

## 1. Introduction to CSS

- 1.1 What is CSS?
- 1.2 Role of CSS in Web Development
- 1.3 Types of CSS (Inline, Internal, External)
- 1.4 CSS Syntax and Selectors Overview

## 2. CSS Selectors

- 2.1 Basic Selectors (e.g., Type, Class, ID)
- 2.2 Grouping and Universal Selectors
- 2.3 Attribute Selectors
- 2.4 Pseudo-classes (`:hover`, `:focus`, etc.)
- 2.5 Pseudo-elements (`::before`, `::after`, etc.)

## 3. CSS Box Model

- 3.1 Understanding Content, Padding, Border, and Margin
- 3.2 Border Properties (Style, Width, Color, Radius)
- 3.3 Margin and Padding Properties
- 3.4 Box Sizing (`content-box` vs. `border-box`)

## 4. CSS Colors and Backgrounds

- 4.1 Color Formats (Named, HEX, RGB, HSL)
- 4.2 Background Properties (`background-color`, `background-image`)
- 4.3 Gradient Backgrounds (Linear, Radial)
- 4.4 Advanced Background Techniques

## **5. CSS Text and Fonts**

5.1 Font Properties (`font-family`, `font-size`, `font-weight`)

5.2 Text Properties (`color`, `text-align`, `line-height`)

5.3 Text Effects (Shadows, Decoration)

5.4 Using Google Fonts and Web Fonts

## **6. CSS Positioning**

6.1 Static Positioning (Default)

6.2 Relative, Absolute, and Fixed Positioning

6.3 Sticky Positioning

6.4 Z-index and Stacking Context

## **7. CSS Layouts**

7.1 Display Properties (`block`, `inline`, `inline-block`, `none`)

**7.2 Floats and Clearfix**

**7.3 Flexbox Layout**

7.3.1 Flex Container and Flex Items

7.3.2 Justify Content, Align Items, Align Self

7.3.3 Flexbox Practical Examples

**7.4 Grid Layout**

7.4.1 Grid Container and Grid Items

7.4.2 Defining Rows and Columns

7.4.3 Grid Template Areas

## **8. CSS Responsive Design**

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8.1 Introduction to Media Queries

8.2 Breakpoints and Fluid Layouts

8.3 CSS Units (px, %, em, rem, vh, vw)

8.4 Mobile-First Design Principles

## 9. CSS Animations and Transitions

9.1 CSS Transitions (e.g., `transition-property`, `duration`)

9.2 CSS Animations (`@keyframes`, `animation` properties)

9.3 Transformations (`scale`, `rotate`, `translate`, `skew`)

9.4 Hover and Focus Animations

## 10. CSS Frameworks (Introduction)

10.1 What are CSS Frameworks?

10.2 Overview of Popular Frameworks (Bootstrap, Tailwind CSS)

10.3 Advantages and Disadvantages of Frameworks

## 11. CSS Best Practices

11.1 Writing Clean and Maintainable CSS

11.2 Naming Conventions (BEM, SMACSS)

11.3 Avoiding Redundancy and Overwriting Styles

11.4 Performance Optimization

## 12. Project

12.1 Creating a Responsive Web Page

12.2 Using Flexbox or Grid for Layouts

12.3 Adding Animations and Transitions

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### 12.4 Styling Forms and Buttons