

1xx: Information

Message:

100 Continue

101 Switching Protocols

103 Checkpoint

The server has received the request headers, and the client should proceed to send the request body The requester has asked the server to switch protocols Used in the resumable requests proposal to resume aborted PUT or POST requests

Description:

2xx: Successful

Message:

200 OK

201 Created

202 Accepted

203 Non-Authoritative Information

204 No Content

205 Reset Content

206 Partial Content

This is not in used

Description:

The request is OK (this is the standard response for successful HTTP requests)

The request has been fulfilled, and a new resource is created

The request has been accepted for processing, but the processing has not been completed

The request has been successfully processed, but is returning information that may be from another source

The request has been successfully processed, but is not returning any content

The request has been successfully processed, but is not returning any content, and requires that the requester reset the document view

The server is delivering only part of the resource due to a range header sent by the client

3xx: Redirection

Message: **Description:**

300 Multiple Choices	A link list. The user can select a link and go to that location. Maximum five addresses
301 Moved Permanently	The requested page has moved to a new URL
302 Found	The requested page has moved temporarily to a new URL
303 See Other	The requested page can be found under a different URL
304 Not Modified	Indicates the requested page has not been modified since last requested
306 Switch Proxy	No longer used
307 Temporary Redirect	The requested page has moved temporarily to a new URL
308 Resume Incomplete	Used in the resumable requests proposal to resume aborted PUT or POST requests

4xx: Client Error

Message:	Description:
400 Bad Request	The request cannot be fulfilled due to bad syntax
401 Unauthorized	The request was a legal request, but the server is refusing to respond to it. For use when authentication is possible but has failed or not yet been provided
402 Payment Required	Reserved for future use
403 Forbidden	The request was a legal request, but the server is refusing to respond to it
404 Not Found	The requested page could not be found but may be available again in the future
405 Method Not Allowed	A request was made of a page using a request method not supported by that page
406 Not Acceptable	The server can only generate a response that is not accepted by the client
407 Proxy Authentication Required	The client must first authenticate itself with the proxy
408 Request Timeout	The server timed out waiting for the request
409 Conflict	The request could not be completed because of a conflict in the request
410 Gone	The requested page is no longer available
411 Length Required	The "Content-Length" is not defined. The server will not accept the request without it
412 Precondition Failed	The precondition given in the request evaluated to false by the server
413 Request Entity Too Large	The server will not accept the request, because the request entity is too large

414 Request-URI Too Long

415 Unsupported Media Type

416 Requested Range Not Satisfiable

417 Expectation Failed

The server will not accept the request, because the URL is too long. Occurs when you convert a POST request to a GET request with a long query information

The server will not accept the request, because the media type is not supported

The client has asked for a portion of the file, but the server cannot supply that portion

The server cannot meet the requirements of the Expect request-header field

5xx: Server Error

Description: Message: A generic error message, given when no more specific 500 Internal Server Error message is suitable The server either does not recognize the request method, 501 Not Implemented or it lacks the ability to fulfill the request The server was acting as a gateway or proxy and received 502 Bad Gateway an invalid response from the upstream server 503 Service Unavailable The server is currently unavailable (overloaded or down) The server was acting as a gateway or proxy and did not 504 Gateway Timeout receive a timely response from the upstream server The server does not support the HTTP protocol version 505 HTTP Version Not Supported used in the request 511 Network Authentication The client needs to authenticate to gain network access Required

HTTP Request Methods

The two most common HTTP methods are: GET and POST.

What is HTTP?

The Hypertext Transfer Protocol (HTTP) is designed to enable communications between clients and servers.

HTTP works as a request-response protocol between a client and server.

A web browser may be the client, and an application on a computer that hosts a web site may be the server.

Example: A client (browser) submits an HTTP request to the server; then the server returns a response to the client. The response contains status information about the request and may also contain the requested content.

HTTP Methods

- GET
- POST
- PUT
- HEAD
- DELETE
- PATCH
- OPTIONS

The GET Method

GET is used to request data from a specified resource.

GET is one of the most common HTTP methods.

Note that the query string (name/value pairs) is sent in the URL of a GET request:

/test/demo form.php?name1=value1&name2=value2

Some other notes on GET requests:

- GET requests can be cached
- GET requests remain in the browser history
- GET requests can be bookmarked
- GET requests should never be used when dealing with sensitive data
- GET requests have length restrictions
- GET requests is only used to request data (not modify)

The POST Method

POST is used to send data to a server to create/update a resource.

The data sent to the server with POST is stored in the request body of the HTTP request:

POST /test/demo_form.php HTTP/1.1 Host: w3schools.com name1=value1&name2=value2

POST is one of the most common HTTP methods.

Some other notes on POST requests:

- POST requests are never cached
- POST requests do not remain in the browser history
- POST requests cannot be bookmarked
- POST requests have no restrictions on data length

The PUT Method

PUT is used to send data to a server to create/update a resource.

The difference between POST and PUT is that PUT requests are idempotent. That is, calling the same PUT request multiple times will always produce the same result. In contrast, calling a POST request repeatedly have side effects of creating the same resource multiple times.

The HEAD Method

HEAD is almost identical to GET, but without the response body.

In other words, if GET /users returns a list of users, then HEAD /users will make the same request but will not return the list of users.

HEAD requests are useful for checking what a GET request will return before actually making a GET request - like before downloading a large file or response body.

The DELETE Method

The DELETE method deletes the specified resource.

The OPTIONS Method

The OPTIONS method describes the communication options for the target resource.

Compare GET vs. POST

The following table compares the two HTTP methods: GET and POST.

•	GET	POST
BACK button/Reload	Harmless	Data will be re-submitted (the browser should alert the user that the data are about to be resubmitted)
Bookmarked	Can be bookmarked	Cannot be bookmarked
Cached	Can be cached	Not cached
Encoding type	application/x-www-form- urlencoded	application/x-www-form- urlencoded or multipart/form- data. Use multipart encoding for binary data
History	Parameters remain in browser	Parameters are not saved in

	history	browser history
Restrictions on data length	Yes, when sending data, the GET method adds the data to the URL; and the length of a URL is limited (maximum URL length is 2048	No restrictions
Restrictions on data type	characters) Only ASCII characters allowed	No restrictions. Binary data is also allowed
Security	GET is less secure compared to POST because data sent is part of the URL Never use GET when sending passwords or other sensitive information!	POST is a little safer than GET because the parameters are not stored in browser history or in web server logs
Visibility	Data is visible to everyone in the URL	Data is not displayed in the URL

Keyboard Shortcuts

Save time by using keyboard shortcuts.

Keyboard Shortcuts For Windows and Mac

Keyboard shortcuts are often used in modern operating systems and computer software programs.

Using keyboard shortcuts could save you a lot of time.

Basic Short		
Description	Windows	Mac OS
Edit menu	Alt + E	Ctrl + F2 + F
File menu	Alt + F	Ctrl + F2 + E
View menu	Alt + V	Ctrl + F2 + V
Select all text	Ctrl + A	Cmd + A
Copy text	Ctrl + Ç	Cmd + C
Find text	Ctrl + F	Cmd + F
Find and replace text	Ctrl + H	Cmd + F
New Document	Ctrl + N	Cmd + N
Open a file	Ctrl + O	Cmd + O
Print options	Ctrl + P	Cmd + P
Save file	Ctrl + S	Cmd + S

Paste text	Ctrl + V	Cmd + V
Cut text	Ctrl + X	Cmd + X
Redo text	Ctrl + Y	Shift + Cmd + Z
Undo text	Ctrl + Z	Cmd + Z

Text Editing

*		Windows	•	Mac OS
Cursor Movement	nimino montani	re mor more mor	1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1 116 1	
Go to the right or to the beginning of next line by	reak	Right Arrow		Right Arrow
Go to the left or to the end of previous line brea	k	Left Arrow		Left Arrow
Go up one row		Up Arrow		Up Arrow
Go down one row		Down Arrow		Down Arrow
Go to the beginning of the current line		Home		Cmd + Left Arrow
Go to the end of the current line		End		Cmd + Right Arrow
Go to the beginning of the document		Ctrl + Home		Cmd + Up Arrow
Go to the end of the document		Ctrl + End		Cmd + Down Arrow
Move up one frame		Page Up		Fn + Up Arrow
Move down one frame		Page Down		Fn + Down Arrow
Go to beginning of previous word		Ctrl + Left Arrow		Option + Left Arrow

Go to beginning of next word	Ctrl + Right Arrow	Option + Right Arrow
Go to beginning of line break	Ctrl + Up Arrow	Cmd + Left Arrow
Go to end of line break	Ctrl + Down Arrow	Cmd + Right Arrow

TEXT SELECTION

Select characters to the left		Shift + Left Arrow		Shift + Left Arrow
Select characters to the right		Shift + Right Arrow		Shift + Right Arrow
Select lines upwards		Shift + Up Arrow		Shift + Up Arrow
Select lines downwards		Shift + Down Arrow		Shift + Down Arrow
Select words to the left		Shift + Ctrl + Left		Shift + Opt + Left
Select words to the right	7	Shift + Ctrl + Right		Shift + Opt + Right
Select paragraphs to the left		Shift + Ctrl + Up		Shift + Opt + Up
Select paragraphs to the right		Shift + Ctrl + Down		Shift + Opt + Down
Select text between the cursor and the beginning of the current line		Shift + Home		Cmd + Shift + Left Arrow
Select text between the cursor and the end of the current line		Shift + End		Cmd + Shift + Right Arrow
Select text between the cursor and the beginning of the document		Shift + Ctrl + Home		Cmd + Shift + Up Arrow or Cmd + Shift + Fn + Left Arrow
Select text between the cursor and the end of the document		Shift + Ctrl + End		Cmd + Shift + Down Arrow or Cmd + Shift + Fn + Right Arrow
Select one frame at a time of text above the co	ursor	Shift + Page Up	I	Shift + Fn + Up Arrow

Select one frame at a time of text below the cursor	Shift + Page Down	Shift + Fn + Down Arrow
Select all text	Ctrl + A	Cmd + A
Find text	Ctrl + F	Cmd + F

TEXT FORMATTING

Make selected text bold	Ctrl + B	Cmd + B
Make selected text italic	Ctrl + I	Cmd + I
Underline selected text	Ctrl + U	Cmd + U
Make selected text superscript	Ctrl + Shift + =	Cmd + Shift + =
Make selected text subscript	Ctrl +=	Cmd + =

TEXT EDITING

TEXT EDITING		
Delete characters to the left	Backspace	Backspace
Delete characters to the right	Delete	Fn + Backspace
Delete words to the right	Ctrl + Del	Cmd + Backspace
Delete words to the left	Ctrl + Backspace	Cmd + Fn + Backspace
Indent	Tab	Tab
Outdent	Shift + Tab	Shift + Tab
Copy text	Ctrl + C	Cmd + C
Find and replace text	Ctrl + H	Cmd + F
	1	I

Paste text	Ctrl + V	Cmd + V
Cut text	Ctrl + X	Cmd + X
Redo text	Ctrl + Y	Shift + Cmd + Z
Undo text	Ctrl + Z	Cmd + Z

Web Browsers	,		
<i>Description</i>	Windows	Mac OS	
Navigation	t tall tall tall tall tall tall tall ta	e de l'inclusive i me i	
Scroll down a frame	Space or Page Down	Space or Fn + Down Arrow	
Scroll up a frame	Shift + Space or Page Up	Shift + Space or Fn + Up Arrow	
Go to bottom of the page	End	Cmd + Down Arrow	
Go to top of the page	Home	Cmd + Up Arrow	
Go back	Alt + Left Arrow or Backspace	Cmd + Left Arrow	
Go forward	Alt + Right Arrow or Shift + Backspace	Cmd + Right Arrow	
Refresh a webpage	F5	Cmd + R	
Refresh a webpage (no cache)	Ctrl + F5	Cmd + Shift + R	
Stop	Esc	Esc	
Toggle full-screen	F11	Cmd + Shift + F	

Zoom in	Ctrl + +	Cmd + +
Zoom out	Ctrl + -	Cmd + -
Zoom 100% (default)	Ctrl + 0	Cmd + 0
Open homepage	Alt + Home	Option + Home or Option + Fn + Left Arrow
Find text	Ctrl + F	Cmd + F

TAB / WINDOW MANAGEMENT

Open a new tab	Ctrl + T	Cmd + T
Close current tab	Ctrl + W	Cmd + W
Close all tabs	Ctrl + Shift + W	Cmd + Q
Close all tabs except the current tab	Ctrl + Alt + F4	Cmd + Opt + W
Go to next tab	Ctrl + Tab	Control + Tab or Cmd + Shift + Right Arrow
Go to previous tab	Ctrl + Shift + Tab	Shift + Control + Tab or Cmd + Shift Left Arrow
Go to a specific tab number	Ctrl + 1-8	Cmd + 1-8
Go to the last tab	Ctrl + 9	Cmd + 9
Reopen the last closed tab	Ctrl + Shift + T	Cmd + Shift + T
Open a new window	Ctrl + N	Cmd + N

Close current window	Alt + F4	Cmd + W
Go to next window	Alt + Tab	Cmd + Tab
Go to previous window	Alt + Shift + Tab	Cmd + Shift + Tab
Reopen the last closed window	Ctrl + Shift + N	
Open links in a new tab in the background	Ctrl + Click	Cmd + Click
Open links in a new tab in the foreground	Ctrl + Shift + Click	Cmd + Shift + Click
Print current webpage	Ctrl + P	Cmd + P
Save current webpage	Ctrl + S	Cmd + S

ADDRESS BAR

Cycle between toolbar, search bar, and page elements	Tab	Tab
Go to browser's address bar	Ctrl + L or Alt + D	Cmd + L
Focus and select the browser's search bar	Ctrl + E	Cmd + E / Cmd + K
Open the address bar location in a new tab	Alt + Enter	Opt + Enter
Display a list of previously typed addresses	F4	
Add "www." to the beginning and ".com" to the end of the text typed in the address bar (e.g., type "w3schools" and press Ctrl + Enter to open "www.w3schools.com")	Ctrl + Enter	Cmd + Enter or Control + Enter

BOOKMARKS

Open the bookmarks menu	Ctrl + B	Cmd + B
Add bookmark for current page	Ctrl + D	Cmd + Opt + B or

		Cmd + Shift + B
Open browsing history	Ctrl + H	Cmd + Shift + H or Cmd + Y
Open download history	Ctrl + J	Cmd + J or Cmd + Shift + J

Screenshots

Description	Windows	Mac OS
Save screenshot of the whole screen as file	e e mar emar emar emar emar emar emar em	cmd + Shift + 3
Copy screenshot of the whole screen to the clipboard	PrtScr (Print Screen) or Ctrl + PrtScr	Cmd + Ctrl + Shift + 3
Save screenshot of window as file		Cmd + Shift + 4, then Space
Copy screenshot of window to the cl ipboard	Alt + PrtScr	Cmd + Ctrl + Shift + 4, then Space
Copy screenshot of wanted area to the clipboard		Cmd + Ctrl + Shift + 4
Save screenshot of wanted area as file Note: Due to different keyboard setups, some shortcuts may not be compatible for all users		Cmd + Shift + 4