

CSS Selectors

CSS Selectors

Selectors are used to target HTML elements for styling. Below are the primary types of CSS selectors:

1. Element Selector

Targets all elements of a specific type.

Example:

```
p {  
  color: blue;  
}
```

This will make the text of all <p> tags blue.

2. Class Selector (.)

Targets elements with a specific class attribute.

Example:

```
.highlight {  
  background-color: yellow;  
}
```

This will apply a yellow background to any element with the class highlight.

3. ID Selector (#)

Targets a single, unique element with a specific ID.

Example:

```
#header {  
  font-size: 24px;  
}
```

This will apply a font size of 24px to the element with the ID header.

4. Group Selector

Applies the same style to multiple elements separated by commas.

Example:

```
h1, h2, p {  
  margin: 10px;  
}
```

This sets a margin of 10px for all <h1>, <h2>, and <p> elements.

5. Descendant Selector

Targets elements that are nested within a specific parent element.

Example:

```
div p {  
  color: green;  
}
```

This will style all <p> elements that are inside <div> elements.

Specificity

Specificity determines which CSS rule is applied when multiple rules target the same element.

The order of specificity (from highest to lowest priority):

1. **Inline Styles:** Directly added to an element via the style attribute.

Example:

2. <p style="color: red;">This text is red.</p>

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3. **ID Selectors:** More specific than class or element selectors.
4. **Class Selectors:** Including pseudo-classes like :hover.
5. **Element Selectors:** Targeting tags like div, p, or h1.

Example of Specificity Calculation:

Given the following rules:

```
p {  
  color: black; /* Element selector */  
}
```

```
.highlight {  
  color: blue; /* Class selector */  
}
```

```
#unique {  
  color: green; /* ID selector */  
}
```

If an element `<p id="unique" class="highlight">Text</p>` is styled:

- **ID selector** (#unique) takes precedence, so the text color will be **green**.

Would you like me to cover advanced selectors, like pseudo-classes or pseudo-elements?