**Assignment 4**

**CSS Selector:**

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| **Selector** | **Example** | **Example description** |
| [.class](https://www.w3schools.com/cssref/sel_class.asp) | .classname | Selects all elements with class="classname" |
| [#id](https://www.w3schools.com/cssref/sel_id.asp) | #firstname | Selects the element with id="firstname" |
| [\*](https://www.w3schools.com/cssref/sel_all.asp) | \* | Selects all elements |
| [element](https://www.w3schools.com/cssref/sel_element.asp) | p | Selects all <p> elements |
| [element,element](https://www.w3schools.com/cssref/sel_element_comma.asp) | div, p | Selects all <div> elements and all <p> elements |
| [element element](https://www.w3schools.com/cssref/sel_element_element.asp) | div p | Selects all <p> elements inside <div> elements |
| [element>element](https://www.w3schools.com/cssref/sel_element_gt.asp) | div > p | Selects all <p> elements where the parent is a <div> element |
| [element+element](https://www.w3schools.com/cssref/sel_element_pluss.asp) | div + p | Selects all <p> elements that are placed immediately after <div> elements |
| [element1~element2](https://www.w3schools.com/cssref/sel_gen_sibling.asp) | p ~ ul | Selects every <ul> element that are preceded by a <p> element |
| [[attribute]](https://www.w3schools.com/cssref/sel_attribute.asp) | [target] | Selects all elements with a target attribute |
| [[attribute=value]](https://www.w3schools.com/cssref/sel_attribute_value.asp) | [target=\_blank] | Selects all elements with target="\_blank" |
| [[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" |
| [[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" |
| [[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" |
| [[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" |
| [[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 |
| [:active](https://www.w3schools.com/cssref/sel_active.asp) | a:active | Selects the active link |
| [::after](https://www.w3schools.com/cssref/sel_after.asp) | p::after | Insert something after the content of each <p> element |
| [::before](https://www.w3schools.com/cssref/sel_before.asp) | p::before | Insert something before the content of each <p> element |
| [:checked](https://www.w3schools.com/cssref/sel_checked.asp) | input:checked | Selects every checked <input> element |
| [:default](https://www.w3schools.com/cssref/sel_default.asp) | input:default | Selects the default <input> element |
| [:disabled](https://www.w3schools.com/cssref/sel_disabled.asp) | input:disabled | Selects every disabled <input> element |
| [:empty](https://www.w3schools.com/cssref/sel_empty.asp) | p:empty | Selects every <p> element that has no children (including text nodes) |
| [:enabled](https://www.w3schools.com/cssref/sel_enabled.asp) | input:enabled | Selects every enabled <input> element |
| [: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 |
| [::first-letter](https://www.w3schools.com/cssref/sel_firstletter.asp) | p::first-letter | Selects the first letter of every <p> element |
| [::first-line](https://www.w3schools.com/cssref/sel_firstline.asp) | p::first-line | Selects the first line of every <p> element |
| [: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 |
| [:focus](https://www.w3schools.com/cssref/sel_focus.asp) | input:focus | Selects the input element which has focus |
| [:hover](https://www.w3schools.com/cssref/sel_hover.asp) | a:hover | Selects links on mouse over |
| [:in-range](https://www.w3schools.com/cssref/sel_in-range.asp) | input:in-range | Selects input elements with a value within a specified range |
| [:indeterminate](https://www.w3schools.com/cssref/sel_indeterminate.asp) | input:indeterminate | Selects input elements that are in an indeterminate state |
| [:invalid](https://www.w3schools.com/cssref/sel_invalid.asp) | input:invalid | Selects all input elements with an invalid value |
| [: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 |
| [: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 |
| [:link](https://www.w3schools.com/cssref/sel_link.asp) | a:link | Selects all unvisited links |
| [: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 |
| [: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 |
| [: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 |
| [: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 |
| [::placeholder](https://www.w3schools.com/cssref/sel_placeholder.asp) | input::placeholder | Selects input elements with placeholder text |
| [::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 |
| [:valid](https://www.w3schools.com/cssref/sel_valid.asp) | input:valid | Selects all input elements with a valid value |
|  |  |  |
| [:visited](https://www.w3schools.com/cssref/sel_visited.asp) | a:visited | Selects all visited links |
| [:required](https://www.w3schools.com/cssref/sel_required.asp) | input:required | Selects input elements with the "required" attribute specified |

**Block-level Elements:**

A block-level element always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).

Example:

<div>Block</div>

<div>level</div>

Block level elements in HTML:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [<address>](https://www.w3schools.com/tags/tag_address.asp) | [<article>](https://www.w3schools.com/tags/tag_article.asp) | [<div>](https://www.w3schools.com/tags/tag_div.asp) | [<dl>](https://www.w3schools.com/tags/tag_dl.asp) | [<dt>](https://www.w3schools.com/tags/tag_dt.asp) |
| [<aside>](https://www.w3schools.com/tags/tag_aside.asp) | [<blockquote>](https://www.w3schools.com/tags/tag_blockquote.asp) | [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp) | [<figcaption>](https://www.w3schools.com/tags/tag_figcaption.asp) | [<figure>](https://www.w3schools.com/tags/tag_figure.asp) |
| [<canvas>](https://www.w3schools.com/tags/tag_canvas.asp) | [<dd>](https://www.w3schools.com/tags/tag_dd.asp) | [<footer>](https://www.w3schools.com/tags/tag_footer.asp) | [<form>](https://www.w3schools.com/tags/tag_form.asp) | [<h1>-<h6>](https://www.w3schools.com/tags/tag_hn.asp) |
| [<header>](https://www.w3schools.com/tags/tag_header.asp) | [<hr>](https://www.w3schools.com/tags/tag_hr.asp) | [<li>](https://www.w3schools.com/tags/tag_li.asp) | [<main>](https://www.w3schools.com/tags/tag_main.asp) | [<nav>](https://www.w3schools.com/tags/tag_nav.asp) |
| [<noscript>](https://www.w3schools.com/tags/tag_noscript.asp) | [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | [<output>](https://www.w3schools.com/tags/tag_output.asp) | [<p>](https://www.w3schools.com/tags/tag_p.asp) | [<pre>](https://www.w3schools.com/tags/tag_pre.asp) |
| [<section>](https://www.w3schools.com/tags/tag_section.asp) | [<table>](https://www.w3schools.com/tags/tag_table.asp) | [<tfoot>](https://www.w3schools.com/tags/tag_tfoot.asp) | [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | [<video>](https://www.w3schools.com/tags/tag_video.asp) |

**Inline Elements:**

An inline element does not start on a new line and only takes up as much width as necessary.

Example:

<span>Inline</span>

<span>Elements</span>

Inline elements in HTML:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [<a>](https://www.w3schools.com/tags/tag_a.asp) | [<abbr>](https://www.w3schools.com/tags/tag_abbr.asp) | [<acronym>](https://www.w3schools.com/tags/tag_acronym.asp) | [<em>](https://www.w3schools.com/tags/tag_em.asp) | [<i>](https://www.w3schools.com/tags/tag_i.asp) |
| [<b>](https://www.w3schools.com/tags/tag_b.asp) | [<button>](https://www.w3schools.com/tags/tag_button.asp) | [<img>](https://www.w3schools.com/tags/tag_img.asp) | [<map>](https://www.w3schools.com/tags/tag_map.asp) | [<script>](https://www.w3schools.com/tags/tag_script.asp) |
| [<bdo>](https://www.w3schools.com/tags/tag_bdo.asp) | [<cite>](https://www.w3schools.com/tags/tag_cite.asp) | [<input>](https://www.w3schools.com/tags/tag_input.asp) | [<object>](https://www.w3schools.com/tags/tag_object.asp) | [<select>](https://www.w3schools.com/tags/tag_select.asp) |
| [<big>](https://www.w3schools.com/tags/tag_big.asp) | [<code>](https://www.w3schools.com/tags/tag_code.asp) | [<kbd>](https://www.w3schools.com/tags/tag_kbd.asp) | [<q>](https://www.w3schools.com/tags/tag_q.asp) | [<small>](https://www.w3schools.com/tags/tag_small.asp) |
| [<br>](https://www.w3schools.com/tags/tag_br.asp) | [<dfn>](https://www.w3schools.com/tags/tag_dfn.asp) | [<label>](https://www.w3schools.com/tags/tag_label.asp) | [<samp>](https://www.w3schools.com/tags/tag_samp.asp) | [<span>](https://www.w3schools.com/tags/tag_span.asp) |
| [<strong>](https://www.w3schools.com/tags/tag_strong.asp) | [<sub>](https://www.w3schools.com/tags/tag_sub.asp) | [<sup>](https://www.w3schools.com/tags/tag_sup.asp) | [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | [<time>](https://www.w3schools.com/tags/tag_time.asp) |

**Semantic Element:**

A semantic element clearly describes its meaning to both the browser and the developer.

Semantic Element Name:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| <article> | <aside> | <details> | <figcaption> | <figure> |
| <footer> | <header> | <main> | <mark> | <nav> |
| <section> | <summary> | <time> | <address> | <audio> |
| <video> | <form> | <table> | <p> | <h1><h6> |

**Non semantic element:**

|  |  |
| --- | --- |
| <div> | <span> |