



# CSS Reference

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W3Schools' CSS reference is tested regularly with all major browsers.

## CSS Properties

### CSS Property Groups

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

## Color Properties

Property	Description	CSS
<u>color</u>	Sets the color of text	1
<u>opacity</u>	Sets the opacity level for an element	3

## Background and Border Properties

Property	Description	CSS
<u>background</u>	A shorthand property for setting all the background properties in one declaration	1
<u>background-attachment</u>	Sets whether a background image is fixed or scrolls with the rest of the page	1
<u>background-blend-mode</u>	Specifies the blending mode of each background layer (color/image)	3
<u>background-color</u>	Specifies the background color of an element	1
<u>background-image</u>	Specifies one or more background images for an element	1
<u>background-position</u>	Specifies the position of a background image	1
<u>background-repeat</u>	Sets how a background image will be repeated	1
<u>background-clip</u>	Specifies the painting area of the background	3
<u>background-origin</u>	Specifies where the background image(s) is/are positioned	3
<u>background-size</u>	Specifies the size of the background image(s)	3
<u>border</u>	Sets all the border properties in one declaration	1
<u>border-bottom</u>	Sets all the bottom border properties in one declaration	1
<u>border-bottom-color</u>	Sets the color of the bottom border	1
<u>border-bottom-left-radius</u>	Defines the shape of the border of the bottom-left corner	3

<u><a href="#">border-bottom-right-radius</a></u>	Defines the shape of the border of the bottom-right corner	3
<u><a href="#">border-bottom-style</a></u>	Sets the style of the bottom border	1
<u><a href="#">border-bottom-width</a></u>	Sets the width of the bottom border	1
<u><a href="#">border-color</a></u>	Sets the color of the four borders	1
<u><a href="#">border-image</a></u>	A shorthand property for setting all the border-image-* properties	3
<u><a href="#">border-image-outset</a></u>	Specifies the amount by which the border image area extends beyond the border box	3
<u><a href="#">border-image-repeat</a></u>	Specifies whether the border image should be repeated, rounded or stretched	3
<u><a href="#">border-image-slice</a></u>	Specifies how to slice the border image	3
<u><a href="#">border-image-source</a></u>	Specifies the path to the image to be used as a border	3
<u><a href="#">border-image-width</a></u>	Specifies the widths of the image-border	3
<u><a href="#">border-left</a></u>	Sets all the left border properties in one declaration	1
<u><a href="#">border-left-color</a></u>	Sets the color of the left border	1
<u><a href="#">border-left-style</a></u>	Sets the style of the left border	1
<u><a href="#">border-left-width</a></u>	Sets the width of the left border	1
<u><a href="#">border-radius</a></u>	A shorthand property for setting all the four border-*-radius properties	3
<u><a href="#">border-right</a></u>	Sets all the right border properties in one declaration	1
<u><a href="#">border-right-color</a></u>	Sets the color of the right border	1
<u><a href="#">border-right-style</a></u>	Sets the style of the right border	1
<u><a href="#">border-right-width</a></u>	Sets the width of the right border	1
<u><a href="#">border-style</a></u>	Sets the style of the four borders	1
<u><a href="#">border-top</a></u>	Sets all the top border properties in one declaration	1
<u><a href="#">border-top-color</a></u>	Sets the color of the top border	1
<u><a href="#">border-top-left-</a></u>	Defines the shape of the border of the top-left corner	3

<u>radius</u>		
<u>border-top-right-radius</u>	Defines the shape of the border of the top-right corner	3
<u>border-top-style</u>	Sets the style of the top border	1
<u>border-top-width</u>	Sets the width of the top border	1
<u>border-width</u>	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
<u>box-shadow</u>	Attaches one or more drop-shadows to the box	3

## Basic Box Properties

Property	Description	CSS
<u>bottom</u>	Specifies the bottom position of a positioned element	2
<u>clear</u>	Specifies which sides of an element where other floating elements are not allowed	1
<u>clip</u>	Clips an absolutely positioned element	2
<u>display</u>	Specifies how a certain HTML element should be displayed	1
<u>float</u>	Specifies whether or not a box should float	1
<u>height</u>	Sets the height of an element	1
<u>left</u>	Specifies the left position of a positioned element	2
<u>margin</u>	Sets all the margin properties in one declaration	1
<u>margin-bottom</u>	Sets the bottom margin of an element	1
<u>margin-left</u>	Sets the left margin of an element	1
<u>margin-right</u>	Sets the right margin of an element	1
<u>margin-top</u>	Sets the top margin of an element	1
<u>max-height</u>	Sets the maximum height of an element	2
<u>max-width</u>	Sets the maximum width of an element	2

<u>min-height</u>	Sets the minimum height of an element	2
<u>min-width</u>	Sets the minimum width of an element	2
<u>overflow</u>	Specifies what happens if content overflows an element's box	2
<u>overflow-x</u>	Specifies whether or not to clip the left/right edges of the content, if it overflows the element's content area	3
<u>overflow-y</u>	Specifies whether or not to clip the top/bottom edges of the content, if it overflows the element's content area	3
<u>padding</u>	Sets all the padding properties in one declaration	1
<u>padding-bottom</u>	Sets the bottom padding of an element	1
<u>padding-left</u>	Sets the left padding of an element	1
<u>padding-right</u>	Sets the right padding of an element	1
<u>padding-top</u>	Sets the top padding of an element	1
<u>position</u>	Specifies the type of positioning method used for an element (static, relative, absolute or fixed)	2
<u>right</u>	Specifies the right position of a positioned element	2
<u>top</u>	Specifies the top position of a positioned element	2
<u>visibility</u>	Specifies whether or not an element is visible	2
<u>width</u>	Sets the width of an element	1
<u>vertical-align</u>	Sets the vertical alignment of an element	1
<u>z-index</u>	Sets the stack order of a positioned element	2

## Flexible Box Layout

Property	Description	CSS
<u>align-content</u>	Specifies the alignment between the lines inside a flexible container when the items do not use all available space	3
<u>align-items</u>	Specifies the alignment for items inside a flexible container	3
<u>align-self</u>	Specifies the alignment for selected items inside a flexible container	3

<u>flex</u>	Specifies the length of the item, relative to the rest	3
<u>flex-basis</u>	Specifies the initial length of a flexible item	3
<u>flex-direction</u>	Specifies the direction of the flexible items	3
<u>flex-flow</u>	A shorthand property for the flex-direction and the flex-wrap properties	3
<u>flex-grow</u>	Specifies how much the item will grow relative to the rest	3
<u>flex-shrink</u>	Specifies how the item will shrink relative to the rest	3
<u>flex-wrap</u>	Specifies whether the flexible items should wrap or not	3
<u>justify-content</u>	Specifies the alignment between the items inside a flexible container when the items do not use all available space	3
<u>order</u>	Sets the order of the flexible item, relative to the rest	3

## Text Properties

Property	Description	CSS
<u>hanging-punctuation</u>	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
<u>letter-spacing</u>	Increases or decreases the space between characters in a text	1
line-break	Specifies how/if to break lines	3
<u>line-height</u>	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
<u>tab-size</u>	Specifies the length of the tab-character	3
<u>text-align</u>	Specifies the horizontal alignment of text	1
<u>text-align-last</u>	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

<u>text-indent</u>	Specifies the indentation of the first line in a text-block	1
<u>text-justify</u>	Specifies the justification method used when text-align is "justify"	3
<u>text-transform</u>	Controls the capitalization of text	1
<u>white-space</u>	Specifies how white-space inside an element is handled	1
<u>word-break</u>	Specifies line breaking rules for non-CJK scripts	3
<u>word-spacing</u>	Increases or decreases the space between words in a text	1
<u>word-wrap</u>	Allows long, unbreakable words to be broken and wrap to the next line	3

## Text Decoration Properties

Property	Description	CSS
<u>text-decoration</u>	Specifies the decoration added to text	1
<u>text-decoration-color</u>	Specifies the color of the text-decoration	3
<u>text-decoration-line</u>	Specifies the type of line in a text-decoration	3
<u>text-decoration-style</u>	Specifies the style of the line in a text decoration	3
<u>text-shadow</u>	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
<u>@font-face</u>	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
<u>font</u>	Sets all the font properties in one declaration	1
<u>font-family</u>	Specifies the font family for text	1

<code>font-feature-settings</code>	Allows control over advanced typographic features in OpenType fonts	3
<code>font-kerning</code>	Controls the usage of the kerning information (how letters are spaced)	3
<code>font-language-override</code>	Controls the usage of language-specific glyphs in a typeface	3
<u><code>font-size</code></u>	Specifies the font size of text	1
<u><code>font-size-adjust</code></u>	Preserves the readability of text when font fallback occurs	3
<u><code>font-stretch</code></u>	Selects a normal, condensed, or expanded face from a font family	3
<u><code>font-style</code></u>	Specifies the font style for text	1
<code>font-synthesis</code>	Controls which missing typefaces (bold or italic) may be synthesized by the browser	3
<u><code>font-variant</code></u>	Specifies whether or not a text should be displayed in a small-caps font	1
<code>font-variant-alternates</code>	Controls the usage of alternate glyphs associated to alternative names defined in <code>@font-feature-values</code>	3
<code>font-variant-caps</code>	Controls the usage of alternate glyphs for capital letters	3
<code>font-variant-east-asian</code>	Controls the usage of alternate glyphs for East Asian scripts (e.g Japanese and Chinese)	3
<code>font-variant-ligatures</code>	Controls which ligatures and contextual forms are used in textual content of the elements it applies to	3
<code>font-variant-numeric</code>	Controls the usage of alternate glyphs for numbers, fractions, and ordinal markers	3
<code>font-variant-position</code>	Controls the usage of alternate glyphs of smaller size positioned as superscript or subscript regarding the baseline of the font	3
<u><code>font-weight</code></u>	Specifies the weight of a font	1

## Writing Modes Properties

Property	Description	CSS
<u><code>direction</code></u>	Specifies the text direction/writing direction	2



<code>text-orientation</code>	Defines the orientation of the text in a line	3
<code>text-combine-upright</code>	Specifies the combination of multiple characters into the space of a single character	3
<code>unicode-bidi</code>	Used together with the <code>direction</code> property to set or return whether the text should be overridden to support multiple languages in the same document	2
<code>writing-mode</code>		3

## Table Properties

Property	Description	CSS
<code><u>border-collapse</u></code>	Specifies whether or not table borders should be collapsed	2
<code><u>border-spacing</u></code>	Specifies the distance between the borders of adjacent cells	2
<code><u>caption-side</u></code>	Specifies the placement of a table caption	2
<code><u>empty-cells</u></code>	Specifies whether or not to display borders and background on empty cells in a table	2
<code><u>table-layout</u></code>	Sets the layout algorithm to be used for a table	2

## Lists and Counters Properties

Property	Description	CSS
<code><u>counter-increment</u></code>	Increments one or more counters	2
<code><u>counter-reset</u></code>	Creates or resets one or more counters	2
<code><u>list-style</u></code>	Sets all the properties for a list in one declaration	1
<code><u>list-style-image</u></code>	Specifies an image as the list-item marker	1
<code><u>list-style-position</u></code>	Specifies if the list-item markers should appear inside or outside the content flow	1
<code><u>list-style-type</u></code>	Specifies the type of list-item marker	1

## Animation Properties

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

## Transform Properties

Property	Description	CSS
<u>backface-visibility</u>	Defines whether or not an element should be visible when not facing the screen	3
<u>perspective</u>	Specifies the perspective on how 3D elements are viewed	3
<u>perspective-origin</u>	Specifies the bottom position of 3D elements	3
<u>transform</u>	Applies a 2D or 3D transformation to an element	3
<u>transform-origin</u>	Allows you to change the position on transformed elements	3
<u>transform-style</u>	Specifies how nested elements are rendered in 3D space	3

## Transitions Properties

Property	Description	CSS
<a href="#"><u>transition</u></a>	A shorthand property for setting the four transition properties	3
<a href="#"><u>transition-property</u></a>	Specifies the name of the CSS property the transition effect is for	3
<a href="#"><u>transition-duration</u></a>	Specifies how many seconds or milliseconds a transition effect takes to complete	3
<a href="#"><u>transition-timing-function</u></a>	Specifies the speed curve of the transition effect	3
<a href="#"><u>transition-delay</u></a>	Specifies when the transition effect will start	3

## Basic User Interface Properties

Property	Description	CSS
<a href="#"><u>box-sizing</u></a>	Tells the browser what the sizing properties (width and height) should include	3
<a href="#"><u>content</u></a>	Used with the :before and :after pseudo-elements, to insert generated content	2
<a href="#"><u>cursor</u></a>	Specifies the type of cursor to be displayed	2
<a href="#"><u>ime-mode</u></a>	Controls the state of the input method editor for text fields	3
<a href="#"><u>nav-down</u></a>	Specifies where to navigate when using the arrow-down navigation key	3
<a href="#"><u>nav-index</u></a>	Specifies the tabbing order for an element	3
<a href="#"><u>nav-left</u></a>	Specifies where to navigate when using the arrow-left navigation key	3
<a href="#"><u>nav-right</u></a>	Specifies where to navigate when using the arrow-right navigation key	3
<a href="#"><u>nav-up</u></a>	Specifies where to navigate when using the arrow-up navigation key	3
<a href="#"><u>outline</u></a>	Sets all the outline properties in one declaration	2
<a href="#"><u>outline-color</u></a>	Sets the color of an outline	2
<a href="#"><u>outline-offset</u></a>	Offsets an outline, and draws it beyond the border edge	3

<u>outline-style</u>	Sets the style of an outline	2
<u>outline-width</u>	Sets the width of an outline	2
<u>resize</u>	Specifies whether or not an element is resizable by the user	3
<u>text-overflow</u>	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
<u>column-count</u>	Specifies the number of columns an element should be divided into	3
<u>column-fill</u>	Specifies how to fill columns	3
<u>column-gap</u>	Specifies the gap between the columns	3
<u>column-rule</u>	A shorthand property for setting all the column-rule-* properties	3
<u>column-rule-color</u>	Specifies the color of the rule between columns	3
<u>column-rule-style</u>	Specifies the style of the rule between columns	3
<u>column-rule-width</u>	Specifies the width of the rule between columns	3
<u>column-span</u>	Specifies how many columns an element should span across	3
<u>column-width</u>	Specifies the width of the columns	3
<u>columns</u>	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
<u>page-break-after</u>	Sets the page-breaking behavior after an element	2
<u>page-break-before</u>	Sets the page-breaking behavior before an element	2
<u>page-break-inside</u>	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
<u>quotes</u>	Sets the type of quotation marks for embedded quotations	2

## Filter Effects Properties

Property	Description	CSS
<u>filter</u>	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

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