Basic HTML

Tag	Description
<!DOCTYPE>	Defines the document type
<html>	Defines an HTML document
<head>	Contains metadata/information for the document
<title>	Defines a title for the document
<body>	Defines the document's body
<h1> to <h6>	Defines HTML headings
<p>	Defines a paragraph
 	Inserts a single line break
<hr>	Defines a thematic change in the content
<!--...-->	Defines a comment

Formatting

Tag	Description
<acronym>	Not supported in HTML5. Use <abbr> instead. Defines an acronym
<abbr>	Defines an abbreviation or an acronym
<address>	Defines contact information for the author/owner of a document/article
<b>	Defines bold text

<u>\<bdi></u>	Isolates a part of text that might be formatted in a different direction from other text outside it
<u>\<bdo></u>	Overrides the current text direction
<u>\<big></u>	Not supported in HTML5. Use CSS instead. Defines big text
<u>\<blockquote></u>	Defines a section that is quoted from another source
<u>\<center></u>	Not supported in HTML5. Use CSS instead. Defines centered text
<u>\<cite></u>	Defines the title of a work
<u>\<code></u>	Defines a piece of computer code
<u>\<del></u>	Defines text that has been deleted from a document
<u>\<dfn></u>	Specifies a term that is going to be defined within the content
<u>\<em></u>	Defines emphasized text
<u>\<font></u>	Not supported in HTML5. Use CSS instead. Defines font, color, and size for text
<u>\<i></u>	Defines a part of text in an alternate voice or mood
<u>\<ins></u>	Defines a text that has been inserted into a document
<u>\<kbd></u>	Defines keyboard input
<u>\<mark></u>	Defines marked/highlighted text

<meter>	Defines a scalar measurement within a known range (a gauge)
<pre>	Defines preformatted text
<progress>	Represents the progress of a task
<q>	Defines a short quotation
<rp>	Defines what to show in browsers that do not support ruby annotations
<rt>	Defines an explanation/pronunciation of characters (for East Asian typography)
<ruby>	Defines a ruby annotation (for East Asian typography)
<s>	Defines text that is no longer correct
<samp>	Defines sample output from a computer program
<small>	Defines smaller text
<strike>	Not supported in HTML5. Use <del> or <s> instead. Defines strikethrough text
<strong>	Defines important text
<sub>	Defines subscripted text
<sup>	Defines superscripted text
<template>	Defines a container for content that should be hidden when the page loads
<time>	Defines a specific time (or datetime)

<tt>	**Not supported in HTML5. Use CSS instead.** Defines teletype text
<u>	Defines some text that is unarticulated and styled differently from normal text
<var>	Defines a variable
<wbr>	Defines a possible line-break

Forms and Input

Tag	Description
<form>	Defines an HTML form for user input
<input>	Defines an input control
<textarea>	Defines a multiline input control (text area)
<button>	Defines a clickable button
<select>	Defines a drop-down list
<optgroup>	Defines a group of related options in a drop-down list
<option>	Defines an option in a drop-down list
<label>	Defines a label for an <input> element
<fieldset>	Groups related elements in a form
<legend>	Defines a caption for a <fieldset> element

<datalist>	Specifies a list of pre-defined options for input controls
<output>	Defines the result of a calculation

Frames

Tag	Description
<frame>	Not supported in HTML5. Defines a window (a frame) in a frameset
<frameset>	Not supported in HTML5. Defines a set of frames
<noframes>	Not supported in HTML5. Defines an alternate content for users that do not support frames
<iframe>	Defines an inline frame

Images

Tag	Description
<img>	Defines an image
<map>	Defines a client-side image map
<area>	Defines an area inside an image map
<canvas>	Used to draw graphics, on the fly, via scripting (usually JavaScript)

<figcaption>	Defines a caption for a <figure> element
<figure>	Specifies self-contained content
<picture>	Defines a container for multiple image resources
<svg>	Defines a container for SVG graphics

Audio / Video

Tag	Description
<audio>	Defines sound content
<source>	Defines multiple media resources for media elements (<video>, <audio> and <picture>)
<track>	Defines text tracks for media elements (<video> and <audio>)
<video>	Defines a video or movie

Links

Tag	Description
<a>	Defines a hyperlink
<link>	Defines the relationship between a document and an external resource (most used to link to style sheets)
<nav>	Defines navigation links

Lists

Tag	Description
	Defines an unordered list
	Defines an ordered list
	Defines a list item
<dir>	Not supported in HTML5. Use instead. Defines a directory list
<dl>	Defines a description list
<dt>	Defines a term/name in a description list
<dd>	Defines a description of a term/name in a description list

Tables

Tag	Description
<table>	Defines a table
<caption>	Defines a table caption
<th>	Defines a header cell in a table
<tr>	Defines a row in a table
<td>	Defines a cell in a table
<thead>	Groups the header content in a table
<tbody>	Groups the body content in a table
<tfoot>	Groups the footer content in a table

<col>	Specifies column properties for each column within a <colgroup> element
<colgroup>	Specifies a group of one or more columns in a table for formatting

Styles and Semantics

Tag	Description
<style>	Defines style information for a document
<div>	Defines a section in a document
<span>	Defines a section in a document
<header>	Defines a header for a document or section
<footer>	Defines a footer for a document or section
<main>	Specifies the main content of a document
<section>	Defines a section in a document
<article>	Defines an article
<aside>	Defines content aside from the page content
<details>	Defines additional details that the user can view or hide
<dialog>	Defines a dialog box or window
<summary>	Defines a visible heading for a <details> element

<data>	Adds a machine-readable translation of a given content

Meta Info

Tag	Description
<head>	Defines information about the document
<meta>	Defines metadata about an HTML document
<base>	Specifies the base URL/target for all relative URLs in a document
<basefont>	Not supported in HTML5. Use CSS instead. Specifies a default color, size, and font for all text in a document

Programming

Tag	Description
<script>	Defines a client-side script
<noscript>	Defines an alternate content for users that do not support client-side scripts
<applet>	Not supported in HTML5. Use <embed> or <object> instead. Defines an embedded applet
<embed>	Defines a container for an external (non-HTML) application
<object>	Defines an embedded object
<param>	Defines a parameter for an object

HTML Attribute Reference

The table below lists all HTML attributes and what elements they can be used within:

Attribute	Belongs to	Description
accept	<input>	Specifies the types of files that the server accepts (only for type="file")
accept-charset	<form>	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	<form>	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

alt	<area>, <img>, <input>	Specifies an alternate text when the original element fails to display
async	<script>	Specifies that the script is executed asynchronously (only for external scripts)

autocomplete	<form>, <input>	Specifies whether the <form> or the <input> element should have autocomplete enabled
autofocus	<button>, <input>, <select>, <textarea>	Specifies that the element should automatically get focus when the page loads
autoplay	<audio>, <video>	Specifies that the audio/video will start playing as soon as it is ready

bgcolor	Not supported in HTML 5.	Specifies the background color of an element. Use CSS instead
border	Not supported in HTML 5.	Specifies the width of the border of an element. Use CSS instead
charset	<meta>, <script>	Specifies the character encoding

checked	<input>	Specifies that an <input> element should be pre-selected when the page loads (for type="checkbox" or type="radio")
cite	<blockquote>, <del>, <ins>, <q>	Specifies a URL which explains the quote/ deleted/ inserted text

class	Global Attributes	Specifies one or more classnames for an element (refers to a class in a style sheet)
color	Not supported in HTML 5.	Specifies the text color of an element. Use CSS instead
cols	<textarea>	Specifies the visible width of a text area
colspan	<td>, <th>	Specifies the number of columns a table cell should span

content	<meta>	Gives the value associated with the http-equiv or name attribute
contenteditable	Global Attributes	Specifies whether the content of an element is editable or not
controls	<audio>, <video>	Specifies that audio/video controls should be displayed (such as a play/pause button etc)

coords	<area>	Specifies the coordinates of the area
data	<object>	Specifies the URL of the resource to be used by the object
data-*	Global Attributes	Used to store custom data private to the page or application
datetime	<del>, <ins>, <time>	Specifies the date and time

default	<track>	Specifies that the track is to be enabled if the user's preferences do not indicate that another track would be more appropriate
defer	<script>	Specifies that the script is executed when the page has finished parsing (only for external scripts)

dir	Global Attributes	Specifies the text direction for the content in an element
dirname	<input>, <textarea>	Specifies that the text direction will be submitted
disabled	<button>, <fieldset>, <input>, <optgroup>, <option>, <select>, <textarea>	Specifies that the specified element/ group of elements should be disabled

download	<a>, <area>	Specifies that the target will be downloaded when a user clicks on the hyperlink
draggable	Global Attributes	Specifies whether an element is draggable or not
enctype	<form>	Specifies how the form-data should be encoded when submitting it to the server (only for method="post")

for	<label>, <output>	Specifies which form element(s) a label/calculation is bound to
form	<button>, <fieldset>, <input>, <label>, <meter>, <object>, <output>, <select>, <textarea>	Specifies the name of the form the element belongs to
formaction	<button>, <input>	Specifies where to send the form-data when a form is submitted. Only for type="submit"

headers	<td>, <th>	Specifies one or more headers cells a cell is related to
height	<canvas>, <embed>, <iframe>, <img>, <input>, <object>, <video>	Specifies the height of the element
hidden	Global Attributes	Specifies that an element is not yet, or is no longer, relevant
high	<meter>	Specifies the range that is considered to be a high value

href	<a>, <area>, <base>, <link>	Specifies the URL of the page the link goes to
hreflang	<a>, <area>, <link>	Specifies the language of the linked document
http-equiv	<meta>	Provides an HTTP header for the information/value of the content attribute
id	Global Attributes	Specifies a unique id for an element

ismap	<img>	Specifies an image as a server-side image map
kind	<track>	Specifies the kind of text track
label	<track>, <option>, <optgroup>	Specifies the title of the text track
lang	Global Attributes	Specifies the language of the element's content

list	<input>	Refers to a <datalist> element that contains pre-defined options for an <input> element
loop	<audio>, <video>	Specifies that the audio/video will start over again, every time it is finished
low	<meter>	Specifies the range that is considered to be a low value

max	<input>, <meter>, <progress>	Specifies the maximum value
maxlength	<input>, <textarea>	Specifies the maximum number of characters allowed in an element
media	<a>, <area>, <link>, <source>, <style>	Specifies what media / device the linked document is optimized for
method	<form>	Specifies the HTTP method to use when sending form-data

min	<input>, <meter>	Specifies a minimum value
multiple	<input>, <select>	Specifies that a user can enter more than one value
muted	<video>, <audio>	Specifies that the audio output of the video should be muted
name	<button>, <fieldset>, <form>, <iframe>, <input>, <map>, <meta>, <object>, <output>, <param>, <select>, <textarea>	Specifies the name of the element
novalidate	<form>	Specifies that the form should not be validated when submitted

onabort	<audio>, <embed>, <img>, <object>, <video>	Script to be run on abort
onafterprint	<body>	Script to be run after the document is printed
onbeforeprint	<body>	Script to be run before the document is printed
onbeforeunload	<body>	Script to be run when the document is about to be unloaded
onblur	All visible elements.	Script to be run when the element loses focus

oncanplay	<audio>, <embed>, <object>, <video>	Script to be run when a file is ready to start playing (when it has buffered enough to begin)
oncanplaythrough	<audio>, <video>	Script to be run when a file can be played all the way to the end without pausing for buffering

onchange	All visible elements.	Script to be run when the value of the element is changed
onclick	All visible elements.	Script to be run when the element is being clicked
oncontextmenu	All visible elements.	Script to be run when a context menu is triggered
oncopy	All visible elements.	Script to be run when the content of the element is being copied

oncuechange	<track>	Script to be run when the cue changes 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

ondragend	All visible elements.	Script to be run at the end of a drag operation
ondragenter	All visible elements.	Script to be run when an element has been dragged to a valid drop target
ondragleave	All visible elements.	Script to be run when an element leaves a valid drop target

ondragover	All visible elements.	Script to be run when an element is being dragged over a valid drop target
ondragstart	All visible elements.	Script to be run at the start of a drag operation
ondrop	All visible elements.	Script to be run when dragged element is being dropped
ondurationchange	\<audio\>, \<video\>	Script to be run when the length of the media changes

onemptied	<audio>, <video>	Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects)
onended	<audio>, <video>	Script to be run when the media has reach the end (a useful event for messages like "thanks for listening")

onerror	<audio>, <body>, <embed>, <img>, <object>, <script>, <style>, <video>	Script to be run when an error occurs
onfocus	All visible elements.	Script to be run when the element gets focus
onhashchange	<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
onkeydown	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 key
onkeyup	All visible elements.	Script to be run when a user releases a key

onload	<body>, <iframe>, <img>, <input>, <link>, <script>, <style>	Script to be run when the element is finished loading
onloadeddata	<audio>, <video>	Script to be run when media data is loaded
onloadedmetadata	<audio>, <video>	Script to be run when meta data (like dimensions and duration) are loaded

onloadstart	<audio>, <video>	Script to be run just as the file begins to load before anything is actually loaded
onmousedown	All visible elements.	Script to be run when a mouse button is pressed down on an element
onmousemove	All visible elements.	Script to be run as long as the mouse pointer is moving over an element

onmouseout	All visible elements.	Script to be run when a mouse pointer moves out of an element
onmouseover	All visible elements.	Script to be run when a mouse pointer moves over an element
onmouseup	All visible elements.	Script to be run when a mouse button is released over an element

onmousewheel	All visible elements.	Script to be run when a mouse wheel is being scrolled over an element
onoffline	<body>	Script to be run when the browser starts to work offline
ononline	<body>	Script to be run when the browser starts to work online

onpagehide	<body>	Script to be run when a user navigates away from a page
onpageshow	<body>	Script to be run when a user navigates to a page
onpaste	All visible elements.	Script to be run when the user pastes some content in an element

onpause	<audio>, <video>	Script to be run when the media is paused either by the user or programmatically
onplay	<audio>, <video>	Script to be run when the media has started playing
onplaying	<audio>, <video>	Script to be run when the media has started playing

onpopstate	<body>	Script to be run when the window's history changes.
onprogress	<audio>, <video>	Script to be run when the browser is in the process of getting the media data

onratechange	<audio>, <video>	Script to be run each time the playback rate changes (like when a user switches to a slow motion or fast forward mode).
onreset	<form>	Script to be run when a reset button in a form is clicked.
onresize	<body>	Script to be run when the browser window is being resized.

onscroll	All visible elements.	Script to be run when an element's scrollbar is being scrolled
onsearch	<input>	Script to be run when the user writes something in a search field (for <input="search">)
onseeked	<audio>, <video>	Script to be run when the seeking attribute is set to false indicating that seeking has ended

onseeking	<audio>, <video>	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
onstalled	<audio>, <video>	Script to be run when the browser is unable to fetch the media data for whatever reason

onstorage	<body>	Script to be run when a Web Storage area is updated
onsubmit	<form>	Script to be run when a form is submitted
onsuspend	<audio>, <video>	Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason

ontimeupdate	<audio>, <video>	Script to be run when the playing position has changed (like when the user fast forwards to a different point in the media)
ontoggle	<details>	Script to be run when the user opens or closes the <details> element

onunload	<body>	Script to be run when a page has unloaded (or the browser window has been closed)
onvolumechange	<audio>, <video>	Script to be run each time the volume of a video/audio has been changed

onwaiting	<audio>, <video>	Script to be run when the media has paused but is expected to resume (like when the media pauses to buffer more data)
onwheel	All visible elements.	Script to be run when the mouse wheel rolls up or down over an element

open	<details>	Specifies that the details should be visible (open) to the user
optimum	<meter>	Specifies what value is the optimal value for the gauge
pattern	<input>	Specifies a regular expression that an <input> element's value is checked against

placeholder	<input>, <textarea>	Specifies a short hint that describes the expected value of the element
poster	<video>	Specifies an image to be shown while the video is downloading, or until the user hits the play button

preload	<audio>, <video>	Specifies if and how the author thinks the audio/video should be loaded when the page loads
readonly	<input>, <textarea>	Specifies that the element is read-only
rel	<a>, <area>, <form>, <link>	Specifies the relationship between the current document and the linked document

required	<input>, <select>, <textarea>	Specifies that the element must be filled out before submitting the form
reversed		Specifies that the list order should be descending (9,8,7...)
rows	<textarea>	Specifies the visible number of lines in a text area
rowspan	<td>, <th>	Specifies the number of rows a table cell should span

sandbox	<iframe>	Enables an extra set of restrictions for the content in an <iframe>
scope	<th>	Specifies whether a header cell is a header for a column, row, or group of columns or rows
selected	<option>	Specifies that an option should be pre-selected when the page loads

shape	<area>	Specifies the shape of the area
size	<input>, <select>	Specifies the width, in characters (for <input>) or specifies the number of visible options (for <select>)
sizes	<img>, <link>, <source>	Specifies the size of the linked resource
span	<col>, <colgroup>	Specifies the number of columns to span

spellcheck	Global Attributes	Specifies whether the element is to have its spelling and grammar checked or not
src	<audio>, <embed>, <iframe>, <img>, <input>, <script>, <source>, <track>, <video>	Specifies the URL of the media file
srcdoc	<iframe>	Specifies the HTML content of the page to show in the <iframe>

srclang	<track>	Specifies the language of the track text data (required if kind="subtitles")
srcset	<img>, <source>	Specifies the URL of the image to use in different situations
start		Specifies the start value of an ordered list
step	<input>	Specifies the legal number intervals for an input field

style	Global Attributes	Specifies an inline CSS style for an element
tabindex	Global Attributes	Specifies the tabbing order of an element
target	<a>, <area>, <base>, <form>	Specifies the target for where to open the linked document or where to submit the form
title	Global Attributes	Specifies extra information about an element

translate	Global Attributes	Specifies whether the content of an element should be translated or not
type	<a>, <button>, <embed>, <input>, <link>, <menu>, <object>, <script>, <source>, <style>	Specifies the type of element
usemap	<img>, <object>	Specifies an image as a client-side image map
value	<button>, <input>, , <option>, <meter>, <progress>, <param>	Specifies the value of the element
width	<canvas>, <embed>, <iframe>, <img>, <input>, <object>, <video>	Specifies the width of the element

wrap	<textarea>	Specifies how the text in a text area is to be wrapped when submitted in a form

HTML Global Attributes

The global attributes are attributes that can be used with all HTML elements.

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)
contenteditable	Specifies whether the content of an element is editable or not
data-*	Used to store custom data private to the page or application
dir	Specifies the text direction for the content in an element
draggable	Specifies whether an element is draggable or not

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
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 JavaScript tutorial.

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
onafterprint	*script*	Script to be run after the document is printed
onbeforeprint	*script*	Script to be run before the document is printed
onbeforeunload	*script*	Script to be run when the document is about to be unloaded
onerror	*script*	Script to be run when an error occurs
onhashchange	*script*	Script to be run when there has been changes to the anchor part of the a URL
onload	*script*	Fires after the page is finished loading
onmessage	*script*	Script to be run when the message is triggered

onoffline	*script*	Script to be run when the browser starts to work offline
ononline	*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
onpageshow	*script*	Script to be run when a user navigates to a page
onpopstate	*script*	Script to be run when the window's history changes
onresize	*script*	Fires when the browser window is resized
onstorage	*script*	Script to be run when a Web Storage area is updated
onunload	*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
onchange	*script*	Fires the moment when the value of the element is changed
oncontextmenu	*script*	Script to be run when a context menu is triggered
onfocus	*script*	Fires the moment when the element gets focus
oninput	*script*	Script to be run when an element gets user input
oninvalid	*script*	Script to be run when an element is invalid
onreset	*script*	Fires when the Reset button in a form is clicked
onsearch	*script*	Fires when the user writes something in a search field (for <input="search">)

onselect	*script*	Fires after some text has been selected in an element
onsubmit	*script*	Fires when a form is submitted

Keyboard Events

Attribute	Value	Description
onkeydown	*script*	Fires when a user is pressing a key
onkeypress	*script*	Fires when a user presses a key
onkeyup	*script*	Fires when a user releases a key

Mouse Events

Attribute	Value	Description
onclick	*script*	Fires on a mouse click on the element
ondblclick	*script*	Fires on a mouse double-click on the element
onmousedown	*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
onmouseout	*script*	Fires when the mouse pointer moves out of an element
onmouseover	*script*	Fires when the mouse pointer moves over an element
onmouseup	*script*	Fires when a mouse button is released over an element
onmousewheel	*script*	Deprecated. Use the onwheel attribute instead

Attribute	Value	Description
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
ondragend	*script*	Script to be run at the end of a drag operation
ondragenter	*script*	Script to be run when an element has been dragged to a valid drop target
ondragleave	*script*	Script to be run when an element leaves a valid drop target
ondragover	*script*	Script to be run when an element is being dragged over a valid drop target
ondragstart	*script*	Script to be run at the start of a drag operation

<u>ondro</u> <u>p</u>	*sc* *ri* *pt*	Script to be run when dragged element is being dropped
<u>onscr</u> <u>oll</u>	*sc* *ri* *pt*	Script to be run when an element's scrollbar is being scrolled

Clipboard Events

Attri bute	V al u e	Description
<u>oncop</u> <u>y</u>	*sc* *ri* *pt*	Fires when the user copies the content of an element
<u>oncut</u>	*sc* *ri* *pt*	Fires when the user cuts the content of an element
<u>onpas</u> <u>te</u>	*sc* *ri* *pt*	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>, <img>, <object>, and <video>).

Attribute	Value	Description
onabort	*script*	Script to be run on abort
oncanplay	*script*	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 Color Names

Color Names Supported by All Browsers

All modern browsers support the following 140 color names (click on a color name, or a hex value, to view the color as the background-color along with different text colors):

For a full overview of HTML colors, visit our colors tutorial.

AliceBlue
#F0F8FF

AntiqueWhite
#FAEBD7

Aqua
#00FFFF

Aquamarine
#7FFFD4

Azure
#F0FFFF

Beige
#F5F5DC

Bisque
#FFE4C4

Black
#000000

BlanchedAlmond
#FFEBCD

Blue
#0000FF

BlueViolet
#8A2BE2

Brown
#A52A2A

BurlyWood
#DEB887

CadetBlue
#5F9EA0

Chartreuse
#7FFF00

Chocolate
#D2691E

Coral

#FF7F50

CornflowerBlue
#6495ED

Cornsilk
#FFF8DC

Crimson
#DC143C

Cyan
#00FFFF

DarkBlue
#00008B

DarkCyan
#008B8B

DarkGoldenRod
#B8860B

DarkGray
#A9A9A9

DarkGrey
#A9A9A9

DarkGreen
#006400

DarkKhaki
#BDB76B

DarkMagenta
#8B008B

DarkOliveGreen
#556B2F

DarkOrange
#FF8C00

DarkOrchid
#9932CC

DarkRed
#8B0000

DarkSalmon
#E9967A

DarkSeaGreen
#8FBC8F

DarkSlateBlue
#483D8B

DarkSlateGray
#2F4F4F

DarkSlateGrey

#2F4F4F

DarkTurquoise
#00CED1

DarkViolet
#9400D3

DeepPink
#FF1493

DeepSkyBlue
#00BFFF

DimGray
#696969

DimGrey
#696969

DodgerBlue
#1E90FF

FireBrick
#B22222

FloralWhite
#FFFAF0

ForestGreen
#228B22

Fuchsia
#FF00FF

Gainsboro
#DCDCDC

GhostWhite
#F8F8FF

Gold
#FFD700

GoldenRod
#DAA520

Gray
#808080

Grey
#808080

Green
#008000

GreenYellow
#ADFF2F

HoneyDew
#F0FFF0

HotPink

#FF69B4

IndianRed
#CD5C5C

Indigo
#4B0082

Ivory
#FFFFF0

Khaki
#F0E68C

Lavender
#E6E6FA

LavenderBlush
#FFF0F5

LawnGreen
#7CFC00

LemonChiffon
#FFFACD

LightBlue
#ADD8E6

LightCoral
#F08080

LightCyan
#E0FFFF

LightGoldenRodYellow
#FAFAD2

LightGray
#D3D3D3

LightGrey
#D3D3D3

LightGreen
#90EE90

LightPink
#FFB6C1

LightSalmon
#FFA07A

LightSeaGreen
#20B2AA

LightSkyBlue
#87CEFA

LightSlateGray
#778899

LightSlateGrey

#778899

LightSteelBlue
#B0C4DE

LightYellow
#FFFFE0

Lime
#00FF00

LimeGreen
#32CD32

Linen
#FAF0E6

Magenta
#FF00FF

Maroon
#800000

MediumAquaMarine
#66CDAA

MediumBlue
#0000CD

MediumOrchid
#BA55D3

MediumPurple
#9370DB

MediumSeaGreen
#3CB371

MediumSlateBlue
#7B68EE

MediumSpringGreen
#00FA9A

MediumTurquoise
#48D1CC

MediumVioletRed
#C71585

MidnightBlue
#191970

MintCream
#F5FFFA

MistyRose
#FFE4E1

Moccasin
#FFE4B5

NavajoWhite

#FFDEAD

Navy
#000080

OldLace
#FDF5E6

Olive
#808000

OliveDrab
#6B8E23

Orange
#FFA500

OrangeRed
#FF4500

Orchid
#DA70D6

PaleGoldenRod
#EEE8AA

PaleGreen
#98FB98

PaleTurquoise
#AFEEEE

PaleVioletRed
#DB7093

PapayaWhip
#FFEFD5

PeachPuff
#FFDAB9

Peru
#CD853F

Pink
#FFC0CB

Plum
#DDA0DD

PowderBlue
#B0E0E6

Purple
#800080

RebeccaPurple
#663399

Red
#FF0000

RosyBrown

#BC8F8F

RoyalBlue
#4169E1

SaddleBrown
#8B4513

Salmon
#FA8072

SandyBrown
#F4A460

SeaGreen
#2E8B57

SeaShell
#FFF5EE

Sienna
#A0522D

Silver
#C0C0C0

SkyBlue
#87CEEB

SlateBlue
#6A5ACD

SlateGray
#708090

SlateGrey
#708090

Snow
#FFFAFA

SpringGreen
#00FF7F

SteelBlue
#4682B4

Tan
#D2B48C

Teal
#008080

Thistle
#D8BFD8

Tomato
#FF6347

Turquoise
#40E0D0

Violet

#EE82EE

Wheat
#F5DEB3

White
#FFFFFF

WhiteSmoke
#F5F5F5

Yellow
#FFFF00

YellowGreen
#9ACD32

HTML Canvas Reference

HTML Canvas Reference

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

To learn more about `<canvas>`, please read our HTML Canvas tutorial.

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
shadowColor	Sets or returns the color to use for shadows
shadowBlur	Sets or returns the blur level for shadows
shadowOffsetX	Sets or returns the horizontal distance of the shadow from the shape
shadowOffsetY	Sets or returns the vertical distance of the shadow from the shape

Method	Description
createLinearGradient()	Creates a linear gradient (to use on canvas content)
createPattern()	Repeats a specified element in the specified direction
createRadialGradient()	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
lineCap	Sets or returns the style of the end caps for a line
lineJoin	Sets or returns the type of corner created, when two lines meet
lineWidth	Sets or returns the current line width
miterLimit	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)
clearRect()	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
clip()	Clips a region of any shape and size from the original canvas
quadraticCurveTo()	Creates a quadratic Bézier curve
bezierCurveTo()	Creates a cubic Bézier curve
arc()	Creates an arc/curve (used to create circles, or parts of circles)
arcTo()	Creates an arc/curve between two tangents
isPointInPath()	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
font	Sets or returns the current font properties for text content
textAlign	Sets or returns the current alignment for text content
textBaseline	Sets or returns the current text baseline used when drawing text

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

Image Drawing

Method	Description
drawImage()	Draws an image, canvas, or video onto the canvas

Pixel Manipulation

Property	Description
width	Returns the width of an ImageData object
height	Returns the height of an ImageData object
data	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
globalAlpha	Sets or returns the current alpha or transparency value of the drawing
globalCompositeOperation	Sets or returns how a new image is drawn onto an existing image

Other

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

HTML Audio and Video DOM Reference

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

HTML Audio/Video Methods

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

HTML Audio/Video Properties

Property	Description
audioTracks	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

controller	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
currentTime	Sets or returns the current playback position in the audio/video (in seconds)
defaultMuted	Sets or returns whether the audio/video should be muted by default
defaultPlaybackRate	Sets or returns the default speed of the audio/video playback
duration	Returns the length of the current audio/video (in seconds)
ended	Returns whether the playback of the audio/video has ended or not
error	Returns a MediaError object representing the error state of the audio/video
loop	Sets or returns whether the audio/video should start over again when finished
mediaGroup	Sets or returns the group the audio/video belongs to (used to link multiple audio/video elements)
muted	Sets or returns whether the audio/video is muted or not
networkState	Returns the current network state of the audio/video
paused	Returns whether the audio/video is paused or not
playbackRate	Sets or returns the speed of the audio/video playback
played	Returns a TimeRanges object representing the played parts of the audio/video

preload	Sets or returns whether the audio/video should be loaded when the page loads
readyState	Returns the current ready state of the audio/video
seekable	Returns a TimeRanges object representing the seekable parts of the audio/video
seeking	Returns whether the user is currently seeking in the audio/video
src	Sets or returns the current source of the audio/video element
startDate	Returns a Date object representing the current time offset
textTracks	Returns a TextTrackList object representing the available text tracks
videoTracks	Returns a VideoTrackList object representing the available video tracks
volume	Sets or returns the volume of the audio/video

HTML Audio/Video Events

Event	Description
abort	Fires when the loading of an audio/video is aborted
canplay	Fires when the browser can start playing the audio/video
canplaythrough	Fires when the browser can play through the audio/video without stopping for buffering

durationchange	Fires when the duration of the audio/video is changed
emptied	Fires when the current playlist is empty
ended	Fires when the current playlist is ended
error	Fires when an error occurred during the loading of an audio/video
loadeddata	Fires when the browser has loaded the current frame of the audio/video
loadedmetadata	Fires when the browser has loaded meta data for the audio/video
loadstart	Fires when the browser starts looking for the audio/video
pause	Fires when the audio/video has been paused
play	Fires when the audio/video has been started or is no longer paused
playing	Fires when the audio/video is playing after having been paused or stopped for buffering
progress	Fires when the browser is downloading the audio/video
ratechange	Fires when the playing speed of the audio/video is changed
seeked	Fires when the user is finished moving/skipping to a new position in the audio/video
seeking	Fires when the user starts moving/skipping to a new position in the audio/video
stalled	Fires when the browser is trying to get media data, but data is not available
suspend	Fires when the browser is intentionally not getting media data
timeupdate	Fires when the current playback position has changed

volumechange	Fires when the volume has been changed
waiting	Fires when the video stops because it needs to buffer the next frame

HTML Character Sets

Common HTML Character Sets

The default character set in HTML5 is UTF-8.

For a closer look, visit our Complete HTML Character Set Reference.

Number	ASCII	ANSI	8859-1	UTF-8	Description
32					space
33	!	!	!	!	exclamation mark
34	"	"	"	"	quotation mark
35	#	#	#	#	number sign
36	$	$	$	$	dollar sign
37	%	%	%	%	percent sign
38	&	&	&	&	ampersand
39					apostrophe

40	(	(	(	(	left parenthesis
41	)	)	)	)	right parenthesis
42	*	*	*	*	asterisk
43	+	+	+	+	plus sign
44	,	,	,	,	comma
45	-	-	-	-	hyphen-minus
46	.	.	.	.	full stop
47	/	/	/	/	solidus
48	0	0	0	0	digit zero
49	1	1	1	1	digit one
50	2	2	2	2	digit two
51	3	3	3	3	digit three
52	4	4	4	4	digit four
53	5	5	5	5	digit five
54	6	6	6	6	digit six
55	7	7	7	7	digit seven
56	8	8	8	8	digit eight
57	9	9	9	9	digit nine
58	:	:	:	:	colon
59	;	;	;	;	semicolon
60	<	<	<	<	less-than sign
61	=	=	=	=	equals sign
62	>	>	>	>	greater-than sign

63	?	?	?	?	question mark
64	@	@	@	@	commercial at
65	A	A	A	A	Latin capital letter A
66	B	B	B	B	Latin capital letter B
67	C	C	C	C	Latin capital letter C
68	D	D	D	D	Latin capital letter D
69	E	E	E	E	Latin capital letter E
70	F	F	F	F	Latin capital letter F
71	G	G	G	G	Latin capital letter G
72	H	H	H	H	Latin capital letter H
73	I	I	I	I	Latin capital letter I
74	J	J	J	J	Latin capital letter J
75	K	K	K	K	Latin capital letter K
76	L	L	L	L	Latin capital letter L
77	M	M	M	M	Latin capital letter M
78	N	N	N	N	Latin capital letter N
79	O	O	O	O	Latin capital letter O
80	P	P	P	P	Latin capital letter P
81	Q	Q	Q	Q	Latin capital letter Q
82	R	R	R	R	Latin capital letter R
83	S	S	S	S	Latin capital letter S
84	T	T	T	T	Latin capital letter T
85	U	U	U	U	Latin capital letter U

86	V	V	V	V	Latin capital letter V
87	W	W	W	W	Latin capital letter W
88	X	X	X	X	Latin capital letter X
89	Y	Y	Y	Y	Latin capital letter Y
90	Z	Z	Z	Z	Latin capital letter Z
91	[	[	[	[	left square bracket
92	\	\	\	\	reverse solidus
93	]	]	]	]	right square bracket
94	^	^	^	^	circumflex accent
95	_	_	_	_	low line
96	`	`	`	`	grave accent
97	a	a	a	a	Latin small letter a
98	b	b	b	b	Latin small letter b
99	c	c	c	c	Latin small letter c
100	d	d	d	d	Latin small letter d
101	e	e	e	e	Latin small letter e
102	f	f	f	f	Latin small letter f
103	g	g	g	g	Latin small letter g
104	h	h	h	h	Latin small letter h
105	i	i	i	i	Latin small letter i
106	j	j	j	j	Latin small letter j
107	k	k	k	k	Latin small letter k
108	l	l	l	l	Latin small letter l

109	m	m	m	m	Latin small letter m
110	n	n	n	n	Latin small letter n
111	o	o	o	o	Latin small letter o
112	p	p	p	p	Latin small letter p
113	q	q	q	q	Latin small letter q
114	r	r	r	r	Latin small letter r
115	s	s	s	s	Latin small letter s
116	t	t	t	t	Latin small letter t
117	u	u	u	u	Latin small letter u
118	v	v	v	v	Latin small letter v
119	w	w	w	w	Latin small letter w
120	x	x	x	x	Latin small letter x
121	y	y	y	y	Latin small letter y
122	z	z	z	z	Latin small letter z
123	{	{	{	{	left curly bracket
124	|	|	|	|	vertical line
125	}	}	}	}	right curly bracket
126	~	~	~	~	tilde
127	DEL				
128		€			euro sign
129					NOT USED
130					single low-9 quotation mark
131		ƒ			Latin small letter f with hook

132		„			double low-9 quotation mark
133		…			horizontal ellipsis
134		†			dagger
135		‡			double dagger
136		ˆ			modifier letter circumflex accent
137		‰			per mille sign
138		Š			Latin capital letter S with caron
139		‹			single left-pointing angle quotation mark
140		Œ			Latin capital ligature OE
141					NOT USED
142		Ž			Latin capital letter Z with caron
143					NOT USED
144					NOT USED
145					left single quotation mark
146					right single quotation mark
147		"			left double quotation mark
148		"			right double quotation mark
149		•			bullet
150		–			en dash
151		—			em dash
152		˜			small tilde
153		™			trade mark sign

154		š			Latin small letter s with caron
155		›			single right-pointing angle quotation mark
156		œ			Latin small ligature oe
157					NOT USED
158		ž			Latin small letter z with caron
159		Ÿ			Latin capital letter Y with diaeresis
160					no-break space
161		¡	¡	¡	inverted exclamation mark
162		¢	¢	¢	cent sign
163		£	£	£	pound sign
164		¤	¤	¤	currency sign
165		¥	¥	¥	yen sign
166		¦	¦	¦	broken bar
167		§	§	§	section sign
168		¨	¨	¨	diaeresis
169		©	©	©	copyright sign
170		ª	ª	ª	feminine ordinal indicator
171		«	«	«	left-pointing double angle quotation mark
172		¬	¬	¬	not sign
173		-	-	-	soft hyphen
174		®	®	®	registered sign

175		¯	¯	¯	macron
176		°	°	°	degree sign
177		±	±	±	plus-minus sign
178		²	²	²	superscript two
179		³	³	³	superscript three
180		´	´	´	acute accent
181		µ	µ	µ	micro sign
182		¶	¶	¶	pilcrow sign
183		·	·	·	middle dot
184		¸	¸	¸	cedilla
185		¹	¹	¹	superscript one
186		º	º	º	masculine ordinal indicator
187		»	»	»	right-pointing double angle quotation mark
188		¼	¼	¼	vulgar fraction one quarter
189		½	½	½	vulgar fraction one half
190		¾	¾	¾	vulgar fraction three quarters
191		¿	¿	¿	inverted question mark
192		À	À	À	Latin capital letter A with grave
193		Á	Á	Á	Latin capital letter A with acute
194		Â	Â	Â	Latin capital letter A with circumflex
195		Ã	Ã	Ã	Latin capital letter A with tilde

196		Ä	Ä	Ä	Latin capital letter A with diaeresis
197		Å	Å	Å	Latin capital letter A with ring above
198		Æ	Æ	Æ	Latin capital letter AE
199		Ç	Ç	Ç	Latin capital letter C with cedilla
200		È	È	È	Latin capital letter E with grave
201		É	É	É	Latin capital letter E with acute
202		Ê	Ê	Ê	Latin capital letter E with circumflex
203		Ë	Ë	Ë	Latin capital letter E with diaeresis
204		Ì	Ì	Ì	Latin capital letter I with grave
205		Í	Í	Í	Latin capital letter I with acute
206		Î	Î	Î	Latin capital letter I with circumflex
207		Ï	Ï	Ï	Latin capital letter I with diaeresis
208		Ð	Ð	Ð	Latin capital letter Eth
209		Ñ	Ñ	Ñ	Latin capital letter N with tilde
210		Ò	Ò	Ò	Latin capital letter O with grave
211		Ó	Ó	Ó	Latin capital letter O with acute
212		Ô	Ô	Ô	Latin capital letter O with circumflex
213		Õ	Õ	Õ	Latin capital letter O with tilde

214		Ö	Ö	Ö	Latin capital letter O with diaeresis
215		×	×	×	multiplication sign
216		Ø	Ø	Ø	Latin capital letter O with stroke
217		Ù	Ù	Ù	Latin capital letter U with grave
218		Ú	Ú	Ú	Latin capital letter U with acute
219		Û	Û	Û	Latin capital letter U with circumflex
220		Ü	Ü	Ü	Latin capital letter U with diaeresis
221		Ý	Ý	Ý	Latin capital letter Y with acute
222		Þ	Þ	Þ	Latin capital letter Thorn
223		ß	ß	ß	Latin small letter sharp s
224		à	à	à	Latin small letter a with grave
225		á	á	á	Latin small letter a with acute
226		â	â	â	Latin small letter a with circumflex
227		ã	ã	ã	Latin small letter a with tilde
228		ä	ä	ä	Latin small letter a with diaeresis
229		å	å	å	Latin small letter a with ring above
230		æ	æ	æ	Latin small letter ae
231		ç	ç	ç	Latin small letter c with cedilla
232		è	è	è	Latin small letter e with grave

233		é	é	é	Latin small letter e with acute
234		ê	ê	ê	Latin small letter e with circumflex
235		ë	ë	ë	Latin small letter e with diaeresis
236		ì	ì	ì	Latin small letter i with grave
237		í	í	í	Latin small letter i with acute
238		î	î	î	Latin small letter i with circumflex
239		ï	ï	ï	Latin small letter i with diaeresis
240		ð	ð	ð	Latin small letter eth
241		ñ	ñ	ñ	Latin small letter n with tilde
242		ò	ò	ò	Latin small letter o with grave
243		ó	ó	ó	Latin small letter o with acute
244		ô	ô	ô	Latin small letter o with circumflex
245		õ	õ	õ	Latin small letter o with tilde
246		ö	ö	ö	Latin small letter o with diaeresis
247		÷	÷	÷	division sign
248		ø	ø	ø	Latin small letter o with stroke
249		ù	ù	ù	Latin small letter u with grave
250		ú	ú	ú	Latin small letter u with acute
251		û	û	û	Latin small letter with circumflex

252		ü	ü	ü	Latin small letter u with diaeresis
253		ý	ý	ý	Latin small letter y with acute
254		þ	þ	þ	Latin small letter thorn
255		ÿ	ÿ	ÿ	Latin small letter y with diaeresis

HTML <!DOCTYPE>

The HTML Document Type

All HTML documents must start with a `<!DOCTYPE>` declaration.

The declaration is not an HTML tag. It is an "information" to the browser about what document type to expect.

In HTML5, the `<!DOCTYPE>` declaration is simple:

```
<!DOCTYPE html>
```

In older documents (HTML 4 or XHTML), the declaration is more complicated because the declaration must refer to a DTD (Document Type Definition).

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN" "http://www.w3.org/TR/html4/
loose.dtd">
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
```

You can read more about document types in the <! DOCTYPE> reference.

Valid HTML Elements in Different DOCTYPES

Tag	HTML 5	HTML 4	XHTML
<a>	Yes	Yes	Yes
<abbr>	Yes	Yes	Yes
<acronym>	No	Yes	Yes
<address>	Yes	Yes	Yes
<applet>	No	Yes	No
<area>	Yes	Yes	No
<article>	Yes	No	No
<aside>	Yes	No	No
<audio>	Yes	No	No
<b>	Yes	Yes	Yes
<base>	Yes	Yes	Yes
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