#### \-Simple selectors and combinators

Selectors and combinators are an essential part of CSS, used to target specific HTML elements and apply styles to them. Let me provide you with a brief explanation of simple selectors and combinators.

- NSimple Selectors: Simple selectors are used to target elements based on their tag name, class, or ID. The commonly used simple selectors are:
- -Tag Name: Selects all elements with a specific tag name. For example, selecting all <h1> elements: h1.
- -Class: Selects elements that have a specific class name. For example, selecting all elements with the class "my-class": .my-class.
- -ID: Selects an element with a specific ID. For example, selecting the element with the ID "my-id": #my-id.
- . Combinators: Combinators allow you to target elements based on their relationship with. There are four different combinators in CSS

#### **Y-Class and ID selectors**

in HTML and CSS, selectors are used to specify which elements on a webpage you want to style or apply certain rules to.

The class selector is denoted by a period (.) followed by a name, and is used to select elements with a specific class attribute value. For example, if you have a class called "container", you can use the class selector ".container" to select all elements on the webpage that have the class "container".

The ID selector is denoted by a hash (#) followed by a name, and is used to select elements with a specific ID attribute value. An ID is unique to a single element on a webpage, meaning that an ID selector will only select that specific element. For example, if you have an element with the ID "header", you can use the ID selector "#header" to select that specific element.

## 3-Attribute selectore

An attribute selector is a feature in computer programming that allows you to select elements on a webpage based on their attributes. These attributes could be things like the element's id, class, or other custom attributes defined by the developer.

For example, if you have a webpage with multiple buttons and you want to select a specific button based on its id, you can use the attribute selector in your code to achieve that. The attribute selector syntax typically involves using square brackets and the attribute you want to target.

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Here's an example in JavaScript:

```
// Selects a button with the id "myButton"
const myButton = document.querySelector('button[id="myButton"]');
```

In this example, any button element with the id "myButton" will be selected using the attribute selector button[id="myButton"].

Attribute selectors provide flexibility and precision in selecting elements based on their attributes, allowing developers to apply specific styles or functionalities to those elements.

### 4-Pseudo-class selectors

Pseudo-class selectors in CSS are special keywords that allow you to style elements based on their state, position, or specific characteristics. They target elements that are in a specific state or meet certain criteria, without having to add extra classes or IDs to the HTML elements themselves.

Some commonly used pseudo-class selectors are:

- 1. :hover This selector targets elements when the user hovers their cursor over them. It can be used to change the color, background, or any other visual aspect of the element.
- 2. :active This selector targets elements when they are being activated or clicked, such as when a user presses a button. It is often used to create interactive effects like changing button colors or adding shadows.
- 3. :focus This selector targets elements that currently have focus, typically when a user clicks on an input field or selects an element using the Tab key. It is commonly used to highlight the active element on a form.
- 4. :first-child, :last-child These selectors target the first or last child elements of their parent. They are useful when you want to apply specific styles to the first or last item in a list, for example.

# 5-Pseudo-element selectors

Pseudo-element selectors are a type of selector in CSS that allow you to style certain parts of an element's content or structure. They start with two colons (::) and are used to select and style a specific part or "element" within an existing element.

Some commonly used pseudo-element selectors include ::before, ::after, ::first-line, and ::first-letter.

The ::before and ::after selectors are used to insert content before or after an element's content, respectively. This is often used to add decorative elements, such as icons or lines, without altering the HTML structure.

The ::first-line selector is used to style the first line of text within an element, while the ::first-letter selector is used to style the first letter of the first line of text.

Pseudo-element selectors can be very handy for adding visual enhancements or modifying specific parts of an element's content. They give you more control over the appearance and behavior of your web page.