

CSS (Cascading Style Sheets) is used to style and layout web pages. It describes how HTML elements should be displayed.

CSS Ruleset: A CSS ruleset consists of a selector and a declaration block.

```
selector {  
  property: value;  
}
```

CSS can be imported into HTML in three main ways:

1. Inline CSS:

- CSS is applied directly within the HTML element using the style attribute

```
<h1 style="color: blue;">This is a heading</h1>
```

2. Internal CSS:

- CSS is defined within a <style> tag inside the <head> section of the HTML document.

```
<head> <style> h1 { color: blue; } </style> </head>
```

3. External CSS:

- CSS is defined in an external file and linked to the HTML document using the <link> tag.

```
<head> <link rel="stylesheet" href="styles.css"> </head>
```

CSS Visual Rules:

CSS allows you to control the visual presentation of your HTML elements.

✓ Backgrounds and Borders:

```
div {  
  background-color: lightblue;  
  border: 2px solid red;  
}
```

✓ Text and Font styling:

```
p {  
  font-family: Arial, sans-serif;  
  font-size: 14px;
```

```
color: black;  
}
```

CSS Selectors:

Selectors: Specifies the HTML element to be styled.

Declaration Block: Contains one or more declarations separated by semicolons.

Selector Types:

1. **Basic Selectors:** select elements based on name, id, class

- **Element Selector:** Targets all elements of a specific type

```
p {  
color: red;  
}
```

- **ID Selector:** Targets an element with a specific id.

```
#unique {  
color: green;  
}
```

- **Class Selector:** Targets elements with a specific class.

```
.className {  
color: blue;  
}
```

- **Universal Selector:** selects all HTML elements on the page.

```
* {  
text-align: center;  
color: blue;  
}
```

2. **Combinator Selectors:** select and style a part of an element

- **Descendant Selector:** Targets elements that are descendants of a specified element

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

- **Child Selector:** Targets direct children of a specified element.

```
div > p {  
  color: yellow;  
}
```

- **Adjacent Sibling Selector:** Targets the next sibling of a specified element

```
h1 + p {  
  color: orange;  
}
```

- **General Sibling Selector:** Targets all siblings of a specified element.

```
h1 ~ p {  
  color: pink;  
}
```

3. **Pseudo-class Selectors:** select elements based on a certain state

```
a:hover {  
  color: red;  
}
```

4. **Pseudo-element Selectors:** select and style a part of an element

```
p::first-line {  
  color: blue;  
}
```

5. **Attribute Selectors:**

```
input[type="text"] {  
  border: 1px solid black;  
}
```

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