# **CSS Fundamentals**

Web Development Essentials - Session 5

### Session Overview

### Learning Goals for Today:

- Understand what CSS is and its role in web development
- Learn different methods to include CSS in HTML
- Explore CSS syntax, including selectors, properties, and values
- Style text and backgrounds using CSS

# What is CSS? (Cascading Style Sheets)

**Definition**: CSS (Cascading Style Sheets) is a language used to describe the presentation of an HTML document. It controls the visual appearance of the webpage.

Purpose: Separates the content (HTML) from the presentation (CSS).

### Why "Cascading"?:

 The term "cascading" refers to how styles are applied in order of precedence, allowing multiple stylesheets or rules to apply to a single element.

```
<style>
p {
    color: blue;
    font-size: 18px;
}
</style>
```

# Adding CSS to HTML

#### Three Methods to Include CSS:

Inline CSS:

```
<h1 style="color: red;">Hello World</h1>
```

Added directly within an HTML element using the style attribute.

#### **Internal CSS:**

Included in the <head> section of an HTML document using the <style> tag.

#### **External CSS:**

Linked from an external file using the link> tag, stored separately from the HTML.

```
k rel="stylesheet" href="styles.css">
```

```
<style>
h1 {
    color: red;
}
</style>
```

### CSS Selectors, Properties, and Values

#### **CSS Rule Structure:**

• A CSS rule consists of a **selector**, a **property**, and a **value**.

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

**Selector**: The HTML element to apply the style (h1).

**Property**: What aspect of the element to style (color, font-size).

**Value**: The value assigned to the property (blue, 24px).

### Common CSS Selectors

### **Types of Selectors:**

#### 1. Element Selector:

- Targets a specific HTML element.
- Example: p { color: black; }

#### 2. Class Selector:

- Targets elements with a specific class name. Classes are reusable.
- o Example: .example-class { font-size: 18px; }

### 3. ID Selector:

- Targets a single element with a specific ID. IDs are unique on a page.
- Example: #unique-id { background-color: yellow; }

# Styling Text with CSS

### **Common Text Properties:**

### Font Family:

Defines the font style for an element.

### Font Size:

• Changes the size of the text.

### Font Weight:

Makes text bold or thin.

### **Text Color:**

Changes the color of the text.

```
р {
  font-family: Arial, sans-serif;
 h1 {
   font-size: 36px;
h1 {
  font-weight: bold;
  color: #333;
```

### Styling Backgrounds with CSS

### **Background Properties:**

- Background Color:
  - Changes the background color of an element.

```
body {
  background-color: #f0f0f0;
}
```

- Background Image:
  - Adds an image as the background for an element.

```
div {
  background-image: url('background.jpg');
}
```

- Background Position:
  - Controls the positioning of the background image.

```
div {
  background-position: center;
}
```

### Hands-On Activity

**Goal**: Apply different CSS styles to a simple webpage.

Use an external stylesheet to change the text color, font family, and background color.

#### Instructions:

- Create an HTML file linked to an external CSS file.
- Style headings, paragraphs, and background colors.

### Summary

### What We Learned Today:

- What CSS is and why it's important
- Different ways to include CSS in HTML (inline, internal, external)
- CSS syntax with selectors, properties, and values
- How to style text and backgrounds using CSS

### **Questions?**

### **Q&A Session**

Any questions before we wrap up?

Thank You & See You in the Next Class!