



30-Day HTML + CSS Roadmap

Day 1: HTML Basics + Structure

Learn:

- What is HTML
- Basic structure (`<!DOCTYPE html>`, `<html>`, `<head>`, `<body>`)
- Headings (`<h1>...<h6>`), paragraphs (`<p>`)
- Line breaks `
`, horizontal lines `<hr>`

Mini Projects:

1. Create a “Hello World” webpage with your name + bio.
 2. Make a simple daily journal page (heading + paragraph).
 3. Design a motivational quote page (use `<h1>` for the quote).
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Day 2: Text Formatting

Learn:

- Bold ``, Italic `<i>`, Underline `<u>`
- Strong ``, Emphasis ``
- Subscript `<sub>`, Superscript `<sup>`

Mini Projects:

1. Write a maths formula using sub/sup (e.g., H_2O , X^2).
2. Build a mini CV with bold job titles.
3. Make a “Fun Facts” page using italics + strong text.

Day 3: Links & Images

Learn:

- `` links (internal + external)
- Adding images ``
- Target attribute (`_blank`, `_self`)

Mini Projects:

1. Create a “My Socials” page with links to YouTube, Insta, etc.
2. Build a photo card with your favourite image.
3. Make a gallery with 3 clickable images (each opens in a new tab).

Day 4: Lists

Learn:

- Ordered list ``, unordered list ``
- Nested lists (lists inside lists)

Mini Projects:

1. Create your weekly to-do list.
2. Build a “Top 5 Favourite Movies” page.
3. Make a restaurant menu with categories (starters, mains, desserts).

Day 5: Tables

Learn:

- `<table>`, `<tr>`, `<th>`, `<td>`

- Table borders, colspan, rowspan basics

Mini Projects:

1. Make your college timetable.
 2. Create a marksheet table with subjects + grades.
 3. Build a pricing table (Basic, Pro, Premium).
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Day 6: Forms Basics

Learn:

- `<form>` basics
- `<input>` (text, email, number, password)
- `<label>` tag

Mini Projects:

1. Make a simple login form.
 2. Build a feedback form with name + email.
 3. Create a newsletter subscription form.
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Day 7: Forms Advanced

Learn:

- Radio buttons, checkboxes, dropdown (`<select>`)
- Textarea, buttons

Mini Projects:

1. Pizza order form (choose toppings).
2. College admission form.
3. Feedback form with multiple choice.

Day 8: Semantic Tags

Learn:

- `<header>`, `<nav>`, `<main>`, `<section>`, `<article>`, `<aside>`, `<footer>`
- Why semantics matter for SEO + structure

Mini Projects:

1. Build a blog post layout with `<article>`.
 2. Create a basic website layout (header, nav, body, footer).
 3. Build a news card using `<section>` + `<aside>`.
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Day 9: Media

Learn:

- Adding video (`<video>`), audio (`<audio>`)
- Attributes: `autoplay`, `controls`, `loop`

Mini Projects:

1. Make a video player page.
 2. Add an audio track (favourite song).
 3. Create a movie trailer page (poster + video).
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Day 10: Forms Deep Dive

Learn:

- Form attributes (`action`, `method`)
- Hidden inputs, file uploads (`type="file"`)

Mini Projects:

1. File upload form for resume.
 2. Profile creation form (name, email, profile pic).
 3. Contact us form with file upload option.
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Day 11: Metadata

Learn:

- `<meta>` tags (charset, viewport, description)
- `<title>` and favicon

Mini Projects:

1. Add favicon to your site.
 2. Create a mobile-friendly meta tag page.
 3. Optimise a blog with description + keywords.
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Day 12: iFrames

Learn:

- Embedding websites/videos with `<iframe>`

Mini Projects:

1. Embed YouTube video.
 2. Embed Google Maps location.
 3. Create a “favourite websites” frame page.
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Day 13: Forms Validation (Basic HTML)

Learn:

- required, min, max, pattern attributes

Mini Projects:

1. Form with required email + password.
 2. Age restriction form (18+).
 3. Sign-up page with pattern validation (like phone number).
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Day 14: Accessibility

Learn:

- alt for images, aria-label, tabindex
- Why accessibility matters

Mini Projects:

1. Make an accessible form.
 2. Build a gallery with proper alt text.
 3. Add keyboard navigation to a site.
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Day 15: Mini HTML Project

Learn:

- Combine everything from Day 1–14

Mini Projects:

1. Personal portfolio (bio, gallery, contact form).
2. College homepage (nav, timetable, faculty info).

3. Food delivery landing page (menu, order form).
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CSS Phase (Day 16–30)

Day 16: CSS Basics

Learn:

- Inline, internal, external CSS
- Selectors: element, class, id

Mini Projects:

1. Style your Day 15 project with colours.
 2. Make a colourful heading page.
 3. Create a styled personal card.
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Day 17: Colours & Backgrounds

Learn:

- Named colours, hex, rgb, hsl
- background-color, background-image, background-repeat

Mini Projects:

1. Gradient background landing page.
 2. Patterned background portfolio.
 3. Hero section with image background.
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Day 18: Text Styling

Learn:

- Fonts, font-family, font-size, font-weight
- Text alignment, decoration, shadow

Mini Projects:

1. Typography showcase page.
2. Styled blog post.
3. Digital poster design.

Day 19: Box Model

Learn:

- Margin, padding, border
- Width/height basics

Mini Projects:

1. Design a profile card.
2. Create a product card layout.
3. Build a pricing box.

Day 20: Display & Position

Learn:

- Block, inline, inline-block
- Position (static, relative, absolute, fixed, sticky)

Mini Projects:

1. Sticky navbar.
 2. Popup box using absolute.
 3. Fixed footer page.
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Day 21: Flexbox Basics

Learn:

- display: flex;
- Justify-content, align-items, flex-direction

Mini Projects:

1. Navbar with flexbox.
 2. Flex gallery.
 3. Two-column layout.
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Day 22: Flexbox Advanced

Learn:

- Flex-grow, shrink, wrap
- Align-self

Mini Projects:

1. Responsive card layout.
 2. Dashboard sidebar with flex.
 3. Photo gallery with wrap.
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Day 23: CSS Grid Basics

Learn:

- `display: grid;`
- Rows, columns, gap

Mini Projects:

1. Grid-based photo gallery.
2. Grid timetable.
3. 3-column blog layout.

Day 24: CSS Grid Advanced

Learn:

- Grid areas, span, nested grids

Mini Projects:

1. Complex website layout.
2. Magazine-style page.
3. Grid-based e-commerce layout.

Day 25: Pseudo Classes & Elements

Learn:

- `:hover`, `:focus`, `:active`
- `::before`, `::after`

Mini Projects:

1. Button hover effects.
2. Tooltip with `::after`.
3. Stylish quote with `::before`.

Day 26: Transitions & Animations

Learn:

- transition, @keyframes, animation

Mini Projects:

1. Animated button.
2. Loading spinner.
3. Bounce effect on image.

Day 27: Responsive Design Basics

Learn:

- Media queries
- Fluid layouts

Mini Projects:

1. Responsive navbar.
2. Mobile-friendly gallery.
3. Responsive 3-column → 1-column.

Day 28: Advanced Responsive

Learn:

- Mobile-first design
- Using flexbox + grid with media queries

Mini Projects:

1. Responsive portfolio.
2. College website homepage.
3. Product landing page.

Day 29: CSS Best Practices

Learn:

- BEM naming
- Organising CSS files
- CSS variables

Mini Projects:

1. Refactor previous project with clean CSS.
2. Add variables for colours + fonts.
3. Redesign gallery with reusable classes.

Day 30: Final CSS Project

Learn:

- Combine everything

Mini Projects:

1. Full college placement page (nav, hero, table, gallery, contact).
 2. Personal portfolio site.
 3. Blog + landing page with responsive design.
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