# Introduction to CSS

CSS (Cascading Style Sheets) is used to style and layout web pages — including colors, fonts, spacing, and positioning of elements. While HTML gives structure to a web page, CSS makes it look beautiful and usable.

## Why CSS?

Without CSS, all websites would look plain, like unstyled documents. CSS helps you:

- Change colors and fonts
- Add spacing and layout
- Make responsive designs for mobile
- Animate and transition between states
- Separation of concerns: HTML for structure, CSS for style

### **How CSS Works with HTML**

CSS can be applied to HTML in three main ways:

### 1. Inline CSS

CSS written inside an HTML tag using the style attribute.

```
This is a blue paragraph.
```

### 2. Internal CSS

CSS written inside a <style> tag within the <head> section of the HTML.

### 3. External CSS (Best Practice)

CSS written in a separate file and linked to the HTML file. This is the **most** recommended method for real-world projects.

#### style.css

```
h1 {
  color: darkred;
  text-align: center;
}
```

#### index.html

```
</body>
</html>
```

# The "Cascading" in CSS

If there are multiple rules targeting the same element, CSS uses the **cascade** to decide which rule to apply. This depends on:

- Specificity (How specific the selector is)
- Order of appearance
- Importance (!important)

#### Example:

```
This will be red because inline CSS wins.
```

# Anatomy of a CSS Rule

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

#### **Example:**

```
p {
  color: black;
  font-size: 16px;
}
```

- p → Selector (targets all elements)
- color , font-size → Properties
- black , 16px → Values

## What You'll Learn in CSS

As we move forward, you'll learn how to:

- Style text, backgrounds, and borders
- Control layout with Flexbox and Grid
- Make your website responsive and mobile-friendly
- Animate elements and transitions
- Write modern, maintainable CSS