# Day 2: Styling Text, Colors, and Layout

# **Lesson Objective:**

By the end of this lesson, learners should be able to:

- Style text using various properties.
- Use color systems (named colors, hex, RGB, RGBA) to apply colors to elements.
- Apply and position backgrounds using CSS.
- Add borders and shadows to elements for visual enhancement.
- Understand and use the display property to control layout.

# **Lesson Outline:**

- 1. Text Properties
- 2. Color Systems
- 3. Backgrounds
- 4. Borders and Shadows
- 5. Display Property
- 6. Practice Project

## 1. Text Properties

CSS provides several properties for styling text. Today, we'll focus on:

- font-family
- font-size
- font-weight
- line-height
- text-align

## 1.1 font-family

The font-family property specifies the typeface to use for the text. You can specify multiple fonts as fallbacks, in case a user's device doesn't support a particular font.

The font-weight property defines the thickness of the text, ranging from 100 (thin) to 900 (bold).

#### 1.4 line-height

The line-height property controls the space between lines of text, improving readability.

### 1.5 text-align

The text-align property aligns the text within its container (left, center, right, justify).

**Activity:** Create a paragraph with multiple lines of text. Use font-family, font-size, font-weight, line-height, and text-align to style it. Experiment with different fonts and sizes.

## 2. Color Systems

CSS offers several ways to apply colors to text and elements. We'll explore the main systems:

### 2.1 Named Colors

CSS has a list of pre-defined color names that you can use directly.

#### 2.2 Hexadecimal Colors

The #RRGGBB format represents colors with hexadecimal values. Each pair of characters corresponds to red, green, and blue (e.g., #ff0000 is red).

#### 2.3 RGB Colors

The rgb() function allows you to define colors by specifying the red, green, and blue values (0 to 255)

#### 2.4 RGBA Colors

The rgba() function is similar to rgb() but includes an alpha channel for opacity (0 = fully transparent, 1 = fully opaque).

**Activity:** Create a heading and paragraphs. Apply different colors using named colors, hex values, RGB, and RGBA. Try making some text semi-transparent using RGBA.

# 3. Backgrounds

CSS allows you to control backgrounds with various properties. Let's explore:

## 3.1 Background Color

You can set the background color of an element using the background-color property.

## 3.2 Background Images

You can use an image as the background of an element with background-image. The image can be repeated or positioned differently.

```
div {
    background-image: url('image.jpg');
    background-repeat: no-repeat;
    background-position: center;
}
```

## 3.3 Background Repeat

By default, background images repeat. You can control this behavior using the background-repeat property.

```
div {
    background-repeat: no-repeat; /* prevent repeating */
}
```

## 3.4 Background Position

The background-position property allows you to position the background image within the element.

```
div {
    background-position: center center; /* center horizontally and
vertically */
}
```

**Activity:** Create a div with some text inside. Set a background color, and then try using a background image. Experiment with background-repeat and background-position.

## 4. Borders and Shadows

Borders and shadows can add depth to elements and make them visually appealing.

#### 4.1 Border

The border property allows you to add borders around an element. You can control the width, style, and color.

#### 4.2 border-radius

The border-radius property is used to round the corners of an element.

#### 4.3 box-shadow

The box-shadow property adds a shadow effect to an element.

```
div {
    box-shadow: 5px 5px 10px rgba(0, 0, 0, 0.5);
}
```

**Activity:** Create a div with a background color. Add a border around it and use border-radius to round the corners. Then, add a box-shadow to give the element depth.

## 5. Display Property

The display property controls how an element is displayed on the page. The main values we'll cover are:

- **block:** The element takes up the full width available (e.g., <div>, ).
- inline: The element takes up only as much width as necessary (e.g., <span>, <a>).
- **inline-block:** The element behaves like an inline element but allows width and height to be set.
- none: The element is not displayed.

#### 5.1 block

Block-level elements start on a new line and take up the full width.

#### 5.2 inline

Inline elements flow with the text and don't start on a new line.

#### 5.3 inline-block

An inline-block element behaves like an inline element but can have its width and height set.

#### 5.4 none

This hides the element from the page.

**Activity:** Create multiple elements (div, span, button) and experiment with changing their display properties to block, inline, inline-block, and none. Observe how their behavior and layout change.

# 6. Practice Project

Let's bring all of today's concepts together into a mini project.

#### Goal:

Create a styled card with text, background, borders, and shadows.

#### Steps:

**HTML** structure:

## CSS (styles.css):

```
.card {
   width: 300px;
   padding: 20px;
   margin: 0 auto;
    background-color: #f4f4f4;
    border-radius: 10px;
    box-shadow: 0px 5px 15px rgba(0, 0, 0, 0.1);
   text-align: center;
}
h1 {
    font-family: 'Arial', sans-serif;
   font-size: 1.5rem;
    color: #333;
}
/* Style the description */
.description {
    font-size: 1rem;
   line-height: 1.6;
    color: #555;
}
.cta-button {
    display: inline-block;
    padding: 10px 20px;
    background-color: #007BFF;
    color: white;
    border: none;
    border-radius: 5px;
    text-align: center;
```

```
font-size: 1rem;
}
.cta-button:hover {
   background-color: #0056b3;
}
```