

# CSS combinators, pseudo-class and pseudo-element

## All CSS Combinator Selectors

Selector	Example	Example description
<u><i>element element</i></u>	<b>div p</b>	Selects all <p> elements inside <div> elements
<u><i>element&gt;element</i></u>	<b>div &gt; p</b>	Selects all <p> elements where the parent is a <div> element
<u><i>element+element</i></u>	<b>div + p</b>	Selects the first <p> element that are placed immediately after <div> elements
<u><i>element1~element2</i></u>	<b>p ~ ul</b>	Selects every <ul> element that are preceded by a <p> element

## All CSS Pseudo Elements

Selector	Example	Example description
<b>::after</b>	<b>p::after</b>	Insert content after every <p> element
<b>::before</b>	<b>p::before</b>	Insert content before every <p> element
<b>::first-letter</b>	<b>p::first-letter</b>	Selects the first letter of every <p> element
<b>::first-line</b>	<b>p::first-line</b>	Selects the first line of every <p> element
<b>::selection</b>	<b>p::selection</b>	Selects the portion of an element that is selected by a user

## All CSS Pseudo Classes

Selector	Example	Example description
<u><a href="#">:active</a></u>	<b>a:active</b>	Selects the active link
<u><a href="#">:checked</a></u>	<b>input:checked</b>	Selects every checked <input> element
<u><a href="#">:disabled</a></u>	<b>input:disabled</b>	Selects every disabled <input> element
<u><a href="#">:empty</a></u>	<b>p:empty</b>	Selects every <p> element that has no children
<u><a href="#">:enabled</a></u>	<b>input:enabled</b>	Selects every enabled <input> element
<u><a href="#">:first-child</a></u>	<b>p:first-child</b>	Selects every <p> elements that is the first child of its parent
<u><a href="#">:first-of-type</a></u>	<b>p:first-of-type</b>	Selects every <p> element that is the first <p> element of its parent
<u><a href="#">:focus</a></u>	<b>input:focus</b>	Selects the <input> element that has focus
<u><a href="#">:hover</a></u>	<b>a:hover</b>	Selects links on mouse over
<u><a href="#">:in-range</a></u>	<b>input:in-range</b>	Selects <input> elements with a value within a specified range
<u><a href="#">:invalid</a></u>	<b>input:invalid</b>	Selects all <input> elements with an invalid value
<u><a href="#">:lang(language)</a></u>	<b>p:lang(it)</b>	Selects every <p> element with a lang attribute value starting with "it"
<u><a href="#">:last-child</a></u>	<b>p:last-child</b>	Selects every <p> elements that is the last child of its parent
<u><a href="#">:last-of-type</a></u>	<b>p:last-of-type</b>	Selects every <p> element that is the last <p> element of its parent
<u><a href="#">:link</a></u>	<b>a:link</b>	Selects all unvisited links
<u><a href="#">:not(selector)</a></u>	<b>:not(p)</b>	Selects every element that is not a <p> element
<u><a href="#">:nth-child(n)</a></u>	<b>p:nth-child(2)</b>	Selects every <p> element that is the second child of its parent
<u><a href="#">:nth-last-child(n)</a></u>	<b>p:nth-last-child(2)</b>	Selects every <p> element that is the second child of its parent, counting from the last child

<u>:nth-last-of-type(n)</u>	<b>p:nth-last-of-type(2)</b>	Selects every <p> element that is the second <p> element of its parent, counting from the last child
<u>:nth-of-type(n)</u>	<b>p:nth-of-type(2)</b>	Selects every <p> element that is the second <p> element of its parent
<u>:only-of-type</u>	<b>p:only-of-type</b>	Selects every <p> element that is the only <p> element of its parent
<u>:only-child</u>	<b>p:only-child</b>	Selects every <p> element that is the only child of its parent
<u>:optional</u>	<b>input:optional</b>	Selects <input> elements with no "required" attribute
<u>:out-of-range</u>	<b>input:out-of-range</b>	Selects <input> elements with a value outside a specified range
<u>:read-only</u>	<b>input:read-only</b>	Selects <input> elements with a "readonly" attribute specified
<u>:read-write</u>	<b>input:read-write</b>	Selects <input> elements with no "readonly" attribute
<u>:required</u>	<b>input:required</b>	Selects <input> elements with a "required" attribute specified
<u>:root</u>	<b>root</b>	Selects the document's root element
<u>:target</u>	<b>#news:target</b>	Selects the current active #news element (clicked on a URL containing that anchor name)
<u>:valid</u>	<b>input:valid</b>	Selects all <input> elements with a valid value
<u>:visited</u>	<b>a:visited</b>	Selects all visited links

**Reference :**

[https://www.w3schools.com/css/css\\_combinators.asp](https://www.w3schools.com/css/css_combinators.asp)

[https://www.w3schools.com/css/css\\_pseudo\\_elements.asp](https://www.w3schools.com/css/css_pseudo_elements.asp)

[https://www.w3schools.com/css/css\\_pseudo\\_classes.asp](https://www.w3schools.com/css/css_pseudo_classes.asp)