**CSS Selectors**

CSS selectors are used to select and style specific HTML elements on a webpage. They are a core part of CSS (Cascading Style Sheets) and are used to "select" HTML elements according to their attributes, id, class, or even their hierarchical position in the document.

**Types of CSS Selectors:**

1. **Universal Selector (\*):** Selects all elements in the document.

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1. **Type Selector (Element Selector):** Selects elements by their type (e.g., p for paragraphs, h1 for headings).

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1. **Class Selector (.classname):** Selects elements by their class attribute. Classes can be reused across multiple elements.

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1. **ID Selector (#idname):** Selects an element by its unique ID attribute. IDs should be unique per page.

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1. **Attribute Selector:** Selects elements based on an attribute or its value.
   1. Selects elements with a specific attribute:

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* 1. Selects elements with a specific attribute value:

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1. **Descendant Selector (element1 element2):** Selects all elements inside another element (not necessarily direct children).

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1. **Child Selector (element1 > element2):** Selects only direct children of an element.

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1. **Adjacent Sibling Selector (element1 + element2):** Selects the element immediately following another element.

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1. **General Sibling Selector (element1 ~ element2):** Selects all siblings of an element that follow it.

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1. **Pseudo-Class Selector:** Used to style elements based on their state or position (e.g., :hover, :nth-child()).

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1. **Pseudo-Element Selector:** Used to style a specific part of an element (e.g., ::before, ::after).

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