# CSS Reference

[« W3Schools Home](http://www.w3schools.com/default.asp)

[Next Reference »](http://www.w3schools.com/cssref/css_selectors.asp)

NoteW3Schools' CSS reference is tested regularly with all major browsers.

## CSS Properties

### CSS Property Groups

|  |  |  |
| --- | --- | --- |
| * [Color](http://www.w3schools.com/cssref/default.asp#color) * [Background and Borders](http://www.w3schools.com/cssref/default.asp#background) * [Basic Box](http://www.w3schools.com/cssref/default.asp#basic) * [Flexible Box](http://www.w3schools.com/cssref/default.asp#flexible) * [Text](http://www.w3schools.com/cssref/default.asp#text) * [Text Decoration](http://www.w3schools.com/cssref/default.asp#textdecor) * [Fonts](http://www.w3schools.com/cssref/default.asp#font) * [Writing Modes](http://www.w3schools.com/cssref/default.asp#writing) | * [Table](http://www.w3schools.com/cssref/default.asp#table) * [Lists and Counters](http://www.w3schools.com/cssref/default.asp#lists) * [Animation](http://www.w3schools.com/cssref/default.asp#animation) * [Transform](http://www.w3schools.com/cssref/default.asp#transform) * [Transition](http://www.w3schools.com/cssref/default.asp#transition) * [Basic User Interface](http://www.w3schools.com/cssref/default.asp#user) * [Multi-column](http://www.w3schools.com/cssref/default.asp#multicol) | * [Paged Media](http://www.w3schools.com/cssref/default.asp#paged) * [Generated Content](http://www.w3schools.com/cssref/default.asp#gencon) * [Filter Effects](http://www.w3schools.com/cssref/default.asp#filter) * [Image/Replaced Content](http://www.w3schools.com/cssref/default.asp#image) * [Masking](http://www.w3schools.com/cssref/default.asp#masking) * [Speech](http://www.w3schools.com/cssref/default.asp#speech) * [Marquee](http://www.w3schools.com/cssref/default.asp#marquee) |

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

## Color Properties

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

## Background and Border Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [background](http://www.w3schools.com/cssref/css3_pr_background.asp) | Sets all the background properties in one declaration | 1 |
| [background-attachment](http://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-color](http://www.w3schools.com/cssref/pr_background-color.asp) | Sets the background color of an element | 1 |
| [background-image](http://www.w3schools.com/cssref/pr_background-image.asp) | Sets the background image for an element | 1 |
| [background-position](http://www.w3schools.com/cssref/pr_background-position.asp) | Sets the starting position of a background image | 1 |
| [background-repeat](http://www.w3schools.com/cssref/pr_background-repeat.asp) | Sets how a background image will be repeated | 1 |
| [background-clip](http://www.w3schools.com/cssref/css3_pr_background-clip.asp) | Specifies the painting area of the background | 3 |
| [background-origin](http://www.w3schools.com/cssref/css3_pr_background-origin.asp) | Specifies the positioning area of the background images | 3 |
| [background-size](http://www.w3schools.com/cssref/css3_pr_background-size.asp) | Specifies the size of the background images | 3 |
| [border](http://www.w3schools.com/cssref/pr_border.asp) | Sets all the border properties in one declaration | 1 |
| [border-bottom](http://www.w3schools.com/cssref/pr_border-bottom.asp) | Sets all the bottom border properties in one declaration | 1 |
| [border-bottom-color](http://www.w3schools.com/cssref/pr_border-bottom_color.asp) | Sets the color of the bottom border | 1 |
| [border-bottom-left-radius](http://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](http://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](http://www.w3schools.com/cssref/pr_border-bottom_style.asp) | Sets the style of the bottom border | 1 |
| [border-bottom-width](http://www.w3schools.com/cssref/pr_border-bottom_width.asp) | Sets the width of the bottom border | 1 |
| [border-color](http://www.w3schools.com/cssref/pr_border-color.asp) | Sets the color of the four borders | 1 |
| [border-image](http://www.w3schools.com/cssref/css3_pr_border-image.asp) | A shorthand property for setting all the border-image-\* properties | 3 |
| [border-image-outset](http://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](http://www.w3schools.com/cssref/css3_pr_border-image-repeat.asp) | Specifies whether the image-border should be repeated, rounded or stretched | 3 |
| [border-image-slice](http://www.w3schools.com/cssref/css3_pr_border-image-slice.asp) | Specifies the inward offsets of the image-border | 3 |
| [border-image-source](http://www.w3schools.com/cssref/css3_pr_border-image-source.asp) | Specifies an image to be used as a border | 3 |
| [border-image-width](http://www.w3schools.com/cssref/css3_pr_border-image-width.asp) | Specifies the widths of the image-border | 3 |
| [border-left](http://www.w3schools.com/cssref/pr_border-left.asp) | Sets all the left border properties in one declaration | 1 |
| [border-left-color](http://www.w3schools.com/cssref/pr_border-left_color.asp) | Sets the color of the left border | 1 |
| [border-left-style](http://www.w3schools.com/cssref/pr_border-left_style.asp) | Sets the style of the left border | 1 |
| [border-left-width](http://www.w3schools.com/cssref/pr_border-left_width.asp) | Sets the width of the left border | 1 |
| [border-radius](http://www.w3schools.com/cssref/css3_pr_border-radius.asp) | A shorthand property for setting all the four border-\*-radius properties | 3 |
| [border-right](http://www.w3schools.com/cssref/pr_border-right.asp) | Sets all the right border properties in one declaration | 1 |
| [border-right-color](http://www.w3schools.com/cssref/pr_border-right_color.asp) | Sets the color of the right border | 1 |
| [border-right-style](http://www.w3schools.com/cssref/pr_border-right_style.asp) | Sets the style of the right border | 1 |
| [border-right-width](http://www.w3schools.com/cssref/pr_border-right_width.asp) | Sets the width of the right border | 1 |
| [border-style](http://www.w3schools.com/cssref/pr_border-style.asp) | Sets the style of the four borders | 1 |
| [border-top](http://www.w3schools.com/cssref/pr_border-top.asp) | Sets all the top border properties in one declaration | 1 |
| [border-top-color](http://www.w3schools.com/cssref/pr_border-top_color.asp) | Sets the color of the top border | 1 |
| [border-top-left-radius](http://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](http://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](http://www.w3schools.com/cssref/pr_border-top_style.asp) | Sets the style of the top border | 1 |
| [border-top-width](http://www.w3schools.com/cssref/pr_border-top_width.asp) | Sets the width of the top border | 1 |
| [border-width](http://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](http://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](http://www.w3schools.com/cssref/pr_pos_bottom.asp) | Specifies the bottom position of a positioned element | 2 |
| [clear](http://www.w3schools.com/cssref/pr_class_clear.asp) | Specifies which sides of an element where other floating elements are not allowed | 1 |
| [clip](http://www.w3schools.com/cssref/pr_pos_clip.asp) | Clips an absolutely positioned element | 2 |
| [display](http://www.w3schools.com/cssref/pr_class_display.asp) | Specifies how a certain HTML element should be displayed | 1 |
| [float](http://www.w3schools.com/cssref/pr_class_float.asp) | Specifies whether or not a box should float | 1 |
| [height](http://www.w3schools.com/cssref/pr_dim_height.asp) | Sets the height of an element | 1 |
| [left](http://www.w3schools.com/cssref/pr_pos_left.asp) | Specifies the left position of a positioned element | 2 |
| [overflow](http://www.w3schools.com/cssref/pr_pos_overflow.asp) | Specifies what happens if content overflows an element's box | 2 |
| [overflow-x](http://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](http://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](http://www.w3schools.com/cssref/pr_padding.asp) | Sets all the padding properties in one declaration | 1 |
| [padding-bottom](http://www.w3schools.com/cssref/pr_padding-bottom.asp) | Sets the bottom padding of an element | 1 |
| [padding-left](http://www.w3schools.com/cssref/pr_padding-left.asp) | Sets the left padding of an element | 1 |
| [padding-right](http://www.w3schools.com/cssref/pr_padding-right.asp) | Sets the right padding of an element | 1 |
| [padding-top](http://www.w3schools.com/cssref/pr_padding-top.asp) | Sets the top padding of an element | 1 |
| [position](http://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](http://www.w3schools.com/cssref/pr_pos_right.asp) | Specifies the right position of a positioned element | 2 |
| [top](http://www.w3schools.com/cssref/pr_pos_top.asp) | Specifies the top position of a positioned element | 2 |
| [visibility](http://www.w3schools.com/cssref/pr_class_visibility.asp) | Specifies whether or not an element is visible | 2 |
| [width](http://www.w3schools.com/cssref/pr_dim_width.asp) | Sets the width of an element | 1 |
| [vertical-align](http://www.w3schools.com/cssref/pr_pos_vertical-align.asp) | Sets the vertical alignment of an element | 1 |
| [z-index](http://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](http://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](http://www.w3schools.com/cssref/css3_pr_align-items.asp) | Specifies the alignment for items inside a flexible container. | 3 |
| [align-self](http://www.w3schools.com/cssref/css3_pr_align-self.asp) | Specifies the alignment for selected items inside a flexible container. | 3 |
| [display](http://www.w3schools.com/cssref/pr_class_display.asp) | Specifies how a certain HTML element should be displayed | 1 |
| [flex](http://www.w3schools.com/cssref/css3_pr_flex.asp) | Specifies the length of the item, relative to the rest | 3 |
| [flex-basis](http://www.w3schools.com/cssref/css3_pr_flex-basis.asp) | Specifies the initial length of a flexible item | 3 |
| [flex-direction](http://www.w3schools.com/cssref/css3_pr_flex-direction.asp) | Specifies the direction of the flexible items | 3 |
| [flex-flow](http://www.w3schools.com/cssref/css3_pr_flex-flow.asp) | A shorthand property for the flex-direction and the flex-wrap properties | 3 |
| [flex-grow](http://www.w3schools.com/cssref/css3_pr_flex-grow.asp) | Specifies how much the item will grow relative to the rest | 3 |
| [flex-shrink](http://www.w3schools.com/cssref/css3_pr_flex-shrink.asp) | Specifies how the item will shrink relative to the rest | 3 |
| [flex-wrap](http://www.w3schools.com/cssref/css3_pr_flex-wrap.asp) | Specifies whether the flexible items should wrap or not | 3 |
| [justify-content](http://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 |
| [margin](http://www.w3schools.com/cssref/pr_margin.asp) | Sets all the margin properties in one declaration | 1 |
| [margin-bottom](http://www.w3schools.com/cssref/pr_margin-bottom.asp) | Sets the bottom margin of an element | 1 |
| [margin-left](http://www.w3schools.com/cssref/pr_margin-left.asp) | Sets the left margin of an element | 1 |
| [margin-right](http://www.w3schools.com/cssref/pr_margin-right.asp) | Sets the right margin of an element | 1 |
| [margin-top](http://www.w3schools.com/cssref/pr_margin-top.asp) | Sets the top margin of an element | 1 |
| [max-height](http://www.w3schools.com/cssref/pr_dim_max-height.asp) | Sets the maximum height of an element | 2 |
| [max-width](http://www.w3schools.com/cssref/pr_dim_max-width.asp) | Sets the maximum width of an element | 2 |
| [min-height](http://www.w3schools.com/cssref/pr_dim_min-height.asp) | Sets the minimum height of an element | 2 |
| [min-width](http://www.w3schools.com/cssref/pr_dim_min-width.asp) | Sets the minimum width of an element | 2 |
| [order](http://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](http://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](http://www.w3schools.com/cssref/pr_text_letter-spacing.asp) | Increases or decreases the space between characters in a text | 1 |
| line-break |  | 3 |
| [line-height](http://www.w3schools.com/cssref/pr_dim_line-height.asp) | Sets the line height | 1 |
| overflow-wrap |  | 3 |
| [tab-size](http://www.w3schools.com/cssref/css3_pr_tab-size.asp) | Specifies the length of the tab-character | 3 |
| [text-align](http://www.w3schools.com/cssref/pr_text_text-align.asp) | Specifies the horizontal alignment of text | 1 |
| [text-align-last](http://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-indent](http://www.w3schools.com/cssref/pr_text_text-indent.asp) | Specifies the indentation of the first line in a text-block | 1 |
| [text-justify](http://www.w3schools.com/cssref/css3_pr_text-justify.asp) | Specifies the justification method used when text-align is "justify" | 3 |
| [text-transform](http://www.w3schools.com/cssref/pr_text_text-transform.asp) | Controls the capitalization of text | 1 |
| [white-space](http://www.w3schools.com/cssref/pr_text_white-space.asp) | Specifies how white-space inside an element is handled | 1 |
| [word-break](http://www.w3schools.com/cssref/css3_pr_word-break.asp) | Specifies line breaking rules for non-CJK scripts | 3 |
| [word-spacing](http://www.w3schools.com/cssref/pr_text_word-spacing.asp) | Increases or decreases the space between words in a text | 1 |
| [word-wrap](http://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](http://www.w3schools.com/cssref/pr_text_text-decoration.asp) | Specifies the decoration added to text | 1 |
| [text-decoration-color](http://www.w3schools.com/cssref/css3_pr_text-decoration-color.asp) | Specifies the color of the text-decoration | 3 |
| [text-decoration-line](http://www.w3schools.com/cssref/css3_pr_text-decoration-line.asp) | Specifies the type of line in a text-decoration | 3 |
| [text-decoration-style](http://www.w3schools.com/cssref/css3_pr_text-decoration-style.asp) | Specifies the style of the line in a text decoration | 3 |
| [text-shadow](http://www.w3schools.com/cssref/css3_pr_text-shadow.asp) | Adds shadow to text | 3 |
| text-underline-position |  | 3 |

## Font Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [font](http://www.w3schools.com/cssref/pr_font_font.asp) | Sets all the font properties in one declaration | 1 |
| [font-family](http://www.w3schools.com/cssref/pr_font_font-family.asp) | Specifies the font family for text | 1 |
| font-feature-setting |  | 3 |
| @font-feature-values |  | 3 |
| font-kerning |  | 3 |
| font-language-override |  | 3 |
| font-synthesis |  | 3 |
| font-variant-alternates |  | 3 |
| font-variant-caps |  | 3 |
| font-variant-east-asian |  | 3 |
| font-variant-ligatures |  | 3 |
| font-variant-numeric |  | 3 |
| font-variant-position |  | 3 |
| [font-size](http://www.w3schools.com/cssref/pr_font_font-size.asp) | Specifies the font size of text | 1 |
| [font-style](http://www.w3schools.com/cssref/pr_font_font-style.asp) | Specifies the font style for text | 1 |
| [font-variant](http://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-weight](http://www.w3schools.com/cssref/pr_font_weight.asp) | Specifies the weight of a font | 1 |
| [@font-face](http://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-size-adjust](http://www.w3schools.com/cssref/css3_pr_font-size-adjust.asp) | Preserves the readability of text when font fallback occurs | 3 |
| [font-stretch](http://www.w3schools.com/cssref/css3_pr_font-stretch.asp) | Selects a normal, condensed, or expanded face from a font family | 3 |

## Writing Modes Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [direction](http://www.w3schools.com/cssref/pr_text_direction.asp) | Specifies the text direction/writing direction | 2 |
| text-orientation |  | 3 |
| text-combine-horizontal |  | 3 |
| [unicode-bidi](http://www.w3schools.com/cssref/pr_text_unicode-bidi.asp) | Used together with the [direction](http://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 |
| writing-mode |  | 3 |

## Table Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [border-collapse](http://www.w3schools.com/cssref/pr_tab_border-collapse.asp) | Specifies whether or not table borders should be collapsed | 2 |
| [border-spacing](http://www.w3schools.com/cssref/pr_tab_border-spacing.asp) | Specifies the distance between the borders of adjacent cells | 2 |
| [caption-side](http://www.w3schools.com/cssref/pr_tab_caption-side.asp) | Specifies the placement of a table caption | 2 |
| [empty-cells](http://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](http://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](http://www.w3schools.com/cssref/pr_gen_counter-increment.asp) | Increments one or more counters | 2 |
| [counter-reset](http://www.w3schools.com/cssref/pr_gen_counter-reset.asp) | Creates or resets one or more counters | 2 |
| [list-style](http://www.w3schools.com/cssref/pr_list-style.asp) | Sets all the properties for a list in one declaration | 1 |
| [list-style-image](http://www.w3schools.com/cssref/pr_list-style-image.asp) | Specifies an image as the list-item marker | 1 |
| [list-style-position](http://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](http://www.w3schools.com/cssref/pr_list-style-type.asp) | Specifies the type of list-item marker | 1 |

## Animation Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [@keyframes](http://www.w3schools.com/cssref/css3_pr_animation-keyframes.asp) | Specifies the animation | 3 |
| [animation](http://www.w3schools.com/cssref/css3_pr_animation.asp) | A shorthand property for all the animation properties below, except the animation-play-state property | 3 |
| [animation-delay](http://www.w3schools.com/cssref/css3_pr_animation-delay.asp) | Specifies when the animation will start | 3 |
| [animation-direction](http://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](http://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](http://www.w3schools.com/cssref/css3_pr_animation-fill-mode.asp) | Specifies what values are applied by the animation outside the time it is executing | 3 |
| [animation-iteration-count](http://www.w3schools.com/cssref/css3_pr_animation-iteration-count.asp) | Specifies the number of times an animation should be played | 3 |
| [animation-name](http://www.w3schools.com/cssref/css3_pr_animation-name.asp) | Specifies a name for the @keyframes animation | 3 |
| [animation-timing-function](http://www.w3schools.com/cssref/css3_pr_animation-timing-function.asp) | Specifies the speed curve of the animation | 3 |
| [animation-play-state](http://www.w3schools.com/cssref/css3_pr_animation-play-state.asp) | Specifies whether the animation is running or paused | 3 |

## Transform Properties

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **CSS** |
| [backface-visibility](http://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](http://www.w3schools.com/cssref/css3_pr_perspective.asp) | Specifies the perspective on how 3D elements are viewed | 3 |
| [perspective-origin](http://www.w3schools.com/cssref/css3_pr_perspective-origin.asp) | Specifies the bottom position of 3D elements | 3 |
| [transform](http://www.w3schools.com/cssref/css3_pr_transform.asp) | Applies a 2D or 3D transformation to an element | 3 |
| [transform-origin](http://www.w3schools.com/cssref/css3_pr_transform-origin.asp) | Allows you to change the position on transformed elements | 3 |
| [transform-style](http://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](http://www.w3schools.com/cssref/css3_pr_transition.asp) | A shorthand property for setting the four transition properties | 3 |
| [transition-property](http://www.w3schools.com/cssref/css3_pr_transition-property.asp) | Specifies the name of the CSS property the transition effect is for | 3 |
| [transition-duration](http://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](http://www.w3schools.com/cssref/css3_pr_transition-timing-function.asp) | Specifies the speed curve of the transition effect | 3 |
| [transition-delay](http://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](http://www.w3schools.com/cssref/css3_pr_box-sizing.asp) | Allows you to define certain elements to fit an area in a certain way | 3 |
| [content](http://www.w3schools.com/cssref/pr_gen_content.asp) | Used with the :before and :after pseudo-elements, to insert generated content | 2 |
| [cursor](http://www.w3schools.com/cssref/pr_class_cursor.asp) | Specifies the type of cursor to be displayed | 2 |
| [icon](http://www.w3schools.com/cssref/css3_pr_icon.asp) | Provides the author the ability to style an element with an iconic equivalent | 3 |
| ime-mode |  | 3 |
| [nav-down](http://www.w3schools.com/cssref/css3_pr_nav-down.asp) | Specifies where to navigate when using the arrow-down navigation key | 3 |
| [nav-index](http://www.w3schools.com/cssref/css3_pr_nav-index.asp) | Specifies the tabbing order for an element | 3 |
| [nav-left](http://www.w3schools.com/cssref/css3_pr_nav-left.asp) | Specifies where to navigate when using the arrow-left navigation key | 3 |
| [nav-right](http://www.w3schools.com/cssref/css3_pr_nav-right.asp) | Specifies where to navigate when using the arrow-right navigation key | 3 |
| [nav-up](http://www.w3schools.com/cssref/css3_pr_nav-up.asp) | Specifies where to navigate when using the arrow-up navigation key | 3 |
| [outline](http://www.w3schools.com/cssref/pr_outline.asp) | Sets all the outline properties in one declaration | 2 |
| [outline-color](http://www.w3schools.com/cssref/pr_outline-color.asp) | Sets the color of an outline | 2 |
| [outline-offset](http://www.w3schools.com/cssref/css3_pr_outline-offset.asp) | Offsets an outline, and draws it beyond the border edge | 3 |
| [outline-style](http://www.w3schools.com/cssref/pr_outline-style.asp) | Sets the style of an outline | 2 |
| [outline-width](http://www.w3schools.com/cssref/pr_outline-width.asp) | Sets the width of an outline | 2 |
| [resize](http://www.w3schools.com/cssref/css3_pr_resize.asp) | Specifies whether or not an element is resizable by the user | 3 |
| [text-overflow](http://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 |  | 3 |
| break-before |  | 3 |
| break-inside |  | 3 |
| [column-count](http://www.w3schools.com/cssref/css3_pr_column-count.asp) | Specifies the number of columns an element should be divided into | 3 |
| [column-fill](http://www.w3schools.com/cssref/css3_pr_column-fill.asp) | Specifies how to fill columns | 3 |
| [column-gap](http://www.w3schools.com/cssref/css3_pr_column-gap.asp) | Specifies the gap between the columns | 3 |
| [column-rule](http://www.w3schools.com/cssref/css3_pr_column-rule.asp) | A shorthand property for setting all the column-rule-\* properties | 3 |
| [column-rule-color](http://www.w3schools.com/cssref/css3_pr_column-rule-color.asp) | Specifies the color of the rule between columns | 3 |
| [column-rule-style](http://www.w3schools.com/cssref/css3_pr_column-rule-style.asp) | Specifies the style of the rule between columns | 3 |
| [column-rule-width](http://www.w3schools.com/cssref/css3_pr_column-rule-width.asp) | Specifies the width of the rule between columns | 3 |
| [column-span](http://www.w3schools.com/cssref/css3_pr_column-span.asp) | Specifies how many columns an element should span across | 3 |
| [column-width](http://www.w3schools.com/cssref/css3_pr_column-width.asp) | Specifies the width of the columns | 3 |
| [columns](http://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](http://www.w3schools.com/cssref/pr_print_pageba.asp) | Sets the page-breaking behavior after an element | 2 |
| [page-break-before](http://www.w3schools.com/cssref/pr_print_pagebb.asp) | Sets the page-breaking behavior before an element | 2 |
| [page-break-inside](http://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](http://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 |  | 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 | 3 |
| image-rendering |  | 3 |
| image-resolution |  | 3 |
| object-fit |  | 3 |
| object-position |  | 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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# CSS Selector Reference

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NoteW3Schools' CSS reference is tested regularly with all major browsers.

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

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# CSS Aural Reference

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## 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 |

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# CSS Web Safe Font Combinations

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## 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:

## Example

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

[**Try it yourself »**](http://www.w3schools.com/cssref/tryit.asp?filename=trycss_font-family)

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 |

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# CSS Units

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## Measurement Values

|  |  |
| --- | --- |
| **Unit** | **Description** |
| % | percentage |
| in | inch |
| cm | centimeter |
| mm | millimeter |
| em | 1em is equal to the current font size. 2em means 2 times the size of the current font. E.g., if an element is displayed with a font of 12 pt, then '2em' is 24 pt. The 'em' is a very useful unit in CSS, since it can adapt automatically to the font that the reader uses |
| ex | one ex is the x-height of a font (x-height is usually about half the font-size) |
| pt | point (1 pt is the same as 1/72 inch) |
| pc | pica (1 pc is the same as 12 points) |
| px | pixels (a dot on the computer screen) |

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