

# CSS 3

## Part 1: Basics & Fundamentals

1. Introduction to CSS & linking methods
  - inline, internal, external CSS
  - concept of selector, property, and value
2. Selectors
  - simple selectors: element, id, class
  - combinators (descendant, child, sibling)
  - attribute selectors

📁 Exercise: Create a simple profile page with basic styles

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## Part 2: Working with Text & Colors

1. Colors (rgb, rgba, hsl, hex)
2. Fonts & text styles (family, size, weight, shadow)
3. line-height, letter-spacing, word-spacing
4. CSS Variables

📁 Exercise: Build a small landing page with custom fonts & color palette

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## Part 3: Box Model & Traditional Layouts

1. Margin, Border, Padding
2. Background (image, repeat, size, position, gradient)
3. Display (inline, block, inline-block, none)
4. Position (static, relative, absolute, fixed, sticky)
5. Z-index

📁 Exercise: Design a product card

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## Part 4: Flexbox

1. Container properties (display: flex, flex-direction, justify-content, align-items, wrap)
2. Item properties (flex-grow, flex-shrink, flex-basis, order, align-self)
3. Creating simple grids with Flexbox

🔗 Exercise: Build a responsive navbar & image gallery with Flexbox

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## Part 5: CSS Grid

1. Defining Grid Container & lines
2. grid-template-rows and grid-template-columns
3. grid-gap and grid-area
4. Template layouts
5. Combining Grid & Flexbox

🔗 Exercise: Create a complete blog layout (header, sidebar, main, footer) with Grid

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## Part 6: Visual & Graphic Effects

1. Border-radius, box-shadow, text-shadow
2. Gradients (linear, radial, conic)
3. Clip-path & mask
4. Filters (blur, brightness, contrast, grayscale, sepia)

🔗 Exercise: Design a stylish graphic card with effects

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## Part 7: Animation & Transition

1. Transition (duration, timing-function, delay)
2. Transform (rotate, scale, translate, skew)
3. Keyframes & animation
4. Practical usage in hover effects & animated menus

🔗 Exercise: Create an animated button & menu

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## Part 8: Responsive Design

1. Media Queries concepts
2. Standard breakpoints (mobile, tablet, desktop)
3. Mobile First vs Desktop First design
4. Modern units (em, rem, vh, vw, %)

📁 Exercise: Build a fully responsive landing page

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## Part 9: Advanced CSS3 Techniques

1. Pseudo-classes & Pseudo-elements (:hover, :nth-child, ::before, ::after)
2. Custom Properties (CSS variables)
3. CSS Functions (calc, min, max, clamp)
4. Advanced Grid/Flexbox patterns
5. Dark Mode with CSS

📁 Exercise: Create a website with Dark/Light mode switch

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## Part 10: Final Project

✓ Build a complete website (e.g., a company website or small shop)

- Header & Navbar
- Hero section
- Service/Product Cards
- Blog section
- Footer
- Fully responsive for mobile & tablet