CSS Selectors

In a CSS file, selectors are used to represent parts of your HTML so that you can target specific elements and apply style rules to them.

You can target elements by their **tag names**.

Element Selectors

```
p {
   line-height: 1.5;
   padding: 10px;
}
img {
   width: 150px;
   display: block;
   margin: 0 auto;
}
```

You can also use **class** and **ID selectors** to target specific elements. Only elements with a matching id or class will be styled.

For example, the id of content and the class highlight are being targeted in the example.

Class & ID Selectors

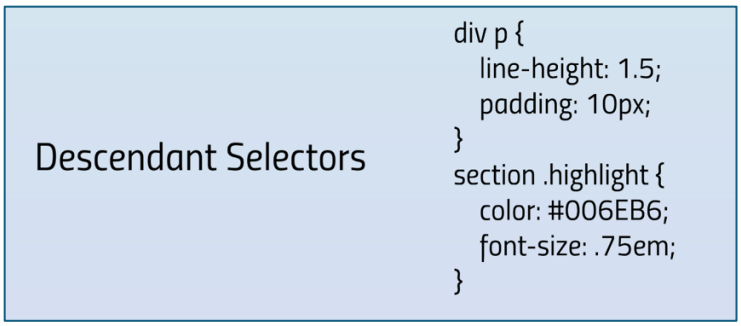
```
#content {
   max-width: 600px;
   margin: 100px auto;
}
.highlight {
   color: #006EB6;
   font-size: .75em;
}
```

Descendant Selectors

Descendant selectors target elements **within** other elements.
For instance:

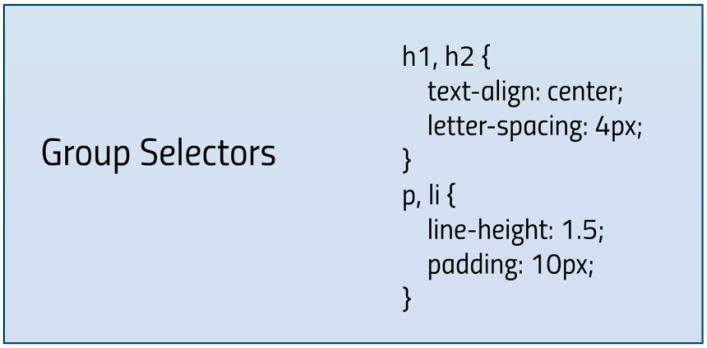
- Paragraphs inside a
- Elements with the class highlight inside a <section>

Only those nested elements will be affected.



Group Selectors

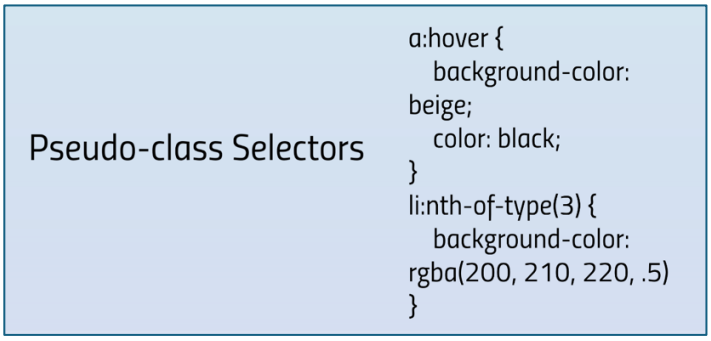
With **group selectors**, you can target multiple elements at once by separating them with commas.
For example, all <h1>, <h2>, <p>, and <li> elements can be grouped and styled together.



Pseudo-Class Selectors

Pseudo-class selectors let you target elements in specific states or positions.
For example:

- a:hover targets only anchor tags that are being hovered over.
- li:nth-of-type(3) targets the **third** list item of its type.



Descendant Combinators: A Closer Look

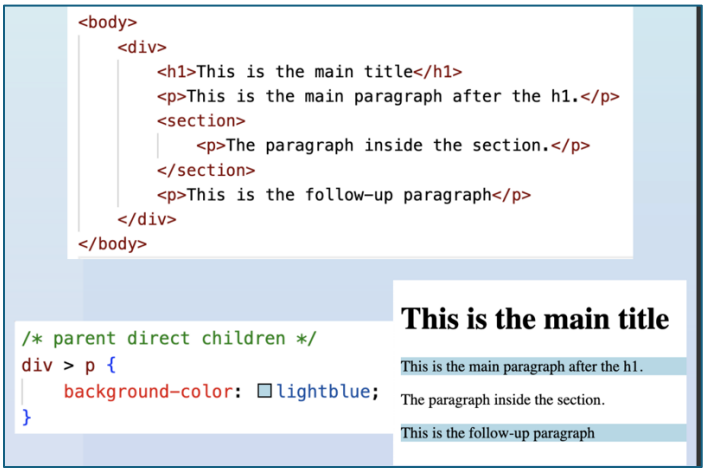
Let's take a closer look at **descendant combinators**.

div p

This targets all `<p>` elements **inside** a `<div>` (not just direct children—any level of nesting).

Let's look at some you many have not seen. Here we see the selector:

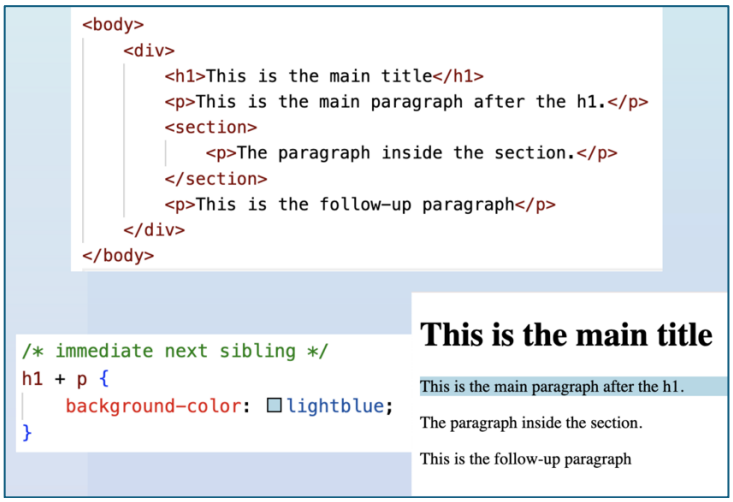
div > p



This targets only <p> elements that are **direct children** of a .
Notice that a <p> inside a nested <section> wouldn't be selected because it's a **grandchild**, not a direct child.

Here we see the selector:

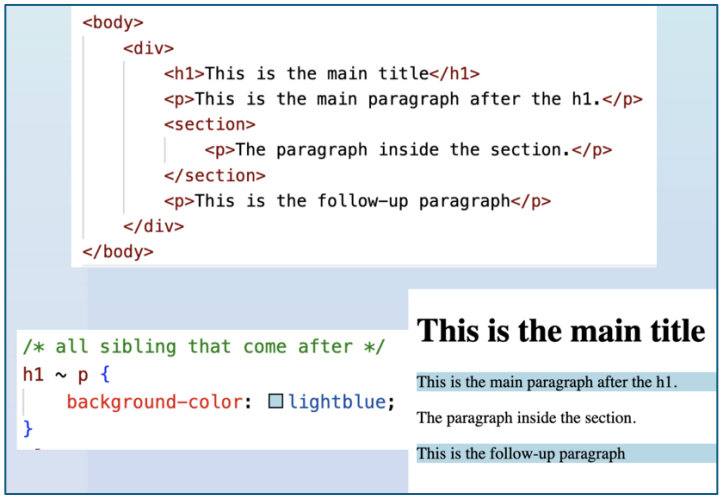
h1 + p



This targets the **immediate sibling**—the first <p> that comes **right after** an <h1>.

Here we see the selector:

h1 ~ p



This targets **all sibling <p> elements** that come **after** an <h1>.

More Pseudo-Class Selectors

Here are some additional pseudo-class selectors:

- p:first-child — targets a <p> only if it is the **first child** of its parent.
- p:last-child — targets a <p> only if it is the **last child**.
- li:nth-child(odd) — targets all **odd-numbered** elements (1st, 3rd, 5th, etc).
- input:focus — targets an <input> element **only when it is focused**.

There are many more!
For a full reference, check out:
🔗 https://www.w3schools.com/cssref/css_ref_pseudo_classes.php

CSS Attribute Selectors

Attribute selectors let you target elements based on their attributes in the HTML.

Examples:

- a[target="_blank"] — targets all <a> tags with a target attribute set to _blank.
- input[type="text"] — targets only <input> elements where the type attribute is "text".