

WEEK 2 → CSS

Day 1 - Introduction to CSS

1. Understanding Selectors:

- CSS Selectors:

- ID selector: `#myElement`
- Class selector: `.myClass`
- Element selector: `p`
- Attribute selector: `[type="text"]`

- Specificity:

- Example: `p.myClass` has higher specificity than just `.myClass`.

- Selector combinations:

- Grouping selector: `h1, h2, h3`
- Descendant selector: `div p`
- Child selector: `ul > li`
- Sibling selector: `h1 + p`

2. Properties and Values:

- Common CSS properties:

- Color: `color: red;`
- Font size: `font-size: 16px;`
- Background: `background-color: #f5f5f5;`
- Margin: `margin: 10px;`
- Padding: `padding: 10px;`

- **Box model:**

- Example: ``div { padding: 10px; margin: 20px; border: 1px solid #000; }``

- **Display and positioning:**

- Example: ``div { display: inline-block; position: relative; }``

3. Styling Webpages:

- **Inline CSS:**

- Example: ``<h1 style="color: blue;">Hello, World!</h1>``

- **Internal CSS:**

```
``html
<head>
  <style>
    h1 {
      color: blue;
    }
  </style>
</head>
<body>
  <h1>Hello, World!</h1>
</body>
...`
```

- **External CSS:**

```
``html
<head>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Hello, World!</h1>
```

```
</body>
...

(styles.css file)
```css
h1 {
 color: blue;
}
```
```

Hands-on Project: Styling a Webpage using CSS:

1. Setting up the HTML structure:

```
```html
<!DOCTYPE html>
<html>
<head>
 <link rel="stylesheet" href="styles.css">
</head>
<body>
 <h1>Welcome to My Website</h1>
 <p>This is some content.</p>
</body>
</html>
```
```

2. Linking the CSS file:

- Save the above code in an HTML file and create a new CSS file named "styles.css" in the same directory.

3. Applying styles:

```
```css
h1 {
 color: blue;
 font-size: 24px;
}

p {
 color: red;
 margin-bottom: 10px;
}
```
```

4. Testing and refining:

- Open the HTML file in a web browser to see the applied styles.
- Adjust the CSS code as needed to refine the webpage's appearance.

Index.html

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Welcome to CSS Selectors Project</h1>
  <div id="container">
    <p class="highlight">This is a paragraph with the "highlight"
class.</p>
    <p>This is a normal paragraph.</p>
    <ul>
      <li>Item 1</li>
      <li>Item 2</li>
```

```
        <li>Item 3</li>
    </ul>
    <input type="text" id="inputField" />
</div>
</body>
</html>
```

Styles.css

```
#container {
    background-color: lightgray;
    padding: 10px;
}

.highlight {
    font-weight: bold;
    color: blue;
}
p {
    font-size: 16px;
    margin-bottom: 10px;
}
input[type="text"] {
    border: 1px solid black;
    padding: 5px;
}
#container p {
    margin-left: 20px;
}
ul > li {
    list-style: none;
}
.highlight + p {
    color: red;
}
```