



ELEVO LABS

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Course Overview

Course Details

Course Name: CSS3: The Complete Guide to Styling Modern Websites

Instructor: Amit Chandrakar

Created On: 16 June, 2025

Updated On: 16 June, 2025

Price: 2000 INR

Duration: 1 Week

Modules: 12

Language: English, Hindi

Level: Beginner, Expert

Certifications: Yes

Course Description

Transform your plain HTML pages into beautifully designed, responsive websites with this complete guide to CSS3. This course takes you on a deep dive into the language of web styling, starting with the core fundamentals and progressing to the advanced layout techniques used by professional front-end developers today.

You will start by learning how to apply CSS, master selectors, and understand the crucial box model. We'll explore colors, backgrounds, and typography to bring your designs to life. The course then focuses on the pillars of modern web layout: Flexbox and CSS Grid, giving you complete control over the positioning of your elements. You will also learn how to create

stunning user experiences with transitions and animations.

A major focus of this course is responsive design. You will learn how to use media queries to build websites that look great on any device, from mobile phones to desktops. We'll also cover advanced topics like pseudo-classes, pseudo-elements, and CSS variables for writing more efficient and powerful code.

What You'll Learn:

- Core CSS concepts: selectors, specificity, and the cascade.
- The Box Model: margin, border, padding, and content.
- Modern layouts with Flexbox and CSS Grid.
- Creating fluid, responsive designs with Media Queries.
- Adding life to your site with Transitions and Animations.
- Working with typography, colors, and backgrounds.
- Advanced positioning and pseudo-elements.
- Writing maintainable CSS with variables (Custom Properties).

Who Is This Course For?

This course is for anyone who has a basic understanding of HTML and wants to learn how to design and style websites. It's an essential skill for aspiring front-end developers, UI/UX designers, and anyone involved in creating web content.

Prerequisites:

- **HTML Fundamental Knowledge:** A solid understanding of HTML structure, elements, and attributes is a must for this course.
- **A Computer/Laptop:** You'll need a working computer (Windows, macOS, or Linux) to write and test your code.
- **A Willingness to Learn:** Bring your curiosity and dedication! No prior CSS experience is required, but a strong desire to master web styling is essential.

Includes a design-to-code project, numerous challenges, and a certificate of completion.

Available in English and Hindi.

Course Curriculum Details

Module 1: Module 1: CSS Fundamentals - Getting Started

5 Lessons

1. 1. What is CSS and Why Style the Web? 10min

2. 2. How to Add CSS to HTML (Inline, Internal, External Stylesheets) 20min

3. 3. Understanding Selectors, Specificity, and the Cascade 30min

4. 4. CSS Comments and Organizing Your Styles 10min

5. 5. Recap & Practical Task: Style a Basic HTML Document 25min

Module 2: Module 2: The Core Box Model & Basic Styling

5 Lessons

1. 6. The CSS Box Model: Margin, Border, Padding, and Content 30min

2. 7. Working with Colors: RGB, Hex, HSL, and Alpha Channels 25min

3. 8. Background Properties: Color, Image, Repeat, Position, Size 25min

4. 9. Setting Gradients (Linear and Radial) 20min

5. 10. Recap & Practical Task: Design a Stylish Card Component 30min

Module 3: Module 3: Typography and Advanced Text Styling

5 Lessons

1. 11. Mastering Fonts: `font-family`, `line-height`, `letter-spacing` 30min

2. 12. Integrating Google Fonts and Custom Web Fonts 25min

3. 13. Text Styling: Alignment, Decoration, Transformation **20min**

4. 14. Text Shadows and Advanced Text Effects **15min**

5. 15. Recap & Practical Task: Style a Web Article with Custom Typography **30min**

Module 4: Module 4: Display & Positioning Essentials

5 Lessons

1. 16. Understanding the `display` Property (block, inline, inline-block, none) **20min**

2. 17. CSS Positioning: `static`, `relative`, `absolute`, `fixed`, `sticky` **30min**

3. 18. Controlling Element Stacking with `z-index` **20min**

4. 19. Floating Elements and Clearing Floats (Legacy Layout) **20min**

5. 20. Recap & Practical Task: Position Elements to Create an Overlay **30min**

Module 5: Module 5: Modern Layouts with Flexbox (Fundamentals to Advanced)

7 Lessons

1. 21. Introduction to Flexbox: The Flexible Box Layout Module **20min**

2. 22. Flex Containers: `flex-direction`, `flex-wrap`, `justify-content` **35min**

3. 23. Flex Containers: `align-items`, `align-content` **30min**

4. 24. Flex Items: `flex-grow`, `flex-shrink`, `flex-basis`, `flex`, `order` **35min**

5. 25. Flex Items: `align-self` and Auto Margins **20min**

6. 26. Practical Flexbox Project: Building a Responsive Navigation Bar **40min**

7. 27. Recap & Practical Task: Create a Flexible Product Grid **45min**

Module 6: Module 6: Grid Layout for Complex Structures

7 Lessons

1. 28. Introduction to CSS Grid: The Two-Dimensional Layout System **20min**

2. 29. Defining Grid Columns and Rows (`grid-template-columns`, `grid-template-rows`) **35min**

3. 30. Grid Gaps (`grid-gap`, `row-gap`, `column-gap`) **20min**

4. 31. Placing Items on the Grid: `grid-column`, `grid-row`, `grid-area` **30min**

5. 32. Grid Alignment: `justify-items`, `align-items`, `justify-content`, `align-content` **30min**

6. 33. Building Complex Page Layouts with CSS Grid (Dashboard Example) **40min**

7. 34. Recap & Practical Task: Design a Responsive Portfolio Layout with Grid **50min**

Module 7: Module 7: Responsive Design Essentials

5 Lessons

1. 35. The Viewport Meta Tag and Fluid Layouts **10min**

2. 36. Responsive Units: Percentages, `em`, `rem`, `vw`, `vh` **25min**

3. 37. Mastering Media Queries for Different Screen Sizes and Devices **35min**

4. 38. Implementing Mobile-First vs. Desktop-First Approaches **20min**

5. 39. Recap & Practical Task: Make a Non-Responsive Page Fully Responsive **40min**

Module 8: Module 8: Transitions, Transforms, and Animations

6 Lessons

1. 40. Creating Smooth Interactions with CSS Transitions **25min**
2. 41. 2D Transforms (`translate`, `rotate`, `scale`, `skew`) **30min**
3. 42. 3D Transforms (`rotateX`, `rotateY`, `translateZ`, `perspective`) **35min**
4. 43. Building Dynamic Effects with CSS Keyframe Animations **40min**
5. 44. Animation Properties (`animation-name`, `duration`, `timing-function`, `delay`, `iteration-count`, `direction`, `fill-mode`) **30min**
6. 45. Recap & Practical Task: Animate a Button Hover Effect and a Loader **40min**

Module 9: Module 9: Advanced CSS Selectors and Techniques

7 Lessons

1. 46. Pseudo-classes (`:hover`, `:focus`, `:active`, `:nth-child`, `:first-of-type`, etc.) **30min**
2. 47. Pseudo-elements (`::before`, `::after`, `::first-line`, `::selection`) **25min**
3. 48. Attribute Selectors for Targeted Styling **20min**
4. 49. Object-Fit and Object-Position for Image Control **15min**
5. 50. CSS Filters (`blur`, `brightness`, `contrast`, `grayscale`, `sepia`, etc.) **20min**
6. 51. Blend Modes and Clip-Path (Introduction) **15min**
7. 52. Recap & Practical Task: Style a Custom Scrollbar and Tooltip **35min**

Module 10: Module 10: Writing Maintainable CSS & Preprocessors

5 Lessons

1. 53. CSS Variables (Custom Properties): Powering Theming and Reusability **30min**

2. 54. Introduction to CSS Methodologies (BEM, SMACSS, OOCSS) **25min**

3. 55. Getting Started with SASS/SCSS: Variables, Nesting, Partials **40min**

4. 56. SASS/SCSS: Mixins, Functions, and Extends **35min**

5. 57. Recap & Practical Task: Convert a Small Project to use CSS Variables and SASS **50min**

Module 11: Module 11: Web Performance and Optimization

5 Lessons

1. 58. Optimizing CSS for Faster Load Times (Minification, Compression) **25min**

2. 59. Critical CSS and Asynchronous Loading **20min**

3. 60. Browser Developer Tools for CSS Debugging and Performance Analysis **30min**

4. 61. CSS Naming Conventions and Code Organization Best Practices **20min**

5. 62. Recap & Practical Task: Perform a CSS Performance Audit **30min**

Module 12: Module 12: Capstone Project: Build a Professional Responsive Website

7 Lessons

1. 63. Project Planning, Design System, and CSS Architecture **45min**

2. 64. Implementing a Multi-Page Responsive Layout with Flexbox & Grid **2hr**

3. 65. Adding Advanced Styling, Animations, and Interactive Elements **1hr 30min**

4. 66. Ensuring Cross-Browser Compatibility and Accessibility **1hr**

5. 67. Optimizing CSS for Production and Deployment Considerations **45min**

6. 68. Final Project Review and Submission **1hr**

7. 69. Recap & Course Completion Checklist **40min**

This curriculum is subject to minor adjustments to ensure the most up-to-date and effective learning experience.