

## Level 1 – Basics of CSS (Foundational)

- Introduction to CSS
  - Syntax, Selectors, and Rules
  - Inline, Internal, and External CSS
  - Colors, Backgrounds, Fonts
  - Basic Text Styling (color, font-size, font-family, font-weight)
  - Comments in CSS
  - Basic borders, margins, padding
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## Level 2 – CSS Selectors & Properties

- Advanced Selectors: id, class, element, grouping, descendant
  - Pseudo-classes: :hover, :focus, :first-child, :last-child
  - Pseudo-elements: ::before, ::after, ::first-letter
  - Attribute selectors [attr], [attr=value]
  - Box Model: width, height, padding, border, margin
  - Units: px, %, em, rem, vh, vw
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## Level 3 – Layout & Positioning

- Display: block, inline, inline-block, none
  - Positioning: static, relative, absolute, fixed, sticky
  - Floating elements: float, clear
  - Z-index and stacking order
  - CSS Flexbox: flex, justify-content, align-items, flex-wrap
  - CSS Grid: grid, grid-template-columns, grid-template-rows
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## Level 4 – Styling & Effects

- Backgrounds: background-color, background-image, background-repeat, background-size
  - Gradients: linear-gradient, radial-gradient
  - Borders: border-radius, border-style, border-color
  - Shadows: box-shadow, text-shadow
  - Transitions: transition-property, transition-duration
  - Transformations: scale, rotate, translate, skew
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## Level 5 – Advanced CSS & Animations

- Animations: @keyframes, animation-name, animation-duration
  - Media Queries: @media, responsive design
  - CSS Variables: --variable-name, var()
  - Pseudo-classes & Pseudo-elements advanced usage
  - Advanced Selectors: :nth-child(), :not(), :nth-of-type()
  - Combinators: >, +, ~
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## Level 6 – Expert CSS & Best Practices

- CSS Grid advanced techniques
- CSS Flexbox advanced techniques
- CSS Functions: calc(), clamp(), min(), max()
- CSS Filters: blur(), brightness(), grayscale(), drop-shadow()
- CSS Clip-path & Masking
- CSS Houdini (custom properties, worklets)
- CSS for accessibility and performance optimization