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# HTML Tags Ordered Alphabetically

|  |  |
| --- | --- |
| Tag | Description |
| [<!--...-->](https://www.w3schools.com/tags/tag_comment.asp) | Defines a comment |
| [<!DOCTYPE>](https://www.w3schools.com/tags/tag_doctype.asp) | Defines the document type |
| [<a>](https://www.w3schools.com/tags/tag_a.asp) | Defines a hyperlink |
| [<abbr>](https://www.w3schools.com/tags/tag_abbr.asp) | Defines an abbreviation or an acronym |
| [<acronym>](https://www.w3schools.com/tags/tag_acronym.asp) | Not supported in HTML5. Use <abbr> instead. Defines an acronym |
| [<address>](https://www.w3schools.com/tags/tag_address.asp) | Defines contact information for the author/owner of a document |
| [<applet>](https://www.w3schools.com/tags/tag_applet.asp) | Not supported in HTML5. Use <embed> or <object> instead. Defines an embedded applet |
| [<area>](https://www.w3schools.com/tags/tag_area.asp) | Defines an area inside an image-map |
| [<article>](https://www.w3schools.com/tags/tag_article.asp) | Defines an article |
| [<aside>](https://www.w3schools.com/tags/tag_aside.asp) | Defines content aside from the page content |
| [<audio>](https://www.w3schools.com/tags/tag_audio.asp) | Defines sound content |
| [<b>](https://www.w3schools.com/tags/tag_b.asp) | Defines bold text |
| [<base>](https://www.w3schools.com/tags/tag_base.asp) | Specifies the base URL/target for all relative URLs in a document |
| [<basefont>](https://www.w3schools.com/tags/tag_basefont.asp) | Not supported in HTML5. Use CSS instead. Specifies a default color, size, and font for all text in a document |
| [<bdi>](https://www.w3schools.com/tags/tag_bdi.asp) | Isolates a part of text that might be formatted in a different direction from other text outside it |
| [<bdo>](https://www.w3schools.com/tags/tag_bdo.asp) | Overrides the current text direction |
| [<big>](https://www.w3schools.com/tags/tag_big.asp) | Not supported in HTML5. Use CSS instead. Defines big text |
| [<blockquote>](https://www.w3schools.com/tags/tag_blockquote.asp) | Defines a section that is quoted from another source |
| [<body>](https://www.w3schools.com/tags/tag_body.asp) | Defines the document's body |
| [<br>](https://www.w3schools.com/tags/tag_br.asp) | Defines a single line break |
| [<button>](https://www.w3schools.com/tags/tag_button.asp) | Defines a clickable button |
| [<canvas>](https://www.w3schools.com/tags/tag_canvas.asp) | Used to draw graphics, on the fly, via scripting (usually JavaScript) |
| [<caption>](https://www.w3schools.com/tags/tag_caption.asp) | Defines a table caption |
| [<center>](https://www.w3schools.com/tags/tag_center.asp) | Not supported in HTML5. Use CSS instead. Defines centered text |
| [<cite>](https://www.w3schools.com/tags/tag_cite.asp) | Defines the title of a work |
| [<code>](https://www.w3schools.com/tags/tag_code.asp) | Defines a piece of computer code |
| [<col>](https://www.w3schools.com/tags/tag_col.asp) | Specifies column properties for each column within a <colgroup> element |
| [<colgroup>](https://www.w3schools.com/tags/tag_colgroup.asp) | Specifies a group of one or more columns in a table for formatting |
| [<datalist>](https://www.w3schools.com/tags/tag_datalist.asp) | Specifies a list of pre-defined options for input controls |
| [<dd>](https://www.w3schools.com/tags/tag_dd.asp) | Defines a description/value of a term in a description list |
| [<del>](https://www.w3schools.com/tags/tag_del.asp) | Defines text that has been deleted from a document |
| [<details>](https://www.w3schools.com/tags/tag_details.asp) | Defines additional details that the user can view or hide |
| [<dfn>](https://www.w3schools.com/tags/tag_dfn.asp) | Represents the defining instance of a term |
| [<dialog>](https://www.w3schools.com/tags/tag_dialog.asp) | Defines a dialog box or window |
| [<dir>](https://www.w3schools.com/tags/tag_dir.asp) | Not supported in HTML5. Use <ul> instead. Defines a directory list |
| [<div>](https://www.w3schools.com/tags/tag_div.asp) | Defines a section in a document |
| [<dl>](https://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](https://www.w3schools.com/tags/tag_dt.asp) | Defines a term/name in a description list |
| [<em>](https://www.w3schools.com/tags/tag_em.asp) | Defines emphasized text |
| [<embed>](https://www.w3schools.com/tags/tag_embed.asp) | Defines a container for an external (non-HTML) application |
| [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp) | Groups related elements in a form |
| [<figcaption>](https://www.w3schools.com/tags/tag_figcaption.asp) | Defines a caption for a <figure> element |
| [<figure>](https://www.w3schools.com/tags/tag_figure.asp) | Specifies self-contained content |
| [<font>](https://www.w3schools.com/tags/tag_font.asp) | Not supported in HTML5. Use CSS instead. Defines font, color, and size for text |
| [<footer>](https://www.w3schools.com/tags/tag_footer.asp) | Defines a footer for a document or section |
| [<form>](https://www.w3schools.com/tags/tag_form.asp) | Defines an HTML form for user input |
| [<frame>](https://www.w3schools.com/tags/tag_frame.asp) | Not supported in HTML5. Defines a window (a frame) in a frameset |
| [<frameset>](https://www.w3schools.com/tags/tag_frameset.asp) | Not supported in HTML5. Defines a set of frames |
| [<h1> to <h6>](https://www.w3schools.com/tags/tag_hn.asp) | Defines HTML headings |
| [<head>](https://www.w3schools.com/tags/tag_head.asp) | Defines information about the document |
| [<header>](https://www.w3schools.com/tags/tag_header.asp) | Defines a header for a document or section |
| [<hr>](https://www.w3schools.com/tags/tag_hr.asp) | Defines a thematic change in the content |
| [<html>](https://www.w3schools.com/tags/tag_html.asp) | Defines the root of an HTML document |
| [<i>](https://www.w3schools.com/tags/tag_i.asp) | Defines a part of text in an alternate voice or mood |
| [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp) | Defines an inline frame |
| [<img>](https://www.w3schools.com/tags/tag_img.asp) | Defines an image |
| [<input>](https://www.w3schools.com/tags/tag_input.asp) | Defines an input control |
| [<ins>](https://www.w3schools.com/tags/tag_ins.asp) | Defines a text that has been inserted into a document |
| [<kbd>](https://www.w3schools.com/tags/tag_kbd.asp) | Defines keyboard input |
| [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp) | Defines a key-pair generator field (for forms) |
| [<label>](https://www.w3schools.com/tags/tag_label.asp) | Defines a label for an <input> element |
| [<legend>](https://www.w3schools.com/tags/tag_legend.asp) | Defines a caption for a <fieldset> element |
| [<li>](https://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<link>](https://www.w3schools.com/tags/tag_link.asp) | Defines the relationship between a document and an external resource (most used to link to style sheets) |
| [<main>](https://www.w3schools.com/tags/tag_main.asp) | Specifies the main content of a document |
| [<map>](https://www.w3schools.com/tags/tag_map.asp) | Defines a client-side image-map |
| [<mark>](https://www.w3schools.com/tags/tag_mark.asp) | Defines marked/highlighted text |
| [<menu>](https://www.w3schools.com/tags/tag_menu.asp) | Defines a list/menu of commands |
| [<menuitem>](https://www.w3schools.com/tags/tag_menuitem.asp) | Defines a command/menu item that the user can invoke from a popup menu |
| [<meta>](https://www.w3schools.com/tags/tag_meta.asp) | Defines metadata about an HTML document |
| [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Defines a scalar measurement within a known range (a gauge) |
| [<nav>](https://www.w3schools.com/tags/tag_nav.asp) | Defines navigation links |
| [<noframes>](https://www.w3schools.com/tags/tag_noframes.asp) | Not supported in HTML5. Defines an alternate content for users that do not support frames |
| [<noscript>](https://www.w3schools.com/tags/tag_noscript.asp) | Defines an alternate content for users that do not support client-side scripts |
| [<object>](https://www.w3schools.com/tags/tag_object.asp) | Defines an embedded object |
| [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<optgroup>](https://www.w3schools.com/tags/tag_optgroup.asp) | Defines a group of related options in a drop-down list |
| [<option>](https://www.w3schools.com/tags/tag_option.asp) | Defines an option in a drop-down list |
| [<output>](https://www.w3schools.com/tags/tag_output.asp) | Defines the result of a calculation |
| [<p>](https://www.w3schools.com/tags/tag_p.asp) | Defines a paragraph |
| [<param>](https://www.w3schools.com/tags/tag_param.asp) | Defines a parameter for an object |
| [<picture>](https://www.w3schools.com/tags/tag_picture.asp) | Defines a container for multiple image resources |
| [<pre>](https://www.w3schools.com/tags/tag_pre.asp) | Defines preformatted text |
| [<progress>](https://www.w3schools.com/tags/tag_progress.asp) | Represents the progress of a task |
| [<q>](https://www.w3schools.com/tags/tag_q.asp) | Defines a short quotation |
| [<rp>](https://www.w3schools.com/tags/tag_rp.asp) | Defines what to show in browsers that do not support ruby annotations |
| [<rt>](https://www.w3schools.com/tags/tag_rt.asp) | Defines an explanation/pronunciation of characters (for East Asian typography) |
| [<ruby>](https://www.w3schools.com/tags/tag_ruby.asp) | Defines a ruby annotation (for East Asian typography) |
| [<s>](https://www.w3schools.com/tags/tag_s.asp) | Defines text that is no longer correct |
| [<samp>](https://www.w3schools.com/tags/tag_samp.asp) | Defines sample output from a computer program |
| [<script>](https://www.w3schools.com/tags/tag_script.asp) | Defines a client-side script |
| [<section>](https://www.w3schools.com/tags/tag_section.asp) | Defines a section in a document |
| [<select>](https://www.w3schools.com/tags/tag_select.asp) | Defines a drop-down list |
| [<small>](https://www.w3schools.com/tags/tag_small.asp) | Defines smaller text |
| [<source>](https://www.w3schools.com/tags/tag_source.asp) | Defines multiple media resources for media elements (<video> and <audio>) |
| [<span>](https://www.w3schools.com/tags/tag_span.asp) | Defines a section in a document |
| [<strike>](https://www.w3schools.com/tags/tag_strike.asp) | Not supported in HTML5. Use <del> or <s> instead. Defines strikethrough text |
| [<strong>](https://www.w3schools.com/tags/tag_strong.asp) | Defines important text |
| [<style>](https://www.w3schools.com/tags/tag_style.asp) | Defines style information for a document |
| [<sub>](https://www.w3schools.com/tags/tag_sub.asp) | Defines subscripted text |
| [<summary>](https://www.w3schools.com/tags/tag_summary.asp) | Defines a visible heading for a <details> element |
| [<sup>](https://www.w3schools.com/tags/tag_sup.asp) | Defines superscripted text |
| [<table>](https://www.w3schools.com/tags/tag_table.asp) | Defines a table |
| [<tbody>](https://www.w3schools.com/tags/tag_tbody.asp) | Groups the body content in a table |
| [<td>](https://www.w3schools.com/tags/tag_td.asp) | Defines a cell in a table |
| [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Defines a multiline input control (text area) |
| [<tfoot>](https://www.w3schools.com/tags/tag_tfoot.asp) | Groups the footer content in a table |
| [<th>](https://www.w3schools.com/tags/tag_th.asp) | Defines a header cell in a table |
| [<thead>](https://www.w3schools.com/tags/tag_thead.asp) | Groups the header content in a table |
| [<time>](https://www.w3schools.com/tags/tag_time.asp) | Defines a date/time |
| [<title>](https://www.w3schools.com/tags/tag_title.asp) | Defines a title for the document |
| [<tr>](https://www.w3schools.com/tags/tag_tr.asp) | Defines a row in a table |
| [<track>](https://www.w3schools.com/tags/tag_track.asp) | Defines text tracks for media elements (<video> and <audio>) |
| [<tt>](https://www.w3schools.com/tags/tag_tt.asp) | Not supported in HTML5. Use CSS instead. Defines teletype text |
| [<u>](https://www.w3schools.com/tags/tag_u.asp) | Defines text that should be stylistically different from normal text |
| [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<var>](https://www.w3schools.com/tags/tag_var.asp) | Defines a variable |
| [<video>](https://www.w3schools.com/tags/tag_video.asp) | Defines a video or movie |
| [<wbr>](https://www.w3schools.com/tags/tag_wbr.asp) | Defines a possible line-break |

# HTML Tags Ordered by Category

## Basic HTML

|  |  |
| --- | --- |
| Tag | Description |
| [<!DOCTYPE>](https://www.w3schools.com/tags/tag_doctype.asp) | Defines the document type |
| [<html>](https://www.w3schools.com/tags/tag_html.asp) | Defines an HTML document |
| [<head>](https://www.w3schools.com/tags/tag_head.asp) | Defines information about the document |
| [<title>](https://www.w3schools.com/tags/tag_title.asp) | Defines a title for the document |
| [<body>](https://www.w3schools.com/tags/tag_body.asp) | Defines the document's body |
| [<h1> to <h6>](https://www.w3schools.com/tags/tag_hn.asp) | Defines HTML headings |
| [<p>](https://www.w3schools.com/tags/tag_p.asp) | Defines a paragraph |
| [<br>](https://www.w3schools.com/tags/tag_br.asp) | Inserts a single line break |
| [<hr>](https://www.w3schools.com/tags/tag_hr.asp) | Defines a thematic change in the content |
| [<!--...-->](https://www.w3schools.com/tags/tag_comment.asp) | Defines a comment |

## Formatting

|  |  |
| --- | --- |
| Tag | Description |
| [<acronym>](https://www.w3schools.com/tags/tag_acronym.asp) | Not supported in HTML5. Use <abbr> instead. Defines an acronym |
| [<abbr>](https://www.w3schools.com/tags/tag_abbr.asp) | Defines an abbreviation or an acronym |
| [<address>](https://www.w3schools.com/tags/tag_address.asp) | Defines contact information for the author/owner of a document/article |
| [<b>](https://www.w3schools.com/tags/tag_b.asp) | Defines bold text |
| [<bdi>](https://www.w3schools.com/tags/tag_bdi.asp) | Isolates a part of text that might be formatted in a different direction from other text outside it |
| [<bdo>](https://www.w3schools.com/tags/tag_bdo.asp) | Overrides the current text direction |
| [<big>](https://www.w3schools.com/tags/tag_big.asp) | Not supported in HTML5. Use CSS instead. Defines big text |
| [<blockquote>](https://www.w3schools.com/tags/tag_blockquote.asp) | Defines a section that is quoted from another source |
| [<center>](https://www.w3schools.com/tags/tag_center.asp) | Not supported in HTML5. Use CSS instead. Defines centered text |
| [<cite>](https://www.w3schools.com/tags/tag_cite.asp) | Defines the title of a work |
| [<code>](https://www.w3schools.com/tags/tag_code.asp) | Defines a piece of computer code |
| [<del>](https://www.w3schools.com/tags/tag_del.asp) | Defines text that has been deleted from a document |
| [<dfn>](https://www.w3schools.com/tags/tag_dfn.asp) | Represents the defining instance of a term |
| [<em>](https://www.w3schools.com/tags/tag_em.asp) | Defines emphasized text |
| [<font>](https://www.w3schools.com/tags/tag_font.asp) | Not supported in HTML5. Use CSS instead. Defines font, color, and size for text |
| [<i>](https://www.w3schools.com/tags/tag_i.asp) | Defines a part of text in an alternate voice or mood |
| [<ins>](https://www.w3schools.com/tags/tag_ins.asp) | Defines a text that has been inserted into a document |
| [<kbd>](https://www.w3schools.com/tags/tag_kbd.asp) | Defines keyboard input |
| [<mark>](https://www.w3schools.com/tags/tag_mark.asp) | Defines marked/highlighted text |
| [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Defines a scalar measurement within a known range (a gauge) |
| [<pre>](https://www.w3schools.com/tags/tag_pre.asp) | Defines preformatted text |
| [<progress>](https://www.w3schools.com/tags/tag_progress.asp) | Represents the progress of a task |
| [<q>](https://www.w3schools.com/tags/tag_q.asp) | Defines a short quotation |
| [<rp>](https://www.w3schools.com/tags/tag_rp.asp) | Defines what to show in browsers that do not support ruby annotations |
| [<rt>](https://www.w3schools.com/tags/tag_rt.asp) | Defines an explanation/pronunciation of characters (for East Asian typography) |
| [<ruby>](https://www.w3schools.com/tags/tag_ruby.asp) | Defines a ruby annotation (for East Asian typography) |
| [<s>](https://www.w3schools.com/tags/tag_s.asp) | Defines text that is no longer correct |
| [<samp>](https://www.w3schools.com/tags/tag_samp.asp) | Defines sample output from a computer program |
| [<small>](https://www.w3schools.com/tags/tag_small.asp) | Defines smaller text |
| [<strike>](https://www.w3schools.com/tags/tag_strike.asp) | Not supported in HTML5. Use <del> or <s> instead. Defines strikethrough text |
| [<strong>](https://www.w3schools.com/tags/tag_strong.asp) | Defines important text |
| [<sub>](https://www.w3schools.com/tags/tag_sub.asp) | Defines subscripted text |
| [<sup>](https://www.w3schools.com/tags/tag_sup.asp) | Defines superscripted text |
| [<time>](https://www.w3schools.com/tags/tag_time.asp) | Defines a date/time |
| [<tt>](https://www.w3schools.com/tags/tag_tt.asp) | Not supported in HTML5. Use CSS instead. Defines teletype text |
| [<u>](https://www.w3schools.com/tags/tag_u.asp) | Defines text that should be stylistically different from normal text |
| [<var>](https://www.w3schools.com/tags/tag_var.asp) | Defines a variable |
| [<wbr>](https://www.w3schools.com/tags/tag_wbr.asp) | Defines a possible line-break |

## Forms and Input

|  |  |
| --- | --- |
| Tag | Description |
| [<form>](https://www.w3schools.com/tags/tag_form.asp) | Defines an HTML form for user input |
| [<input>](https://www.w3schools.com/tags/tag_input.asp) | Defines an input control |
| [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Defines a multiline input control (text area) |
| [<button>](https://www.w3schools.com/tags/tag_button.asp) | Defines a clickable button |
| [<select>](https://www.w3schools.com/tags/tag_select.asp) | Defines a drop-down list |
| [<optgroup>](https://www.w3schools.com/tags/tag_optgroup.asp) | Defines a group of related options in a drop-down list |
| [<option>](https://www.w3schools.com/tags/tag_option.asp) | Defines an option in a drop-down list |
| [<label>](https://www.w3schools.com/tags/tag_label.asp) | Defines a label for an <input> element |
| [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp) | Groups related elements in a form |
| [<legend>](https://www.w3schools.com/tags/tag_legend.asp) | Defines a caption for a <fieldset> element |
| [<datalist>](https://www.w3schools.com/tags/tag_datalist.asp) | Specifies a list of pre-defined options for input controls |
| [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp) | Defines a key-pair generator field (for forms) |
| [<output>](https://www.w3schools.com/tags/tag_output.asp) | Defines the result of a calculation |

## Frames

|  |  |
| --- | --- |
| Tag | Description |
| [<frame>](https://www.w3schools.com/tags/tag_frame.asp) | Not supported in HTML5. Defines a window (a frame) in a frameset |
| [<frameset>](https://www.w3schools.com/tags/tag_frameset.asp) | Not supported in HTML5. Defines a set of frames |
| [<noframes>](https://www.w3schools.com/tags/tag_noframes.asp) | Not supported in HTML5. Defines an alternate content for users that do not support frames |
| [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp) | Defines an inline frame |

## Images

|  |  |
| --- | --- |
| Tag | Description |
| [<img>](https://www.w3schools.com/tags/tag_img.asp) | Defines an image |
| [<map>](https://www.w3schools.com/tags/tag_map.asp) | Defines a client-side image-map |
| [<area>](https://www.w3schools.com/tags/tag_area.asp) | Defines an area inside an image-map |
| [<canvas>](https://www.w3schools.com/tags/tag_canvas.asp) | Used to draw graphics, on the fly, via scripting (usually JavaScript) |
| [<figcaption>](https://www.w3schools.com/tags/tag_figcaption.asp) | Defines a caption for a <figure> element |
| [<figure>](https://www.w3schools.com/tags/tag_figure.asp) | Specifies self-contained content |
| [<picture>](https://www.w3schools.com/tags/tag_picture.asp) | Defines a container for multiple image resources |

## Audio / Video

|  |  |
| --- | --- |
| Tag | Description |
| [<audio>](https://www.w3schools.com/tags/tag_audio.asp) | Defines sound content |
| [<source>](https://www.w3schools.com/tags/tag_source.asp) | Defines multiple media resources for media elements (<video>, <audio> and <picture>) |
| [<track>](https://www.w3schools.com/tags/tag_track.asp) | Defines text tracks for media elements (<video> and <audio>) |
| [<video>](https://www.w3schools.com/tags/tag_video.asp) | Defines a video or movie |

## Links

|  |  |
| --- | --- |
| Tag | Description |
| [<a>](https://www.w3schools.com/tags/tag_a.asp) | Defines a hyperlink |
| [<link>](https://www.w3schools.com/tags/tag_link.asp) | Defines the relationship between a document and an external resource (most used to link to style sheets) |
| [<nav>](https://www.w3schools.com/tags/tag_nav.asp) | Defines navigation links |

## Lists

|  |  |
| --- | --- |
| Tag | Description |
| [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<li>](https://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<dir>](https://www.w3schools.com/tags/tag_dir.asp) | Not supported in HTML5. Use <ul> instead. Defines a directory list |
| [<dl>](https://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](https://www.w3schools.com/tags/tag_dt.asp) | Defines a term/name in a description list |
| [<dd>](https://www.w3schools.com/tags/tag_dd.asp) | Defines a description of a term/name in a description list |
| [<menu>](https://www.w3schools.com/tags/tag_menu.asp) | Defines a list/menu of commands |
| [<menuitem>](https://www.w3schools.com/tags/tag_menuitem.asp) | Defines a command/menu item that the user can invoke from a popup menu |

## Tables

|  |  |
| --- | --- |
| Tag | Description |
| [<table>](https://www.w3schools.com/tags/tag_table.asp) | Defines a table |
| [<caption>](https://www.w3schools.com/tags/tag_caption.asp) | Defines a table caption |
| [<th>](https://www.w3schools.com/tags/tag_th.asp) | Defines a header cell in a table |
| [<tr>](https://www.w3schools.com/tags/tag_tr.asp) | Defines a row in a table |
| [<td>](https://www.w3schools.com/tags/tag_td.asp) | Defines a cell in a table |
| [<thead>](https://www.w3schools.com/tags/tag_thead.asp) | Groups the header content in a table |
| [<tbody>](https://www.w3schools.com/tags/tag_tbody.asp) | Groups the body content in a table |
| [<tfoot>](https://www.w3schools.com/tags/tag_tfoot.asp) | Groups the footer content in a table |
| [<col>](https://www.w3schools.com/tags/tag_col.asp) | Specifies column properties for each column within a <colgroup> element |
| [<colgroup>](https://www.w3schools.com/tags/tag_colgroup.asp) | Specifies a group of one or more columns in a table for formatting |

## Styles and Semantics

|  |  |
| --- | --- |
| Tag | Description |
| [<style>](https://www.w3schools.com/tags/tag_style.asp) | Defines style information for a document |
| [<div>](https://www.w3schools.com/tags/tag_div.asp) | Defines a section in a document |
| [<span>](https://www.w3schools.com/tags/tag_span.asp) | Defines a section in a document |
| [<header>](https://www.w3schools.com/tags/tag_header.asp) | Defines a header for a document or section |
| [<footer>](https://www.w3schools.com/tags/tag_footer.asp) | Defines a footer for a document or section |
| [<main>](https://www.w3schools.com/tags/tag_main.asp) | Specifies the main content of a document |
| [<section>](https://www.w3schools.com/tags/tag_section.asp) | Defines a section in a document |
| [<article>](https://www.w3schools.com/tags/tag_article.asp) | Defines an article |
| [<aside>](https://www.w3schools.com/tags/tag_aside.asp) | Defines content aside from the page content |
| [<details>](https://www.w3schools.com/tags/tag_details.asp) | Defines additional details that the user can view or hide |
| [<dialog>](https://www.w3schools.com/tags/tag_dialog.asp) | Defines a dialog box or window |
| [<summary>](https://www.w3schools.com/tags/tag_summary.asp) | Defines a visible heading for a <details> element |
| [<data>](https://www.w3schools.com/tags/tag_data.asp) | Links the given content with a machine-readable translation |

## Meta Info

|  |  |
| --- | --- |
| Tag | Description |
| [<head>](https://www.w3schools.com/tags/tag_head.asp) | Defines information about the document |
| [<meta>](https://www.w3schools.com/tags/tag_meta.asp) | Defines metadata about an HTML document |
| [<base>](https://www.w3schools.com/tags/tag_base.asp) | Specifies the base URL/target for all relative URLs in a document |
| [<basefont>](https://www.w3schools.com/tags/tag_basefont.asp) | Not supported in HTML5. Use CSS instead. Specifies a default color, size, and font for all text in a document |

## Programming

|  |  |
| --- | --- |
| Tag | Description |
| [<script>](https://www.w3schools.com/tags/tag_script.asp) | Defines a client-side script |
| [<noscript>](https://www.w3schools.com/tags/tag_noscript.asp) | Defines an alternate content for users that do not support client-side scripts |
| [<applet>](https://www.w3schools.com/tags/tag_applet.asp) | Not supported in HTML5. Use <embed> or <object> instead. Defines an embedded applet |
| [<embed>](https://www.w3schools.com/tags/tag_embed.asp) | Defines a container for an external (non-HTML) application |
| [<object>](https://www.w3schools.com/tags/tag_object.asp) | Defines an embedded object |
| [<param>](https://www.w3schools.com/tags/tag_param.asp) | Defines a parameter for an object |

# All HTML Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Belongs to | Description |
| [accept](https://www.w3schools.com/tags/att_accept.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp) | Specifies the types of files that the server accepts (only for type="file") |
| [accept-charset](https://www.w3schools.com/tags/att_accept-charset.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | Specifies the character encodings that are to be used for the form submission |
| [accesskey](https://www.w3schools.com/tags/att_accesskey.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies a shortcut key to activate/focus an element |
| [action](https://www.w3schools.com/tags/att_action.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | 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](https://www.w3schools.com/tags/att_alt.asp) | [<area>](https://www.w3schools.com/tags/tag_area.asp), [<img>](https://www.w3schools.com/tags/tag_img.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp) | Specifies an alternate text when the original element fails to display |
| [async](https://www.w3schools.com/tags/att_async.asp) | [<script>](https://www.w3schools.com/tags/tag_script.asp) | Specifies that the script is executed asynchronously (only for external scripts) |
| [autocomplete](https://www.w3schools.com/tags/att_autocomplete.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp) | Specifies whether the <form> or the <input> element should have autocomplete enabled |
| [autofocus](https://www.w3schools.com/tags/att_autofocus.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp),  [<select>](https://www.w3schools.com/tags/tag_select.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies that the element should automatically get focus when the page loads |
| [autoplay](https://www.w3schools.com/tags/att_autoplay.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | 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 |
| [challenge](https://www.w3schools.com/tags/att_challenge.asp) | [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp) | Specifies that the value of the <keygen> element should be challenged when submitted |
| [charset](https://www.w3schools.com/tags/att_charset.asp) | [<meta>](https://www.w3schools.com/tags/tag_meta.asp), [<script>](https://www.w3schools.com/tags/tag_script.asp) | Specifies the character encoding |
| [checked](https://www.w3schools.com/tags/att_checked.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp) | Specifies that an <input> element should be pre-selected when the page loads (for type="checkbox" or type="radio") |
| [cite](https://www.w3schools.com/tags/att_cite.asp) | <blockquote>, [<del>](https://www.w3schools.com/tags/tag_del.asp), [<ins>](https://www.w3schools.com/tags/tag_ins.asp), <q> | Specifies a URL which explains the quote/deleted/inserted text |
| [class](https://www.w3schools.com/tags/att_class.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | 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](https://www.w3schools.com/tags/att_cols.asp) | [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies the visible width of a text area |
| [colspan](https://www.w3schools.com/tags/att_colspan.asp) | [<td>](https://www.w3schools.com/tags/tag_td.asp), [<th>](https://www.w3schools.com/tags/tag_th.asp) | Specifies the number of columns a table cell should span |
| [content](https://www.w3schools.com/tags/att_content.asp) | [<meta>](https://www.w3schools.com/tags/tag_meta.asp) | Gives the value associated with the http-equiv or name attribute |
| [contenteditable](https://www.w3schools.com/tags/att_contenteditable.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies whether the content of an element is editable or not |
| [contextmenu](https://www.w3schools.com/tags/att_contextmenu.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies a context menu for an element. The context menu appears when a user right-clicks on the element |
| [controls](https://www.w3schools.com/tags/att_controls.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Specifies that audio/video controls should be displayed (such as a play/pause button etc) |
| [coords](https://www.w3schools.com/tags/att_coords.asp) | [<area>](https://www.w3schools.com/tags/tag_area.asp) | Specifies the coordinates of the area |
| [data](https://www.w3schools.com/tags/att_data.asp) | [<object>](https://www.w3schools.com/tags/tag_object.asp) | Specifies the URL of the resource to be used by the object |
| [data-\*](https://www.w3schools.com/tags/att_data-.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Used to store custom data private to the page or application |
| [datetime](https://www.w3schools.com/tags/att_datetime.asp) | [<del>](https://www.w3schools.com/tags/tag_del.asp), [<ins>](https://www.w3schools.com/tags/tag_ins.asp), [<time>](https://www.w3schools.com/tags/tag_time.asp) | Specifies the date and time |
| [default](https://www.w3schools.com/tags/att_default.asp) | [<track>](https://www.w3schools.com/tags/tag_track.asp) | Specifies that the track is to be enabled if the user's preferences do not indicate that another track would be more appropriate |
| [defer](https://www.w3schools.com/tags/att_defer.asp) | [<script>](https://www.w3schools.com/tags/tag_script.asp) | Specifies that the script is executed when the page has finished parsing (only for external scripts) |
| [dir](https://www.w3schools.com/tags/att_dir.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies the text direction for the content in an element |
| [dirname](https://www.w3schools.com/tags/att_dirname.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies that the text direction will be submitted |
| [disabled](https://www.w3schools.com/tags/att_disabled.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp), [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp), <optgroup>, [<option>](https://www.w3schools.com/tags/tag_option.asp), [<select>](https://www.w3schools.com/tags/tag_select.asp),[<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies that the specified element/group of elements should be disabled |
| [download](https://www.w3schools.com/tags/att_download.asp) | [<a>](https://www.w3schools.com/tags/tag_a.asp), [<area>](https://www.w3schools.com/tags/tag_area.asp) | Specifies that the target will be downloaded when a user clicks on the hyperlink |
| [draggable](https://www.w3schools.com/tags/att_draggable.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies whether an element is draggable or not |
| [dropzone](https://www.w3schools.com/tags/att_dropzone.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies whether the dragged data is copied, moved, or linked, when dropped |
| [enctype](https://www.w3schools.com/tags/att_enctype.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | Specifies how the form-data should be encoded when submitting it to the server (only for method="post") |
| [for](https://www.w3schools.com/tags/att_for.asp) | <label>, [<output>](https://www.w3schools.com/tags/tag_output.asp) | Specifies which form element(s) a label/calculation is bound to |
| [form](https://www.w3schools.com/tags/att_form.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp), [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp), <label>, [<meter>](https://www.w3schools.com/tags/tag_meter.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp), [<output>](https://www.w3schools.com/tags/tag_output.asp), [<select>](https://www.w3schools.com/tags/tag_select.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies the name of the form the element belongs to |
| [formaction](https://www.w3schools.com/tags/att_formaction.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp) | Specifies where to send the form-data when a form is submitted. Only for type="submit" |
| [headers](https://www.w3schools.com/tags/att_headers.asp) | [<td>](https://www.w3schools.com/tags/tag_td.asp), [<th>](https://www.w3schools.com/tags/tag_th.asp) | Specifies one or more headers cells a cell is related to |
| [height](https://www.w3schools.com/tags/att_height.asp) | <canvas>, [<embed>](https://www.w3schools.com/tags/tag_embed.asp), [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp), [<img>](https://www.w3schools.com/tags/tag_img.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Specifies the height of the element |
| [hidden](https://www.w3schools.com/tags/att_hidden.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies that an element is not yet, or is no longer, relevant |
| [high](https://www.w3schools.com/tags/att_high.asp) | [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Specifies the range that is considered to be a high value |
| [href](https://www.w3schools.com/tags/att_href.asp) | [<a>](https://www.w3schools.com/tags/tag_a.asp), [<area>](https://www.w3schools.com/tags/tag_area.asp), [<base>](https://www.w3schools.com/tags/tag_base.asp), [<link>](https://www.w3schools.com/tags/tag_link.asp) | Specifies the URL of the page the link goes to |
| [hreflang](https://www.w3schools.com/tags/att_hreflang.asp) | [<a>](https://www.w3schools.com/tags/tag_a.asp), [<area>](https://www.w3schools.com/tags/tag_area.asp), [<link>](https://www.w3schools.com/tags/tag_link.asp) | Specifies the language of the linked document |
| [http-equiv](https://www.w3schools.com/tags/att_http-equiv.asp) | [<meta>](https://www.w3schools.com/tags/tag_meta.asp) | Provides an HTTP header for the information/value of the content attribute |
| [id](https://www.w3schools.com/tags/att_id.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies a unique id for an element |
| [ismap](https://www.w3schools.com/tags/att_ismap.asp) | [<img>](https://www.w3schools.com/tags/tag_img.asp) | Specifies an image as a server-side image-map |
| [keytype](https://www.w3schools.com/tags/att_keytype.asp) | [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp) | Specifies the security algorithm of the key |
| [kind](https://www.w3schools.com/tags/att_kind.asp) | [<track>](https://www.w3schools.com/tags/tag_track.asp) | Specifies the kind of text track |
| [label](https://www.w3schools.com/tags/att_label.asp) | [<track>](https://www.w3schools.com/tags/tag_track.asp), [<option>](https://www.w3schools.com/tags/tag_option.asp), [<optgroup>](https://www.w3schools.com/tags/tag_optgroup.asp) | Specifies the title of the text track |
| [lang](https://www.w3schools.com/tags/att_lang.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies the language of the element's content |
| [list](https://www.w3schools.com/tags/att_list.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp) | Refers to a <datalist> element that contains pre-defined options for an <input> element |
| [loop](https://www.w3schools.com/tags/att_loop.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Specifies that the audio/video will start over again, every time it is finished |
| [low](https://www.w3schools.com/tags/att_low.asp) | [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Specifies the range that is considered to be a low value |
| [max](https://www.w3schools.com/tags/att_max.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<meter>](https://www.w3schools.com/tags/tag_meter.asp), [<progress>](https://www.w3schools.com/tags/tag_progress.asp) | Specifies the maximum value |
| [maxlength](https://www.w3schools.com/tags/att_maxlength.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies the maximum number of characters allowed in an element |
| [media](https://www.w3schools.com/tags/att_media.asp) | [<a>](https://www.w3schools.com/tags/tag_a.asp), [<area>](https://www.w3schools.com/tags/tag_area.asp), [<link>](https://www.w3schools.com/tags/tag_link.asp), [<source>](https://www.w3schools.com/tags/tag_source.asp), [<style>](https://www.w3schools.com/tags/tag_style.asp) | Specifies what media/device the linked document is optimized for |
| [method](https://www.w3schools.com/tags/att_method.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | Specifies the HTTP method to use when sending form-data |
| [min](https://www.w3schools.com/tags/att_min.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Specifies a minimum value |
| [multiple](https://www.w3schools.com/tags/att_multiple.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<select>](https://www.w3schools.com/tags/tag_select.asp) | Specifies that a user can enter more than one value |
| [muted](https://www.w3schools.com/tags/att_muted.asp) | [<video>](https://www.w3schools.com/tags/tag_video.asp), [<audio>](https://www.w3schools.com/tags/tag_audio.asp) | Specifies that the audio output of the video should be muted |
| [name](https://www.w3schools.com/tags/att_name.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp), [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp), [<form>](https://www.w3schools.com/tags/tag_form.asp), [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp), [<map>](https://www.w3schools.com/tags/tag_map.asp), [<meta>](https://www.w3schools.com/tags/tag_meta.asp),[<object>](https://www.w3schools.com/tags/tag_object.asp), [<output>](https://www.w3schools.com/tags/tag_output.asp), [<param>](https://www.w3schools.com/tags/tag_param.asp), [<select>](https://www.w3schools.com/tags/tag_select.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies the name of the element |
| [novalidate](https://www.w3schools.com/tags/att_novalidate.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | Specifies that the form should not be validated when submitted |
| [onabort](https://www.w3schools.com/tags/att_onabort.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<embed>](https://www.w3schools.com/tags/tag_embed.asp), [<img>](https://www.w3schools.com/tags/tag_img.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run on abort |
| [onafterprint](https://www.w3schools.com/tags/att_onafterprint.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run after the document is printed |
| [onbeforeprint](https://www.w3schools.com/tags/att_onbeforeprint.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run before the document is printed |
| [onbeforeunload](https://www.w3schools.com/tags/att_onbeforeunload.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when the document is about to be unloaded |
| [onblur](https://www.w3schools.com/tags/att_onblur.asp) | All visible elements. | Script to be run when the element loses focus |
| [oncanplay](https://www.w3schools.com/tags/att_oncanplay.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<embed>](https://www.w3schools.com/tags/tag_embed.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when a file is ready to start playing (when it has buffered enough to begin) |
| [oncanplaythrough](https://www.w3schools.com/tags/att_oncanplaythrough.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when a file can be played all the way to the end without pausing for buffering |
| [onchange](https://www.w3schools.com/tags/att_onchange.asp) | All visible elements. | Script to be run when the value of the element is changed |
| [onclick](https://www.w3schools.com/tags/att_onclick.asp) | All visible elements. | Script to be run when the element is being clicked |
| [oncontextmenu](https://www.w3schools.com/tags/att_oncontextmenu.asp) | All visible elements. | Script to be run when a context menu is triggered |
| [oncopy](https://www.w3schools.com/tags/att_oncopy.asp) | All visible elements. | Script to be run when the content of the element is being copied |
| [oncuechange](https://www.w3schools.com/tags/att_oncuechange.asp) | [<track>](https://www.w3schools.com/tags/tag_track.asp) | Script to be run when the cue changes in a [<track>](https://www.w3schools.com/tags/tag_track.asp) element |
| [oncut](https://www.w3schools.com/tags/att_oncut.asp) | All visible elements. | Script to be run when the content of the element is being cut |
| [ondblclick](https://www.w3schools.com/tags/att_ondblclick.asp) | All visible elements. | Script to be run when the element is being double-clicked |
| [ondrag](https://www.w3schools.com/tags/att_ondrag.asp) | All visible elements. | Script to be run when the element is being dragged |
| [ondragend](https://www.w3schools.com/tags/att_ondragend.asp) | All visible elements. | Script to be run at the end of a drag operation |
| [ondragenter](https://www.w3schools.com/tags/att_ondragenter.asp) | All visible elements. | Script to be run when an element has been dragged to a valid drop target |
| [ondragleave](https://www.w3schools.com/tags/att_ondragleave.asp) | All visible elements. | Script to be run when an element leaves a valid drop target |
| [ondragover](https://www.w3schools.com/tags/att_ondragover.asp) | All visible elements. | Script to be run when an element is being dragged over a valid drop target |
| [ondragstart](https://www.w3schools.com/tags/att_ondragstart.asp) | All visible elements. | Script to be run at the start of a drag operation |
| [ondrop](https://www.w3schools.com/tags/att_ondrop.asp) | All visible elements. | Script to be run when dragged element is being dropped |
| [ondurationchange](https://www.w3schools.com/tags/att_ondurationchange.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the length of the media changes |
| [onemptied](https://www.w3schools.com/tags/att_onemptied.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects) |
| [onended](https://www.w3schools.com/tags/att_onended.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the media has reach the end (a useful event for messages like "thanks for listening") |
| [onerror](https://www.w3schools.com/tags/att_onerror.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<body>](https://www.w3schools.com/tags/tag_body.asp), [<embed>](https://www.w3schools.com/tags/tag_embed.asp), [<img>](https://www.w3schools.com/tags/tag_img.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp), [<script>](https://www.w3schools.com/tags/tag_script.asp), [<style>](https://www.w3schools.com/tags/tag_style.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when an error occurs |
| [onfocus](https://www.w3schools.com/tags/att_onfocus.asp) | All visible elements. | Script to be run when the element gets focus |
| [onhashchange](https://www.w3schools.com/tags/att_onhashchange.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when there has been changes to the anchor part of the a URL |
| [oninput](https://www.w3schools.com/tags/att_oninput.asp) | All visible elements. | Script to be run when the element gets user input |
| [oninvalid](https://www.w3schools.com/tags/att_oninvalid.asp) | All visible elements. | Script to be run when the element is invalid |
| [onkeydown](https://www.w3schools.com/tags/att_onkeydown.asp) | All visible elements. | Script to be run when a user is pressing a key |
| [onkeypress](https://www.w3schools.com/tags/att_onkeypress.asp) | All visible elements. | Script to be run when a user presses a key |
| [onkeyup](https://www.w3schools.com/tags/att_onkeyup.asp) | All visible elements. | Script to be run when a user releases a key |
| [onload](https://www.w3schools.com/tags/att_onload.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp), [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp), [<img>](https://www.w3schools.com/tags/tag_img.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<link>](https://www.w3schools.com/tags/tag_link.asp), [<script>](https://www.w3schools.com/tags/tag_script.asp), [<style>](https://www.w3schools.com/tags/tag_style.asp) | Script to be run when the element is finished loading |
| [onloadeddata](https://www.w3schools.com/tags/att_onloadeddata.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when media data is loaded |
| [onloadedmetadata](https://www.w3schools.com/tags/att_onloadedmetadata.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when meta data (like dimensions and duration) are loaded |
| [onloadstart](https://www.w3schools.com/tags/att_onloadstart.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run just as the file begins to load before anything is actually loaded |
| [onmousedown](https://www.w3schools.com/tags/att_onmousedown.asp) | All visible elements. | Script to be run when a mouse button is pressed down on an element |
| [onmousemove](https://www.w3schools.com/tags/att_onmousemove.asp) | All visible elements. | Script to be run as long as the  mouse pointer is moving over an element |
| [onmouseout](https://www.w3schools.com/tags/att_onmouseout.asp) | All visible elements. | Script to be run when a mouse pointer moves out of an element |
| [onmouseover](https://www.w3schools.com/tags/att_onmouseover.asp) | All visible elements. | Script to be run when a mouse pointer moves over an element |
| [onmouseup](https://www.w3schools.com/tags/att_onmouseup.asp) | All visible elements. | Script to be run when a mouse button is released over an element |
| [onmousewheel](https://www.w3schools.com/tags/att_onmousewheel.asp) | All visible elements. | Script to be run when a mouse wheel is being scrolled over an element |
| [onoffline](https://www.w3schools.com/tags/att_onoffline.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when the browser starts to work offline |
| [ononline](https://www.w3schools.com/tags/att_ononline.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when the browser starts to work online |
| onpagehide | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when a user navigates away from a page |
| [onpageshow](https://www.w3schools.com/tags/att_onpageshow.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when a user navigates to a page |
| [onpaste](https://www.w3schools.com/tags/att_onpaste.asp) | All visible elements. | Script to be run when the user pastes some content in an element |
| [onpause](https://www.w3schools.com/tags/att_onpause.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the media is paused either by the user or programmatically |
| [onplay](https://www.w3schools.com/tags/att_onplay.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the media is ready to start playing |
| [onplaying](https://www.w3schools.com/tags/att_onplaying.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the media actually has started playing. |
| onpopstate | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when the window's history changes. |
| [onprogress](https://www.w3schools.com/tags/att_onprogress.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the browser is in the process of getting the media data |
| [onratechange](https://www.w3schools.com/tags/att_onratechange.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run each time the playback rate changes (like when a user switches to a slow motion or fast forward mode). |
| [onreset](https://www.w3schools.com/tags/att_onreset.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | Script to be run when a reset button in a form is clicked. |
| [onresize](https://www.w3schools.com/tags/att_onresize.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when the browser window is being resized. |
| [onscroll](https://www.w3schools.com/tags/att_onscroll.asp) | All visible elements. | Script to be run when an element's scrollbar is being scrolled |
| [onsearch](https://www.w3schools.com/tags/att_onsearch.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp) | Script to be run when the user writes something in a search field (for <input="search">) |
| [onseeked](https://www.w3schools.com/tags/att_onseeked.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the seeking attribute is set to false indicating that seeking has ended |
| [onseeking](https://www.w3schools.com/tags/att_onseeking.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the seeking attribute is set to true indicating that seeking is active |
| [onselect](https://www.w3schools.com/tags/att_onselect.asp) | All visible elements. | Script to be run when the element gets selected |
| [onshow](https://www.w3schools.com/tags/att_onshow.asp) | [<menu>](https://www.w3schools.com/tags/tag_menu.asp) | Script to be run when a <menu> element is shown as a context menu |
| [onstalled](https://www.w3schools.com/tags/att_onstalled.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the browser is unable to fetch the media data for whatever reason |
| onstorage | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when a Web Storage area is updated |
| [onsubmit](https://www.w3schools.com/tags/att_onsubmit.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | Script to be run when a form is submitted |
| [onsuspend](https://www.w3schools.com/tags/att_onsuspend.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason |
| [ontimeupdate](https://www.w3schools.com/tags/att_ontimeupdate.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the playing position has changed (like when the user fast forwards to a different point in the media) |
| [ontoggle](https://www.w3schools.com/tags/att_ontoggle.asp) | [<details>](https://www.w3schools.com/tags/tag_details.asp) | Script to be run when the user opens or closes the <details> element |
| [onunload](https://www.w3schools.com/tags/att_onunload.asp) | [<body>](https://www.w3schools.com/tags/tag_body.asp) | Script to be run when a page has unloaded (or the browser window has been closed) |
| [onvolumechange](https://www.w3schools.com/tags/att_onvolumechange.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run each time the volume of a video/audio has been changed |
| [onwaiting](https://www.w3schools.com/tags/att_onwaiting.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Script to be run when the media has paused but is expected to resume (like when the media pauses to buffer more data) |
| [onwheel](https://www.w3schools.com/tags/att_onwheel.asp) | All visible elements. | Script to be run when the mouse wheel rolls up or down over an element |
| [open](https://www.w3schools.com/tags/att_open.asp) | [<details>](https://www.w3schools.com/tags/tag_details.asp) | Specifies that the details should be visible (open) to the user |
| [optimum](https://www.w3schools.com/tags/att_optimum.asp) | [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Specifies what value is the optimal value for the gauge |
| [pattern](https://www.w3schools.com/tags/att_pattern.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp) | Specifies a regular expression that an <input> element's value is checked against |
| [placeholder](https://www.w3schools.com/tags/att_placeholder.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies a short hint that describes the expected value of the element |
| [poster](https://www.w3schools.com/tags/att_poster.asp) | [<video>](https://www.w3schools.com/tags/tag_video.asp) | Specifies an image to be shown while the video is downloading, or until the user hits the play button |
| [preload](https://www.w3schools.com/tags/att_preload.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Specifies if and how the author thinks the audio/video should be loaded when the page loads |
| [readonly](https://www.w3schools.com/tags/att_readonly.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies that the element is read-only |
| [rel](https://www.w3schools.com/tags/att_rel.asp) | [<a>](https://www.w3schools.com/tags/tag_a.asp), [<area>](https://www.w3schools.com/tags/tag_area.asp), [<link>](https://www.w3schools.com/tags/tag_link.asp) | Specifies the relationship between the current document and the linked document |
| [required](https://www.w3schools.com/tags/att_required.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<select>](https://www.w3schools.com/tags/tag_select.asp), [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies that the element must be filled out before submitting the form |
| [reversed](https://www.w3schools.com/tags/att_reversed.asp) | [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Specifies that the list order should be descending (9,8,7...) |
| [rows](https://www.w3schools.com/tags/att_rows.asp) | [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies the visible number of lines in a text area |
| [rowspan](https://www.w3schools.com/tags/att_rowspan.asp) | [<td>](https://www.w3schools.com/tags/tag_td.asp), [<th>](https://www.w3schools.com/tags/tag_th.asp) | Specifies the number of rows a table cell should span |
| [sandbox](https://www.w3schools.com/tags/att_sandbox.asp) | [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp) | Enables an extra set of restrictions for the content in an <iframe> |
| [scope](https://www.w3schools.com/tags/att_scope.asp) | [<th>](https://www.w3schools.com/tags/tag_th.asp) | Specifies whether a header cell is a header for a column, row, or group of columns or rows |
| [scoped](https://www.w3schools.com/tags/att_scoped.asp) | [<style>](https://www.w3schools.com/tags/tag_style.asp) | Specifies that the styles only apply to this element's parent element and that element's child elements |
| [selected](https://www.w3schools.com/tags/att_selected.asp) | [<option>](https://www.w3schools.com/tags/tag_option.asp) | Specifies that an option should be pre-selected when the page loads |
| [shape](https://www.w3schools.com/tags/att_shape.asp) | [<area>](https://www.w3schools.com/tags/tag_area.asp) | Specifies the shape of the area |
| [size](https://www.w3schools.com/tags/att_size.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp), [<select>](https://www.w3schools.com/tags/tag_select.asp) | Specifies the width, in characters (for <input>) or specifies the number of visible options (for <select>) |
| [sizes](https://www.w3schools.com/tags/att_sizes.asp) | [<img>](https://www.w3schools.com/tags/tag_img.asp), [<link>](https://www.w3schools.com/tags/tag_link.asp), [<source>](https://www.w3schools.com/tags/tag_source.asp) | Specifies the size of the linked resource |
| [span](https://www.w3schools.com/tags/att_span.asp) | [<col>](https://www.w3schools.com/tags/tag_col.asp), [<colgroup>](https://www.w3schools.com/tags/tag_colgroup.asp) | Specifies the number of columns to span |
| [spellcheck](https://www.w3schools.com/tags/att_spellcheck.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies whether the element is to have its spelling and grammar checked or not |
| [src](https://www.w3schools.com/tags/att_src.asp) | [<audio>](https://www.w3schools.com/tags/tag_audio.asp), [<embed>](https://www.w3schools.com/tags/tag_embed.asp), [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp), [<img>](https://www.w3schools.com/tags/tag_img.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<script>](https://www.w3schools.com/tags/tag_script.asp), [<source>](https://www.w3schools.com/tags/tag_source.asp), [<track>](https://www.w3schools.com/tags/tag_track.asp),[<video>](https://www.w3schools.com/tags/tag_video.asp) | Specifies the URL of the media file |
| [srcdoc](https://www.w3schools.com/tags/att_srcdoc.asp) | [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp) | Specifies the HTML content of the page to show in the <iframe> |
| [srclang](https://www.w3schools.com/tags/att_srclang.asp) | [<track>](https://www.w3schools.com/tags/tag_track.asp) | Specifies the language of the track text data (required if kind="subtitles") |
| [srcset](https://www.w3schools.com/tags/att_source_srcset.asp) | [<img>](https://www.w3schools.com/tags/tag_img.asp), [<source>](https://www.w3schools.com/tags/tag_source.asp) | Specifies the URL of the image to use in different situations |
| [start](https://www.w3schools.com/tags/att_start.asp) | [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Specifies the start value of an ordered list |
| [step](https://www.w3schools.com/tags/att_step.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp) | Specifies the legal number intervals for an input field |
| [style](https://www.w3schools.com/tags/att_style.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies an inline CSS style for an element |
| [tabindex](https://www.w3schools.com/tags/att_tabindex.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies the tabbing order of an element |
| [target](https://www.w3schools.com/tags/att_target.asp) | [<a>](https://www.w3schools.com/tags/tag_a.asp), [<area>](https://www.w3schools.com/tags/tag_area.asp), [<base>](https://www.w3schools.com/tags/tag_base.asp), [<form>](https://www.w3schools.com/tags/tag_form.asp) | Specifies the target for where to open the linked document or where to submit the form |
| [title](https://www.w3schools.com/tags/att_title.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies extra information about an element |
| [translate](https://www.w3schools.com/tags/att_translate.asp) | [Global Attributes](https://www.w3schools.com/tags/ref_standardattributes.asp) | Specifies whether the content of an element should be translated or not |
| [type](https://www.w3schools.com/tags/att_type.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp), [<embed>](https://www.w3schools.com/tags/tag_embed.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<link>](https://www.w3schools.com/tags/tag_link.asp), [<menu>](https://www.w3schools.com/tags/tag_menu.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp), [<script>](https://www.w3schools.com/tags/tag_script.asp), [<source>](https://www.w3schools.com/tags/tag_source.asp), [<style>](https://www.w3schools.com/tags/tag_style.asp) | Specifies the type of element |
| [usemap](https://www.w3schools.com/tags/att_usemap.asp) | [<img>](https://www.w3schools.com/tags/tag_img.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp) | Specifies an image as a client-side image-map |
| [value](https://www.w3schools.com/tags/att_value.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<li>](https://www.w3schools.com/tags/tag_li.asp), [<option>](https://www.w3schools.com/tags/tag_option.asp),[<meter>](https://www.w3schools.com/tags/tag_meter.asp), [<progress>](https://www.w3schools.com/tags/tag_progress.asp), [<param>](https://www.w3schools.com/tags/tag_param.asp) | Specifies the value of the element |
| [width](https://www.w3schools.com/tags/att_width.asp) | <canvas>, [<embed>](https://www.w3schools.com/tags/tag_embed.asp), [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp), [<img>](https://www.w3schools.com/tags/tag_img.asp), [<input>](https://www.w3schools.com/tags/tag_input.asp), [<object>](https://www.w3schools.com/tags/tag_object.asp), [<video>](https://www.w3schools.com/tags/tag_video.asp) | Specifies the width of the element |
| [wrap](https://www.w3schools.com/tags/att_wrap.asp) | [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Specifies how the text in a text area is to be wrapped when submitted in a form |

# HTML Global Attributes

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| [accesskey](https://www.w3schools.com/tags/att_global_accesskey.asp) | Specifies a shortcut key to activate/focus an element |
| [class](https://www.w3schools.com/tags/att_global_class.asp) | Specifies one or more classnames for an element (refers to a class in a style sheet) |
| [contenteditable](https://www.w3schools.com/tags/att_global_contenteditable.asp) | Specifies whether the content of an element is editable or not |
| [contextmenu](https://www.w3schools.com/tags/att_global_contextmenu.asp) | Specifies a context menu for an element. The context menu appears when a user right-clicks on the element |
| [data-\*](https://www.w3schools.com/tags/att_global_data.asp) | Used to store custom data private to the page or application |
| [dir](https://www.w3schools.com/tags/att_global_dir.asp) | Specifies the text direction for the content in an element |
| [draggable](https://www.w3schools.com/tags/att_global_draggable.asp) | Specifies whether an element is draggable or not |
| [dropzone](https://www.w3schools.com/tags/att_global_dropzone.asp) | Specifies whether the dragged data is copied, moved, or linked, when dropped |
| [hidden](https://www.w3schools.com/tags/att_global_hidden.asp) | Specifies that an element is not yet, or is no longer, relevant |
| [id](https://www.w3schools.com/tags/att_global_id.asp) | Specifies a unique id for an element |
| [lang](https://www.w3schools.com/tags/att_global_lang.asp) | Specifies the language of the element's content |
| [spellcheck](https://www.w3schools.com/tags/att_global_spellcheck.asp) | Specifies whether the element is to have its spelling and grammar checked or not |
| [style](https://www.w3schools.com/tags/att_global_style.asp) | Specifies an inline CSS style for an element |
| [tabindex](https://www.w3schools.com/tags/att_global_tabindex.asp) | Specifies the tabbing order of an element |
| [title](https://www.w3schools.com/tags/att_global_title.asp) | Specifies extra information about an element |
| [translate](https://www.w3schools.com/tags/att_global_translate.asp) | Specifies whether the content of an element should be translated or not |

# Global Event Attributes

HTML 4 added the ability to let events trigger actions in a browser, like starting a JavaScript when a user clicks on an element.

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](https://www.w3schools.com/tags/ev_onafterprint.asp) | *script* | Script to be run after the document is printed |
| [onbeforeprint](https://www.w3schools.com/tags/ev_onbeforeprint.asp) | *script* | Script to be run before the document is printed |
| [onbeforeunload](https://www.w3schools.com/tags/ev_onbeforeunload.asp) | *script* | Script to be run when the document is about to be unloaded |
| [onerror](https://www.w3schools.com/tags/ev_onerror.asp) | *script* | Script to be run when an error occurs |
| [onhashchange](https://www.w3schools.com/tags/ev_onhashchange.asp) | *script* | Script to be run when there has been changes to the anchor part of the a URL |
| [onload](https://www.w3schools.com/tags/ev_onload.asp) | *script* | Fires after the page is finished loading |
| onmessage | *script* | Script to be run when the message is triggered |
| [onoffline](https://www.w3schools.com/tags/ev_onoffline.asp) | *script* | Script to be run when the browser starts to work offline |
| [ononline](https://www.w3schools.com/tags/ev_ononline.asp) | *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](https://www.w3schools.com/tags/ev_onpageshow.asp) | *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](https://www.w3schools.com/tags/ev_onresize.asp) | *script* | Fires when the browser window is resized |
| onstorage | *script* | Script to be run when a Web Storage area is updated |
| [onunload](https://www.w3schools.com/tags/ev_onunload.asp) | *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](https://www.w3schools.com/tags/ev_onblur.asp) | *script* | Fires the moment that the element loses focus |
| [onchange](https://www.w3schools.com/tags/ev_onchange.asp) | *script* | Fires the moment when the value of the element is changed |
| [oncontextmenu](https://www.w3schools.com/tags/ev_oncontextmenu.asp) | *script* | Script to be run when a context menu is triggered |
| [onfocus](https://www.w3schools.com/tags/ev_onfocus.asp) | *script* | Fires the moment when the element gets focus |
| [oninput](https://www.w3schools.com/tags/ev_oninput.asp) | *script* | Script to be run when an element gets user input |
| [oninvalid](https://www.w3schools.com/tags/ev_oninvalid.asp) | *script* | Script to be run when an element is invalid |
| [onreset](https://www.w3schools.com/tags/ev_onreset.asp) | *script* | Fires when the Reset button in a form is clicked |
| [onsearch](https://www.w3schools.com/tags/ev_onsearch.asp) | *script* | Fires when the user writes something in a search field (for <input="search">) |
| [onselect](https://www.w3schools.com/tags/ev_onselect.asp) | *script* | Fires after some text has been selected in an element |
| [onsubmit](https://www.w3schools.com/tags/ev_onsubmit.asp) | *script* | Fires when a form is submitted |

## Keyboard Events

|  |  |  |
| --- | --- | --- |
| Attribute | Value | Description |
| [onkeydown](https://www.w3schools.com/tags/ev_onkeydown.asp) | *script* | Fires when a user is pressing a key |
| [onkeypress](https://www.w3schools.com/tags/ev_onkeypress.asp) | *script* | Fires when a user presses a key |
| [onkeyup](https://www.w3schools.com/tags/ev_onkeyup.asp) | *script* | Fires when a user releases a key |

## Mouse Events

|  |  |  |
| --- | --- | --- |
| Attribute | Value | Description |
| [onclick](https://www.w3schools.com/tags/ev_onclick.asp) | *script* | Fires on a mouse click on the element |
| [ondblclick](https://www.w3schools.com/tags/ev_ondblclick.asp) | *script* | Fires on a mouse double-click on the element |
| [onmousedown](https://www.w3schools.com/tags/ev_onmousedown.asp) | *script* | Fires when a mouse button is pressed down on an element |
| [onmousemove](https://www.w3schools.com/tags/ev_onmousemove.asp) | *script* | Fires when the mouse pointer is moving while it is over an element |
| [onmouseout](https://www.w3schools.com/tags/ev_onmouseout.asp) | *script* | Fires when the mouse pointer moves out of an element |
| [onmouseover](https://www.w3schools.com/tags/ev_onmouseover.asp) | *script* | Fires when the mouse pointer moves over an element |
| [onmouseup](https://www.w3schools.com/tags/ev_onmouseup.asp) | *script* | Fires when a mouse button is released over an element |
| onmousewheel | *script* | Deprecated. Use the [onwheel](https://www.w3schools.com/tags/ev_onwheel.asp) attribute instead |
| [onwheel](https://www.w3schools.com/tags/ev_onwheel.asp) | *script* | Fires when the mouse wheel rolls up or down over an element |

## Drag Events

|  |  |  |
| --- | --- | --- |
| Attribute | Value | Description |
| [ondrag](https://www.w3schools.com/tags/ev_ondrag.asp) | *script* | Script to be run when an element is dragged |
| [ondragend](https://www.w3schools.com/tags/ev_ondragend.asp) | *script* | Script to be run at the end of a drag operation |
| [ondragenter](https://www.w3schools.com/tags/ev_ondragenter.asp) | *script* | Script to be run when an element has been dragged to a valid drop target |
| [ondragleave](https://www.w3schools.com/tags/ev_ondragleave.asp) | *script* | Script to be run when an element leaves a valid drop target |
| [ondragover](https://www.w3schools.com/tags/ev_ondragover.asp) | *script* | Script to be run when an element is being dragged over a valid drop target |
| [ondragstart](https://www.w3schools.com/tags/ev_ondragstart.asp) | *script* | Script to be run at the start of a drag operation |
| [ondrop](https://www.w3schools.com/tags/ev_ondrop.asp) | *script* | Script to be run when dragged element is being dropped |
| [onscroll](https://www.w3schools.com/tags/ev_onscroll.asp) | *script* | Script to be run when an element's scrollbar is being scrolled |

## Clipboard Events

|  |  |  |
| --- | --- | --- |
| Attribute | Value | Description |
| [oncopy](https://www.w3schools.com/tags/ev_oncopy.asp) | *script* | Fires when the user copies the content of an element |
| [oncut](https://www.w3schools.com/tags/ev_oncut.asp) | *script* | Fires when the user cuts the content of an element |
| [onpaste](https://www.w3schools.com/tags/ev_onpaste.asp) | *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>, <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 |
| [onshow](https://www.w3schools.com/tags/ev_onshow.asp) | *script* | Fires when a <menu> element is shown as a context menu |
| [ontoggle](https://www.w3schools.com/tags/ev_ontoggle.asp) | *script* | Fires when the user opens or closes the <details> element |

# Color Names Sorted by Color Groups

All modern browsers support the following 140 color name

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pink Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Pink](https://www.w3schools.com/colors/color_tryit.asp?color=Pink) | [#FFC0CB](https://www.w3schools.com/colors/color_tryit.asp?hex=FFC0CB) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFC0CB) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFC0CB&colortop=FFFFFF) |
| [LightPink](https://www.w3schools.com/colors/color_tryit.asp?color=LightPink) | [#FFB6C1](https://www.w3schools.com/colors/color_tryit.asp?hex=FFB6C1) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFB6C1) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFB6C1&colortop=FFFFFF) |
| [HotPink](https://www.w3schools.com/colors/color_tryit.asp?color=HotPink) | [#FF69B4](https://www.w3schools.com/colors/color_tryit.asp?hex=FF69B4) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF69B4) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF69B4&colortop=FFFFFF) |
| [DeepPink](https://www.w3schools.com/colors/color_tryit.asp?color=DeepPink) | [#FF1493](https://www.w3schools.com/colors/color_tryit.asp?hex=FF1493) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF1493) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF1493&colortop=FFFFFF) |
| [PaleVioletRed](https://www.w3schools.com/colors/color_tryit.asp?color=PaleVioletRed) | [#DB7093](https://www.w3schools.com/colors/color_tryit.asp?hex=DB7093) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=DB7093) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=DB7093&colortop=FFFFFF) |
| [MediumVioletRed](https://www.w3schools.com/colors/color_tryit.asp?color=MediumVioletRed) | [#C71585](https://www.w3schools.com/colors/color_tryit.asp?hex=C71585) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=C71585) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=C71585&colortop=FFFFFF) |
| Purple Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Lavender](https://www.w3schools.com/colors/color_tryit.asp?color=Lavender) | [#E6E6FA](https://www.w3schools.com/colors/color_tryit.asp?hex=E6E6FA) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=E6E6FA) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=E6E6FA&colortop=FFFFFF) |
| [Thistle](https://www.w3schools.com/colors/color_tryit.asp?color=Thistle) | [#D8BFD8](https://www.w3schools.com/colors/color_tryit.asp?hex=D8BFD8) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=D8BFD8) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=D8BFD8&colortop=FFFFFF) |
| [Plum](https://www.w3schools.com/colors/color_tryit.asp?color=Plum) | [#DDA0DD](https://www.w3schools.com/colors/color_tryit.asp?hex=DDA0DD) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=DDA0DD) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=DDA0DD&colortop=FFFFFF) |
| [Orchid](https://www.w3schools.com/colors/color_tryit.asp?color=Orchid) | [#DA70D6](https://www.w3schools.com/colors/color_tryit.asp?hex=DA70D6) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=DA70D6) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=DA70D6&colortop=FFFFFF) |
| [Violet](https://www.w3schools.com/colors/color_tryit.asp?color=Violet) | [#EE82EE](https://www.w3schools.com/colors/color_tryit.asp?hex=EE82EE) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=EE82EE) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=EE82EE&colortop=FFFFFF) |
| [Fuchsia](https://www.w3schools.com/colors/color_tryit.asp?color=Fuchsia) | [#FF00FF](https://www.w3schools.com/colors/color_tryit.asp?hex=FF00FF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF00FF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [Magenta](https://www.w3schools.com/colors/color_tryit.asp?color=Magenta) | [#FF00FF](https://www.w3schools.com/colors/color_tryit.asp?hex=FF00FF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF00FF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [MediumOrchid](https://www.w3schools.com/colors/color_tryit.asp?color=MediumOrchid) | [#BA55D3](https://www.w3schools.com/colors/color_tryit.asp?hex=BA55D3) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=BA55D3) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=BA55D3&colortop=FFFFFF) |
| [DarkOrchid](https://www.w3schools.com/colors/color_tryit.asp?color=DarkOrchid) | [#9932CC](https://www.w3schools.com/colors/color_tryit.asp?hex=9932CC) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=9932CC) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=9932CC&colortop=FFFFFF) |
| [DarkViolet](https://www.w3schools.com/colors/color_tryit.asp?color=DarkViolet) | [#9400D3](https://www.w3schools.com/colors/color_tryit.asp?hex=9400D3) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=9400D3) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=9400D3&colortop=FFFFFF) |
| [BlueViolet](https://www.w3schools.com/colors/color_tryit.asp?color=BlueViolet) | [#8A2BE2](https://www.w3schools.com/colors/color_tryit.asp?hex=8A2BE2) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=8A2BE2) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=8A2BE2&colortop=FFFFFF) |
| [DarkMagenta](https://www.w3schools.com/colors/color_tryit.asp?color=DarkMagenta) | [#8B008B](https://www.w3schools.com/colors/color_tryit.asp?hex=8B008B) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=8B008B) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=8B008B&colortop=FFFFFF) |
| [Purple](https://www.w3schools.com/colors/color_tryit.asp?color=Purple) | [#800080](https://www.w3schools.com/colors/color_tryit.asp?hex=800080) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=800080) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=800080&colortop=FFFFFF) |
| [MediumPurple](https://www.w3schools.com/colors/color_tryit.asp?color=MediumPurple) | [#9370DB](https://www.w3schools.com/colors/color_tryit.asp?hex=9370DB) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=9370DB) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=9370DB&colortop=FFFFFF) |
| [MediumSlateBlue](https://www.w3schools.com/colors/color_tryit.asp?color=MediumSlateBlue) | [#7B68EE](https://www.w3schools.com/colors/color_tryit.asp?hex=7B68EE) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=7B68EE) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=7B68EE&colortop=FFFFFF) |
| [SlateBlue](https://www.w3schools.com/colors/color_tryit.asp?color=SlateBlue) | [#6A5ACD](https://www.w3schools.com/colors/color_tryit.asp?hex=6A5ACD) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=6A5ACD) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=6A5ACD&colortop=FFFFFF) |
| [DarkSlateBlue](https://www.w3schools.com/colors/color_tryit.asp?color=DarkSlateBlue) | [#483D8B](https://www.w3schools.com/colors/color_tryit.asp?hex=483D8B) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=483D8B) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=483D8B&colortop=FFFFFF) |
| [RebeccaPurple](https://www.w3schools.com/colors/color_tryit.asp?color=RebeccaPurple) | [#663399](https://www.w3schools.com/colors/color_tryit.asp?hex=663399) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=663399) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=663399&colortop=FFFFFF) |
| [Indigo](https://www.w3schools.com/colors/color_tryit.asp?color=Indigo) | [#4B0082](https://www.w3schools.com/colors/color_tryit.asp?hex=4B0082) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=4B0082) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=4B0082&colortop=FFFFFF) |
| Red Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [LightSalmon](https://www.w3schools.com/colors/color_tryit.asp?color=LightSalmon) | [#FFA07A](https://www.w3schools.com/colors/color_tryit.asp?hex=FFA07A) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFA07A) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFA07A&colortop=FFFFFF) |
| [Salmon](https://www.w3schools.com/colors/color_tryit.asp?color=Salmon) | [#FA8072](https://www.w3schools.com/colors/color_tryit.asp?hex=FA8072) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FA8072) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FA8072&colortop=FFFFFF) |
| [DarkSalmon](https://www.w3schools.com/colors/color_tryit.asp?color=DarkSalmon) | [#E9967A](https://www.w3schools.com/colors/color_tryit.asp?hex=E9967A) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=E9967A) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=E9967A&colortop=FFFFFF) |
| [LightCoral](https://www.w3schools.com/colors/color_tryit.asp?color=LightCoral) | [#F08080](https://www.w3schools.com/colors/color_tryit.asp?hex=F08080) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F08080) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F08080&colortop=FFFFFF) |
| [IndianRed](https://www.w3schools.com/colors/color_tryit.asp?color=IndianRed) | [#CD5C5C](https://www.w3schools.com/colors/color_tryit.asp?hex=CD5C5C) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=CD5C5C) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=CD5C5C&colortop=FFFFFF) |
| [Crimson](https://www.w3schools.com/colors/color_tryit.asp?color=Crimson) | [#DC143C](https://www.w3schools.com/colors/color_tryit.asp?hex=DC143C) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=DC143C) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=DC143C&colortop=FFFFFF) |
| [Red](https://www.w3schools.com/colors/color_tryit.asp?color=Red) | [#FF0000](https://www.w3schools.com/colors/color_tryit.asp?hex=FF0000) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF0000) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF0000&colortop=FFFFFF) |
| [FireBrick](https://www.w3schools.com/colors/color_tryit.asp?color=FireBrick) | [#B22222](https://www.w3schools.com/colors/color_tryit.asp?hex=B22222) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=B22222) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=B22222&colortop=FFFFFF) |
| [DarkRed](https://www.w3schools.com/colors/color_tryit.asp?color=DarkRed) | [#8B0000](https://www.w3schools.com/colors/color_tryit.asp?hex=8B0000) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=8B0000) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=8B0000&colortop=FFFFFF) |
| Orange Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Orange](https://www.w3schools.com/colors/color_tryit.asp?color=Orange) | [#FFA500](https://www.w3schools.com/colors/color_tryit.asp?hex=FFA500) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFA500) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFA500&colortop=FFFFFF) |
| [DarkOrange](https://www.w3schools.com/colors/color_tryit.asp?color=DarkOrange) | [#FF8C00](https://www.w3schools.com/colors/color_tryit.asp?hex=FF8C00) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF8C00) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF8C00&colortop=FFFFFF) |
| [Coral](https://www.w3schools.com/colors/color_tryit.asp?color=Coral) | [#FF7F50](https://www.w3schools.com/colors/color_tryit.asp?hex=FF7F50) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF7F50) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF7F50&colortop=FFFFFF) |
| [Tomato](https://www.w3schools.com/colors/color_tryit.asp?color=Tomato) | [#FF6347](https://www.w3schools.com/colors/color_tryit.asp?hex=FF6347) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF6347) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF6347&colortop=FFFFFF) |
| [OrangeRed](https://www.w3schools.com/colors/color_tryit.asp?color=OrangeRed) | [#FF4500](https://www.w3schools.com/colors/color_tryit.asp?hex=FF4500) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FF4500) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FF4500&colortop=FFFFFF) |
| Yellow Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Gold](https://www.w3schools.com/colors/color_tryit.asp?color=Gold) | [#FFD700](https://www.w3schools.com/colors/color_tryit.asp?hex=FFD700) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFD700) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFD700&colortop=FFFFFF) |
| [Yellow](https://www.w3schools.com/colors/color_tryit.asp?color=Yellow) | [#FFFF00](https://www.w3schools.com/colors/color_tryit.asp?hex=FFFF00) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFFF00) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFFF00&colortop=FFFFFF) |
| [LightYellow](https://www.w3schools.com/colors/color_tryit.asp?color=LightYellow) | [#FFFFE0](https://www.w3schools.com/colors/color_tryit.asp?hex=FFFFE0) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFFFE0) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFFFE0&colortop=FFFFFF) |
| [LemonChiffon](https://www.w3schools.com/colors/color_tryit.asp?color=LemonChiffon) | [#FFFACD](https://www.w3schools.com/colors/color_tryit.asp?hex=FFFACD) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFFACD) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFFACD&colortop=FFFFFF) |
| [LightGoldenRodYellow](https://www.w3schools.com/colors/color_tryit.asp?color=LightGoldenRodYellow) | [#FAFAD2](https://www.w3schools.com/colors/color_tryit.asp?hex=FAFAD2) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FAFAD2) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FAFAD2&colortop=FFFFFF) |
| [PapayaWhip](https://www.w3schools.com/colors/color_tryit.asp?color=PapayaWhip) | [#FFEFD5](https://www.w3schools.com/colors/color_tryit.asp?hex=FFEFD5) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFEFD5) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFEFD5&colortop=FFFFFF) |
| [Moccasin](https://www.w3schools.com/colors/color_tryit.asp?color=Moccasin) | [#FFE4B5](https://www.w3schools.com/colors/color_tryit.asp?hex=FFE4B5) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFE4B5) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFE4B5&colortop=FFFFFF) |
| [PeachPuff](https://www.w3schools.com/colors/color_tryit.asp?color=PeachPuff) | [#FFDAB9](https://www.w3schools.com/colors/color_tryit.asp?hex=FFDAB9) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFDAB9) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFDAB9&colortop=FFFFFF) |
| [PaleGoldenRod](https://www.w3schools.com/colors/color_tryit.asp?color=PaleGoldenRod) | [#EEE8AA](https://www.w3schools.com/colors/color_tryit.asp?hex=EEE8AA) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=EEE8AA) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=EEE8AA&colortop=FFFFFF) |
| [Khaki](https://www.w3schools.com/colors/color_tryit.asp?color=Khaki) | [#F0E68C](https://www.w3schools.com/colors/color_tryit.asp?hex=F0E68C) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F0E68C) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F0E68C&colortop=FFFFFF) |
| [DarkKhaki](https://www.w3schools.com/colors/color_tryit.asp?color=DarkKhaki) | [#BDB76B](https://www.w3schools.com/colors/color_tryit.asp?hex=BDB76B) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=BDB76B) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=BDB76B&colortop=FFFFFF) |
| Green Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [GreenYellow](https://www.w3schools.com/colors/color_tryit.asp?color=GreenYellow) | [#ADFF2F](https://www.w3schools.com/colors/color_tryit.asp?hex=ADFF2F) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=ADFF2F) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=ADFF2F&colortop=FFFFFF) |
| [Chartreuse](https://www.w3schools.com/colors/color_tryit.asp?color=Chartreuse) | [#7FFF00](https://www.w3schools.com/colors/color_tryit.asp?hex=7FFF00) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=7FFF00) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=7FFF00&colortop=FFFFFF) |
| [LawnGreen](https://www.w3schools.com/colors/color_tryit.asp?color=LawnGreen) | [#7CFC00](https://www.w3schools.com/colors/color_tryit.asp?hex=7CFC00) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=7CFC00) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=7CFC00&colortop=FFFFFF) |
| [Lime](https://www.w3schools.com/colors/color_tryit.asp?color=Lime) | [#00FF00](https://www.w3schools.com/colors/color_tryit.asp?hex=00FF00) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00FF00) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00FF00&colortop=FFFFFF) |
| [LimeGreen](https://www.w3schools.com/colors/color_tryit.asp?color=LimeGreen) | [#32CD32](https://www.w3schools.com/colors/color_tryit.asp?hex=32CD32) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=32CD32) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=32CD32&colortop=FFFFFF) |
| [PaleGreen](https://www.w3schools.com/colors/color_tryit.asp?color=PaleGreen) | [#98FB98](https://www.w3schools.com/colors/color_tryit.asp?hex=98FB98) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=98FB98) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=98FB98&colortop=FFFFFF) |
| [LightGreen](https://www.w3schools.com/colors/color_tryit.asp?color=LightGreen) | [#90EE90](https://www.w3schools.com/colors/color_tryit.asp?hex=90EE90) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=90EE90) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=90EE90&colortop=FFFFFF) |
| [MediumSpringGreen](https://www.w3schools.com/colors/color_tryit.asp?color=MediumSpringGreen) | [#00FA9A](https://www.w3schools.com/colors/color_tryit.asp?hex=00FA9A) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00FA9A) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00FA9A&colortop=FFFFFF) |
| [SpringGreen](https://www.w3schools.com/colors/color_tryit.asp?color=SpringGreen) | [#00FF7F](https://www.w3schools.com/colors/color_tryit.asp?hex=00FF7F) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00FF7F) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00FF7F&colortop=FFFFFF) |
| [MediumSeaGreen](https://www.w3schools.com/colors/color_tryit.asp?color=MediumSeaGreen) | [#3CB371](https://www.w3schools.com/colors/color_tryit.asp?hex=3CB371) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=3CB371) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=3CB371&colortop=FFFFFF) |
| [SeaGreen](https://www.w3schools.com/colors/color_tryit.asp?color=SeaGreen) | [#2E8B57](https://www.w3schools.com/colors/color_tryit.asp?hex=2E8B57) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=2E8B57) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=2E8B57&colortop=FFFFFF) |
| [ForestGreen](https://www.w3schools.com/colors/color_tryit.asp?color=ForestGreen) | [#228B22](https://www.w3schools.com/colors/color_tryit.asp?hex=228B22) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=228B22) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=228B22&colortop=FFFFFF) |
| [Green](https://www.w3schools.com/colors/color_tryit.asp?color=Green) | [#008000](https://www.w3schools.com/colors/color_tryit.asp?hex=008000) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=008000) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=008000&colortop=FFFFFF) |
| [DarkGreen](https://www.w3schools.com/colors/color_tryit.asp?color=DarkGreen) | [#006400](https://www.w3schools.com/colors/color_tryit.asp?hex=006400) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=006400) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=006400&colortop=FFFFFF) |
| [YellowGreen](https://www.w3schools.com/colors/color_tryit.asp?color=YellowGreen) | [#9ACD32](https://www.w3schools.com/colors/color_tryit.asp?hex=9ACD32) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=9ACD32) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=9ACD32&colortop=FFFFFF) |
| [OliveDrab](https://www.w3schools.com/colors/color_tryit.asp?color=OliveDrab) | [#6B8E23](https://www.w3schools.com/colors/color_tryit.asp?hex=6B8E23) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=6B8E23) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=6B8E23&colortop=FFFFFF) |
| [DarkOliveGreen](https://www.w3schools.com/colors/color_tryit.asp?color=DarkOliveGreen) | [#556B2F](https://www.w3schools.com/colors/color_tryit.asp?hex=556B2F) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=556B2F) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=556B2F&colortop=FFFFFF) |
| [MediumAquaMarine](https://www.w3schools.com/colors/color_tryit.asp?color=MediumAquaMarine) | [#66CDAA](https://www.w3schools.com/colors/color_tryit.asp?hex=66CDAA) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=66CDAA) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=66CDAA&colortop=FFFFFF) |
| [DarkSeaGreen](https://www.w3schools.com/colors/color_tryit.asp?color=DarkSeaGreen) | [#8FBC8F](https://www.w3schools.com/colors/color_tryit.asp?hex=8FBC8F) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=8FBC8F) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=8FBC8F&colortop=FFFFFF) |
| [LightSeaGreen](https://www.w3schools.com/colors/color_tryit.asp?color=LightSeaGreen) | [#20B2AA](https://www.w3schools.com/colors/color_tryit.asp?hex=20B2AA) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=20B2AA) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=20B2AA&colortop=FFFFFF) |
| [DarkCyan](https://www.w3schools.com/colors/color_tryit.asp?color=DarkCyan) | [#008B8B](https://www.w3schools.com/colors/color_tryit.asp?hex=008B8B) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=008B8B) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=008B8B&colortop=FFFFFF) |
| [Teal](https://www.w3schools.com/colors/color_tryit.asp?color=Teal) | [#008080](https://www.w3schools.com/colors/color_tryit.asp?hex=008080) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=008080) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=008080&colortop=FFFFFF) |
| Cyan Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Aqua](https://www.w3schools.com/colors/color_tryit.asp?color=Aqua) | [#00FFFF](https://www.w3schools.com/colors/color_tryit.asp?hex=00FFFF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00FFFF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [Cyan](https://www.w3schools.com/colors/color_tryit.asp?color=Cyan) | [#00FFFF](https://www.w3schools.com/colors/color_tryit.asp?hex=00FFFF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00FFFF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [LightCyan](https://www.w3schools.com/colors/color_tryit.asp?color=LightCyan) | [#E0FFFF](https://www.w3schools.com/colors/color_tryit.asp?hex=E0FFFF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=E0FFFF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=E0FFFF&colortop=FFFFFF) |
| [PaleTurquoise](https://www.w3schools.com/colors/color_tryit.asp?color=PaleTurquoise) | [#AFEEEE](https://www.w3schools.com/colors/color_tryit.asp?hex=AFEEEE) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=AFEEEE) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=AFEEEE&colortop=FFFFFF) |
| [Aquamarine](https://www.w3schools.com/colors/color_tryit.asp?color=Aquamarine) | [#7FFFD4](https://www.w3schools.com/colors/color_tryit.asp?hex=7FFFD4) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=7FFFD4) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=7FFFD4&colortop=FFFFFF) |
| [Turquoise](https://www.w3schools.com/colors/color_tryit.asp?color=Turquoise) | [#40E0D0](https://www.w3schools.com/colors/color_tryit.asp?hex=40E0D0) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=40E0D0) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=40E0D0&colortop=FFFFFF) |
| [MediumTurquoise](https://www.w3schools.com/colors/color_tryit.asp?color=MediumTurquoise) | [#48D1CC](https://www.w3schools.com/colors/color_tryit.asp?hex=48D1CC) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=48D1CC) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=48D1CC&colortop=FFFFFF) |
| [DarkTurquoise](https://www.w3schools.com/colors/color_tryit.asp?color=DarkTurquoise) | [#00CED1](https://www.w3schools.com/colors/color_tryit.asp?hex=00CED1) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00CED1) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00CED1&colortop=FFFFFF) |
| Blue Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [CadetBlue](https://www.w3schools.com/colors/color_tryit.asp?color=CadetBlue) | [#5F9EA0](https://www.w3schools.com/colors/color_tryit.asp?hex=5F9EA0) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=5F9EA0) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=5F9EA0&colortop=FFFFFF) |
| [SteelBlue](https://www.w3schools.com/colors/color_tryit.asp?color=SteelBlue) | [#4682B4](https://www.w3schools.com/colors/color_tryit.asp?hex=4682B4) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=4682B4) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=4682B4&colortop=FFFFFF) |
| [LightSteelBlue](https://www.w3schools.com/colors/color_tryit.asp?color=LightSteelBlue) | [#B0C4DE](https://www.w3schools.com/colors/color_tryit.asp?hex=B0C4DE) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=B0C4DE) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=B0C4DE&colortop=FFFFFF) |
| [LightBlue](https://www.w3schools.com/colors/color_tryit.asp?color=LightBlue) | [#ADD8E6](https://www.w3schools.com/colors/color_tryit.asp?hex=ADD8E6) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=ADD8E6) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=ADD8E6&colortop=FFFFFF) |
| [PowderBlue](https://www.w3schools.com/colors/color_tryit.asp?color=PowderBlue) | [#B0E0E6](https://www.w3schools.com/colors/color_tryit.asp?hex=B0E0E6) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=B0E0E6) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=B0E0E6&colortop=FFFFFF) |
| [LightSkyBlue](https://www.w3schools.com/colors/color_tryit.asp?color=LightSkyBlue) | [#87CEFA](https://www.w3schools.com/colors/color_tryit.asp?hex=87CEFA) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=87CEFA) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=87CEFA&colortop=FFFFFF) |
| [SkyBlue](https://www.w3schools.com/colors/color_tryit.asp?color=SkyBlue) | [#87CEEB](https://www.w3schools.com/colors/color_tryit.asp?hex=87CEEB) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=87CEEB) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=87CEEB&colortop=FFFFFF) |
| [CornflowerBlue](https://www.w3schools.com/colors/color_tryit.asp?color=CornflowerBlue) | [#6495ED](https://www.w3schools.com/colors/color_tryit.asp?hex=6495ED) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=6495ED) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=6495ED&colortop=FFFFFF) |
| [DeepSkyBlue](https://www.w3schools.com/colors/color_tryit.asp?color=DeepSkyBlue) | [#00BFFF](https://www.w3schools.com/colors/color_tryit.asp?hex=00BFFF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00BFFF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00BFFF&colortop=FFFFFF) |
| [DodgerBlue](https://www.w3schools.com/colors/color_tryit.asp?color=DodgerBlue) | [#1E90FF](https://www.w3schools.com/colors/color_tryit.asp?hex=1E90FF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=1E90FF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=1E90FF&colortop=FFFFFF) |
| [RoyalBlue](https://www.w3schools.com/colors/color_tryit.asp?color=RoyalBlue) | [#4169E1](https://www.w3schools.com/colors/color_tryit.asp?hex=4169E1) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=4169E1) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=4169E1&colortop=FFFFFF) |
| [Blue](https://www.w3schools.com/colors/color_tryit.asp?color=Blue) | [#0000FF](https://www.w3schools.com/colors/color_tryit.asp?hex=0000FF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=0000FF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=0000FF&colortop=FFFFFF) |
| [MediumBlue](https://www.w3schools.com/colors/color_tryit.asp?color=MediumBlue) | [#0000CD](https://www.w3schools.com/colors/color_tryit.asp?hex=0000CD) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=0000CD) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=0000CD&colortop=FFFFFF) |
| [DarkBlue](https://www.w3schools.com/colors/color_tryit.asp?color=DarkBlue) | [#00008B](https://www.w3schools.com/colors/color_tryit.asp?hex=00008B) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=00008B) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=00008B&colortop=FFFFFF) |
| [Navy](https://www.w3schools.com/colors/color_tryit.asp?color=Navy) | [#000080](https://www.w3schools.com/colors/color_tryit.asp?hex=000080) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=000080) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=000080&colortop=FFFFFF) |
| [MidnightBlue](https://www.w3schools.com/colors/color_tryit.asp?color=MidnightBlue) | [#191970](https://www.w3schools.com/colors/color_tryit.asp?hex=191970) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=191970) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=191970&colortop=FFFFFF) |
| Brown Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Cornsilk](https://www.w3schools.com/colors/color_tryit.asp?color=Cornsilk) | [#FFF8DC](https://www.w3schools.com/colors/color_tryit.asp?hex=FFF8DC) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFF8DC) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFF8DC&colortop=FFFFFF) |
| [BlanchedAlmond](https://www.w3schools.com/colors/color_tryit.asp?color=BlanchedAlmond) | [#FFEBCD](https://www.w3schools.com/colors/color_tryit.asp?hex=FFEBCD) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFEBCD) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFEBCD&colortop=FFFFFF) |
| [Bisque](https://www.w3schools.com/colors/color_tryit.asp?color=Bisque) | [#FFE4C4](https://www.w3schools.com/colors/color_tryit.asp?hex=FFE4C4) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFE4C4) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFE4C4&colortop=FFFFFF) |
| [NavajoWhite](https://www.w3schools.com/colors/color_tryit.asp?color=NavajoWhite) | [#FFDEAD](https://www.w3schools.com/colors/color_tryit.asp?hex=FFDEAD) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFDEAD) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFDEAD&colortop=FFFFFF) |
| [Wheat](https://www.w3schools.com/colors/color_tryit.asp?color=Wheat) | [#F5DEB3](https://www.w3schools.com/colors/color_tryit.asp?hex=F5DEB3) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F5DEB3) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F5DEB3&colortop=FFFFFF) |
| [BurlyWood](https://www.w3schools.com/colors/color_tryit.asp?color=BurlyWood) | [#DEB887](https://www.w3schools.com/colors/color_tryit.asp?hex=DEB887) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=DEB887) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=DEB887&colortop=FFFFFF) |
| [Tan](https://www.w3schools.com/colors/color_tryit.asp?color=Tan) | [#D2B48C](https://www.w3schools.com/colors/color_tryit.asp?hex=D2B48C) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=D2B48C) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=D2B48C&colortop=FFFFFF) |
| [RosyBrown](https://www.w3schools.com/colors/color_tryit.asp?color=RosyBrown) | [#BC8F8F](https://www.w3schools.com/colors/color_tryit.asp?hex=BC8F8F) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=BC8F8F) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=BC8F8F&colortop=FFFFFF) |
| [SandyBrown](https://www.w3schools.com/colors/color_tryit.asp?color=SandyBrown) | [#F4A460](https://www.w3schools.com/colors/color_tryit.asp?hex=F4A460) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F4A460) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F4A460&colortop=FFFFFF) |
| [GoldenRod](https://www.w3schools.com/colors/color_tryit.asp?color=GoldenRod) | [#DAA520](https://www.w3schools.com/colors/color_tryit.asp?hex=DAA520) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=DAA520) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=DAA520&colortop=FFFFFF) |
| [DarkGoldenRod](https://www.w3schools.com/colors/color_tryit.asp?color=DarkGoldenRod) | [#B8860B](https://www.w3schools.com/colors/color_tryit.asp?hex=B8860B) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=B8860B) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=B8860B&colortop=FFFFFF) |
| [Peru](https://www.w3schools.com/colors/color_tryit.asp?color=Peru) | [#CD853F](https://www.w3schools.com/colors/color_tryit.asp?hex=CD853F) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=CD853F) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=CD853F&colortop=FFFFFF) |
| [Chocolate](https://www.w3schools.com/colors/color_tryit.asp?color=Chocolate) | [#D2691E](https://www.w3schools.com/colors/color_tryit.asp?hex=D2691E) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=D2691E) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=D2691E&colortop=FFFFFF) |
| [Olive](https://www.w3schools.com/colors/color_tryit.asp?color=Olive) | [#808000](https://www.w3schools.com/colors/color_tryit.asp?hex=808000) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=808000) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=808000&colortop=FFFFFF) |
| [SaddleBrown](https://www.w3schools.com/colors/color_tryit.asp?color=SaddleBrown) | [#8B4513](https://www.w3schools.com/colors/color_tryit.asp?hex=8B4513) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=8B4513) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=8B4513&colortop=FFFFFF) |
| [Sienna](https://www.w3schools.com/colors/color_tryit.asp?color=Sienna) | [#A0522D](https://www.w3schools.com/colors/color_tryit.asp?hex=A0522D) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=A0522D) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=A0522D&colortop=FFFFFF) |
| [Brown](https://www.w3schools.com/colors/color_tryit.asp?color=Brown) | [#A52A2A](https://www.w3schools.com/colors/color_tryit.asp?hex=A52A2A) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=A52A2A) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=A52A2A&colortop=FFFFFF) |
| [Maroon](https://www.w3schools.com/colors/color_tryit.asp?color=Maroon) | [#800000](https://www.w3schools.com/colors/color_tryit.asp?hex=800000) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=800000) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=800000&colortop=FFFFFF) |
| White Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [White](https://www.w3schools.com/colors/color_tryit.asp?color=White) | [#FFFFFF](https://www.w3schools.com/colors/color_tryit.asp?hex=FFFFFF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFFFFF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFFFFF&colortop=FFFFFF) |
| [Snow](https://www.w3schools.com/colors/color_tryit.asp?color=Snow) | [#FFFAFA](https://www.w3schools.com/colors/color_tryit.asp?hex=FFFAFA) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFFAFA) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFFAFA&colortop=FFFFFF) |
| [HoneyDew](https://www.w3schools.com/colors/color_tryit.asp?color=HoneyDew) | [#F0FFF0](https://www.w3schools.com/colors/color_tryit.asp?hex=F0FFF0) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F0FFF0) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F0FFF0&colortop=FFFFFF) |
| [MintCream](https://www.w3schools.com/colors/color_tryit.asp?color=MintCream) | [#F5FFFA](https://www.w3schools.com/colors/color_tryit.asp?hex=F5FFFA) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F5FFFA) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F5FFFA&colortop=FFFFFF) |
| [Azure](https://www.w3schools.com/colors/color_tryit.asp?color=Azure) | [#F0FFFF](https://www.w3schools.com/colors/color_tryit.asp?hex=F0FFFF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F0FFFF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F0FFFF&colortop=FFFFFF) |
| [AliceBlue](https://www.w3schools.com/colors/color_tryit.asp?color=AliceBlue) | [#F0F8FF](https://www.w3schools.com/colors/color_tryit.asp?hex=F0F8FF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F0F8FF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F0F8FF&colortop=FFFFFF) |
| [GhostWhite](https://www.w3schools.com/colors/color_tryit.asp?color=GhostWhite) | [#F8F8FF](https://www.w3schools.com/colors/color_tryit.asp?hex=F8F8FF) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F8F8FF) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F8F8FF&colortop=FFFFFF) |
| [WhiteSmoke](https://www.w3schools.com/colors/color_tryit.asp?color=WhiteSmoke) | [#F5F5F5](https://www.w3schools.com/colors/color_tryit.asp?hex=F5F5F5) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F5F5F5) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F5F5F5&colortop=FFFFFF) |
| [SeaShell](https://www.w3schools.com/colors/color_tryit.asp?color=SeaShell) | [#FFF5EE](https://www.w3schools.com/colors/color_tryit.asp?hex=FFF5EE) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFF5EE) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFF5EE&colortop=FFFFFF) |
| [Beige](https://www.w3schools.com/colors/color_tryit.asp?color=Beige) | [#F5F5DC](https://www.w3schools.com/colors/color_tryit.asp?hex=F5F5DC) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=F5F5DC) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=F5F5DC&colortop=FFFFFF) |
| [OldLace](https://www.w3schools.com/colors/color_tryit.asp?color=OldLace) | [#FDF5E6](https://www.w3schools.com/colors/color_tryit.asp?hex=FDF5E6) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FDF5E6) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FDF5E6&colortop=FFFFFF) |
| [FloralWhite](https://www.w3schools.com/colors/color_tryit.asp?color=FloralWhite) | [#FFFAF0](https://www.w3schools.com/colors/color_tryit.asp?hex=FFFAF0) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFFAF0) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFFAF0&colortop=FFFFFF) |
| [Ivory](https://www.w3schools.com/colors/color_tryit.asp?color=Ivory) | [#FFFFF0](https://www.w3schools.com/colors/color_tryit.asp?hex=FFFFF0) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFFFF0) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFFFF0&colortop=FFFFFF) |
| [AntiqueWhite](https://www.w3schools.com/colors/color_tryit.asp?color=AntiqueWhite) | [#FAEBD7](https://www.w3schools.com/colors/color_tryit.asp?hex=FAEBD7) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FAEBD7) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FAEBD7&colortop=FFFFFF) |
| [Linen](https://www.w3schools.com/colors/color_tryit.asp?color=Linen) | [#FAF0E6](https://www.w3schools.com/colors/color_tryit.asp?hex=FAF0E6) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FAF0E6) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FAF0E6&colortop=FFFFFF) |
| [LavenderBlush](https://www.w3schools.com/colors/color_tryit.asp?color=LavenderBlush) | [#FFF0F5](https://www.w3schools.com/colors/color_tryit.asp?hex=FFF0F5) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFF0F5) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFF0F5&colortop=FFFFFF) |
| [MistyRose](https://www.w3schools.com/colors/color_tryit.asp?color=MistyRose) | [#FFE4E1](https://www.w3schools.com/colors/color_tryit.asp?hex=FFE4E1) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=FFE4E1) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=FFE4E1&colortop=FFFFFF) |
| Grey Colors | | | | |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Gainsboro](https://www.w3schools.com/colors/color_tryit.asp?color=Gainsboro) | [#DCDCDC](https://www.w3schools.com/colors/color_tryit.asp?hex=DCDCDC) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=DCDCDC) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=DCDCDC&colortop=FFFFFF) |
| [LightGray](https://www.w3schools.com/colors/color_tryit.asp?color=LightGray) | [#D3D3D3](https://www.w3schools.com/colors/color_tryit.asp?hex=D3D3D3) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=D3D3D3) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=D3D3D3&colortop=FFFFFF) |
| [Silver](https://www.w3schools.com/colors/color_tryit.asp?color=Silver) | [#C0C0C0](https://www.w3schools.com/colors/color_tryit.asp?hex=C0C0C0) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=C0C0C0) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=C0C0C0&colortop=FFFFFF) |
| [DarkGray](https://www.w3schools.com/colors/color_tryit.asp?color=DarkGray) | [#A9A9A9](https://www.w3schools.com/colors/color_tryit.asp?hex=A9A9A9) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=A9A9A9) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=A9A9A9&colortop=FFFFFF) |
| [DimGray](https://www.w3schools.com/colors/color_tryit.asp?color=DimGray) | [#696969](https://www.w3schools.com/colors/color_tryit.asp?hex=696969) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=696969) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=696969&colortop=FFFFFF) |
| [Gray](https://www.w3schools.com/colors/color_tryit.asp?color=Gray) | [#808080](https://www.w3schools.com/colors/color_tryit.asp?hex=808080) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=808080) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=808080&colortop=FFFFFF) |
| [LightSlateGray](https://www.w3schools.com/colors/color_tryit.asp?color=LightSlateGray) | [#778899](https://www.w3schools.com/colors/color_tryit.asp?hex=778899) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=778899) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=778899&colortop=FFFFFF) |
| [SlateGray](https://www.w3schools.com/colors/color_tryit.asp?color=SlateGray) | [#708090](https://www.w3schools.com/colors/color_tryit.asp?hex=708090) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=708090) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=708090&colortop=FFFFFF) |
| [DarkSlateGray](https://www.w3schools.com/colors/color_tryit.asp?color=DarkSlateGray) | [#2F4F4F](https://www.w3schools.com/colors/color_tryit.asp?hex=2F4F4F) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=2F4F4F) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=2F4F4F&colortop=FFFFFF) |
| [Black](https://www.w3schools.com/colors/color_tryit.asp?color=Black) | [#000000](https://www.w3schools.com/colors/color_tryit.asp?hex=000000) |  | [Shades](https://www.w3schools.com/colors/colors_picker.asp?colorhex=000000) | [Mix](https://www.w3schools.com/colors/colors_mixer.asp?colorbottom=000000&colortop=FFFFFF) |

# 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()](https://www.w3schools.com/tags/av_met_addtexttrack.asp) | Adds a new text track to the audio/video |
| [canPlayType()](https://www.w3schools.com/tags/av_met_canplaytype.asp) | Checks if the browser can play the specified audio/video type |
| [load()](https://www.w3schools.com/tags/av_met_load.asp) | Re-loads the audio/video element |
| [play()](https://www.w3schools.com/tags/av_met_play.asp) | Starts playing the audio/video |
| [pause()](https://www.w3schools.com/tags/av_met_pause.asp) | Pauses the currently playing audio/video |

## HTML Audio/Video Properties

|  |  |
| --- | --- |
| Property | Description |
| [audioTracks](https://www.w3schools.com/tags/av_prop_audiotracks.asp) | Returns an AudioTrackList object representing available audio tracks |
| [autoplay](https://www.w3schools.com/tags/av_prop_autoplay.asp) | Sets or returns whether the audio/video should start playing as soon as it is loaded |
| [buffered](https://www.w3schools.com/tags/av_prop_buffered.asp) | Returns a TimeRanges object representing the buffered parts of the audio/video |
| [controller](https://www.w3schools.com/tags/av_prop_controller.asp) | Returns the MediaController object representing the current media controller of the audio/video |
| [controls](https://www.w3schools.com/tags/av_prop_controls.asp) | 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](https://www.w3schools.com/tags/av_prop_currentsrc.asp) | Returns the URL of the current audio/video |
| [currentTime](https://www.w3schools.com/tags/av_prop_currenttime.asp) | Sets or returns the current playback position in the audio/video (in seconds) |
| [defaultMuted](https://www.w3schools.com/tags/av_prop_defaultmuted.asp) | Sets or returns whether the audio/video should be muted by default |
| [defaultPlaybackRate](https://www.w3schools.com/tags/av_prop_defaultplaybackrate.asp) | Sets or returns the default speed of the audio/video playback |
| [duration](https://www.w3schools.com/tags/av_prop_duration.asp) | Returns the length of the current audio/video (in seconds) |
| [ended](https://www.w3schools.com/tags/av_prop_ended.asp) | Returns whether the playback of the audio/video has ended or not |
| [error](https://www.w3schools.com/tags/av_prop_error.asp) | Returns a MediaError object representing the error state of the audio/video |
| [loop](https://www.w3schools.com/tags/av_prop_loop.asp) | Sets or returns whether the audio/video should start over again when finished |
| [mediaGroup](https://www.w3schools.com/tags/av_prop_mediagroup.asp) | Sets or returns the group the audio/video belongs to (used to link multiple audio/video elements) |
| [muted](https://www.w3schools.com/tags/av_prop_muted.asp) | Sets or returns whether the audio/video is muted or not |
| [networkState](https://www.w3schools.com/tags/av_prop_networkstate.asp) | Returns the current network state of the audio/video |
| [paused](https://www.w3schools.com/tags/av_prop_paused.asp) | Returns whether the audio/video is paused or not |
| [playbackRate](https://www.w3schools.com/tags/av_prop_playbackrate.asp) | Sets or returns the speed of the audio/video playback |
| [played](https://www.w3schools.com/tags/av_prop_played.asp) | Returns a TimeRanges object representing the played parts of the audio/video |
| [preload](https://www.w3schools.com/tags/av_prop_preload.asp) | Sets or returns whether the audio/video should be loaded when the page loads |
| [readyState](https://www.w3schools.com/tags/av_prop_readystate.asp) | Returns the current ready state of the audio/video |
| [seekable](https://www.w3schools.com/tags/av_prop_seekable.asp) | Returns a TimeRanges object representing the seekable parts of the audio/video |
| [seeking](https://www.w3schools.com/tags/av_prop_seeking.asp) | Returns whether the user is currently seeking in the audio/video |
| [src](https://www.w3schools.com/tags/av_prop_src.asp) | Sets or returns the current source of the audio/video element |
| [startDate](https://www.w3schools.com/tags/av_prop_startdate.asp) | Returns a Date object representing the current time offset |
| [textTracks](https://www.w3schools.com/tags/av_prop_texttracks.asp) | Returns a TextTrackList object representing the available text tracks |
| [videoTracks](https://www.w3schools.com/tags/av_prop_videotracks.asp) | Returns a VideoTrackList object representing the available video tracks |
| [volume](https://www.w3schools.com/tags/av_prop_volume.asp) | Sets or returns the volume of the audio/video |

## HTML Audio/Video Events

|  |  |
| --- | --- |
| Event | Description |
| [abort](https://www.w3schools.com/tags/av_event_abort.asp) | Fires when the loading of an audio/video is aborted |
| [canplay](https://www.w3schools.com/tags/av_event_canplay.asp) | Fires when the browser can start playing the audio/video |
| [canplaythrough](https://www.w3schools.com/tags/av_event_canplaythrough.asp) | Fires when the browser can play through the audio/video without stopping for buffering |
| [durationchange](https://www.w3schools.com/tags/av_event_durationchange.asp) | Fires when the duration of the audio/video is changed |
| emptied | Fires when the current playlist is empty |
| [ended](https://www.w3schools.com/tags/av_event_ended.asp) | Fires when the current playlist is ended |
| [error](https://www.w3schools.com/tags/av_event_error.asp) | Fires when an error occurred during the loading of an audio/video |
| [loadeddata](https://www.w3schools.com/tags/av_event_loadeddata.asp) | Fires when the browser has loaded the current frame of the audio/video |
| [loadedmetadata](https://www.w3schools.com/tags/av_event_loadedmetadata.asp) | Fires when the browser has loaded meta data for the audio/video |
| [loadstart](https://www.w3schools.com/tags/av_event_loadstart.asp) | Fires when the browser starts looking for the audio/video |
| [pause](https://www.w3schools.com/tags/av_event_pause.asp) | Fires when the audio/video has been paused |
| [play](https://www.w3schools.com/tags/av_event_play.asp) | Fires when the audio/video has been started or is no longer paused |
| [playing](https://www.w3schools.com/tags/av_event_playing.asp) | Fires when the audio/video is playing after having been paused or stopped for buffering |
| [progress](https://www.w3schools.com/tags/av_event_progress.asp) | Fires when the browser is downloading the audio/video |
| [ratechange](https://www.w3schools.com/tags/av_event_ratechange.asp) | Fires when the playing speed of the audio/video is changed |
| [seeked](https://www.w3schools.com/tags/av_event_seeked.asp) | Fires when the user is finished moving/skipping to a new position in the audio/video |
| [seeking](https://www.w3schools.com/tags/av_event_seeking.asp) | Fires when the user starts moving/skipping to a new position in the audio/video |
| [stalled](https://www.w3schools.com/tags/av_event_stalled.asp) | Fires when the browser is trying to get media data, but data is not available |
| [suspend](https://www.w3schools.com/tags/av_event_suspend.asp) | Fires when the browser is intentionally not getting media data |
| [timeupdate](https://www.w3schools.com/tags/av_event_timeupdate.asp) | Fires when the current playback position has changed |
| [volumechange](https://www.w3schools.com/tags/av_event_volumechange.asp) | Fires when the volume has been changed |
| [waiting](https://www.w3schools.com/tags/av_event_waiting.asp) | Fires when the video stops because it needs to buffer the next frame |

# HTML Character Sets

What is the correct character encoding to use in HTML?

**For HTML5, the default character encoding is UTF-8.**

This has not always been the case. The character encoding for the early web was ASCII.

Later, from HTML 2.0 to HTML 4.01, ISO-8859-1 was considered the standard.

With XML and HTML5, UTF-8 finally arrived, and solved a lot of character encoding problems.

Below is a brief description of the character encoding standards.

## In the Beginning: ASCII

Computer information (numbers, texts, and pictures) is stored as binary ones and zeros (01000101) in the electronics.

To standardize the storing of alphanumeric characters, the American Standard Code for Information Interchange (ASCII) was created. It defined a unique binary 7-bits number for each storable character to support the numbers from 0-9, the upper/lower case English alphabet (a-z, A-Z), and some special characters like ! $ + - ( ) @ < > .

Since ASCII used one byte (7 bits for the character, and one of bit for transmission parity control), it could only represent 128 different characters. In addition 32 of these characters were reserved for other control purposes.

The biggest weakness with ASCII was that it excluded non English letters.

ASCII is still in widespread use today, especially in large mainframe computer systems.

### ASCII Printable Characters

|  |  |  |
| --- | --- | --- |
| Char | Number | Description |
|  | 0 - 31 | Control characters (see below) |
|  | 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 |
| . | 46 | period |
| / | 47 | slash |
| 0 | 48 | digit 0 |
| 1 | 49 | digit 1 |
| 2 | 50 | digit 2 |
| 3 | 51 | digit 3 |
| 4 | 52 | digit 4 |
| 5 | 53 | digit 5 |
| 6 | 54 | digit 6 |
| 7 | 55 | digit 7 |
| 8 | 56 | digit 8 |
| 9 | 57 | digit 9 |
| : | 58 | colon |
| ; | 59 | semicolon |
| < | 60 | less-than |
| = | 61 | equals-to |
| > | 62 | greater-than |
| ? | 63 | question mark |
| @ | 64 | at sign |
| A | 65 | uppercase A |
| B | 66 | uppercase B |
| C | 67 | uppercase C |
| D | 68 | uppercase D |
| E | 69 | uppercase E |
| F | 70 | uppercase F |
| G | 71 | uppercase G |
| H | 72 | uppercase H |
| I | 73 | uppercase I |
| J | 74 | uppercase J |
| K | 75 | uppercase K |
| L | 76 | uppercase L |
| M | 77 | uppercase M |
| N | 78 | uppercase N |
| O | 79 | uppercase O |
| P | 80 | uppercase P |
| Q | 81 | uppercase Q |
| R | 82 | uppercase R |
| S | 83 | uppercase S |
| T | 84 | uppercase T |
| U | 85 | uppercase U |
| V | 86 | uppercase V |
| W | 87 | uppercase W |
| X | 88 | uppercase X |
| Y | 89 | uppercase Y |
| Z | 90 | uppercase Z |
| [ | 91 | left square bracket |
| \ | 92 | backslash |
| ] | 93 | right square bracket |
| ^ | 94 | caret |
| \_ | 95 | underscore |
| ` | 96 | grave accent |
| a | 97 | lowercase a |
| b | 98 | lowercase b |
| c | 99 | lowercase c |
| d | 100 | lowercase d |
| e | 101 | lowercase e |
| f | 102 | lowercase f |
| g | 103 | lowercase g |
| h | 104 | lowercase h |
| i | 105 | lowercase i |
| j | 106 | lowercase j |
| k | 107 | lowercase k |
| l | 108 | lowercase l |
| m | 109 | lowercase m |
| n | 110 | lowercase n |
| o | 111 | lowercase o |
| p | 112 | lowercase p |
| q | 113 | lowercase q |
| r | 114 | lowercase r |
| s | 115 | lowercase s |
| t | 116 | lowercase t |
| u | 117 | lowercase u |
| v | 118 | lowercase v |
| w | 119 | lowercase w |
| x | 120 | lowercase x |
| y | 121 | lowercase y |
| z | 122 | lowercase z |
| { | 123 | left curly brace |
| | | 124 | vertical bar |
| } | 125 | right curly brace |
| ~ | 126 | tilde |

### ASCII Device Control Characters

The ASCII control characters (range 00-31, plus 127) were designed to control hardware devices.

Control characters (except horizontal tab, line feed, and carriage return) have nothing to do inside an HTML document.

|  |  |  |
| --- | --- | --- |
| Char | Number | Description |
| NUL | 00 | null character |
| SOH | 01 | start of header |
| STX | 02 | start of text |
| ETX | 03 | end of text |
| EOT | 04 | end of transmission |
| ENQ | 05 | enquiry |
| ACK | 06 | acknowledge |
| BEL | 07 | bell (ring) |
| BS | 08 | backspace |
| HT | 09 | horizontal tab |
| LF | 10 | line feed |
| VT | 11 | vertical tab |
| FF | 12 | form feed |
| CR | 13 | carriage return |
| SO | 14 | shift out |
| SI | 15 | shift in |
| DLE | 16 | data link escape |
| DC1 | 17 | device control 1 |
| DC2 | 18 | device control 2 |
| DC3 | 19 | device control 3 |
| DC4 | 20 | device control 4 |
| NAK | 21 | negative acknowledge |
| SYN | 22 | synchronize |
| ETB | 23 | end transmission block |
| CAN | 24 | cancel |
| EM | 25 | end of medium |
| SUB | 26 | substitute |
| ESC | 27 | escape |
| FS | 28 | file separator |
| GS | 29 | group separator |
| RS | 30 | record separator |
| US | 31 | unit separator |
|  |  |  |
| DEL | 127 | delete (rubout) |

## In Windows: ANSI

ANSI (also called Windows-1252) was the default character set in Windows, up to Windows 95.

ANSI is an extension to ASCII, with added international characters. It uses a full byte (8-bits) to represent 256 different characters.

Since ANSI has been the default character set in Windows, it is supported by all browsers.

### The ANSI (Windows-1252) Character Set

|  |  |  |  |
| --- | --- | --- | --- |
| Character | Number | Entity Name | Description |
|  | 0 - 31 |  | Control characters (see below) |
|  | 32 |  | space |
| ! | 33 |  | exclamation mark |
| " | 34 | &quot; | quotation mark |
| # | 35 |  | number sign |
| $ | 36 |  | dollar sign |
| % | 37 |  | percent sign |
| & | 38 | &amp; | ampersand |
| ' | 39 |  | apostrophe |
| ( | 40 |  | left parenthesis |
| ) | 41 |  | right parenthesis |
| \* | 42 |  | asterisk |
| + | 43 |  | plus sign |
| , | 44 |  | comma |
| - | 45 |  | hyphen-minus |
| . | 46 |  | full stop |
| / | 47 |  | solidus |
| 0 | 48 |  | digit zero |
| 1 | 49 |  | digit one |
| 2 | 50 |  | digit two |
| 3 | 51 |  | digit three |
| 4 | 52 |  | digit four |
| 5 | 53 |  | digit five |
| 6 | 54 |  | digit six |
| 7 | 55 |  | digit seven |
| 8 | 56 |  | digit eight |
| 9 | 57 |  | digit nine |
| : | 58 |  | colon |
| ; | 59 |  | semicolon |
| < | 60 | &lt; | less-than sign |
| = | 61 |  | equals sign |
| > | 62 | &gt; | greater-than sign |
| ? | 63 |  | question mark |
| @ | 64 |  | commercial at |
| A | 65 |  | Latin capital letter A |
| B | 66 |  | Latin capital letter B |
| C | 67 |  | Latin capital letter C |
| D | 68 |  | Latin capital letter D |
| E | 69 |  | Latin capital letter E |
| F | 70 |  | Latin capital letter F |
| G | 71 |  | Latin capital letter G |
| H | 72 |  | Latin capital letter H |
| I | 73 |  | Latin capital letter I |
| J | 74 |  | Latin capital letter J |
| K | 75 |  | Latin capital letter K |
| L | 76 |  | Latin capital letter L |
| M | 77 |  | Latin capital letter M |
| N | 78 |  | Latin capital letter N |
| O | 79 |  | Latin capital letter O |
| P | 80 |  | Latin capital letter P |
| Q | 81 |  | Latin capital letter Q |
| R | 82 |  | Latin capital letter R |
| S | 83 |  | Latin capital letter S |
| T | 84 |  | Latin capital letter T |
| U | 85 |  | Latin capital letter U |
| V | 86 |  | Latin capital letter V |
| W | 87 |  | Latin capital letter W |
| X | 88 |  | Latin capital letter X |
| Y | 89 |  | Latin capital letter Y |
| Z | 90 |  | Latin capital letter Z |
| [ | 91 |  | left square bracket |
| \ | 92 |  | reverse solidus |
| ] | 93 |  | right square bracket |
| ^ | 94 |  | circumflex accent |
| \_ | 95 |  | low line |
| ` | 96 |  | grave accent |
| a | 97 |  | Latin small letter a |
| b | 98 |  | Latin small letter b |
| c | 99 |  | Latin small letter c |
| d | 100 |  | Latin small letter d |
| e | 101 |  | Latin small letter e |
| f | 102 |  | Latin small letter f |
| g | 103 |  | Latin small letter g |
| h | 104 |  | Latin small letter h |
| i | 105 |  | Latin small letter i |
| j | 106 |  | Latin small letter j |
| k | 107 |  | Latin small letter k |
| l | 108 |  | Latin small letter l |
| m | 109 |  | Latin small letter m |
| n | 110 |  | Latin small letter n |
| o | 111 |  | Latin small letter o |
| p | 112 |  | Latin small letter p |
| q | 113 |  | Latin small letter q |
| r | 114 |  | Latin small letter r |
| s | 115 |  | Latin small letter s |
| t | 116 |  | Latin small letter t |
| u | 117 |  | Latin small letter u |
| v | 118 |  | Latin small letter v |
| w | 119 |  | Latin small letter w |
| x | 120 |  | Latin small letter x |
| y | 121 |  | Latin small letter y |
| z | 122 |  | Latin small letter z |
| { | 123 |  | left curly bracket |
| | | 124 |  | vertical line |
| } | 125 |  | right curly bracket |
| ~ | 126 |  | tilde |
|  | 127 |  | Control character (see below) |
| € | 128 | &euro; | euro sign |
|  | 129 |  | NOT USED |
| ‚ | 130 | &sbquo; | single low-9 quotation mark |
| ƒ | 131 | &fnof; | Latin small letter f with hook |
| „ | 132 | &bdquo; | double low-9 quotation mark |
| … | 133 | &hellip; | horizontal ellipsis |
| † | 134 | &dagger; | dagger |
| ‡ | 135 | &Dagger; | double dagger |
| ˆ | 136 | &circ; | modifier letter circumflex accent |
| ‰ | 137 | &permil; | per mille sign |
| Š | 138 | &Scaron; | Latin capital letter S with caron |
| ‹ | 139 | &lsaquo; | single left-pointing angle quotation mark |
| Œ | 140 | &OElig; | Latin capital ligature OE |
|  | 141 |  | NOT USED |
| Ž | 142 | &Zcaron; | Latin capital letter Z with caron |
|  | 143 |  | NOT USED |
|  | 144 |  | NOT USED |
| ‘ | 145 | &lsquo; | left single quotation mark |
| ’ | 146 | &rsquo; | right single quotation mark |
| “ | 147 | &ldquo; | left double quotation mark |
| ” | 148 | &rdquo; | right double quotation mark |
| • | 149 | &bull; | bullet |
| – | 150 | &ndash; | en dash |
| — | 151 | &mdash; | em dash |
| ˜ | 152 | &tilde; | small tilde |
| ™ | 153 | &trade; | trade mark sign |
| š | 154 | &scaron; | Latin small letter s with caron |
| › | 155 | &rsaquo; | single right-pointing angle quotation mark |
| œ | 156 | &oelig; | Latin small ligature oe |
|  | 157 |  | NOT USED |
| ž | 158 | &zcaron; | Latin small letter z with caron |
| Ÿ | 159 | &Yuml; | Latin capital letter Y with diaeresis |
|  | 160 | &nbsp; | no-break space |
| ¡ | 161 | &iexcl; | inverted exclamation mark |
| ¢ | 162 | &cent; | cent sign |
| £ | 163 | &pound; | pound sign |
| ¤ | 164 | &curren; | currency sign |
| ¥ | 165 | &yen; | yen sign |
| ¦ | 166 | &brvbar; | broken bar |
| § | 167 | &sect; | section sign |
| ¨ | 168 | &uml; | diaeresis |
| © | 169 | &copy; | copyright sign |
| ª | 170 | &ordf; | feminine ordinal indicator |
| « | 171 | &laquo; | left-pointing double angle quotation mark |
| ¬ | 172 | &not; | not sign |
| �­ | 173 | &shy; | soft hyphen |
| ® | 174 | &reg; | registered sign |
| ¯ | 175 | &macr; | macron |
| ° | 176 | &deg; | degree sign |
| ± | 177 | &plusmn; | plus-minus sign |
| ² | 178 | &sup2; | superscript two |
| ³ | 179 | &sup3; | superscript three |
| ´ | 180 | &acute; | acute accent |
| µ | 181 | &micro; | micro sign |
| ¶ | 182 | &para; | pilcrow sign |
| · | 183 | &middot; | middle dot |
| ¸ | 184 | &cedil; | cedilla |
| ¹ | 185 | &sup1; | superscript one |
| º | 186 | &ordm; | masculine ordinal indicator |
| » | 187 | &raquo; | right-pointing double angle quotation mark |
| ¼ | 188 | &frac14; | vulgar fraction one quarter |
| ½ | 189 | &frac12; | vulgar fraction one half |
| ¾ | 190 | &frac34; | vulgar fraction three quarters |
| ¿ | 191 | &iquest; | inverted question mark |
| À | 192 | &Agrave; | Latin capital letter A with grave |
| Á | 193 | &Aacute; | Latin capital letter A with acute |
| Â | 194 | &Acirc; | Latin capital letter A with circumflex |
| Ã | 195 | &Atilde; | Latin capital letter A with tilde |
| Ä | 196 | &Auml; | Latin capital letter A with diaeresis |
| Å | 197 | &Aring; | Latin capital letter A with ring above |
| Æ | 198 | &AElig; | Latin capital letter AE |
| Ç | 199 | &Ccedil; | Latin capital letter C with cedilla |
| È | 200 | &Egrave; | Latin capital letter E with grave |
| É | 201 | &Eacute; | Latin capital letter E with acute |
| Ê | 202 | &Ecirc; | Latin capital letter E with circumflex |
| Ë | 203 | &Euml; | Latin capital letter E with diaeresis |
| Ì | 204 | &Igrave; | Latin capital letter I with grave |
| Í | 205 | &Iacute; | Latin capital letter I with acute |
| Î | 206 | &Icirc; | Latin capital letter I with circumflex |
| Ï | 207 | &Iuml; | Latin capital letter I with diaeresis |
| Ð | 208 | &ETH; | Latin capital letter Eth |
| Ñ | 209 | &Ntilde; | Latin capital letter N with tilde |
| Ò | 210 | &Ograve; | Latin capital letter O with grave |
| Ó | 211 | &Oacute; | Latin capital letter O with acute |
| Ô | 212 | &Ocirc; | Latin capital letter O with circumflex |
| Õ | 213 | &Otilde; | Latin capital letter O with tilde |
| Ö | 214 | &Ouml; | Latin capital letter O with diaeresis |
| × | 215 | &times; | multiplication sign |
| Ø | 216 | &Oslash; | Latin capital letter O with stroke |
| Ù | 217 | &Ugrave; | Latin capital letter U with grave |
| Ú | 218 | &Uacute; | Latin capital letter U with acute |
| Û | 219 | &Ucirc; | Latin capital letter U with circumflex |
| Ü | 220 | &Uuml; | Latin capital letter U with diaeresis |
| Ý | 221 | &Yacute; | Latin capital letter Y with acute |
| Þ | 222 | &THORN; | Latin capital letter Thorn |
| ß | 223 | &szlig; | Latin small letter sharp s |
| à | 224 | &agrave; | Latin small letter a with grave |
| á | 225 | &aacute; | Latin small letter a with acute |
| â | 226 | &acirc; | Latin small letter a with circumflex |
| ã | 227 | &atilde; | Latin small letter a with tilde |
| ä | 228 | &auml; | Latin small letter a with diaeresis |
| å | 229 | &aring; | Latin small letter a with ring above |
| æ | 230 | &aelig; | Latin small letter ae |
| ç | 231 | &ccedil; | Latin small letter c with cedilla |
| è | 232 | &egrave; | Latin small letter e with grave |
| é | 233 | &eacute; | Latin small letter e with acute |
| ê | 234 | &ecirc; | Latin small letter e with circumflex |
| ë | 235 | &euml; | Latin small letter e with diaeresis |
| ì | 236 | &igrave; | Latin small letter i with grave |
| í | 237 | &iacute; | Latin small letter i with acute |
| î | 238 | &icirc; | Latin small letter i with circumflex |
| ï | 239 | &iuml; | Latin small letter i with diaeresis |
| ð | 240 | &eth; | Latin small letter eth |
| ñ | 241 | &ntilde; | Latin small letter n with tilde |
| ò | 242 | &ograve; | Latin small letter o with grave |
| ó | 243 | &oacute; | Latin small letter o with acute |
| ô | 244 | &ocirc; | Latin small letter o with circumflex |
| õ | 245 | &otilde; | Latin small letter o with tilde |
| ö | 246 | &ouml; | Latin small letter o with diaeresis |
| ÷ | 247 | &divide; | division sign |
| ø | 248 | &oslash; | Latin small letter o with stroke |
| ù | 249 | &ugrave; | Latin small letter u with grave |
| ú | 250 | &uacute; | Latin small letter u with acute |
| û | 251 | &ucirc; | Latin small letter with circumflex |
| ü | 252 | &uuml; | Latin small letter u with diaeresis |
| ý | 253 | &yacute; | Latin small letter y with acute |
| þ | 254 | &thorn; | Latin small letter thorn |
| ÿ | 255 | &yuml; | Latin small letter y with diaeresis |

### ANSI Control Characters

The ANSI control characters (range 00-31, plus 127) were designed to control hardware devices.

Control characters (except horizontal tab, line feed, and carriage return) have nothing to do inside an HTML document.

|  |  |  |
| --- | --- | --- |
| Char | Number | Description |
| NUL | 00 | null character |
| SOH | 01 | start of header |
| STX | 02 | start of text |
| ETX | 03 | end of text |
| EOT | 04 | end of transmission |
| ENQ | 05 | enquiry |
| ACK | 06 | acknowledge |
| BEL | 07 | bell (ring) |
| BS | 08 | backspace |
| HT | 09 | horizontal tab |
| LF | 10 | line feed |
| VT | 11 | vertical tab |
| FF | 12 | form feed |
| CR | 13 | carriage return |
| SO | 14 | shift out |
| SI | 15 | shift in |
| DLE | 16 | data link escape |
| DC1 | 17 | device control 1 |
| DC2 | 18 | device control 2 |
| DC3 | 19 | device control 3 |
| DC4 | 20 | device control 4 |
| NAK | 21 | negative acknowledge |
| SYN | 22 | synchronize |
| ETB | 23 | end transmission block |
| CAN | 24 | cancel |
| EM | 25 | end of medium |
| SUB | 26 | substitute |
| ESC | 27 | escape |
| FS | 28 | file separator |
| GS | 29 | group separator |
| RS | 30 | record separator |
| US | 31 | unit separator |
| DEL | 127 | delete (rubout) |

## In HTML 4: ISO-8859-1

Since most countries use characters outside ASCII, the default character encoding in the HTML 2.0 standard was changed to ISO-8859-1.

ISO-8859-1 is an extension to ASCII, with added international characters. Like ANSI, it uses a full byte to represent twice as many characters than ASCII.

|  |
| --- |
| When browsers detect ISO-8859-1 in a web page, they normally default to ANSI, because ANSI is identical to ISO-8859-1 except that ANSI has 32 extra characters. |

If an HTML 4 web page uses a different character-set than ISO-8859-1, it should be specified in the <meta> tag like:

|  |
| --- |
| <meta http-equiv="Content-Type" content="text/html;charset=ISO-8859-8"> |

### ISO-8859-1 Character Set

The first part of ISO-8859-1 (entity numbers from 0-127) is the original ASCII character-set. It contains numbers, upper and lowercase English letters, and some special characters.

|  |  |  |  |
| --- | --- | --- | --- |
| Character | Number | Entity Name | Description |
|  | 0 - 31 |  | Control characters |
|  | 32 |  | space |
| ! | 33 |  | exclamation mark |
| " | 34 | &quot; | quotation mark |
| # | 35 |  | number sign |
| $ | 36 |  | dollar sign |
| % | 37 |  | percent sign |
| & | 38 | &amp; | ampersand |
| ' | 39 |  | apostrophe |
| ( | 40 |  | left parenthesis |
| ) | 41 |  | right parenthesis |
| \* | 42 |  | asterisk |
| + | 43 |  | plus sign |
| , | 44 |  | comma |
| - | 45 |  | hyphen-minus |
| . | 46 |  | full stop |
| / | 47 |  | solidus |
| 0 | 48 |  | digit zero |
| 1 | 49 |  | digit one |
| 2 | 50 |  | digit two |
| 3 | 51 |  | digit three |
| 4 | 52 |  | digit four |
| 5 | 53 |  | digit five |
| 6 | 54 |  | digit six |
| 7 | 55 |  | digit seven |
| 8 | 56 |  | digit eight |
| 9 | 57 |  | digit nine |
| : | 58 |  | colon |
| ; | 59 |  | semicolon |
| < | 60 | &lt; | less-than sign |
| = | 61 |  | equals sign |
| > | 62 | &gt; | greater-than sign |
| ? | 63 |  | question mark |
| @ | 64 |  | commercial at |
| A | 65 |  | Latin capital letter A |
| B | 66 |  | Latin capital letter B |
| C | 67 |  | Latin capital letter C |
| D | 68 |  | Latin capital letter D |
| E | 69 |  | Latin capital letter E |
| F | 70 |  | Latin capital letter F |
| G | 71 |  | Latin capital letter G |
| H | 72 |  | Latin capital letter H |
| I | 73 |  | Latin capital letter I |
| J | 74 |  | Latin capital letter J |
| K | 75 |  | Latin capital letter K |
| L | 76 |  | Latin capital letter L |
| M | 77 |  | Latin capital letter M |
| N | 78 |  | Latin capital letter N |
| O | 79 |  | Latin capital letter O |
| P | 80 |  | Latin capital letter P |
| Q | 81 |  | Latin capital letter Q |
| R | 82 |  | Latin capital letter R |
| S | 83 |  | Latin capital letter S |
| T | 84 |  | Latin capital letter T |
| U | 85 |  | Latin capital letter U |
| V | 86 |  | Latin capital letter V |
| W | 87 |  | Latin capital letter W |
| X | 88 |  | Latin capital letter X |
| Y | 89 |  | Latin capital letter Y |
| Z | 90 |  | Latin capital letter Z |
| [ | 91 |  | left square bracket |
| \ | 92 |  | reverse solidus |
| ] | 93 |  | right square bracket |
| ^ | 94 |  | circumflex accent |
| \_ | 95 |  | low line |
| ` | 96 |  | grave accent |
| a | 97 |  | Latin small letter a |
| b | 98 |  | Latin small letter b |
| c | 99 |  | Latin small letter c |
| d | 100 |  | Latin small letter d |
| e | 101 |  | Latin small letter e |
| f | 102 |  | Latin small letter f |
| g | 103 |  | Latin small letter g |
| h | 104 |  | Latin small letter h |
| i | 105 |  | Latin small letter i |
| j | 106 |  | Latin small letter j |
| k | 107 |  | Latin small letter k |
| l | 108 |  | Latin small letter l |
| m | 109 |  | Latin small letter m |
| n | 110 |  | Latin small letter n |
| o | 111 |  | Latin small letter o |
| p | 112 |  | Latin small letter p |
| q | 113 |  | Latin small letter q |
| r | 114 |  | Latin small letter r |
| s | 115 |  | Latin small letter s |
| t | 116 |  | Latin small letter t |
| u | 117 |  | Latin small letter u |
| v | 118 |  | Latin small letter v |
| w | 119 |  | Latin small letter w |
| x | 120 |  | Latin small letter x |
| y | 121 |  | Latin small letter y |
| z | 122 |  | Latin small letter z |
| { | 123 |  | left curly bracket |
| | | 124 |  | vertical line |
| } | 125 |  | right curly bracket |
| ~ | 126 |  | tilde |
|  | 127 |  | Control character |

### ISO-8859-1 and Windows-1252

ISO-8859-1 is very similar to Windows-1252.

**In ISO-8859-1, the characters from 128 to 159 are not defined.**

In Windows-1252, the characters from 128 to 159 are used for some useful symbols.

Since many web sites declare ISO-8859-1 and use the values from 128 to 159 as if they were using Windows-1252, most browsers will display these characters from the Windows-1252 character set instead of nothing.

|  |  |  |  |
| --- | --- | --- | --- |
| Character | Number | Entity Name | Description |
| € | 128 | &euro; | euro sign |
|  | 129 |  | NOT USED |
| ‚ | 130 | &sbquo; | single low-9 quotation mark |
| ƒ | 131 | &fnof; | Latin small letter f with hook |
| „ | 132 | &bdquo; | double low-9 quotation mark |
| … | 133 | &hellip; | horizontal ellipsis |
| † | 134 | &dagger; | dagger |
| ‡ | 135 | &Dagger; | double dagger |
| ˆ | 136 | &circ; | modifier letter circumflex accent |
| ‰ | 137 | &permil; | per mille sign |
| Š | 138 | &Scaron; | Latin capital letter S with caron |
| ‹ | 139 | &lsaquo; | single left-pointing angle quotation mark |
| Œ | 140 | &OElig; | Latin capital ligature OE |
|  | 141 |  | NOT USED |
| Ž | 142 | &Zcaron; | Latin capital letter Z with caron |
|  | 143 |  | NOT USED |
|  | 144 |  | NOT USED |
| ‘ | 145 | &lsquo; | left single quotation mark |
| ’ | 146 | &rsquo; | right single quotation mark |
| “ | 147 | &ldquo; | left double quotation mark |
| ” | 148 | &rdquo; | right double quotation mark |
| • | 149 | &bull; | bullet |
| – | 150 | &ndash; | en dash |
| — | 151 | &mdash; | em dash |
| ˜ | 152 | &tilde; | small tilde |
| ™ | 153 | &trade; | trade mark sign |
| š | 154 | &scaron; | Latin small letter s with caron |
| › | 155 | &rsaquo; | single right-pointing angle quotation mark |
| œ | 156 | &oelig; | Latin small ligature oe |
|  | 157 |  | NOT USED |
| ž | 158 | &zcaron; | Latin small letter z with caron |
| Ÿ | 159 | &Yuml; | Latin capital letter Y with diaeresis |

### ISO-8859-1 Symbols

The next part of ISO-8859-1 (codes from 160-191) contains commonly used special characters.

|  |  |  |  |
| --- | --- | --- | --- |
| Character | Entity Number | Entity Name | Description |
|  | &#160; | &nbsp; | non-breaking space |
| ¡ | &#161; | &iexcl; | inverted exclamation mark |
| ¢ | &#162; | &cent; | cent |
| £ | &#163; | &pound; | poun |
| ¤ | &#164; | &curren; | currency |
| ¥ | &#165; | &yen; | yen |
| ¦ | &#166; | &brvbar; | broken vertical bar |
| § | &#167; | &sect; | section |
| ¨ | &#168; | &uml; | spacing diaeresis |
| © | &#169; | &copy; | copyright |
| ª | &#170; | &ordf; | feminine ordinal indicator |
| « | &#171; | &laquo; | angle quotation mark (left) |
| ¬ | &#172; | &not; | negation |
|  | &#173; | &shy; | soft hyphen |
| ® | &#174; | &reg; | registered trademark |
| ¯ | &#175; | &macr; | spacing macron |
| ° | &#176; | &deg; | degree |
| ± | &#177; | &plusmn; | plus-or-minus |
| ² | &#178; | &sup2; | superscript 2 |
| ³ | &#179; | &sup3; | superscript 3 |
| ´ | &#180; | &acute; | spacing acute |
| µ | &#181; | &micro; | micro |
| ¶ | &#182; | &para; | paragraph |
| · | &#183; | &middot; | middle dot |
| ¸ | &#184; | &cedil; | spacing cedilla |
| ¹ | &#185; | &sup1; | superscript 1 |
| º | &#186; | &ordm; | masculine ordinal indicator |
| » | &#187; | &raquo; | angle quotation mark (right) |
| ¼ | &#188; | &frac14; | fraction 1/4 |
| ½ | &#189; | &frac12; | fraction 1/2 |
| ¾ | &#190; | &frac34; | fraction 3/4 |
| ¿ | &#191; | &iquest; | inverted question mark |

### ISO-8859-1 Characters

The higher part of ISO-8859-1 (codes from 192-255, except 215 and 247) contains characters used in Western European countries.

|  |  |  |  |
| --- | --- | --- | --- |
| Character | Entity Number | Entity Name | Description |
| À | &#192; | &Agrave; | capital a, grave accent |
| Á | &#193; | &Aacute; | capital a, acute accent |
| Â | &#194; | &Acirc; | capital a, circumflex accent |
| Ã | &#195; | &Atilde; | capital a, tilde |
| Ä | &#196; | &Auml; | capital a, umlaut mark |
| Å | &#197; | &Aring; | capital a, ring |
| Æ | &#198; | &AElig; | capital ae |
| Ç | &#199; | &Ccedil; | capital c, cedilla |
| È | &#200; | &Egrave; | capital e, grave accent |
| É | &#201; | &Eacute; | capital e, acute accent |
| Ê | &#202; | &Ecirc; | capital e, circumflex accent |
| Ë | &#203; | &Euml; | capital e, umlaut mark |
| Ì | &#204; | &Igrave; | capital i, grave accent |
| Í | &#205; | &Iacute; | capital i, acute accent |
| Î | &#206; | &Icirc; | capital i, circumflex accent |
| Ï | &#207; | &Iuml; | capital i, umlaut mark |
| Ð | &#208; | &ETH; | capital eth, Icelandic |
| Ñ | &#209; | &Ntilde; | capital n, tilde |
| Ò | &#210; | &Ograve; | capital o, grave accent |
| Ó | &#211; | &Oacute; | capital o, acute accent |
| Ô | &#212; | &Ocirc; | capital o, circumflex accent |
| Õ | &#213; | &Otilde; | capital o, tilde |
| Ö | &#214; | &Ouml; | capital o, umlaut mark |
| × | &#215; | &times; | multiplication |
| Ø | &#216; | &Oslash; | capital o, slash |
| Ù | &#217; | &Ugrave; | capital u, grave accent |
| Ú | &#218; | &Uacute; | capital u, acute accent |
| Û | &#219; | &Ucirc; | capital u, circumflex accent |
| Ü | &#220; | &Uuml; | capital u, umlaut mark |
| Ý | &#221; | &Yacute; | capital y, acute accent |
| Þ | &#222; | &THORN; | capital THORN, Icelandic |
| ß | &#223; | &szlig; | small sharp s, German |
| à | &#224; | &agrave; | small a, grave accent |
| á | &#225; | &aacute; | small a, acute accent |
| â | &#226; | &acirc; | small a, circumflex accent |
| ã | &#227; | &atilde; | small a, tilde |
| ä | &#228; | &auml; | small a, umlaut mark |
| å | &#229; | &aring; | small a, ring |
| æ | &#230; | &aelig; | small ae |
| ç | &#231; | &ccedil; | small c, cedilla |
| è | &#232; | &egrave; | small e, grave accent |
| é | &#233; | &eacute; | small e, acute accent |
| ê | &#234; | &ecirc; | small e, circumflex accent |
| ë | &#235; | &euml; | small e, umlaut mark |
| ì | &#236; | &igrave; | small i, grave accent |
| í | &#237; | &iacute; | small i, acute accent |
| î | &#238; | &icirc; | small i, circumflex accent |
| ï | &#239; | &iuml; | small i, umlaut mark |
| ð | &#240; | &eth; | small eth, Icelandic |
| ñ | &#241; | &ntilde; | small n, tilde |
| ò | &#242; | &ograve; | small o, grave accent |
| ó | &#243; | &oacute; | small o, acute accent |
| ô | &#244; | &ocirc; | small o, circumflex accent |
| õ | &#245; | &otilde; | small o, tilde |
| ö | &#246; | &ouml; | small o, umlaut mark |
| ÷ | &#247; | &divide; | division |
| ø | &#248; | &oslash; | small o, slash |
| ù | &#249; | &ugrave; | small u, grave accent |
| ú | &#250; | &uacute; | small u, acute accent |
| û | &#251; | &ucirc; | small u, circumflex accent |
| ü | &#252; | &uuml; | small u, umlaut mark |
| ý | &#253; | &yacute; | small y, acute accent |
| þ | &#254; | &thorn; | small thorn, Icelandic |
| ÿ | &#255; | &yuml; | small y, umlaut mark |

### Variants of ISO-8859

|  |  |  |
| --- | --- | --- |
| Character set | Description | Covers |
| ISO-8859-1 | Latin alphabet part 1 | North America, Western Europe, Latin America, the Caribbean, Canada, Africa |
| ISO-8859-2 | Latin alphabet part 2 | Eastern Europe |
| ISO-8859-3 | Latin alphabet part 3 | SE Europe, Esperanto, miscellaneous others |
| ISO-8859-4 | Latin alphabet part 4 | Scandinavia/Baltics (and others not in ISO-8859-1) |
| ISO-8859-5 | Latin/Cyrillic part 5 | The languages that are using a Cyrillic alphabet such as Bulgarian, Belarusian, Russian and Macedonian |
| ISO-8859-6 | Latin/Arabic part 6 | The languages that are using the Arabic alphabet |
| ISO-8859-7 | Latin/Greek part 7 | The modern Greek language as well as mathematical symbols derived from the Greek |
| ISO-8859-8 | Latin/Hebrew part 8 | The languages that are using the Hebrew alphabet |
| ISO-8859-9 | Latin 5 part 9 | The Turkish language. Same as ISO-8859-1 except Turkish characters replace Icelandic ones |
| ISO-8859-10 | Latin 6 Lappish, Nordic, Eskimo | The Nordic languages |
| ISO-8859-15 | Latin 9 (aka Latin 0) | Similar to ISO-8859-1 but replaces some less common symbols with the euro sign and some other missing characters |
| ISO-2022-JP | Latin/Japanese part 1 | The Japanese language |
| ISO-2022-JP-2 | Latin/Japanese part 2 | The Japanese language |
| ISO-2022-KR | Latin/Korean part 1 | The Korean language |

## In HTML5: Unicode UTF-8

Because the character sets listed above are limited, and not compatible in multilingual environments, the Unicode Consortium developed the Unicode Standard.

The Unicode Standard covers (almost) all the characters, punctuations, and symbols in the world.

Unicode enables processing, storage, and transport of text, independent of platform and language.

**The default character encoding in HTML5 is UTF-8.**

### HTML5 UTF-8 Character Codes

Below is a list of some of the UTF-8 character codes supported by HTML5:

|  |  |  |
| --- | --- | --- |
| Character codes | Decimal | Hexadecimal |
| [C0 Controls and Basic Latin](https://www.w3schools.com/charsets/ref_utf_basic_latin.asp) | 0-127 | 0000-007F |
| [C1 Controls and Latin-1 Supplement](https://www.w3schools.com/charsets/ref_utf_latin1_supplement.asp) | 128-255 | 0080-00FF |
| [Latin Extended-A](https://www.w3schools.com/charsets/ref_utf_latin_extended_a.asp) | 256-383 | 0100-017F |
| [Latin Extended-B](https://www.w3schools.com/charsets/ref_utf_latin_extended_b.asp) | 384-591 | 0180-024F |
| [Spacing Modifiers](https://www.w3schools.com/charsets/ref_utf_modifiers.asp) | 688-767 | 02B0-02FF |
| [Diacritical Marks](https://www.w3schools.com/charsets/ref_utf_diacritical.asp) | 768-879 | 0300-036F |
| [Greek and Coptic](https://www.w3schools.com/charsets/ref_utf_greek.asp) | 880-1023 | 0370-03FF |
| [Cyrillic Basic](https://www.w3schools.com/charsets/ref_utf_cyrillic.asp) | 1024-1279 | 0400-04FF |
| [Cyrillic Supplement](https://www.w3schools.com/charsets/ref_utf_cyrillic_supplement.asp) | 1280-1327 | 0500-052F |
| [General Punctuation](https://www.w3schools.com/charsets/ref_utf_punctuation.asp) | 8192-8303 | 2000-206F |
| [Currency Symbols](https://www.w3schools.com/charsets/ref_utf_currency.asp) | 8352-8399 | 20A0-20CF |
| [Letterlike Symbols](https://www.w3schools.com/charsets/ref_utf_letterlike.asp) | 8448-8527 | 2100-214F |
| [Arrows](https://www.w3schools.com/charsets/ref_utf_arrows.asp) | 8592-8703 | 2190-21FF |
| [Mathematical Operators](https://www.w3schools.com/charsets/ref_utf_math.asp) | 8704-8959 | 2200-22FF |
| [Box Drawings](https://www.w3schools.com/charsets/ref_utf_box.asp) | 9472-9599 | 2500-257F |
| [Block Elements](https://www.w3schools.com/charsets/ref_utf_block.asp) | 9600-9631 | 2580-259F |
| [Geometric Shapes](https://www.w3schools.com/charsets/ref_utf_geometric.asp) | 9632-9727 | 25A0-25FF |
| [Miscellaneous Symbols](https://www.w3schools.com/charsets/ref_utf_symbols.asp) | 9728-9983 | 2600-26FF |
| [Dingbats](https://www.w3schools.com/charsets/ref_utf_dingbats.asp) | 9984-10175 | 2700-27BF |

# HTML Elements - Valid DOCTYPES

The table below lists all HTML elements, and shows what [!DOCTYPE](https://www.w3schools.com/tags/tag_doctype.asp) each element appears in.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| HTML 4.01 / XHTML 1.0 | | | | | |
| Tag | HTML5 | Transitional | Strict | Frameset | XHTML 1.1 |
| [<a>](https://www.w3schools.com/tags/tag_a.asp) | Yes | Yes | Yes | Yes | Yes |
| [<abbr>](https://www.w3schools.com/tags/tag_abbr.asp) | Yes | Yes | Yes | Yes | Yes |
| [<acronym>](https://www.w3schools.com/tags/tag_acronym.asp) | No | Yes | Yes | Yes | Yes |
| [<address>](https://www.w3schools.com/tags/tag_address.asp) | Yes | Yes | Yes | Yes | Yes |
| [<applet>](https://www.w3schools.com/tags/tag_applet.asp) | No | Yes | No | Yes | No |
| [<area>](https://www.w3schools.com/tags/tag_area.asp) | Yes | Yes | Yes | Yes | No |
| [<article>](https://www.w3schools.com/tags/tag_article.asp) | Yes | No | No | No | No |
| [<aside>](https://www.w3schools.com/tags/tag_aside.asp) | Yes | No | No | No | No |
| [<audio>](https://www.w3schools.com/tags/tag_audio.asp) | Yes | No | No | No | No |
| [<b>](https://www.w3schools.com/tags/tag_b.asp) | Yes | Yes | Yes | Yes | Yes |
| [<base>](https://www.w3schools.com/tags/tag_base.asp) | Yes | Yes | Yes | Yes | Yes |
| [<basefont>](https://www.w3schools.com/tags/tag_basefont.asp) | No | Yes | No | Yes | No |
| [<bdi>](https://www.w3schools.com/tags/tag_bdi.asp) | Yes | No | No | No | No |
| [<bdo>](https://www.w3schools.com/tags/tag_bdo.asp) | Yes | Yes | Yes | Yes | No |
| [<big>](https://www.w3schools.com/tags/tag_big.asp) | No | Yes | Yes | Yes | Yes |
| [<blockquote>](https://www.w3schools.com/tags/tag_blockquote.asp) | Yes | Yes | Yes | Yes | Yes |
| [<body>](https://www.w3schools.com/tags/tag_body.asp) | Yes | Yes | Yes | Yes | Yes |
| [<br>](https://www.w3schools.com/tags/tag_br.asp) | Yes | Yes | Yes | Yes | Yes |
| [<button>](https://www.w3schools.com/tags/tag_button.asp) | Yes | Yes | Yes | Yes | Yes |
| [<canvas>](https://www.w3schools.com/tags/tag_canvas.asp) | Yes | No | No | No | No |
| [<caption>](https://www.w3schools.com/tags/tag_caption.asp) | Yes | Yes | Yes | Yes | Yes |
| [<center>](https://www.w3schools.com/tags/tag_center.asp) | No | Yes | No | Yes | No |
| [<cite>](https://www.w3schools.com/tags/tag_cite.asp) | Yes | Yes | Yes | Yes | Yes |
| [<code>](https://www.w3schools.com/tags/tag_code.asp) | Yes | Yes | Yes | Yes | Yes |
| [<col>](https://www.w3schools.com/tags/tag_col.asp) | Yes | Yes | Yes | Yes | No |
| [<colgroup>](https://www.w3schools.com/tags/tag_colgroup.asp) | Yes | Yes | Yes | Yes | No |
| [<datalist>](https://www.w3schools.com/tags/tag_datalist.asp) | Yes | No | No | No | No |
| [<dd>](https://www.w3schools.com/tags/tag_dd.asp) | Yes | Yes | Yes | Yes | Yes |
| [<del>](https://www.w3schools.com/tags/tag_del.asp) | Yes | Yes | Yes | Yes | No |
| [<details>](https://www.w3schools.com/tags/tag_details.asp) | Yes | No | No | No | No |
| [<dfn>](https://www.w3schools.com/tags/tag_dfn.asp) | Yes | Yes | Yes | Yes | Yes |
| [<dialog>](https://www.w3schools.com/tags/tag_dialog.asp) | Yes | No | No | No | No |
| [<dir>](https://www.w3schools.com/tags/tag_dir.asp) | No | Yes | No | Yes | No |
| [<div>](https://www.w3schools.com/tags/tag_div.asp) | Yes | Yes | Yes | Yes | Yes |
| [<dl>](https://www.w3schools.com/tags/tag_dl.asp) | Yes | Yes | Yes | Yes | Yes |
| [<dt>](https://www.w3schools.com/tags/tag_dt.asp) | Yes | Yes | Yes | Yes | Yes |
| [<em>](https://www.w3schools.com/tags/tag_em.asp) | Yes | Yes | Yes | Yes | Yes |
| [<embed>](https://www.w3schools.com/tags/tag_embed.asp) | Yes | No | No | No | No |
| [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp) | Yes | Yes | Yes | Yes | Yes |
| [<figcaption>](https://www.w3schools.com/tags/tag_figcaption.asp) | Yes | No | No | No | No |
| [<figure>](https://www.w3schools.com/tags/tag_figure.asp) | Yes | No | No | No | No |
| [<font>](https://www.w3schools.com/tags/tag_font.asp) | No | Yes | No | Yes | No |
| [<footer>](https://www.w3schools.com/tags/tag_footer.asp) | Yes | No | No | No | No |
| [<form>](https://www.w3schools.com/tags/tag_form.asp) | Yes | Yes | Yes | Yes | Yes |
| [<frame>](https://www.w3schools.com/tags/tag_frame.asp) | No | No | No | Yes | No |
| [<frameset>](https://www.w3schools.com/tags/tag_frameset.asp) | No | No | No | Yes | No |
| [<h1> to <h6>](https://www.w3schools.com/tags/tag_hn.asp) | Yes | Yes | Yes | Yes | Yes |
| [<head>](https://www.w3schools.com/tags/tag_head.asp) | Yes | Yes | Yes | Yes | Yes |
| [<header>](https://www.w3schools.com/tags/tag_header.asp) | Yes | No | No | No | No |
| [<hr>](https://www.w3schools.com/tags/tag_hr.asp) | Yes | Yes | Yes | Yes | Yes |
| [<html>](https://www.w3schools.com/tags/tag_html.asp) | Yes | Yes | Yes | Yes | Yes |
| [<i>](https://www.w3schools.com/tags/tag_i.asp) | Yes | Yes | Yes | Yes | Yes |
| [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp) | Yes | Yes | No | Yes | No |
| [<img>](https://www.w3schools.com/tags/tag_img.asp) | Yes | Yes | Yes | Yes | Yes |
| [<input>](https://www.w3schools.com/tags/tag_input.asp) | Yes | Yes | Yes | Yes | Yes |
| [<ins>](https://www.w3schools.com/tags/tag_ins.asp) | Yes | Yes | Yes | Yes | No |
| [<kbd>](https://www.w3schools.com/tags/tag_kbd.asp) | Yes | Yes | Yes | Yes | Yes |
| [<keygen>](https://www.w3schools.com/tags/tag_keygen.asp) | Yes | No | No | No | No |
| [<label>](https://www.w3schools.com/tags/tag_label.asp) | Yes | Yes | Yes | Yes | Yes |
| [<legend>](https://www.w3schools.com/tags/tag_legend.asp) | Yes | Yes | Yes | Yes | Yes |
| [<li>](https://www.w3schools.com/tags/tag_li.asp) | Yes | Yes | Yes | Yes | Yes |
| [<link>](https://www.w3schools.com/tags/tag_link.asp) | Yes | Yes | Yes | Yes | Yes |
| [<main>](https://www.w3schools.com/tags/tag_main.asp) | Yes | No | No | No | No |
| [<map>](https://www.w3schools.com/tags/tag_map.asp) | Yes | Yes | Yes | Yes | No |
| [<mark>](https://www.w3schools.com/tags/tag_mark.asp) | Yes | No | No | No | No |
| [<menu>](https://www.w3schools.com/tags/tag_menu.asp) | Yes | Yes | No | Yes | No |
| [<menuitem>](https://www.w3schools.com/tags/tag_menuitem.asp) | Yes | No | No | No | No |
| [<meta>](https://www.w3schools.com/tags/tag_meta.asp) | Yes | Yes | Yes | Yes | Yes |
| [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Yes | No | No | No | No |
| [<nav>](https://www.w3schools.com/tags/tag_nav.asp) | Yes | No | No | No | No |
| [<noframes>](https://www.w3schools.com/tags/tag_noframes.asp) | No | Yes | No | Yes | No |
| [<noscript>](https://www.w3schools.com/tags/tag_noscript.asp) | Yes | Yes | Yes | Yes | Yes |
| [<object>](https://www.w3schools.com/tags/tag_object.asp) | Yes | Yes | Yes | Yes | Yes |
| [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Yes | Yes | Yes | Yes | Yes |
| [<optgroup>](https://www.w3schools.com/tags/tag_optgroup.asp) | Yes | Yes | Yes | Yes | Yes |
| [<option>](https://www.w3schools.com/tags/tag_option.asp) | Yes | Yes | Yes | Yes | Yes |
| [<output>](https://www.w3schools.com/tags/tag_output.asp) | Yes | No | No | No | No |
| [<p>](https://www.w3schools.com/tags/tag_p.asp) | Yes | Yes | Yes | Yes | Yes |
| [<param>](https://www.w3schools.com/tags/tag_param.asp) | Yes | Yes | Yes | Yes | Yes |
| [<pre>](https://www.w3schools.com/tags/tag_pre.asp) | Yes | Yes | Yes | Yes | Yes |
| [<progress>](https://www.w3schools.com/tags/tag_progress.asp) | Yes | No | No | No | No |
| [<q>](https://www.w3schools.com/tags/tag_q.asp) | Yes | Yes | Yes | Yes | Yes |
| [<rp>](https://www.w3schools.com/tags/tag_rp.asp) | Yes | No | No | No | No |
| [<rt>](https://www.w3schools.com/tags/tag_rt.asp) | Yes | No | No | No | No |
| [<ruby>](https://www.w3schools.com/tags/tag_ruby.asp) | Yes | No | No | No | No |
| [<s>](https://www.w3schools.com/tags/tag_s.asp) | Yes | Yes | No | Yes | No |
| [<samp>](https://www.w3schools.com/tags/tag_samp.asp) | Yes | Yes | Yes | Yes | Yes |
| [<script>](https://www.w3schools.com/tags/tag_script.asp) | Yes | Yes | Yes | Yes | Yes |
| [<section>](https://www.w3schools.com/tags/tag_section.asp) | Yes | No | No | No | No |
| [<select>](https://www.w3schools.com/tags/tag_select.asp) | Yes | Yes | Yes | Yes | Yes |
| [<small>](https://www.w3schools.com/tags/tag_small.asp) | Yes | Yes | Yes | Yes | Yes |
| [<source>](https://www.w3schools.com/tags/tag_source.asp) | Yes | No | No | No | No |
| [<span>](https://www.w3schools.com/tags/tag_span.asp) | Yes | Yes | Yes | Yes | Yes |
| [<strike>](https://www.w3schools.com/tags/tag_strike.asp) | No | Yes | No | Yes | No |
| [<strong>](https://www.w3schools.com/tags/tag_strong.asp) | Yes | Yes | Yes | Yes | Yes |
| [<style>](https://www.w3schools.com/tags/tag_style.asp) | Yes | Yes | Yes | Yes | Yes |
| [<sub>](https://www.w3schools.com/tags/tag_sub.asp) | Yes | Yes | Yes | Yes | Yes |
| [<summary>](https://www.w3schools.com/tags/tag_summary.asp) | Yes | No | No | No | No |
| [<sup>](https://www.w3schools.com/tags/tag_sup.asp) | Yes | Yes | Yes | Yes | Yes |
| [<table>](https://www.w3schools.com/tags/tag_table.asp) | Yes | Yes | Yes | Yes | Yes |
| [<tbody>](https://www.w3schools.com/tags/tag_tbody.asp) | Yes | Yes | Yes | Yes | No |
| [<td>](https://www.w3schools.com/tags/tag_td.asp) | Yes | Yes | Yes | Yes | Yes |
| [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Yes | Yes | Yes | Yes | Yes |
| [<tfoot>](https://www.w3schools.com/tags/tag_tfoot.asp) | Yes | Yes | Yes | Yes | No |
| [<th>](https://www.w3schools.com/tags/tag_th.asp) | Yes | Yes | Yes | Yes | Yes |
| [<thead>](https://www.w3schools.com/tags/tag_thead.asp) | Yes | Yes | Yes | Yes | No |
| [<time>](https://www.w3schools.com/tags/tag_time.asp) | Yes | No | No | No | No |
| [<title>](https://www.w3schools.com/tags/tag_title.asp) | Yes | Yes | Yes | Yes | Yes |
| [<tr>](https://www.w3schools.com/tags/tag_tr.asp) | Yes | Yes | Yes | Yes | Yes |
| [<track>](https://www.w3schools.com/tags/tag_track.asp) | Yes | No | No | No | No |
| [<tt>](https://www.w3schools.com/tags/tag_tt.asp) | No | Yes | Yes | Yes | Yes |
| [<u>](https://www.w3schools.com/tags/tag_u.asp) | Yes | Yes | No | Yes | No |
| [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | Yes | Yes | Yes | Yes | Yes |
| [<var>](https://www.w3schools.com/tags/tag_var.asp) | Yes | Yes | Yes | Yes | Yes |
| [<video>](https://www.w3schools.com/tags/tag_video.asp) | Yes | No | No | No | No |
| [<wbr>](https://www.w3schools.com/tags/tag_wbr.asp) | Yes | No | No | No | No |

# 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 <html> tag, like this:

|  |
| --- |
| <html lang="en"> ... </html> |

## ISO 639-1 Language Codes

ISO 639-1 defines abbreviations for languages.

|  |  |
| --- | --- |
| **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 |
| Bihari | bh |
| Bislama | bi |
| Bosnian | bs |
| Breton | br |
| Bulgarian | bg |
| Burmese | my |
| Catalan | ca |
| Chamorro | ch |
| Chechen | ce |
| Chichewa, Chewa, Nyanja | ny |
| Chinese | zh |
| Chinese (Simplified) | zh-Hans |
| Chinese (Traditional) | zh-Hant |
| Chuvash | cv |
| 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 |
| Fijian | 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 |
| Hiri Motu | ho |
| Hungarian | hu |
| Icelandic | is |
| Ido | io |
| Igbo | ig |
| Indonesian | 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 | 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 | oc |
| Ojibwe | oj |
| Old Church Slavonic, Old Bulgarian | 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 |

# 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**.

The last two defines the **country**.

|  |
| --- |
| <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 | BO |
| 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 |
| FIJI | 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 | HT |
| HEARD ISLAND AND MCDONALD ISLANDS | HM |
| HONDURAS | HN |
| HONG KONG | HK |
| HUNGARY | HU |
| ICELAND | IS |
| INDIA | IN |
| INDONESIA | ID |
| IRAN, ISLAMIC REPUBLIC OF | IR |
| IRAQ | IQ |
| IRELAND | IE |
| ISRAEL | IL |
| ITALY | IT |
| JAMAICA | JM |
| JAPAN | JP |
| JORDAN | JO |
| KAZAKHSTAN | KZ |
| KENYA | KE |
| 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 |
| 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 |
| 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 | CH |
| 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 | TT |
| TUNISIA | TN |
| TURKEY | TR |
| TURKMENISTAN | TM |
| TURKS AND CAICOS ISLANDS | TC |
| TUVALU | TV |
| UGANDA | UG |
| UKRAINE | UA |
| UNITED ARAB EMIRATES | AE |
| UNITED KINGDOM | GB |
| UNITED STATES | US |
| UNITED STATES MINOR OUTLYING ISLANDS | UM |
| URUGUAY | UY |
| UZBEKISTAN | UZ |
| VANUATU | VU |
| VENEZUELA | VE |
| VIET NAM | VN |
| VIRGIN ISLANDS, BRITISH | VG |
| VIRGIN ISLANDS, U.S. | VI |
| WALLIS AND FUTUNA | WF |
| WESTERN SAHARA | EH |
| YEMEN | 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: | Description: |
| 100 Continue | The server has received the request headers, and the client should proceed to send the request body |
| 101 Switching Protocols | The requester has asked the server to switch protocols |
| 103 Checkpoint | Used in the resumable requests proposal to resume aborted PUT or POST requests |

## 2xx: Successful

|  |  |
| --- | --- |
| Message: | Description: |
| 200 OK | The request is OK (this is the standard response for successful HTTP requests) |
| 201 Created | The request has been fulfilled, and a new resource is created |
| 202 Accepted | The request has been accepted for processing, but the processing has not been completed |
| 203 Non-Authoritative Information | The request has been successfully processed, but is returning information that may be from another source |
| 204 No Content | The request has been successfully processed, but is not returning any content |
| 205 Reset Content | The request has been successfully processed, but is not returning any content, and requires that the requester reset the document view |
| 206 Partial Content | 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 | 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 |
| 415 Unsupported Media Type | The server will not accept the request, because the media type is not supported |
| 416 Requested Range Not Satisfiable | The client has asked for a portion of the file, but the server cannot supply that portion |
| 417 Expectation Failed | The server cannot meet the requirements of the Expect request-header field |

## 5xx: Server Error

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

# CSS Properties

The "CSS" column indicates in which CSS version the property is defined (CSS1, CSS2, or CSS3).

## Color Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [color](https://www.w3schools.com/cssref/pr_text_color.asp) | Sets the color of text | 1 |
| [opacity](https://www.w3schools.com/cssref/css3_pr_opacity.asp) | Sets the opacity level for an element | 3 |

## Background and Border Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [background](https://www.w3schools.com/cssref/css3_pr_background.asp) | A shorthand property for setting all the background properties in one declaration | 1 |
| [background-attachment](https://www.w3schools.com/cssref/pr_background-attachment.asp) | Sets whether a background image is fixed or scrolls with the rest of the page | 1 |
| [background-blend-mode](https://www.w3schools.com/cssref/pr_background-blend-mode.asp) | Specifies the blending mode of each background layer (color/image) | 3 |
| [background-color](https://www.w3schools.com/cssref/pr_background-color.asp) | Specifies the background color of an element | 1 |
| [background-image](https://www.w3schools.com/cssref/pr_background-image.asp) | Specifies one or more background images for an element | 1 |
| [background-position](https://www.w3schools.com/cssref/pr_background-position.asp) | Specifies the position of a background image | 1 |
| [background-repeat](https://www.w3schools.com/cssref/pr_background-repeat.asp) | Sets how a background image will be repeated | 1 |
| [background-clip](https://www.w3schools.com/cssref/css3_pr_background-clip.asp) | Specifies the painting area of the background | 3 |
| [background-origin](https://www.w3schools.com/cssref/css3_pr_background-origin.asp) | Specifies where the background image(s) is/are positioned | 3 |
| [background-size](https://www.w3schools.com/cssref/css3_pr_background-size.asp) | Specifies the size of the background image(s) | 3 |
| [border](https://www.w3schools.com/cssref/pr_border.asp) | Sets all the border properties in one declaration | 1 |
| [border-bottom](https://www.w3schools.com/cssref/pr_border-bottom.asp) | Sets all the bottom border properties in one declaration | 1 |
| [border-bottom-color](https://www.w3schools.com/cssref/pr_border-bottom_color.asp) | Sets the color of the bottom border | 1 |
| [border-bottom-left-radius](https://www.w3schools.com/cssref/css3_pr_border-bottom-left-radius.asp) | Defines the shape of the border of the bottom-left corner | 3 |
| [border-bottom-right-radius](https://www.w3schools.com/cssref/css3_pr_border-bottom-right-radius.asp) | Defines the shape of the border of the bottom-right corner | 3 |
| [border-bottom-style](https://www.w3schools.com/cssref/pr_border-bottom_style.asp) | Sets the style of the bottom border | 1 |
| [border-bottom-width](https://www.w3schools.com/cssref/pr_border-bottom_width.asp) | Sets the width of the bottom border | 1 |
| [border-color](https://www.w3schools.com/cssref/pr_border-color.asp) | Sets the color of the four borders | 1 |
| [border-image](https://www.w3schools.com/cssref/css3_pr_border-image.asp) | A shorthand property for setting all the border-image-\* properties | 3 |
| [border-image-outset](https://www.w3schools.com/cssref/css3_pr_border-image-outset.asp) | Specifies the amount by which the border image area extends beyond the border box | 3 |
| [border-image-repeat](https://www.w3schools.com/cssref/css3_pr_border-image-repeat.asp) | Specifies whether the border image should be repeated, rounded or stretched | 3 |
| [border-image-slice](https://www.w3schools.com/cssref/css3_pr_border-image-slice.asp) | Specifies how to slice the border image | 3 |
| [border-image-source](https://www.w3schools.com/cssref/css3_pr_border-image-source.asp) | Specifies the path to the image to be used as a border | 3 |
| [border-image-width](https://www.w3schools.com/cssref/css3_pr_border-image-width.asp) | Specifies the widths of the image-border | 3 |
| [border-left](https://www.w3schools.com/cssref/pr_border-left.asp) | Sets all the left border properties in one declaration | 1 |
| [border-left-color](https://www.w3schools.com/cssref/pr_border-left_color.asp) | Sets the color of the left border | 1 |
| [border-left-style](https://www.w3schools.com/cssref/pr_border-left_style.asp) | Sets the style of the left border | 1 |
| [border-left-width](https://www.w3schools.com/cssref/pr_border-left_width.asp) | Sets the width of the left border | 1 |
| [border-radius](https://www.w3schools.com/cssref/css3_pr_border-radius.asp) | A shorthand property for setting all the four border-\*-radius properties | 3 |
| [border-right](https://www.w3schools.com/cssref/pr_border-right.asp) | Sets all the right border properties in one declaration | 1 |
| [border-right-color](https://www.w3schools.com/cssref/pr_border-right_color.asp) | Sets the color of the right border | 1 |
| [border-right-style](https://www.w3schools.com/cssref/pr_border-right_style.asp) | Sets the style of the right border | 1 |
| [border-right-width](https://www.w3schools.com/cssref/pr_border-right_width.asp) | Sets the width of the right border | 1 |
| [border-style](https://www.w3schools.com/cssref/pr_border-style.asp) | Sets the style of the four borders | 1 |
| [border-top](https://www.w3schools.com/cssref/pr_border-top.asp) | Sets all the top border properties in one declaration | 1 |
| [border-top-color](https://www.w3schools.com/cssref/pr_border-top_color.asp) | Sets the color of the top border | 1 |
| [border-top-left-radius](https://www.w3schools.com/cssref/css3_pr_border-top-left-radius.asp) | Defines the shape of the border of the top-left corner | 3 |
| [border-top-right-radius](https://www.w3schools.com/cssref/css3_pr_border-top-right-radius.asp) | Defines the shape of the border of the top-right corner | 3 |
| [border-top-style](https://www.w3schools.com/cssref/pr_border-top_style.asp) | Sets the style of the top border | 1 |
| [border-top-width](https://www.w3schools.com/cssref/pr_border-top_width.asp) | Sets the width of the top border | 1 |
| [border-width](https://www.w3schools.com/cssref/pr_border-width.asp) | Sets the width of the four borders | 1 |
| box-decoration-break | Sets the behaviour of the background and border of an element at page-break, or, for in-line elements, at line-break. | 3 |
| [box-shadow](https://www.w3schools.com/cssref/css3_pr_box-shadow.asp) | Attaches one or more drop-shadows to the box | 3 |

## Basic Box Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [bottom](https://www.w3schools.com/cssref/pr_pos_bottom.asp) | Specifies the bottom position of a positioned element | 2 |
| [clear](https://www.w3schools.com/cssref/pr_class_clear.asp) | Specifies which sides of an element where other floating elements are not allowed | 1 |
| [clip](https://www.w3schools.com/cssref/pr_pos_clip.asp) | Clips an absolutely positioned element | 2 |
| [display](https://www.w3schools.com/cssref/pr_class_display.asp) | Specifies how a certain HTML element should be displayed | 1 |
| [float](https://www.w3schools.com/cssref/pr_class_float.asp) | Specifies whether or not a box should float | 1 |
| [height](https://www.w3schools.com/cssref/pr_dim_height.asp) | Sets the height of an element | 1 |
| [left](https://www.w3schools.com/cssref/pr_pos_left.asp) | Specifies the left position of a positioned element | 2 |
| [margin](https://www.w3schools.com/cssref/pr_margin.asp) | Sets all the margin properties in one declaration | 1 |
| [margin-bottom](https://www.w3schools.com/cssref/pr_margin-bottom.asp) | Sets the bottom margin of an element | 1 |
| [margin-left](https://www.w3schools.com/cssref/pr_margin-left.asp) | Sets the left margin of an element | 1 |
| [margin-right](https://www.w3schools.com/cssref/pr_margin-right.asp) | Sets the right margin of an element | 1 |
| [margin-top](https://www.w3schools.com/cssref/pr_margin-top.asp) | Sets the top margin of an element | 1 |
| [max-height](https://www.w3schools.com/cssref/pr_dim_max-height.asp) | Sets the maximum height of an element | 2 |
| [max-width](https://www.w3schools.com/cssref/pr_dim_max-width.asp) | Sets the maximum width of an element | 2 |
| [min-height](https://www.w3schools.com/cssref/pr_dim_min-height.asp) | Sets the minimum height of an element | 2 |
| [min-width](https://www.w3schools.com/cssref/pr_dim_min-width.asp) | Sets the minimum width of an element | 2 |
| [overflow](https://www.w3schools.com/cssref/pr_pos_overflow.asp) | Specifies what happens if content overflows an element's box | 2 |
| [overflow-x](https://www.w3schools.com/cssref/css3_pr_overflow-x.asp) | Specifies whether or not to clip the left/right edges of the content, if it overflows the element's content area | 3 |
| [overflow-y](https://www.w3schools.com/cssref/css3_pr_overflow-y.asp) | Specifies whether or not to clip the top/bottom edges of the content, if it overflows the element's content area | 3 |
| [padding](https://www.w3schools.com/cssref/pr_padding.asp) | Sets all the padding properties in one declaration | 1 |
| [padding-bottom](https://www.w3schools.com/cssref/pr_padding-bottom.asp) | Sets the bottom padding of an element | 1 |
| [padding-left](https://www.w3schools.com/cssref/pr_padding-left.asp) | Sets the left padding of an element | 1 |
| [padding-right](https://www.w3schools.com/cssref/pr_padding-right.asp) | Sets the right padding of an element | 1 |
| [padding-top](https://www.w3schools.com/cssref/pr_padding-top.asp) | Sets the top padding of an element | 1 |
| [position](https://www.w3schools.com/cssref/pr_class_position.asp) | Specifies the type of positioning method used for an element (static, relative, absolute or fixed) | 2 |
| [right](https://www.w3schools.com/cssref/pr_pos_right.asp) | Specifies the right position of a positioned element | 2 |
| [top](https://www.w3schools.com/cssref/pr_pos_top.asp) | Specifies the top position of a positioned element | 2 |
| [visibility](https://www.w3schools.com/cssref/pr_class_visibility.asp) | Specifies whether or not an element is visible | 2 |
| [width](https://www.w3schools.com/cssref/pr_dim_width.asp) | Sets the width of an element | 1 |
| [vertical-align](https://www.w3schools.com/cssref/pr_pos_vertical-align.asp) | Sets the vertical alignment of an element | 1 |
| [z-index](https://www.w3schools.com/cssref/pr_pos_z-index.asp) | Sets the stack order of a positioned element | 2 |

## Flexible Box Layout

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [align-content](https://www.w3schools.com/cssref/css3_pr_align-content.asp) | Specifies the alignment between the lines inside a flexible container when the items do not use all available space | 3 |
| [align-items](https://www.w3schools.com/cssref/css3_pr_align-items.asp) | Specifies the alignment for items inside a flexible container | 3 |
| [align-self](https://www.w3schools.com/cssref/css3_pr_align-self.asp) | Specifies the alignment for selected items inside a flexible container | 3 |
| [flex](https://www.w3schools.com/cssref/css3_pr_flex.asp) | Specifies the length of the item, relative to the rest | 3 |
| [flex-basis](https://www.w3schools.com/cssref/css3_pr_flex-basis.asp) | Specifies the initial length of a flexible item | 3 |
| [flex-direction](https://www.w3schools.com/cssref/css3_pr_flex-direction.asp) | Specifies the direction of the flexible items | 3 |
| [flex-flow](https://www.w3schools.com/cssref/css3_pr_flex-flow.asp) | A shorthand property for the flex-direction and the flex-wrap properties | 3 |
| [flex-grow](https://www.w3schools.com/cssref/css3_pr_flex-grow.asp) | Specifies how much the item will grow relative to the rest | 3 |
| [flex-shrink](https://www.w3schools.com/cssref/css3_pr_flex-shrink.asp) | Specifies how the item will shrink relative to the rest | 3 |
| [flex-wrap](https://www.w3schools.com/cssref/css3_pr_flex-wrap.asp) | Specifies whether the flexible items should wrap or not | 3 |
| [justify-content](https://www.w3schools.com/cssref/css3_pr_justify-content.asp) | Specifies the alignment between the items inside a flexible container when the items do not use all available space | 3 |
| [order](https://www.w3schools.com/cssref/css3_pr_order.asp) | Sets the order of the flexible item, relative to the rest | 3 |

## Text Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [hanging-punctuation](https://www.w3schools.com/cssref/css3_pr_hanging-punctuation.asp) | Specifies whether a punctuation character may be placed outside the line box | 3 |
| hyphens | Sets how to split words to improve the layout of paragraphs | 3 |
| [letter-spacing](https://www.w3schools.com/cssref/pr_text_letter-spacing.asp) | Increases or decreases the space between characters in a text | 1 |
| line-break | Specifies how/if to break lines | 3 |
| [line-height](https://www.w3schools.com/cssref/pr_dim_line-height.asp) | Sets the line height | 1 |
| overflow-wrap | Specifies whether or not the browser may break lines within words in order to prevent overflow (when a string is too long to fit its containing box) | 3 |
| [tab-size](https://www.w3schools.com/cssref/css3_pr_tab-size.asp) | Specifies the length of the tab-character | 3 |
| [text-align](https://www.w3schools.com/cssref/pr_text_text-align.asp) | Specifies the horizontal alignment of text | 1 |
| [text-align-last](https://www.w3schools.com/cssref/css3_pr_text-align-last.asp) | Describes how the last line of a block or a line right before a forced line break is aligned when text-align is "justify" | 3 |
| text-combine-upright | Specifies the combination of multiple characters into the space of a single character | 3 |
| [text-indent](https://www.w3schools.com/cssref/pr_text_text-indent.asp) | Specifies the indentation of the first line in a text-block | 1 |
| [text-justify](https://www.w3schools.com/cssref/css3_pr_text-justify.asp) | Specifies the justification method used when text-align is "justify" | 3 |
| [text-transform](https://www.w3schools.com/cssref/pr_text_text-transform.asp) | Controls the capitalization of text | 1 |
| [white-space](https://www.w3schools.com/cssref/pr_text_white-space.asp) | Specifies how white-space inside an element is handled | 1 |
| [word-break](https://www.w3schools.com/cssref/css3_pr_word-break.asp) | Specifies line breaking rules for non-CJK scripts | 3 |
| [word-spacing](https://www.w3schools.com/cssref/pr_text_word-spacing.asp) | Increases or decreases the space between words in a text | 1 |
| [word-wrap](https://www.w3schools.com/cssref/css3_pr_word-wrap.asp) | Allows long, unbreakable words to be broken and wrap to the next line | 3 |

## Text Decoration Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [text-decoration](https://www.w3schools.com/cssref/pr_text_text-decoration.asp) | Specifies the decoration added to text | 1 |
| [text-decoration-color](https://www.w3schools.com/cssref/css3_pr_text-decoration-color.asp) | Specifies the color of the text-decoration | 3 |
| [text-decoration-line](https://www.w3schools.com/cssref/css3_pr_text-decoration-line.asp) | Specifies the type of line in a text-decoration | 3 |
| [text-decoration-style](https://www.w3schools.com/cssref/css3_pr_text-decoration-style.asp) | Specifies the style of the line in a text decoration | 3 |
| [text-shadow](https://www.w3schools.com/cssref/css3_pr_text-shadow.asp) | Adds shadow to text | 3 |
| text-underline-position | Specifies the position of the underline which is set using the text-decoration property | 3 |

## Font Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [@font-face](https://www.w3schools.com/cssref/css3_pr_font-face_rule.asp) | A rule that allows websites to download and use fonts other than the "web-safe" fonts | 3 |
| @font-feature-values | Allows authors to use a common name in font-variant-alternate for feature activated differently in OpenType | 3 |
| [font](https://www.w3schools.com/cssref/pr_font_font.asp) | Sets all the font properties in one declaration | 1 |
| [font-family](https://www.w3schools.com/cssref/pr_font_font-family.asp) | Specifies the font family for text | 1 |
| font-feature-settings | Allows control over advanced typographic features in OpenType fonts | 3 |
| font-kerning | Controls the usage of the kerning information (how letters are spaced) | 3 |
| font-language-override | Controls the usage of language-specific glyphs in a typeface | 3 |
| [font-size](https://www.w3schools.com/cssref/pr_font_font-size.asp) | Specifies the font size of text | 1 |
| [font-size-adjust](https://www.w3schools.com/cssref/css3_pr_font-size-adjust.asp) | Preserves the readability of text when font fallback occurs | 3 |
| [font-stretch](https://www.w3schools.com/cssref/css3_pr_font-stretch.asp) | Selects a normal, condensed, or expanded face from a font family | 3 |
| [font-style](https://www.w3schools.com/cssref/pr_font_font-style.asp) | Specifies the font style for text | 1 |
| font-synthesis | Controls which missing typefaces (bold or italic) may be synthesized by the browser | 3 |
| [font-variant](https://www.w3schools.com/cssref/pr_font_font-variant.asp) | Specifies whether or not a text should be displayed in a small-caps font | 1 |
| font-variant-alternates | Controls the usage of alternate glyphs associated to alternative names defined in @font-feature-values | 3 |
| font-variant-caps | Controls the usage of alternate glyphs for capital letters | 3 |
| font-variant-east-asian | Controls the usage of alternate glyphs for East Asian scripts (e.g Japanese and Chinese) | 3 |
| font-variant-ligatures | Controls which ligatures and contextual forms are used in textual content of the elements it applies to | 3 |
| font-variant-numeric | Controls the usage of alternate glyphs for numbers, fractions, and ordinal markers | 3 |
| font-variant-position | Controls the usage of alternate glyphs of smaller size positioned as superscript or subscript regarding the baseline of the font | 3 |
| [font-weight](https://www.w3schools.com/cssref/pr_font_weight.asp) | Specifies the weight of a font | 1 |

## Writing Modes Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [direction](https://www.w3schools.com/cssref/pr_text_direction.asp) | Specifies the text direction/writing direction | 2 |
| text-orientation | Defines the orientation of the text in a line | 3 |
| text-combine-upright | Specifies the combination of multiple characters into the space of a single character | 3 |
| [unicode-bidi](https://www.w3schools.com/cssref/pr_text_unicode-bidi.asp) | Used together with the [direction](https://www.w3schools.com/cssref/pr_text_direction.asp) property to set or return whether the text should be overridden to support multiple languages in the same document | 2 |
| [user-select](https://www.w3schools.com/cssref/css3_pr_user-select.asp) | Specifies whether the text of an element can be selected | 3 |
| writing-mode |  | 3 |

## Table Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [border-collapse](https://www.w3schools.com/cssref/pr_border-collapse.asp) | Specifies whether or not table borders should be collapsed | 2 |
| [border-spacing](https://www.w3schools.com/cssref/pr_border-spacing.asp) | Specifies the distance between the borders of adjacent cells | 2 |
| [caption-side](https://www.w3schools.com/cssref/pr_tab_caption-side.asp) | Specifies the placement of a table caption | 2 |
| [empty-cells](https://www.w3schools.com/cssref/pr_tab_empty-cells.asp) | Specifies whether or not to display borders and background on empty cells in a table | 2 |
| [table-layout](https://www.w3schools.com/cssref/pr_tab_table-layout.asp) | Sets the layout algorithm to be used for a table | 2 |

## Lists and Counters Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [counter-increment](https://www.w3schools.com/cssref/pr_gen_counter-increment.asp) | Increments one or more counters | 2 |
| [counter-reset](https://www.w3schools.com/cssref/pr_gen_counter-reset.asp) | Creates or resets one or more counters | 2 |
| [list-style](https://www.w3schools.com/cssref/pr_list-style.asp) | Sets all the properties for a list in one declaration | 1 |
| [list-style-image](https://www.w3schools.com/cssref/pr_list-style-image.asp) | Specifies an image as the list-item marker | 1 |
| [list-style-position](https://www.w3schools.com/cssref/pr_list-style-position.asp) | Specifies if the list-item markers should appear inside or outside the content flow | 1 |
| [list-style-type](https://www.w3schools.com/cssref/pr_list-style-type.asp) | Specifies the type of list-item marker | 1 |

## Animation Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [@keyframes](https://www.w3schools.com/cssref/css3_pr_animation-keyframes.asp) | Specifies the animation code | 3 |
| [animation](https://www.w3schools.com/cssref/css3_pr_animation.asp) | A shorthand property for all the animation properties (except animation-play-state and animation-fill-mode) | 3 |
| [animation-delay](https://www.w3schools.com/cssref/css3_pr_animation-delay.asp) | Specifies a delay for the start of an animation | 3 |
| [animation-direction](https://www.w3schools.com/cssref/css3_pr_animation-direction.asp) | Specifies whether or not the animation should play in reverse on alternate cycles | 3 |
| [animation-duration](https://www.w3schools.com/cssref/css3_pr_animation-duration.asp) | Specifies how many seconds or milliseconds an animation takes to complete one cycle | 3 |
| [animation-fill-mode](https://www.w3schools.com/cssref/css3_pr_animation-fill-mode.asp) | Specifies a style for the element when the animation is not playing (when it is finished, or when it has a delay) | 3 |
| [animation-iteration-count](https://www.w3schools.com/cssref/css3_pr_animation-iteration-count.asp) | Specifies the number of times an animation should be played | 3 |
| [animation-name](https://www.w3schools.com/cssref/css3_pr_animation-name.asp) | Specifies the name of the @keyframes animation | 3 |
| [animation-play-state](https://www.w3schools.com/cssref/css3_pr_animation-play-state.asp) | Specifies whether the animation is running or paused | 3 |
| [animation-timing-function](https://www.w3schools.com/cssref/css3_pr_animation-timing-function.asp) | Specifies the speed curve of an animation | 3 |

## Transform Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [backface-visibility](https://www.w3schools.com/cssref/css3_pr_backface-visibility.asp) | Defines whether or not an element should be visible when not facing the screen | 3 |
| [perspective](https://www.w3schools.com/cssref/css3_pr_perspective.asp) | Specifies the perspective on how 3D elements are viewed | 3 |
| [perspective-origin](https://www.w3schools.com/cssref/css3_pr_perspective-origin.asp) | Specifies the bottom position of 3D elements | 3 |
| [transform](https://www.w3schools.com/cssref/css3_pr_transform.asp) | Applies a 2D or 3D transformation to an element | 3 |
| [transform-origin](https://www.w3schools.com/cssref/css3_pr_transform-origin.asp) | Allows you to change the position on transformed elements | 3 |
| [transform-style](https://www.w3schools.com/cssref/css3_pr_transform-style.asp) | Specifies how nested elements are rendered in 3D space | 3 |

## Transitions Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [transition](https://www.w3schools.com/cssref/css3_pr_transition.asp) | A shorthand property for setting the four transition properties | 3 |
| [transition-property](https://www.w3schools.com/cssref/css3_pr_transition-property.asp) | Specifies the name of the CSS property the transition effect is for | 3 |
| [transition-duration](https://www.w3schools.com/cssref/css3_pr_transition-duration.asp) | Specifies how many seconds or milliseconds a transition effect takes to complete | 3 |
| [transition-timing-function](https://www.w3schools.com/cssref/css3_pr_transition-timing-function.asp) | Specifies the speed curve of the transition effect | 3 |
| [transition-delay](https://www.w3schools.com/cssref/css3_pr_transition-delay.asp) | Specifies when the transition effect will start | 3 |

## Basic User Interface Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [box-sizing](https://www.w3schools.com/cssref/css3_pr_box-sizing.asp) | Tells the browser what the sizing properties (width and height) should include | 3 |
| [content](https://www.w3schools.com/cssref/pr_gen_content.asp) | Used with the :before and :after pseudo-elements, to insert generated content | 2 |
| [cursor](https://www.w3schools.com/cssref/pr_class_cursor.asp) | Specifies the type of cursor to be displayed | 2 |
| ime-mode | Controls the state of the input method editor for text fields | 3 |
| [nav-down](https://www.w3schools.com/cssref/css3_pr_nav-down.asp) | Specifies where to navigate when using the arrow-down navigation key | 3 |
| [nav-index](https://www.w3schools.com/cssref/css3_pr_nav-index.asp) | Specifies the tabbing order for an element | 3 |
| [nav-left](https://www.w3schools.com/cssref/css3_pr_nav-left.asp) | Specifies where to navigate when using the arrow-left navigation key | 3 |
| [nav-right](https://www.w3schools.com/cssref/css3_pr_nav-right.asp) | Specifies where to navigate when using the arrow-right navigation key | 3 |
| [nav-up](https://www.w3schools.com/cssref/css3_pr_nav-up.asp) | Specifies where to navigate when using the arrow-up navigation key | 3 |
| [outline](https://www.w3schools.com/cssref/pr_outline.asp) | Sets all the outline properties in one declaration | 2 |
| [outline-color](https://www.w3schools.com/cssref/pr_outline-color.asp) | Sets the color of an outline | 2 |
| [outline-offset](https://www.w3schools.com/cssref/css3_pr_outline-offset.asp) | Offsets an outline, and draws it beyond the border edge | 3 |
| [outline-style](https://www.w3schools.com/cssref/pr_outline-style.asp) | Sets the style of an outline | 2 |
| [outline-width](https://www.w3schools.com/cssref/pr_outline-width.asp) | Sets the width of an outline | 2 |
| [resize](https://www.w3schools.com/cssref/css3_pr_resize.asp) | Specifies whether or not an element is resizable by the user | 3 |
| [text-overflow](https://www.w3schools.com/cssref/css3_pr_text-overflow.asp) | Specifies what should happen when text overflows the containing element | 3 |

## Multi-column Layout Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| break-after | Specifies the page-, column-, or region-break behavior after the generated box | 3 |
| break-before | Specifies the page-, column-, or region-break behavior before the generated box | 3 |
| break-inside | Specifies the page-, column-, or region-break behavior inside the generated box | 3 |
| [column-count](https://www.w3schools.com/cssref/css3_pr_column-count.asp) | Specifies the number of columns an element should be divided into | 3 |
| [column-fill](https://www.w3schools.com/cssref/css3_pr_column-fill.asp) | Specifies how to fill columns | 3 |
| [column-gap](https://www.w3schools.com/cssref/css3_pr_column-gap.asp) | Specifies the gap between the columns | 3 |
| [column-rule](https://www.w3schools.com/cssref/css3_pr_column-rule.asp) | A shorthand property for setting all the column-rule-\* properties | 3 |
| [column-rule-color](https://www.w3schools.com/cssref/css3_pr_column-rule-color.asp) | Specifies the color of the rule between columns | 3 |
| [column-rule-style](https://www.w3schools.com/cssref/css3_pr_column-rule-style.asp) | Specifies the style of the rule between columns | 3 |
| [column-rule-width](https://www.w3schools.com/cssref/css3_pr_column-rule-width.asp) | Specifies the width of the rule between columns | 3 |
| [column-span](https://www.w3schools.com/cssref/css3_pr_column-span.asp) | Specifies how many columns an element should span across | 3 |
| [column-width](https://www.w3schools.com/cssref/css3_pr_column-width.asp) | Specifies the width of the columns | 3 |
| [columns](https://www.w3schools.com/cssref/css3_pr_columns.asp) | A shorthand property for setting column-width and column-count | 3 |
| widows | Sets the minimum number of lines that must be left at the top of a page when a page break occurs inside an element | 2 |

## Paged Media

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| orphans | Sets the minimum number of lines that must be left at the bottom of a page when a page break occurs inside an element | 2 |
| [page-break-after](https://www.w3schools.com/cssref/pr_print_pageba.asp) | Sets the page-breaking behavior after an element | 2 |
| [page-break-before](https://www.w3schools.com/cssref/pr_print_pagebb.asp) | Sets the page-breaking behavior before an element | 2 |
| [page-break-inside](https://www.w3schools.com/cssref/pr_print_pagebi.asp) | Sets the page-breaking behavior inside an element | 2 |

## Generated Content for Paged Media

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| marks | Adds crop and/or cross marks to the document | 3 |
| [quotes](https://www.w3schools.com/cssref/pr_gen_quotes.asp) | Sets the type of quotation marks for embedded quotations | 2 |

## Filter Effects Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [filter](https://www.w3schools.com/cssref/css3_pr_filter.asp) | Defines effects (e.g. blurring or color shifting) on an element before the element is displayed | 3 |

## Image Values and Replaced Content

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| image-orientation | Specifies a rotation in the right or clockwise direction that a user agent applies to an image (This property is likely going to be deprecated and its functionality moved to HTML) | 3 |
| image-rendering | Gives a hint to the browser about what aspects of an image are most important to preserve when the image is scaled | 3 |
| image-resolution | Specifies the intrinsic resolution of all raster images used in/on the element | 3 |
| object-fit | Specifies how the contents of a replaced element should be fitted to the box established by its used height and width | 3 |
| object-position | Specifies the alignment of the replaced element inside its box | 3 |

## Masking Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| mask |  | 3 |
| mask-type |  | 3 |

## Speech Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| mark | A shorthand property for setting the mark-before and mark-after properties | 3 |
| mark-after | Allows named markers to be attached to the audio stream | 3 |
| mark-before | Allows named markers to be attached to the audio stream | 3 |
| phonemes | Specifies a phonetic pronunciation for the text contained by the corresponding element | 3 |
| rest | A shorthand property for setting the rest-before and rest-after properties | 3 |
| rest-after | Specifies a rest or prosodic boundary to be observed after speaking an element's content | 3 |
| rest-before | Specifies a rest or prosodic boundary to be observed before speaking an element's content | 3 |
| voice-balance | Specifies the balance between left and right channels | 3 |
| voice-duration | Specifies how long it should take to render the selected element's content | 3 |
| voice-pitch | Specifies the average pitch (a frequency) of the speaking voice | 3 |
| voice-pitch-range | Specifies variation in average pitch | 3 |
| voice-rate | Controls the speaking rate | 3 |
| voice-stress | Indicates the strength of emphasis to be applied | 3 |
| voice-volume | Refers to the amplitude of the waveform output by the speech synthesises | 3 |

## Marquee Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| marquee-direction | Sets the direction of the moving content | 3 |
| marquee-play-count | Sets how many times the content move | 3 |
| marquee-speed | Sets how fast the content scrolls | 3 |
| marquee-style | Sets the style of the moving content | 3 |

# CSS Selectors

In CSS, selectors are patterns used to select the element(s) you want to style.

The "CSS" column indicates in which CSS version the property is defined (CSS1, CSS2, or CSS3)

|  |  |  |  |
| --- | --- | --- | --- |
| Selector | Example | Example description | CSS |
| [.*class*](https://www.w3schools.com/cssref/sel_class.asp) | .intro | Selects all elements with class="intro" | 1 |
| [#*id*](https://www.w3schools.com/cssref/sel_id.asp) | #firstname | Selects the element with id="firstname" | 1 |
| [\*](https://www.w3schools.com/cssref/sel_all.asp) | \* | Selects all elements | 2 |
| [*element*](https://www.w3schools.com/cssref/sel_element.asp) | p | Selects all <p> elements | 1 |
| [*element,element*](https://www.w3schools.com/cssref/sel_element_comma.asp) | div, p | Selects all <div> elements and all <p> elements | 1 |
| [*element* *element*](https://www.w3schools.com/cssref/sel_element_element.asp) | div p | Selects all <p> elements inside <div> elements | 1 |
| [*element*>*element*](https://www.w3schools.com/cssref/sel_element_gt.asp) | div > p | Selects all <p> elements where the parent is a <div> element | 2 |
| [*element*+*element*](https://www.w3schools.com/cssref/sel_element_pluss.asp) | div + p | Selects all <p> elements that are placed immediately after <div> elements | 2 |
| [*element1*~*element2*](https://www.w3schools.com/cssref/sel_gen_sibling.asp) | p ~ ul | Selects every <ul> element that are preceded by a <p> element | 3 |
| [[*attribute*]](https://www.w3schools.com/cssref/sel_attribute.asp) | [target] | Selects all elements with a target attribute | 2 |
| [[*attribute*=*value*]](https://www.w3schools.com/cssref/sel_attribute_value.asp) | [target=\_blank] | Selects all elements with target="\_blank" | 2 |
| [[*attribute*~=*value*]](https://www.w3schools.com/cssref/sel_attribute_value_contains.asp) | [title~=flower] | Selects all elements with a title attribute containing the word "flower" | 2 |
| [[*attribute*|=*value*]](https://www.w3schools.com/cssref/sel_attribute_value_lang.asp) | [lang|=en] | Selects all elements with a lang attribute value starting with "en" | 2 |
| [[*attribute*^=*value*]](https://www.w3schools.com/cssref/sel_attr_begin.asp) | a[href^="https"] | Selects every <a> element whose href attribute value begins with "https" | 3 |
| [[*attribute*$=*value*]](https://www.w3schools.com/cssref/sel_attr_end.asp) | a[href$=".pdf"] | Selects every <a> element whose href attribute value ends with ".pdf" | 3 |
| [[*attribute*\*=*value*]](https://www.w3schools.com/cssref/sel_attr_contain.asp) | a[href\*="w3schools"] | Selects every <a> element whose href attribute value contains the substring "w3schools" | 3 |
| [:active](https://www.w3schools.com/cssref/sel_active.asp) | a:active | Selects the active link | 1 |
| [::after](https://www.w3schools.com/cssref/sel_after.asp) | p::after | Insert something after the content of each <p> element | 2 |
| [::before](https://www.w3schools.com/cssref/sel_before.asp) | p::before | Insert something before the content of each <p> element | 2 |
| [:checked](https://www.w3schools.com/cssref/sel_checked.asp) | input:checked | Selects every checked <input> element | 3 |
| [:disabled](https://www.w3schools.com/cssref/sel_disabled.asp) | input:disabled | Selects every disabled <input> element | 3 |
| [:empty](https://www.w3schools.com/cssref/sel_empty.asp) | p:empty | Selects every <p> element that has no children (including text nodes) | 3 |
| [:enabled](https://www.w3schools.com/cssref/sel_enabled.asp) | input:enabled | Selects every enabled <input> element | 3 |
| [:first-child](https://www.w3schools.com/cssref/sel_firstchild.asp) | p:first-child | Selects every <p> element that is the first child of its parent | 2 |
| [::first-letter](https://www.w3schools.com/cssref/sel_firstletter.asp) | p::first-letter | Selects the first letter of every <p> element | 1 |
| [::first-line](https://www.w3schools.com/cssref/sel_firstline.asp) | p::first-line | Selects the first line of every <p> element | 1 |
| [:first-of-type](https://www.w3schools.com/cssref/sel_first-of-type.asp) | p:first-of-type | Selects every <p> element that is the first <p> element of its parent | 3 |
| [:focus](https://www.w3schools.com/cssref/sel_focus.asp) | input:focus | Selects the input element which has focus | 2 |
| [:hover](https://www.w3schools.com/cssref/sel_hover.asp) | a:hover | Selects links on mouse over | 1 |
| [:in-range](https://www.w3schools.com/cssref/sel_in-range.asp) | input:in-range | Selects input elements with a value within a specified range | 3 |
| [:invalid](https://www.w3schools.com/cssref/sel_invalid.asp) | input:invalid | Selects all input elements with an invalid value | 3 |
| [:lang(*language*)](https://www.w3schools.com/cssref/sel_lang.asp) | p:lang(it) | Selects every <p> element with a lang attribute equal to "it" (Italian) | 2 |
| [:last-child](https://www.w3schools.com/cssref/sel_last-child.asp) | p:last-child | Selects every <p> element that is the last child of its parent | 3 |
| [:last-of-type](https://www.w3schools.com/cssref/sel_last-of-type.asp) | p:last-of-type | Selects every <p> element that is the last <p> element of its parent | 3 |
| [:link](https://www.w3schools.com/cssref/sel_link.asp) | a:link | Selects all unvisited links | 1 |
| [:not(*selector*)](https://www.w3schools.com/cssref/sel_not.asp) | :not(p) | Selects every element that is not a <p> element | 3 |
| [:nth-child(*n*)](https://www.w3schools.com/cssref/sel_nth-child.asp) | p:nth-child(2) | Selects every <p> element that is the second child of its parent | 3 |
| [:nth-last-child(*n*)](https://www.w3schools.com/cssref/sel_nth-last-child.asp) | p:nth-last-child(2) | Selects every <p> element that is the second child of its parent, counting from the last child | 3 |
| [:nth-last-of-type(*n*)](https://www.w3schools.com/cssref/sel_nth-last-of-type.asp) | p:nth-last-of-type(2) | Selects every <p> element that is the second <p> element of its parent, counting from the last child | 3 |
| [:nth-of-type(*n*)](https://www.w3schools.com/cssref/sel_nth-of-type.asp) | p:nth-of-type(2) | Selects every <p> element that is the second <p> element of its parent | 3 |
| [:only-of-type](https://www.w3schools.com/cssref/sel_only-of-type.asp) | p:only-of-type | Selects every <p> element that is the only <p> element of its parent | 3 |
| [:only-child](https://www.w3schools.com/cssref/sel_only-child.asp) | p:only-child | Selects every <p> element that is the only child of its parent | 3 |
| [:optional](https://www.w3schools.com/cssref/sel_optional.asp) | input:optional | Selects input elements with no "required" attribute | 3 |
| [:out-of-range](https://www.w3schools.com/cssref/sel_out-of-range.asp) | input:out-of-range | Selects input elements with a value outside a specified range | 3 |
| [:read-only](https://www.w3schools.com/cssref/sel_read-only.asp) | input:read-only | Selects input elements with the "readonly" attribute specified | 3 |
| [:read-write](https://www.w3schools.com/cssref/sel_read-write.asp) | input:read-write | Selects input elements with the "readonly" attribute NOT specified | 3 |
| [:required](https://www.w3schools.com/cssref/sel_required.asp) | input:required | Selects input elements with the "required" attribute specified | 3 |
| [:root](https://www.w3schools.com/cssref/sel_root.asp) | :root | Selects the document's root element | 3 |
| [::selection](https://www.w3schools.com/cssref/sel_selection.asp) | ::selection | Selects the portion of an element that is selected by a user |  |
| [:target](https://www.w3schools.com/cssref/sel_target.asp) | #news:target | Selects the current active #news element (clicked on a URL containing that anchor name) | 3 |
| [:valid](https://www.w3schools.com/cssref/sel_valid.asp) | input:valid | Selects all input elements with a valid value | 3 |
| [:visited](https://www.w3schools.com/cssref/sel_visited.asp) | a:visited | Selects all visited links | 1 |

# CSS Functions

The "CSS" column indicates in which CSS version the function is defined (CSS1, CSS2, or CSS3).

|  |  |  |
| --- | --- | --- |
| Function | Description | CSS |
| [attr()](https://www.w3schools.com/cssref/func_attr.asp) | Returns the value of an attribute of the selected element | 2 |
| [calc()](https://www.w3schools.com/cssref/func_calc.asp) | Allows you to perform calculations to determine CSS property values | 3 |
| [linear-gradient()](https://www.w3schools.com/cssref/func_linear-gradient.asp) | Creates an "image" which represents a linear gradient of colors | 3 |
| [radial-gradient()](https://www.w3schools.com/cssref/func_radial-gradient.asp) | Creates an "image" which represents a gradient of colors radiating from the center of the gradient | 3 |
| [repeating-linear-gradient()](https://www.w3schools.com/cssref/func_repeating-linear-gradient.asp) | Creates an "image" consisting of repeating gradients | 3 |
| repeating-radial-gradient() | Similarly to radial-gradient(), but it automatically repeats the color stops infinitely in both directions | 3 |

# Aural Style Sheets

Aural style sheets use a combination of speech synthesis and sound effects to make the user listen to information, instead of reading information.

Aural presentation can be used:

* by blind people
* to help users learning to read
* to help users who have reading problems
* for home entertainment
* in the car
* by print-impaired communities

The aural presentation converts the document to plain text and feed this to a screen reader (a program that reads all the characters on the screen).

An example of an Aural style sheet:

|  |
| --- |
| h1, h2, h3, h4 {     voice-family: male;     richness: 80;     cue-before: url("beep.au") } |

The example above will make the speech synthesizer play a sound, then speak the headers in a very rich male voice.

## CSS Aural Reference

The "CSS" column indicates in which CSS version the property is defined (CSS1 or CSS2).

|  |  |  |  |
| --- | --- | --- | --- |
| Property | Description | Values | CSS |
| azimuth | Sets where the sound should come from | *angle* left-side far-left left center-left center center-right right far-right right-side behind leftwards rightwards | 2 |
| cue | Sets the cue properties in one declaration | *cue-before cue-after* | 2 |
| cue-after | Specifies a sound to be played after speaking an element's content | none *url* | 2 |
| cue-before | Specifies a sound to be played before speaking an element's content | none *url* | 2 |
| elevation | Sets where the sound should come from | angle below level above higher lower | 2 |
| pause | Sets the pause properties in one declaration | *pause-before pause-after* | 2 |
| pause-after | Specifies a pause after speaking an element's content | *time %* | 2 |
| pause-before | Specifies a pause before speaking an element's content | *time %* | 2 |
| pitch | Specifies the speaking voice | *frequency* x-low low medium high x-high | 2 |
| pitch-range | Specifies the variation in the speaking voice. (Monotone voice or animated voice?) | *number* | 2 |
| play-during | Specifies a sound to be played while speaking an element's content | auto none *url* mix repeat | 2 |
| richness | Specifies the richness of the speaking voice. (Rich voice or thin voice?) | *number* | 2 |
| speak | Specifies whether content will render aurally | normal none spell-out | 2 |
| speak-header | Specifies how to handle table headers. Should the headers be spoken before every cell, or only before a cell with a different header than the previous cell | always once | 2 |
| speak-numeral | Specifies how to speak numbers | digits continuous | 2 |
| speak-punctuation | Specifies how to speak punctuation characters | none code | 2 |
| speech-rate | Specifies the speed of the speaking | *number* x-slow slow medium fast x-fast faster slower | 2 |
| stress | Specifies the "stress" in the speaking voice | *number* | 2 |
| voice-family | Specifies the voice family of the speaking | *specific-voice generic-voice* | 2 |
| volume | Specifies the volume of the speaking | *number %* silent x-soft soft medium loud x-loud | 2 |

# Commonly Used Font Combinations

The font-family property should hold several font names as a "fallback" system, to ensure maximum compatibility between browsers/operating systems. If the browser does not support the first font, it tries the next font.

Start with the font you want, and end with a generic family, to let the browser pick a similar font in the generic family, if no other fonts are available:

|  |
| --- |
| p {     font-family: "Times New Roman", Times, serif; } |

Below are some commonly used font combinations, organized by generic family.

## Serif Fonts

|  |  |
| --- | --- |
| font-family | Example text |
| Georgia, serif | This is a heading  This is a paragraph |
| "Palatino Linotype", "Book Antiqua", Palatino, serif | This is a heading  This is a paragraph |
| "Times New Roman", Times, serif | This is a heading  This is a paragraph |

## Sans-Serif Fonts

|  |  |
| --- | --- |
| font-family | Example text |
| Arial, Helvetica, sans-serif | This is a heading  This is a paragraph |
| "Arial Black", Gadget, sans-serif | This is a heading  This is a paragraph |
| "Comic Sans MS", cursive, sans-serif | This is a heading  This is a paragraph |
| Impact, Charcoal, sans-serif | This is a heading  This is a paragraph |
| "Lucida Sans Unicode", "Lucida Grande", sans-serif | This is a heading  This is a paragraph |
| Tahoma, Geneva, sans-serif | This is a heading  This is a paragraph |
| "Trebuchet MS", Helvetica, sans-serif | This is a heading  This is a paragraph |
| Verdana, Geneva, sans-serif | This is a heading  This is a paragraph |

## Monospace Fonts

|  |  |
| --- | --- |
| font-family | Example text |
| "Courier New", Courier, monospace | This is a heading  This is a paragraph |
| "Lucida Console", Monaco, monospace | This is a heading  This is a paragraph |

# CSS Animatable

## Definition and Usage

Some CSS properties are animatable, meaning that they can be used in animations and transitions.

Animatable properties can change gradually from one value to another, like size, numbers, percentage and color.

## Browser Support

The numbers in the table specifies the first browser version that fully support CSS animations.

Numbers followed by -webkit-, -moz-, or -o- specify the first version that worked with a prefix.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Chrome | IE | Firefox | Safari | Opera |
| 43.0 4.0 -webkit- | 10.0 | 16.0 5.0 -moz- | 9.0 4.0 -webkit- | 30.0 15.0 -webkit- 12.0 -o- |

Animate the background-color from red to blue:

|  |
| --- |
| /\* Code for old Chrome, Safari and Opera \*/ @-webkit-keyframes mymove {     from {background-color: red;}     to {background-color: blue;} }  /\* Standard syntax \*/ @keyframes mymove {     from {background-color: red;}     to {background-color: blue;} } |

## Animatable Properties

These properties are animatable in CSS:

|  |
| --- |
| Property |
| [background](https://www.w3schools.com/cssref/css3_pr_background.asp) |
| [background-color](https://www.w3schools.com/cssref/pr_background-color.asp) |
| [background-position](https://www.w3schools.com/cssref/pr_background-position.asp) |
| [background-size](https://www.w3schools.com/cssref/css3_pr_background-size.asp) |
| [border](https://www.w3schools.com/cssref/pr_border.asp) |
| [border-bottom](https://www.w3schools.com/cssref/pr_border-bottom.asp) |
| [border-bottom-color](https://www.w3schools.com/cssref/pr_border-bottom_color.asp) |
| border-bottom-left-radius |
| [border-bottom-right-radius](https://www.w3schools.com/cssref/css3_pr_border-bottom-right-radius.asp) |
| [border-bottom-width](https://www.w3schools.com/cssref/pr_border-bottom_width.asp) |
| [border-color](https://www.w3schools.com/cssref/pr_border-color.asp) |
| [border-left](https://www.w3schools.com/cssref/pr_border-left.asp) |
| [border-left-color](https://www.w3schools.com/cssref/pr_border-left_color.asp) |
| [border-left-width](https://www.w3schools.com/cssref/pr_border-left_width.asp) |
| [border-right](https://www.w3schools.com/cssref/pr_border-right.asp) |
| [border-right-color](https://www.w3schools.com/cssref/pr_border-right_color.asp) |
| [border-right-width](https://www.w3schools.com/cssref/pr_border-right_width.asp) |
| [border-spacing](https://www.w3schools.com/cssref/pr_border-spacing.asp) |
| [border-top](https://www.w3schools.com/cssref/pr_border-top.asp) |
| [border-top-color](https://www.w3schools.com/cssref/pr_border-top_color.asp) |
| [border-top-left-radius](https://www.w3schools.com/cssref/css3_pr_border-top-left-radius.asp) |
| [border-top-right-radius](https://www.w3schools.com/cssref/css3_pr_border-top-right-radius.asp) |
| [border-top-width](https://www.w3schools.com/cssref/pr_border-top_width.asp) |
| [bottom](https://www.w3schools.com/cssref/pr_pos_bottom.asp) |
| [box-shadow](https://www.w3schools.com/cssref/css3_pr_box-shadow.asp) |
| [clip](https://www.w3schools.com/cssref/pr_pos_clip.asp) |
| [color](https://www.w3schools.com/cssref/pr_text_color.asp) |
| [column-count](https://www.w3schools.com/cssref/css3_pr_column-count.asp) |
| [column-gap](https://www.w3schools.com/cssref/css3_pr_column-gap.asp) |
| [column-rule](https://www.w3schools.com/cssref/css3_pr_column-rule.asp) |
| [column-rule-color](https://www.w3schools.com/cssref/css3_pr_column-rule-color.asp) |
| [column-rule-width](https://www.w3schools.com/cssref/css3_pr_column-rule-width.asp) |
| [column-width](https://www.w3schools.com/cssref/css3_pr_column-width.asp) |
| [columns](https://www.w3schools.com/cssref/css3_pr_columns.asp) |
| [filter](https://www.w3schools.com/cssref/css3_pr_filter.asp) |
| [flex](https://www.w3schools.com/cssref/css3_pr_flex.asp) |
| [flex-basis](https://www.w3schools.com/cssref/css3_pr_flex-basis.asp) |
| [flex-grow](https://www.w3schools.com/cssref/css3_pr_flex-grow.asp) |
| [flex-shrink](https://www.w3schools.com/cssref/css3_pr_flex-shrink.asp) |
| [font](https://www.w3schools.com/cssref/pr_font_font.asp) |
| [font-size](https://www.w3schools.com/cssref/pr_font_font-size.asp) |
| [font-size-adjust](https://www.w3schools.com/cssref/css3_pr_font-size-adjust.asp) |
| [font-stretch](https://www.w3schools.com/cssref/css3_pr_font-stretch.asp) |
| [font-weight](https://www.w3schools.com/cssref/pr_font_weight.asp) |
| [height](https://www.w3schools.com/cssref/pr_dim_height.asp) |
| [left](https://www.w3schools.com/cssref/pr_pos_left.asp) |
| [letter-spacing](https://www.w3schools.com/cssref/pr_text_letter-spacing.asp) |
| [line-height](https://www.w3schools.com/cssref/pr_dim_line-height.asp) |
| [margin](https://www.w3schools.com/cssref/pr_margin.asp) |
| [margin-bottom](https://www.w3schools.com/cssref/pr_margin-bottom.asp) |
| [margin-left](https://www.w3schools.com/cssref/pr_margin-left.asp) |
| [margin-right](https://www.w3schools.com/cssref/pr_margin-right.asp) |
| [margin-top](https://www.w3schools.com/cssref/pr_margin-top.asp) |
| [max-height](https://www.w3schools.com/cssref/pr_dim_max-height.asp) |
| [max-width](https://www.w3schools.com/cssref/pr_dim_max-width.asp) |
| [min-height](https://www.w3schools.com/cssref/pr_dim_min-height.asp) |
| [min-width](https://www.w3schools.com/cssref/pr_dim_min-width.asp) |
| [opacity](https://www.w3schools.com/cssref/css3_pr_opacity.asp) |
| [order](https://www.w3schools.com/cssref/css3_pr_order.asp) |
| [outline](https://www.w3schools.com/cssref/pr_outline.asp) |
| [outline-color](https://www.w3schools.com/cssref/pr_outline-color.asp) |
| [outline-offset](https://www.w3schools.com/cssref/css3_pr_outline-offset.asp) |
| [outline-width](https://www.w3schools.com/cssref/pr_outline-width.asp) |
| [padding](https://www.w3schools.com/cssref/pr_padding.asp) |
| [padding-bottom](https://www.w3schools.com/cssref/pr_padding-bottom.asp) |
| [padding-left](https://www.w3schools.com/cssref/pr_padding-left.asp) |
| [padding-right](https://www.w3schools.com/cssref/pr_padding-right.asp) |
| [padding-top](https://www.w3schools.com/cssref/pr_padding-top.asp) |
| [perspective](https://www.w3schools.com/cssref/css3_pr_perspective.asp) |
| [perspective-origin](https://www.w3schools.com/cssref/css3_pr_perspective-origin.asp) |
| [right](https://www.w3schools.com/cssref/pr_pos_right.asp) |
| [text-decoration-color](https://www.w3schools.com/cssref/css3_pr_text-decoration-color.asp) |
| [text-indent](https://www.w3schools.com/cssref/pr_text_text-indent.asp) |
| [text-shadow](https://www.w3schools.com/cssref/css3_pr_text-shadow.asp) |
| [top](https://www.w3schools.com/cssref/pr_pos_top.asp) |
| [transform](https://www.w3schools.com/cssref/css3_pr_transform.asp) |
| [transform-origin](https://www.w3schools.com/cssref/css3_pr_transform-origin.asp) |
| [vertical-align](https://www.w3schools.com/cssref/pr_pos_vertical-align.asp) |
| [visibility](https://www.w3schools.com/cssref/pr_class_visibility.asp) |
| [width](https://www.w3schools.com/cssref/pr_dim_width.asp) |
| [word-spacing](https://www.w3schools.com/cssref/pr_text_word-spacing.asp) |
| [z-index](https://www.w3schools.com/cssref/pr_pos_z-index.asp) |

# CSS Units

CSS has several different units for expressing a length.

Many CSS properties take "length" values, such as width, margin, padding, font-size, border-width, etc.

Length is a number followed by a length unit, such as 10px, 2em, etc.

A whitespace cannot appear between the number and the unit. However, if the value is 0, the unit can be omitted.

For some CSS properties, negative lengths are allowed.

There are two types of length units: relative and absolute.

## Browser Support

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Length Unit | Chrome | IE | Firefox | Safari | Opera |
| em, ex, %, px, cm, mm, in, pt, pc | 1.0 | 3.0 | 1.0 | 1.0 | 3.5 |
| ch | 27.0 | 9.0 | 1.0 | 7.0 | 20.0 |
| rem | 4.0 | 9.0 | 3.6 | 4.1 | 11.6 |
| vh, vw | 20.0 | 9.0 | 19.0 | 6.0 | 20.0 |
| vmin | 20.0 | 9.0\* | 19.0 | 6.0 | 20.0 |
| vmax | 26.0 | Not supported | 19.0 | 7.0 | 20.0 |

**Note:** Internet Explorer 9 supports vmin with the non-standard name: vm.

## Relative Lengths

Relative length units specify a length relative to another length property. Relative length units scales better between different rendering mediums.

|  |  |
| --- | --- |
| Unit | Description |
| em | Relative to the font-size of the element (2em means 2 times the size of the current font) |
| ex | Relative to the x-height of the current font (rarely used) |
| ch | Relative to width of the "0" (zero) |
| rem | Relative to font-size of the root element |
| vw | Relative to 1% of the width of the viewport\* |
| vh | Relative to 1% of the height of the viewport\* |
| vmin | Relative to 1% of viewport's\* smaller dimension |
| vmax | Relative to 1% of viewport's\* larger dimension |
| % |  |

**Tip:** The em and rem units are practical in creating perfectly scalable layout!  
\* Viewport = the browser window size. If the viewport is 50cm wide, 1vw = 0.5cm.

## Absolute Lengths

The absolute length units are fixed and a length expressed in any of these will appear as exactly that size.

Absolute length units are not recommended for use on screen, because screen sizes vary so much. However, they can be used if the output medium is known, such as for print layout.

|  |  |
| --- | --- |
| Unit | Description |
| cm | centimeters |
| mm | millimeters |
| in | inches (1in = 96px = 2.54cm) |
| px \* | pixels (1px = 1/96th of 1in) |
| pt | points (1pt = 1/72 of 1in) |
| pc | picas (1pc = 12 pt) |

\* Pixels (px) are relative to the viewing device. For low-dpi devices, 1px is one device pixel (dot) of the display. For printers and high resolution screens 1px implies multiple device pixels.

# Default CSS Values for HTML Elements

The table below shows the default CSS browser values for all HTML elements.

|  |  |
| --- | --- |
| Element | Default CSS Value |
| a:link | color: (internal value); text-decoration: underline; cursor: auto; |
| a:visited | color: (internal value); text-decoration: underline; cursor: auto; |
| a:link:active | color: (internal value); |
| a:visited:active | color: (internal value); |
| abbr | None. |
| address | display: block; font-style: italic; |
| area | display: none; |
| article | display: block; |
| aside | display: block; |
| audio | None. |
| b | font-weight: bold; |
| base | None. |
| bdi | None. |
| bdo | unicode-bidi: bidi-override; |
| blockquote | display: block; margin-top: 1em; margin-bottom: 1em; margin-left: 40px; margin-right: 40px; |
| body | display: block; margin: 8px; |
| body:focus | outline: none; |
| br | None. |
| button | None |
| canvas | None. |
| caption | display: table-caption; text-align: center; |
| cite | font-style: italic; |
| code | font-family: monospace; |
| col | display: table-column; |
| colgroup | display: table-column-group |
| datalist | display: none; |
| dd | display: block; margin-left: 40px; |
| del | text-decoration: line-through; |
| details | display: block; |
| dfn | font-style: italic; |
| dialog | None. |
| div | display: block; |
| dl | display: block; margin-top: 1em; margin-bottom: 1em; margin-left: 0; margin-right: 0; |
| dt | display: block; |
| em | font-style: italic; |
| embed:focus | outline: none; |
| fieldset | display: block; margin-left: 2px; margin-right: 2px; padding-top: 0.35em; padding-bottom: 0.625em; padding-left: 0.75em; padding-right: 0.75em; border: 2px groove (internal value); |
| figcaption | display: block; |
| figure | display: block; margin-top: 1em; margin-bottom: 1em; margin-left: 40px; margin-right: 40px; |
| footer | display: block; |
| form | display: block; margin-top: 0em; |
| h1 | display: block; font-size: 2em; margin-top: 0.67em; margin-bottom: 0.67em; margin-left: 0; margin-right: 0; font-weight: bold; |
| h2 | display: block; font-size: 1.5em; margin-top: 0.83em; margin-bottom: 0.83em; margin-left: 0; margin-right: 0; font-weight: bold; |
| h3 | display: block; font-size: 1.17em; margin-top: 1em; margin-bottom: 1em; margin-left: 0; margin-right: 0; font-weight: bold; |
| h4 | display: block; margin-top: 1.33em; margin-bottom: 1.33em; margin-left: 0; margin-right: 0; font-weight: bold; |
| h5 | display: block; font-size: .83em; margin-top: 1.67em; margin-bottom: 1.67em; margin-left: 0; margin-right: 0; font-weight: bold; |
| h6 | display: block; font-size: .67em; margin-top: 2.33em; margin-bottom: 2.33em; margin-left: 0; margin-right: 0; font-weight: bold; |
| head | display: none; |
| header | display: block; |
| hr | display: block; margin-top: 0.5em; margin-bottom: 0.5em; margin-left: auto; margin-right: auto; border-style: inset; border-width: 1px; |
| html | display: block; |
| html:focus | outline: none; |
| i | font-style: italic; |
| iframe:focus | outline: none; |
| iframe[seamless] | display: block; |
| img | display: inline-block; |
| input | None. |
| ins | text-decoration: underline; |
| kbd | font-family: monospace; |
| keygen | None. |
| label | cursor: default; |
| legend | display: block; padding-left: 2px; padding-right: 2px; border: none; |
| li | display: list-item; |
| link | display: none; |
| main | None. |
| map | display: inline; |
| mark | background-color: yellow; color: black; |
| menu | display: block; list-style-type: disc; margin-top: 1em; margin-bottom: 1em; margin-left: 0; margin-right: 0; padding-left: 40px; |
| menuitem | None. |
| meta | None. |
| meter | None. |
| nav | display: block; |
| noscript | None. |
| object:focus | outline: none; |
| ol | display: block; list-style-type: decimal; margin-top: 1em; margin-bottom: 1em; margin-left: 0; margin-right: 0; padding-left: 40px; |
| optgroup | None. |
| option | None. |
| output | display: inline; |
| p | display: block; margin-top: 1em; margin-bottom: 1em; margin-left: 0; margin-right: 0; |
| param | display: none; |
| pre | display: block; font-family: monospace; white-space: pre; margin: 1em 0; |
| progress | None. |
| q | display: inline; |
| q::before | content: open-quote; |
| q::after | content: close-quote; |
| rp | None. |
| rt | line-height: normal; |
| ruby | None. |
| s | text-decoration: line-through; |
| samp | font-family: monospace; |
| script | display: none; |
| section | display: block; |
| select | None. |
| small | font-size: smaller; |
| source | None. |
| span | None. |
| strong | font-weight: bold; |
| style | display: none; |
| sub | vertical-align: sub; font-size: smaller; |
| summary | display: block; |
| sup | vertical-align: super; font-size: smaller; |
| table | display: table; border-collapse: separate; border-spacing: 2px; border-color: gray; |
| tbody | display: table-row-group; vertical-align: middle; border-color: inherit; |
| td | display: table-cell; vertical-align: inherit; |
| textarea | None. |
| tfoot | display: table-footer-group; vertical-align: middle; border-color: inherit; |
| th | display: table-cell; vertical-align: inherit; font-weight: bold; text-align: center; |
| thead | display: table-header-group; vertical-align: middle; border-color: inherit; |
| time | None. |
| title | display: none; |
| tr | display: table-row; vertical-align: inherit; border-color: inherit; |
| track | None. |
| u | text-decoration: underline; |
| ul | display: block; list-style-type: disc; margin-top: 1em; margin-bottom: 1 em; margin-left: 0; margin-right: 0; padding-left: 40px; |
| var | font-style: italic; |
| video | None. |
| wbr | None. |

# CSS3 Browser support

The table below lists all CSS3 properties and their browser support:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Property | IE | Firefox | Chrome | Safari | Opera |
| [align-content](https://www.w3schools.com/cssref/css3_pr_align-content.asp) | 11 | 28 | 21 | 9 | 12.1 |
| [align-items](https://www.w3schools.com/cssref/css3_pr_align-items.asp) | 11 | 20 | 21 | 9 | 12.1 |
| [align-self](https://www.w3schools.com/cssref/css3_pr_align-self.asp) | 11 | 20 | 21 | 9 | 12.1 |
| [all](https://www.w3schools.com/cssref/css3_pr_all.asp) |  | 27 | 37 |  | 24 |
| [@keyframes](https://www.w3schools.com/cssref/css3_pr_animation-keyframes.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation](https://www.w3schools.com/cssref/css3_pr_animation.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation-name](https://www.w3schools.com/cssref/css3_pr_animation-name.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation-duration](https://www.w3schools.com/cssref/css3_pr_animation-duration.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation-timing-function](https://www.w3schools.com/cssref/css3_pr_animation-timing-function.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation-delay](https://www.w3schools.com/cssref/css3_pr_animation-delay.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation-iteration-count](https://www.w3schools.com/cssref/css3_pr_animation-iteration-count.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation-direction](https://www.w3schools.com/cssref/css3_pr_animation-direction.asp) | 10 | 16 | 43 | 9 | 30 |
| [animation-play-state](https://www.w3schools.com/cssref/css3_pr_animation-play-state.asp) | 10 | 16 | 43 | 9 | 30 |
| [backface-visibility](https://www.w3schools.com/cssref/css3_pr_backface-visibility.asp) | 10 | 16 | 36 | 9 | 23 |
| [background-clip](https://www.w3schools.com/cssref/css3_pr_background-clip.asp) | 9 | 4 | 4 | 3 | 10.5 |
| [background-origin](https://www.w3schools.com/cssref/css3_pr_background-origin.asp) | 9 | 4 | 4 | 3 | 10.5 |
| [background-size](https://www.w3schools.com/cssref/css3_pr_background-size.asp) | 9 | 4 | 4 | 4.1 | 10 |
| [border-bottom-left-radius](https://www.w3schools.com/cssref/css3_pr_border-bottom-left-radius.asp) | 9 | 4 | 5 | 5 | 10.5 |
| [border-bottom-right-radius](https://www.w3schools.com/cssref/css3_pr_border-bottom-right-radius.asp) | 9 | 4 | 5 | 5 | 10.5 |
| [border-image](https://www.w3schools.com/cssref/css3_pr_border-image.asp) | 11 | 15 | 16 | 6 | 15 |
| [border-image-outset](https://www.w3schools.com/cssref/css3_pr_border-image-outset.asp) | 11 | 15 | 15 | 6 | 15 |
| [border-image-repeat](https://www.w3schools.com/cssref/css3_pr_border-image-repeat.asp) | 11 | 15 | 15 | 6 | 15 |
| [border-image-slice](https://www.w3schools.com/cssref/css3_pr_border-image-slice.asp) | 11 | 15 | 15 | 6 | 15 |
| [border-image-source](https://www.w3schools.com/cssref/css3_pr_border-image-source.asp) | 11 | 15 | 15 | 6 | 15 |
| [border-image-width](https://www.w3schools.com/cssref/css3_pr_border-image-width.asp) | 11 | 13 | 15 | 6 | 15 |
| [border-radius](https://www.w3schools.com/cssref/css3_pr_border-radius.asp) | 9 | 4 | 5 | 5 | 10.5 |
| [border-top-left-radius](https://www.w3schools.com/cssref/css3_pr_border-top-left-radius.asp) | 9 | 4 | 5 | 5 | 10.5 |
| [border-top-right-radius](https://www.w3schools.com/cssref/css3_pr_border-top-right-radius.asp) | 9 | 4 | 5 | 5 | 10.5 |
| box-decoration-break |  | 32 | 22 | 6.1 | 15 |
| [box-shadow](https://www.w3schools.com/cssref/css3_pr_box-shadow.asp) | 9 | 4 | 10 | 5.1 | 10.5 |
| [box-sizing](https://www.w3schools.com/cssref/css3_pr_box-sizing.asp) | 8 | 29 | 10 | 5.1 | 9.5 |
| break-after | 10 |  |  |  | 11.1 |
| break-before | 10 |  |  |  | 11.1 |
| break-inside |  |  |  |  |  |
| [column-count](https://www.w3schools.com/cssref/css3_pr_column-count.asp) | 10 | 2 | 50 | 9 | 37 |
| [column-fill](https://www.w3schools.com/cssref/css3_pr_column-fill.asp) |  | 13 |  |  |  |
| [column-gap](https://www.w3schools.com/cssref/css3_pr_column-gap.asp) | 10 | 2 | 50 | 9 | 37 |
| [column-rule](https://www.w3schools.com/cssref/css3_pr_column-rule.asp) | 10 | 2 | 50 | 9 | 37 |
| [column-rule-color](https://www.w3schools.com/cssref/css3_pr_column-rule-color.asp) | 10 | 2 | 50 | 9 | 37 |
| [column-rule-style](https://www.w3schools.com/cssref/css3_pr_column-rule-style.asp) | 10 | 2 | 50 | 9 | 37 |
| [column-rule-width](https://www.w3schools.com/cssref/css3_pr_column-rule-width.asp) | 10 | 2 | 50 | 9 | 37 |
| [column-span](https://www.w3schools.com/cssref/css3_pr_column-span.asp) | 10 |  | 50 | 9 | 37 |
| [column-width](https://www.w3schools.com/cssref/css3_pr_column-width.asp) | 10 | 2 | 50 | 9 | 37 |
| [columns](https://www.w3schools.com/cssref/css3_pr_columns.asp) | 10 | 9 | 50 | 9 | 37 |
| [filter](https://www.w3schools.com/cssref/css3_pr_filter.asp) | 13 | 35 | 18 | 9.1 | 15 |
| fit |  |  |  |  |  |
| [flex](https://www.w3schools.com/cssref/css3_pr_flex.asp) | 11 | 28 | 29 | 9 | 17 |
| [flex-basis](https://www.w3schools.com/cssref/css3_pr_flex-basis.asp) | 11 | 28 | 29 | 9 | 17 |
| [flex-direction](https://www.w3schools.com/cssref/css3_pr_flex-direction.asp) | 11 | 28 | 29 | 9 | 17 |
| [flex-flow](https://www.w3schools.com/cssref/css3_pr_flex-flow.asp) | 11 | 28 | 29 | 9 | 17 |
| [flex-grow](https://www.w3schools.com/cssref/css3_pr_flex-grow.asp) | 11 | 28 | 29 | 9 | 17 |
| [flex-shrink](https://www.w3schools.com/cssref/css3_pr_flex-shrink.asp) | 11 | 28 | 29 | 9 | 17 |
| [flex-wrap](https://www.w3schools.com/cssref/css3_pr_flex-wrap.asp) | 11 | 28 | 29 | 9 | 17 |
| [@font-face](https://www.w3schools.com/cssref/css3_pr_font-face_rule.asp) | 9 | 3.6 | 4 | 3 | 10 |
| @font-feature-values |  |  |  |  |  |
| font-feature-settings | 10 | 34 | 16 |  | 25 |
| font-kerning |  |  |  |  |  |
| font-language-override |  |  |  |  |  |
| [font-size-adjust](https://www.w3schools.com/cssref/css3_pr_font-size-adjust.asp) |  | 3 |  |  |  |
| [font-stretch](https://www.w3schools.com/cssref/css3_pr_font-stretch.asp) |  |  |  |  |  |
| font-synthesis |  |  |  |  |  |
| font-variant |  |  |  |  |  |
| font-variant-alternates |  |  |  |  |  |
| font-variant-caps |  |  |  |  |  |
| font-variant-east-asian |  |  |  |  |  |
| font-variant-ligatures |  |  |  |  |  |
| font-variant-numeric |  |  |  |  |  |
| font-variant-position |  |  |  |  |  |
| [hanging-punctuation](https://www.w3schools.com/cssref/css3_pr_hanging-punctuation.asp) |  |  |  |  |  |
| hyphens | 10 | 6 | 13 | 5.1 |  |
| image-orientation |  | 26 |  |  |  |
| image-rendering |  |  |  |  | 11.6 |
| image-resolution |  |  |  |  |  |
| [justify-content](https://www.w3schools.com/cssref/css3_pr_justify-content.asp) | 11 | 28 | 29 | 9 | 17 |
| line-break | 5.5 |  | 1 |  |  |
| mark |  |  |  |  |  |
| mark-after |  |  |  |  |  |
| mark-before |  |  |  |  |  |
| marks |  |  |  |  |  |
| marquee-direction |  |  |  |  |  |
| marquee-play-count |  |  |  |  |  |
| marquee-speed |  |  |  |  |  |
| marquee-style |  |  |  |  |  |
| [nav-down](https://www.w3schools.com/cssref/css3_pr_nav-down.asp) |  |  |  |  | 11.5 |
| [nav-index](https://www.w3schools.com/cssref/css3_pr_nav-index.asp) |  |  |  |  | 11.5 |
| [nav-left](https://www.w3schools.com/cssref/css3_pr_nav-left.asp) |  |  |  |  | 11.5 |
| [nav-right](https://www.w3schools.com/cssref/css3_pr_nav-right.asp) |  |  |  |  | 11.5 |
| [nav-up](https://www.w3schools.com/cssref/css3_pr_nav-up.asp) |  |  |  |  | 11.5 |
| object-fit |  | 36 | 31 | 7.1 | 19 |
| object-position |  | 36 | 31 |  | 19 |
| [opacity](https://www.w3schools.com/cssref/css3_pr_opacity.asp) | 9 | 2 | 4 | 3.1 | 9 |
| [order](https://www.w3schools.com/cssref/css3_pr_order.asp) | 11 | 28 | 29 | 9 | 17 |
| [outline-offset](https://www.w3schools.com/cssref/css3_pr_outline-offset.asp) |  | 3.5 | 4 | 3 | 10.5 |
| overflow-wrap | 9 | 3.5 |  | 3 | 9.5 |
| [overflow-x](https://www.w3schools.com/cssref/css3_pr_overflow-x.asp) | 9 | 3.5 | 4 | 3 | 9.5 |
| [overflow-y](https://www.w3schools.com/cssref/css3_pr_overflow-y.asp) | 9 |  | 4 | 3 | 9.5 |
| @page | 8 | 19 |  | 5 | 6 |
| [perspective](https://www.w3schools.com/cssref/css3_pr_perspective.asp) | 10 | 16 | 36 | 9 | 23 |
| [perspective-origin](https://www.w3schools.com/cssref/css3_pr_perspective-origin.asp) | 10 | 16 | 36 | 9 | 23 |
| [resize](https://www.w3schools.com/cssref/css3_pr_resize.asp) |  | 5 | 4 | 4 | 15 |
| rest |  |  |  |  |  |
| rest-after |  |  |  |  |  |
| rest-before |  |  |  |  |  |
| ruby-align |  | 38 |  |  |  |
| [tab-size](https://www.w3schools.com/cssref/css3_pr_tab-size.asp) |  | 4 | 21 | 6.1 | 15 |
| [text-align-last](https://www.w3schools.com/cssref/css3_pr_text-align-last.asp) | 5.5 | 12 | 35 |  |  |
| text-combine-upright | 11 | 48 | 48 |  | 34 |
| [text-decoration-color](https://www.w3schools.com/cssref/css3_pr_text-decoration-color.asp) |  | 6 |  |  |  |
| [text-decoration-line](https://www.w3schools.com/cssref/css3_pr_text-decoration-line.asp) |  | 6 |  |  |  |
| [text-decoration-style](https://www.w3schools.com/cssref/css3_pr_text-decoration-style.asp) |  | 6 |  |  |  |
| [text-justify](https://www.w3schools.com/cssref/css3_pr_text-justify.asp) | 5.5 |  |  |  |  |
| text-orientation |  |  | 48 |  | 34 |
| [text-overflow](https://www.w3schools.com/cssref/css3_pr_text-overflow.asp) | 6 | 7 | 4 | 3.1 | 11 |
| [text-shadow](https://www.w3schools.com/cssref/css3_pr_text-shadow.asp) | 10 | 3.5 | 4 | 4 | 9.6 |
| text-underline-position |  |  |  |  |  |
| [transform](https://www.w3schools.com/cssref/css3_pr_transform.asp) | 10 | 16 | 36 | 9 | 23 |
| [transform-origin](https://www.w3schools.com/cssref/css3_pr_transform-origin.asp) | 10 | 16 | 36 | 9 | 23 |
| [transform-style](https://www.w3schools.com/cssref/css3_pr_transform-style.asp) | 11 | 16 | 36 | 9 | 23 |
| [transition](https://www.w3schools.com/cssref/css3_pr_transition.asp) | 10 | 16 | 26 | 6.1 | 12.1 |
| [transition-delay](https://www.w3schools.com/cssref/css3_pr_transition-delay.asp) | 10 | 16 | 26 | 6.1 | 12.1 |
| [transition-duration](https://www.w3schools.com/cssref/css3_pr_transition-duration.asp) | 10 | 16 | 26 | 6.1 | 12.1 |
| [transition-property](https://www.w3schools.com/cssref/css3_pr_transition-property.asp) | 10 | 16 | 26 | 6.1 | 12.1 |
| [transition-timing-function](https://www.w3schools.com/cssref/css3_pr_transition-timing-function.asp) | 10 | 16 | 26 | 6.1 | 12.1 |
| [word-break](https://www.w3schools.com/cssref/css3_pr_word-break.asp) | 5.5 | 15 | 4 | 3.1 | 15 |
| [word-wrap](https://www.w3schools.com/cssref/css3_pr_word-wrap.asp) | 5.5 | 3.5 | 4 | 3.1 | 10.5 |
| writing-mode | 9.0 | 41 | 8.0 | 5.1 | 15.0 |

# 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 Shortcuts

|  |  |  |
| --- | --- | --- |
| 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 + C | 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

|  |  |  |
| --- | --- | --- |
| Description | Windows | Mac OS |
| **Cursor Movement** |  |  |
| Go to the right or to the beginning of next line break | Right Arrow | Right Arrow |
| Go to the left or to the end of previous line break | 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 | 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 cursor | Shift + Page Up | 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** |  |  |
| 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 |
| 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

|  |  |  |
| --- | --- | --- |
| Description | Windows | Mac OS |
| **Navigation** |  |  |
| 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 |  | 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 clipboard | 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 |  | Cmd + Shift + 4 |

**Note:** Due to different keyboard setups, some shortcuts may not be compatible for all users.

# Complete List of All Bootstrap Classes

Complete list of all Bootstrap classes with description and examples:

| Class | Description | Tutorial |
| --- | --- | --- |
| .active | Adds a grey background color to the **table** row (<tr> or table cell (<td>) (same color used on hover) | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .active | Adds a gray background color to the active link in a default **navbar.** Adds a black background and a white color to the current link inside an inverted navbar. | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .active | Adds a blue background color to the active **list item** in a list group | [List Groups](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .active | Adds a blue background color to simulate a "pressed" **button** | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .active | Animates a striped **progress bar** | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .active | Adds a blue background color to the active **dropdown item** in a dropdown | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .active | Adds a blue background color to the active **pagination** link (to highlight the current page) | [Pagination](https://www.w3schools.com/bootstrap/bootstrap_pagination.asp) |
| .affix | The Affix plugin allows an element to become affixed (locked/sticky) to an area on the page. It toggles position:fixed on and off | [Affix](https://www.w3schools.com/bootstrap/bootstrap_affix.asp) |
| .alert | Creates an alert message box | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .alert-danger | Red alert box. Indicates a dangerous or potentially negative action | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .alert-dismissable | Together with the .close class, this class is used to close the alert | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .alert-info | Light-blue alert box. Indicates some information | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .alert-link | Used on links inside alerts to add matching colored links | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .alert-success | Green alert box. Indicates a successful or positive action | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .alert-warning | Yellow alert box. Indicates caution should be taken with this action | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .badge | Creates a circular badge (grey circle - often used as a numerical indicator) | [Badges](https://www.w3schools.com/bootstrap/bootstrap_badges_labels.asp) |
| .bg-danger | Adds a red background color to an element. Represents danger or a negative action | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .bg-info | Adds a light-blue background color to an element. Represents some information | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .bg-primary | Adds a blue background color to an element. Represents something important | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .bg-success | Adds a green background color to an element. Indicates success or a positive action | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .bg-warning | Adds a yellow background color to an element. Represents a warning or a negative action | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .breadcrumb | A pagination. Indicates the current page's location within a navigational hierarchy | [Pagination](https://www.w3schools.com/bootstrap/bootstrap_pagination.asp) |
| .btn | Creates a basic button (gray background and rounded corners) | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-block | Creates a block level button that spans the entire width of the parent element | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-danger | Red button. Indicates danger or a negative action | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-default | Default button. White background and grey border | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-group | Groups buttons together on a single line | [Button Groups](https://www.w3schools.com/bootstrap/bootstrap_button_groups.asp) |
| .btn-group-justified | Makes a group of buttons span the entire width of the screen | [Button Groups](https://www.w3schools.com/bootstrap/bootstrap_button_groups.asp) |
| .btn-group-lg | Large button group (makes all buttons in a button group larger - increased font-size and padding) | [Button Groups](https://www.w3schools.com/bootstrap/bootstrap_button_groups.asp) |
| .btn-group-sm | Small button group (makes all buttons in a button group smaller) | [Button Groups](https://www.w3schools.com/bootstrap/bootstrap_button_groups.asp) |
| .btn-group-xs | Extra small button group (makes all buttons in a button group extra small) | [Button Groups](https://www.w3schools.com/bootstrap/bootstrap_button_groups.asp) |
| .btn-group-vertical | Makes a button group appear vertically stacked | [Button Groups](https://www.w3schools.com/bootstrap/bootstrap_button_groups.asp) |
| .btn-info | Light-blue button. Represents information | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-link | Makes a button look like a link (get button behavior) | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-lg | Large button | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-primary | Blue button. | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-sm | Small button | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-success | Green button. Indicates success or a positive action | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-warning | Yellow button. Represents warning or a negative action | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .btn-xs | Extra small button | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .caption | Adds a caption text inside a .thumbnail | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .caret | Creates a caret arrow icon , which indicates that the button is a dropdown | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .carousel | Creates a carousel (slideshow) | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .carousel-caption | Creates a caption text for each slide in the carousel | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .carousel-control | Container for next and previous links | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .carousel-indicators | Adds little dots/indicators at the bottom of each slide (which indicates how many slides there is in the carousel, and which slide the user are currently viewing) | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .carousel-inner | Container for slide items | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .center-block | Centers any element (Sets an element to display:block with margin-right:auto and margin-left:auto) | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .checkbox | Container for checkboxes | [Inputs](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs.asp) |
| .checkbox-inline | Makes multiple checkboxes appear on the same line | [Inputs](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs.asp) |
| .clearfix | Clears floats | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .close | Indicates a close icon | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .col-\*-\* | Responsive grid (span 1-12 column). Extra small devices Phones (< 768px), Small devices Tablets (≥768px), Medium devices Desktops (≥992px), Large devices Desktops (≥1200px). Column values can be 1-12. | [Grid](https://www.w3schools.com/bootstrap/bootstrap_grid_system.asp) |
| .col-\*-offset-\* | Move columns to the right. These classes increase the left margin of a column by \* columns | [Grid](https://www.w3schools.com/bootstrap/bootstrap_grid_system.asp) |
| .col-\*-pull-\* | Changes the order of the grid columns | [Grid](https://www.w3schools.com/bootstrap/bootstrap_grid_system.asp) |
| .col-\*-push-\* | Changes the order of the grid columns | [Grid](https://www.w3schools.com/bootstrap/bootstrap_grid_system.asp) |
| .collapse | Indicates collapsible content - which can be hidden or shown on demand | [Collapse](https://www.w3schools.com/bootstrap/bootstrap_collapse.asp) |
| .collapse in | Show the collapsible content by default | [Collapse](https://www.w3schools.com/bootstrap/bootstrap_collapse.asp) |
| .container | Fixed width container with widths determined by screen sites. Equal margin on the left and right. | [Containers](https://www.w3schools.com/bootstrap/bootstrap_get_started.asp) |
| .container-fluid | A container that spans the full width of the screen | [Containers](https://www.w3schools.com/bootstrap/bootstrap_get_started.asp) |
| .control-label | Allows a label to be used for form validation | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .danger | Adds a red background to the table row (<tr> or table cell (<td>). Indicates a dangerous or potentially negative action | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .disabled | Disables a **button** (adds opacity and a "no-parking-sign" icon on hover) | [Buttons](https://www.w3schools.com/bootstrap/bootstrap_buttons.asp) |
| .disabled | Disables a **dropdown** item (adds a grey text color and a "no-parking-sign" icon on hover) | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .disabled | Disables a **pagination** link (cannot be clicked - adds a grey text color and a "no-parking-sign" icon on hover) | [Pagination](https://www.w3schools.com/bootstrap/bootstrap_pagination.asp) |
| .disabled | Disables a **list** item in a list group (cannot be clicked - adds a grey background color and a "no-parking-sign" icon on hover) | [List Groups](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .divider | Used to separate links in the dropdown menu with a thin horizontal border | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .dl-horizontal | Lines up the terms <dt> and descriptions <dd> in <dl>elements side-by-side. Starts off like default <dl>s, but when the browser window expands, it will line up side-by-side | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .dropdown | Creates a toggleable menu that allows the user to choose one value from a predefined list | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .dropdown-header | Used to add headers inside the dropdown menu | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .dropdown-menu | Adds the default styles for the dropdown menu container | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .dropdown-menu-right | Right-aligns a dropdown menu | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .dropdown-toggle | Used on the button that should hide and show (toggle) the dropdown menu | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .dropup | Indicates a dropup menu (upwards instead of downwards) | [Dropdowns](https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp) |
| .embed-responsive | Container for embedded content. Makes videos or slideshows scale properly on any device | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .embed-responsive-16by9 | Container for embedded content. Creates an 16:9 aspect ratio embedded content | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .embed-responsive-4by3 | Container for embedded content. Creates an 4:3 aspect ratio embedded content | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .embed-responsive-item | Used inside .embed-responsive. Scales the video nicely to the parent element | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .fade | Adds a fading effect when closing an alert box | [Alerts](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp) |
| .form-control | Used on input, textarea, and select elements to span the entire width of the page and make them responsive | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .form-control-feedback | Form validation class | [Inputs 2](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs2.asp) |
| .form-control-static | Adds plain text next to a form label within a horizontal form | [Inputs 2](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs2.asp) |
| .form-group | Container for form input and label | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .form-inline | Makes a <form> left-aligned with inline-block controls (This only applies to forms within viewports that are at least 768px wide) | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .form-horizontal | Aligns labels and groups of form controls in a horizontal layout | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .glyphicon | Creates an icon. Bootstrap provides 260 free glyphicons from the [Glyphicons](https://www.w3schools.com/bootstrap/bootstrap_glyphicons.asp) Halflings set | [Glyphicons](https://www.w3schools.com/bootstrap/bootstrap_glyphicons.asp) |
| .has-danger | Adds a red color to the label and a red border to the input, as well as an error icon inside the input (used together with .has-feedback) | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .has-feedback | Adds feedback icons for inputs (checkmark, warning and error signs) | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .has-success | Adds a green color to the label and a green border to the input, as well as a checkmark icon inside the input (used together with .has-feedback) | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .has-warning | Adds a yellow/orange color to the label and a yellow/orange border to the input, as well as a checkmark icon inside the input (used together with .has-feedback) | [Forms](https://www.w3schools.com/bootstrap/bootstrap_forms.asp) |
| .help-block | A block of help text that breaks onto a new line and may extend beyond one line. | [Input Sizing](https://www.w3schools.com/bootstrap/bootstrap_forms_sizing.asp) |
| .hidden | Forces an element to be hidden (display:none) | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .hidden-\* | Hides content depending on screen size | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .hide | Deprecated. Use .hidden instead | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .h1 - .h6 | Makes an element look like a heading of the chosen class (h1-h6) | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .icon-bar | Used in the navbar to create a hamburger menu (three horizontal bars) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .icon-next | Unicode icon (arrow pointing right), used in carousels. This is often replaced with a glyphicon | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .icon-prev | Unicode icon (arrow pointing left), used in carousels. This is often replaced with a glyphicon | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .img-circle | Shapes an image to a circle (not supported in IE8 and earlier) | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .img-responsive | Makes an image responsive | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .img-rounded | Adds rounded corners to an image | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .img-thumbnail | Shapes an image to a thumbnail (borders) | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .in | Fades in tabs | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .info | Adds a light-blue background to the table row (<tr> or table cell (<td>). Indicates a neutral informative change or action | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .initialism | Displays the text inside an <abbr> element in a slightly smaller font size | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .input-group | Container to enhance an input by adding an icon, text or a button in front or behind it as a "help text" | [Inputs](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs2.asp) |
| .input-group-lg | Large input group | [Inputs](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs2.asp) |
| .input-group-sm | Small input group | [Inputs](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs2.asp) |
| .input-group-addon | Together with the .input-group class, this class makes it possible to add an icon or help text next to the input field | [Inputs](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs2.asp) |
| .input-group-btn | Together with the .input-group class, this class attaches a button next to an input. Often used as a search bar | [Inputs](https://www.w3schools.com/bootstrap/bootstrap_forms_inputs2.asp) |
| .input-lg | Large input field | [Input Sizing](https://www.w3schools.com/bootstrap/bootstrap_forms_sizing.asp) |
| .input-sm | Small input field | [Input Sizing](https://www.w3schools.com/bootstrap/bootstrap_forms_sizing.asp) |
| .invisible | Makes an element invisible (visibility:hidden). **Note:** Even though the element is invisible, it will take up space on the page | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .item | Class added to each carousel item. May be text or images | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .jumbotron | Creates a padded grey box with rounded corners that enlarges the font sizes of the text inside it. Creates a big box for calling extra attention to some special content or information | [Jumbotron](https://www.w3schools.com/bootstrap/bootstrap_jumbotron_header.asp) |
| .label | Adds a grey rounded box to an element. Provides additional information about something (e.g. "New") | [Labels](https://www.w3schools.com/bootstrap/bootstrap_badges_labels.asp) |
| .label-danger | Red label | [Labels](https://www.w3schools.com/bootstrap/bootstrap_badges_labels.asp) |
| .label-info | Light-blue label | [Labels](https://www.w3schools.com/bootstrap/bootstrap_badges_labels.asp) |
| .label-success | Green label | [Labels](https://www.w3schools.com/bootstrap/bootstrap_badges_labels.asp) |
| .label-warning | Yellow label | [Labels](https://www.w3schools.com/bootstrap/bootstrap_badges_labels.asp) |
| .lead | Increase the font size and line height of a paragraph | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .left | Used to identify the left carousel control | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .list-group | Creates a bordered list group for <li> elements | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-group-item | Added to each <li> element in the list group | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-group-item-heading | Creates a list group heading (used on other elements besides <li>) | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-group-item-text | Used for item text inside the list group (used on other elements besides <li>) | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-group-item-danger | Red background color for a list item in a list group | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-group-item-info | Light-blue background color for a list item in a list group | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-group-item-success | Green background color for a list item in a list group | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-group-item-warning | Yellow background color for a list item in a list group | [List Group](https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp) |
| .list-inline | Places all list items on a single line (horizontal menu) | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .list-unstyled | Removes all default list-style (bullets, left margin, etc.) styling from a <ul> or <ol> list | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .mark | Highlights text: Highlighted text | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .media | Aligns media objects (like images or videos - often used for comments in a blog post etc) | [Media Objects](https://www.w3schools.com/bootstrap/bootstrap_media_objects.asp) |
| .media-body | Text that should appear next to a media object | [Media Objects](https://www.w3schools.com/bootstrap/bootstrap_media_objects.asp) |
| .media-heading | Creates a heading inside the media object | [Media Objects](https://www.w3schools.com/bootstrap/bootstrap_media_objects.asp) |
| .media-list | Nested media lists | [Media Objects](https://www.w3schools.com/bootstrap/bootstrap_media_objects.asp) |
| .media-object | Indicates a media object (image or video) | [Media Objects](https://www.w3schools.com/bootstrap/bootstrap_media_objects.asp) |
| .modal | Identifies the content as a modal and brings focus to it | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-body | Defines the style for the body of the modal. Add any HTML markup here (p, img, etc) | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-content | Styles the modal (border, background-color, etc). Inside this, add the modal's header, body and footer, if needed | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-dialog | Sets the proper width and margin of the modal | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-footer | The footer of the modal (often contains an action button and a close button) | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-header | The header of the modal (often contains a title and a close button) | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-lg | Large modal (wider than default) | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-open | Used on the <body> element to prevent page scrolling (overflow:hidden) | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-sm | Small modal (less width) | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .modal-title | The title of the modal | [Modals](https://www.w3schools.com/bootstrap/bootstrap_modal.asp) |
| .nav nav-tabs | Indicates a tabbed menu | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .nav nav-pills | Indicates a pill menu | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .nav .navbar-nav | Used on a <ul> container that contains the list items with links inside a navigation bar | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .nav-justified | Centers tabs/pills. Note that on screens smaller than 768px the items are stacked (content will remain centered) | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .nav-stacked | Vertically stack tabs or pills | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .nav-tabs | Creates a tabbed menu | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .navbar | Creates a navigation bar | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-brand | Added to a link or a header element inside the navbar to represent a logo or a header | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-btn | Vertically aligns a button inside a navbar | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-collapse | Collapses the navbar (hidden and replaced with a menu/hamburger icon on mobile phones and small tablets) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-default | Creates a default navigation bar (light-grey background color) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-fixed-bottom | Makes the navbar stay at the bottom of the screen (sticky/fixed) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-fixed-top | Makes the navbar stay at the top of the screen (sticky/fixed) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-form | Added to form elements inside the navbar to vertically center them (proper padding) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-header | Added to a container element that contains the link/element that represent a logo or a header | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-inverse | Creates a black navigation bar (instead of light-grey) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-left | Aligns nav links, forms, buttons, or text, in the navbar to the left | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-link | Styles an element to look like a link inside the navbar (anchors get proper padding and an underline on hover, while other elements like p or span gets a default hover effect - white color in an inversed navbar and a black color in a default navbar) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-nav | Used on a <ul> container that contains the list items with links inside a navigation bar | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-right | Aligns nav links, forms, buttons, or text in the navbar to the right. | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-static-top | Removes left, top and right borders (rounded corners) from the navbar (default navbar has a gray border and a 4px border-radius by default) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-text | Vertical align any elements inside the navbar that are not links (ensures proper padding) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .navbar-toggle | Styles the button that should open the navbar on small screens. Often used together with three .icon-bar classes to indicate a toggleable menu icon (hamburger/bars) | [Navbar](https://www.w3schools.com/bootstrap/bootstrap_navbar.asp) |
| .next | Used in the carousel control to identity the next control | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .next | Used to align pager buttons to the right side of the page (next button) | [Pager](https://www.w3schools.com/bootstrap/bootstrap_pager.asp) |
| .page-header | Adds a horizontal line under the heading (+ adds some extra space around the element) | [Page Header](https://www.w3schools.com/bootstrap/bootstrap_jumbotron_header.asp) |
| .pager | Creates previous/next buttons (used on <ul> elements) | [Pager](https://www.w3schools.com/bootstrap/bootstrap_pager.asp) |
| .pagination | Creates a pagination (Useful when you have a web site with lots of pages. Used on <ul> elements) | [Pagination](https://www.w3schools.com/bootstrap/bootstrap_pagination.asp) |
| .pagination-lg | Large pagination (each pagination link gets a font-size of 18px. Default is 14px) | [Pagination](https://www.w3schools.com/bootstrap/bootstrap_pagination.asp) |
| .pagination-sm | Small pagination (each pagination link gets a font-size of 12px. Default is 14px) | [Pagination](https://www.w3schools.com/bootstrap/bootstrap_pagination.asp) |
| .panel | Creates a bordered box with some padding around its content | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-body | Container for content inside the panel | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-collapse | Collapsible panel (toggle between hiding and showing panel(s)) | [Collapse](https://www.w3schools.com/bootstrap/bootstrap_collapse.asp) |
| .panel-danger | Red panel. Indicates danger | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-info | Light-blue panel. Indicates information | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-success | Green panel. Indicates success | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-warning | Yellow panel. Indicates warning | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-footer | Creates a panel footer (light background color) | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-group | Used to group many panels together. This removes the bottom margin below each panel | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-heading | Creates a panel header (light background color) | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .panel-title | Used inside a .panel-heading to adjust the styling of the text (removes margins and adds a font-size of 16px) | [Panels](https://www.w3schools.com/bootstrap/bootstrap_panels.asp) |
| .popover | Popup-box that appears when the user clicks on an element | [Popover](https://www.w3schools.com/bootstrap/bootstrap_popover.asp) |
| .pre-scrollable | Makes a <pre> element scrollable (max-height of 350px and provide a y-axis scrollbar) | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .prev | Used in carousels to indicate a "previous" link | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .previous | Used to align pager buttons to the left side of the page (previous button) | [Pager](https://www.w3schools.com/bootstrap/bootstrap_pager.asp) |
| .progress | Container for progress bars | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .progress-bar | Creates a progress bar | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .progress-bar-danger | Red progress bar. Indicates danger | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .progress-bar-info | Light-blue progress bar. Indicates information | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .progress-bar-striped | Creates a striped progress bar | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .progress-bar-success | Green progress bar. Indicates success | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .progress-bar-warning | Yellow progress bar. Indicates warning | [Progress Bars](https://www.w3schools.com/bootstrap/bootstrap_progressbars.asp) |
| .pull-left | Float an element to the left | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .pull-right | Float an element to the right | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .right | Used to identify the right carousel control | [Carousel](https://www.w3schools.com/bootstrap/bootstrap_carousel.asp) |
| .row | Container for responsive columns | [Grid](https://www.w3schools.com/bootstrap/bootstrap_grid_system.asp) |
| .show | Shows an element (display:block) | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .small | Creates a lighter, secondary text in any heading | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .sr-only | Hides an element on all devices except for screen readers | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .sr-only-focusable | Hides an element on all devices except for screen readers | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .success | Adds a green background color to a table row (<tr> or table cell (<td>). Indicates success or a positive action | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .tab-content | Used together with .tab-pane to creates toggleable/dynamic tabs/pills | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .tab-pane | Used together with .tab-content to creates toggleable/dynamic tabs/pills | [Tabs](https://www.w3schools.com/bootstrap/bootstrap_tabs_pills.asp) |
| .table | Adds basic styling to a table (padding, bottom borders, etc) | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .table-bordered | Adds borders on all sides of the table and cells | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .table-condensed | Makes a table more compact by cutting cell padding in half | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .table-hover | Creates a hoverable table (adds a grey background color on table rows on hover) | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .table-responsive | Makes a table responsive (adds a horizontal scrollbar when needed) | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .text-capitalize | Indicates capitalized text | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-center | Center-aligns text | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-danger | Red text color. Indicates danger | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-hide | Hides text (helps replace an element's text content with a background image) | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-info | Light-blue text color. Indicates information | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-justify | Indicates justified text | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-left | Aligns the text to the left | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-lowercase | Changes text to lowercase | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-muted | Grey text color | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-nowrap | Prevents the text from wrapping | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-primary | Blue text color | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-right | Aligns text to the right | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-success | Green text color. Indicates success | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-uppercase | Makes text uppercase | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .text-warning | Yellow/orange text color. Indicates warning | [Typography](https://www.w3schools.com/bootstrap/bootstrap_typography.asp) |
| .thumbnail | Adds a border around an element (often images or videos) to make it look like a thumbnail | [Images](https://www.w3schools.com/bootstrap/bootstrap_images.asp) |
| .tooltip | Popup-box that appears when the user moves the mouse pointer over an element | [Tooltip](https://www.w3schools.com/bootstrap/bootstrap_tooltip.asp) |
| .visible-\* | Deprecated as of v3.2.0. Used to show and/or hide content by device. **Note:** Use .hidden-\* instead | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .visible-print-block | Displays the element (display:block) in print (pre)view | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .visible-print-inline | Displays the element (display:inline) in print (pre)view | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .visible-print-inline-block | Displays the element (display:inline-block) in print (pre)view | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .hidden-print | Hides the element (display:none) in print (pre)view | [Helpers](https://www.w3schools.com/bootstrap/bootstrap_ref_css_helpers.asp) |
| .warning | Adds a yellow background color to the table row (<tr> or table cell (<td>). Indicates a warning | [Tables](https://www.w3schools.com/bootstrap/bootstrap_tables.asp) |
| .well | Adds a rounded border around an element with a gray background color and some padding | [Wells](https://www.w3schools.com/bootstrap/bootstrap_wells.asp) |
| .well-lg | Large well (more padding) | [Wells](https://www.w3schools.com/bootstrap/bootstrap_wells.asp) |
| .well-sm | Small well (less padding) | [Wells](https://www.w3schools.com/bootstrap/bootstrap_wells.asp) |

# Bootstrap CSS Typography

# ReferenceBootstrap's Default Settings

Bootstrap's global default font-size is 14px, with a line-height of 1.428.

This is applied to the <body> and all paragraphs.

In addition, all <p> elements have a bottom margin that equals half their computed line-height (10px by default).

## Typography

The elements below are HTML elements that will be styled a little bit differently by Bootstrap than browser defaults. Look at the "Try it" examples to see the result/differences.

The classes below is used to style the elements further.

|  |  |
| --- | --- |
| Element/Class | Description |
| <h1> - <h6> or .h1 - .h6 | h1 - h6 headings |
| <small> | Creates a lighter, secondary text in any heading  Heading (secondary text) |
| .small | Indicates smaller text (set to 85% of the size of the parent): Smaller text |
| .lead | Makes a text stand out: Stand out text |
| <mark> or .mark | Highlights text: Highlighted text |
| <del> | Indicates deleted text: |
| <s> | Indicates no longer relevant text: ~~No longer relevant text~~ |
| <ins> | Indicates inserted text: Inserted text |
| <u> | Indicates underlined text: Underlined text |
| <strong> | Indicates bold text: **Bold text** |
| <em> | Indicates italic text: Italic text |
| .text-left | Indicates left-aligned text |
| .text-center | Indicates center-aligned text |
| .text-right | Indicates right-aligned text |
| .text-justify | Indicates justified text |
| .text-nowrap | Indicates no wrap text |
| .text-lowercase | Indicates lowercased text: lowercased text |
| .text-uppercase | Indicates uppercased text: UPPERCASED TEXT |
| .text-capitalize | Indicates capitalized text: Capitalized Text |
| <abbr> | The <abbr> element indicates an abbreviation or acronym. Abbreviations with a title attribute have a dotted bottom border and a help cursor on hover, providing additional context on hover. |
| .initialism | Displays the text inside the <abbr> element in a slightly smaller font size |
| <address> | Presents contact information |
| <blockquote> | Indicates blocks of content from another source |
| .blockquote-reverse | Indicates a blockquote with right-aligned content |
| <ul> | Indicates an unordered list |
| <ol> | Indicates an ordered list |
| .list-unstyled | Removes the default list-style and left margin on list items (works on both <ul> and <ol>). This class only applies to immediate children list items (to remove the default list-style from any nested lists, apply this class to any nested lists as well) |
| .list-inline | Places all list items on a single line |
| <dl> | Indicates a description list |
| .dl-horizontal | Lines up the terms and descriptions in the <dl> element side-by-side. Starts off like default <dl>s, but when the browser window expands, it will line up side-by-side |

## Code

|  |  |
| --- | --- |
| Element/Class | Description |
| <var> | Indicates variables: x = ab + y |
| <kbd> | Indicates input that is typically entered via the keyboard: CTRL + P |
| <pre> | Indicates multiple lines of code |
| <pre class="pre-scrollable"> | Indicates multiple lines of code with scrollbar |
| <samp> | Indicates sample output from a computer program: Sample output |
| <code> | Indicates inline snippets of code: span, div |

# Bootstrap CSS Buttons Reference

## Button Classes

The classes below can be used to style any <a>, <button>, or <input> element:

|  |  |
| --- | --- |
| Class | Description |
| .btn | Adds basic styling to any button |
| .btn-default | Indicates a default/standard button |
| .btn-primary | Provides extra visual weight and identifies the primary action in a set of buttons |
| .btn-success | Indicates a successful or positive action |
| .btn-info | Contextual button for informational alert messages |
| .btn-warning | Indicates caution should be taken with this action |
| .btn-danger | Indicates a dangerous or potentially negative action |
| .btn-link | Makes a button look like a link (will still have button behavior) |
| .btn-lg | Makes a large button |
| .btn-sm | Makes a small button |
| .btn-xs | Makes an extra small button |
| .btn-block | Makes a block-level button (spans the full width of the parent element) |
| .active | Makes the button appear pressed |
| .disabled | Makes the button disabled |
| .navbar-btn | Vertically aligns a button inside a navbar |

## Button Group Classes

The classes below can be used to style any <a>, <button>, or <input> element:

|  |  |
| --- | --- |
| Class | Description |
| .btn-group | Groups buttons together on a single line |
| .btn-group-justified | Makes a group of buttons span the entire width of the screen |
| .btn-group-lg | Large button group (makes all buttons in a button group larger - increased font-size and padding) |
| .btn-group-sm | Small button group (makes all buttons in a button group smaller) |
| .btn-group-xs | Extra small button group (makes all buttons in a button group extra small) |
| .btn-group-vertical | Makes a button group appear vertically stacked |

# Bootstrap CSS Forms Reference

## Bootstrap's Default Settings

Individual form controls automatically receive some global styling with Bootstrap.

All textual <input>, <textarea>, and <select> elements with class="form-control" are set to width: 100%; by default.

Standard rules for all three form layouts:

Wrap labels and form controls in <div class="form-group"> (needed for optimum spacing)

Add class .form-control to all textual <input>, <textarea>, and <select> elements

The following example creates a simple Bootstrap form with two input fields, one checkbox, and a submit button:

|  |
| --- |
| <form>   <div class="form-group">     <label for="email">Email address:</label>     <input type="email" class="form-control" id="email">   </div>   <div class="form-group">     <label for="pwd">Password:</label>     <input type="password" class="form-control" id="pwd">   </div>   <div class="checkbox">     <label><input type="checkbox"> Remember me</label>   </div>   <button type="submit" class="btn btn-default">Submit</button> </form> |

## Form Classes

|  |  |
| --- | --- |
| Class | Description |
| .form-inline | Makes a <form> left-aligned with inline-block controls (This only applies to forms within viewports that are at least 768px wide) |
| .form-horizontal | Aligns labels and groups of form controls in a horizontal layout |
| .form-control | Used on input, textarea, and select elements to span the entire width of the page and make them responsive |
| .form-control-feedback | Form validation class |
| .form-control-static | Adds plain text next to a form label within a horizontal form |
| .form-group | Container for form input and label |

## Input Classes

|  |  |
| --- | --- |
| Class | Description |
| .input-group | Container to enhance an input by adding an icon, text or a button in front or behind it as a "help text" |
| .input-group-lg | Large input group |
| .input-group-sm | Small input group |
| .input-group-addon | Together with the .input-group class, this class makes it possible to add an icon or help text next to the input field |
| .input-group-btn | Together with the .input-group class, this class attaches a button next to an input. Often used as a search bar |
| .input-lg | Large input field |
| .input-sm | Small input field |

# Bootstrap CSS Images Reference

## Bootstrap Images

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rounded Corners: | | Circle: | | Thumbnail: | |
| Cinque Terre | Cinque Terre | | Cinque Terre | |

## <img> Classes

The classes below can be used to style any image:

|  |  |
| --- | --- |
| Class | Description |
| .img-rounded | Adds rounded corners to an image (not available in IE8) |
| .img-circle | Shapes the image to a circle (not available in IE8) |
| .img-thumbnail | Shapes the image to a thumbnail |
| .img-responsive | Makes an image responsive (will scale nicely to the parent element) |

## Responsive Images

Create responsive images by adding an .img-responsive class to the <img> tag. The image will then scale nicely to the parent element.

The .img-responsive class applies max-width: 100%, height: auto, and display:block to the image:

|  |
| --- |
| <img src="cinqueterre.jpg" class="img-responsive" alt="Cinque Terre"> |

# Bootstrap CSS Tables Reference

## <table> Classes

Use the classes below to style any table:

|  |  |
| --- | --- |
| Class | Description |
| .table | Adds basic styling (light padding and only horizontal dividers) to any <table> |
| .table-striped | Adds zebra-striping to any table row within <tbody> (not available in IE8) |
| .table-bordered | Adds border on all sides of the table and cells |
| .table-hover | Enables a hover state on table rows within a <tbody> |
| .table-condensed | Makes table more compact by cutting cell padding in half |
| Combining all the table classes | |

## <tr>, <th> and <td> Classes

Use the classes below to color table rows or cells:

|  |  |
| --- | --- |
| Class | Description |
| .active | Applies the hover color (light-grey) to a particular row or cell |
| .success | Indicates a successful or positive action |
| .info | Indicates a neutral informative change or action |
| .warning | Indicates a warning that might need attention |
| .danger | Indicates a dangerous or potentially negative action |

## Responsive Tables

The .table-responsive class creates a responsive table. The table will then scroll horizontally on small devices (under 768px). When viewing on anything larger than 768px wide, there is no difference:

|  |
| --- |
| <div class="table-responsive">   <table class="table">     ...   </table> </div> |

# Bootstrap Dropdown Components

## Dropdowns

|  |  |
| --- | --- |
| Class | Description |
| .dropdown | Indicates a dropdown menu |
| .dropdown-menu | Builds the dropdown menu |
| .dropdown-menu-right | Right-aligns a dropdown menu |
| .dropdown-header | Adds a header inside the dropdown menu |
| .dropup | Indicates a dropup menu |
| .disabled | Disables an item in the dropdown menu |
| .divider | Separates items inside the dropdown menu with a horizontal line |

## Collapsibles

|  |  |
| --- | --- |
| Class | Description |
| .collapse | Indicates collapsible content - which can be hidden or shown on demand |
| .collapse .in | Show the collapsible content by default |
| .panel-collapse | Collapsible panel (toggle between hiding and showing panel(s)) |
|  | Collapsible list group |
|  | Accordion |

# Bootstrap Navigation Components

## Tabs and Pills

|  |  |
| --- | --- |
| Class | Description |
| .nav nav-tabs | Creates navigation tabs |
| .nav nav-pills | Creates navigation pills |
| .nav nav-pills nav-stacked | Creates vertical navigation pills |
| .nav-justified | Makes navigation tabs/pills equal widths of their parent, at screens wider than 768px. On smaller screens, the nav tabs/pills are stacked |
| .disabled | Indicates a disabled (unclickable) tab/pill |
| Navigation tabs with dropdown menu | |
| Navigation pills with dropdown menu | |
| .tab-content | Together with .tab-pane and data-toggle="tab" (data-toggle="pill" for pills), it makes the tab/pill toggleable |
| .tab-pane | Together with .tab-content and data-toggle="tab" (data-toggle="pill" for pills), it makes the tab/pill toggleable |

## Navbars

|  |  |
| --- | --- |
| Class | Description |
| .navbar | Creates a navigation bar |
| .navbar-brand | Added to a link or a header element inside the navbar to represent a logo or a header |
| .navbar-btn | Vertically aligns a button inside a navbar |
| .navbar-collapse | Collapses the navbar (hidden and replaced with a menu/hamburger icon on mobile phones and small tablets) |
| .navbar-default | Creates a default navigation bar (light-grey background color) |
| .navbar-fixed-bottom | Makes the navbar stay at the bottom of the screen (sticky/fixed) |
| .navbar-fixed-top | Makes the navbar stay at the top of the screen (sticky/fixed) |
| .navbar-form | Added to form elements inside the navbar to vertically center them (proper padding) |
| .navbar-header | Added to a container element that contains the link/element that represent a logo or a header |
| .navbar-inverse | Creates a black navigation bar (instead of light-grey) |
| .navbar-left | Aligns nav links, forms, buttons, or text, in the navbar to the left |
| .navbar-link | Styles an element to look like a link inside the navbar (anchors get proper padding and an underline on hover, while other elements like p or span gets a default hover effect - white color in an inversed navbar and a black color in a default navbar) |
| .navbar-nav | Used on a <ul> container that contains the list items with links inside a navigation bar |
| .navbar-right | Aligns nav links, forms, buttons, or text in the navbar to the right. |
| .navbar-static-top | Removes left, top and right borders (rounded corners) from the navbar (default navbar has a gray border and a 4px border-radius by default) |
| .navbar-text | Vertical align any elements inside the navbar that are not links (ensures proper padding) |
| .navbar-toggle | Styles the button that should open the navbar on small screens. Often used together with three .icon-bar classes to indicate a toggleable menu icon (hamburger/bars) |

## Breadcrumbs and Pagination

|  |  |
| --- | --- |
| Class | Description |
| .breadcrumb | Makes a breadcrumb |
| .pager | Provides simple pagination links (Previous/Next) |
| .previous | Aligns the .pager previous button to the left |
| .next | Aligns the .pager next button to the right |
| .disabled | Indicates an unclickable link |
| .pagination | Provides pagination links |
| .pagination-lg | Used together with the .pagination class to provide larger pagination links |
| .pagination-sm | Used together with the .pagination class to provide smaller pagination links |
| .disabled | Indicates an unclickable link |
| .active | Indicates the current page |

## Labels and Badges

|  |  |
| --- | --- |
| Class | Description |
| .label label-default | Indicates a default grey label |
| .label label-primary | Indicates a blue label of type "primary" |
| .label label-success | Indicates a green label of type "success" |
| .label label-info | Indicates a light blue label of type "info" |
| .label label-warning | Indicates a yellow label of type "warning" |
| .label label-danger | Indicates a red label of type "danger" |
| .badge | Indicates new or unread items |
| .jumbotron | Indicates a big box for calling extra attention to featured content or information |
| .jumbotron (extra) | To let the .jumbotron box span the full width, and without rounded corners, place it outside the .container class |

# Bibliography

W3Schools - https://www.w3schools.com/default.asp