COURSE SYLLABUS

# Advanced HTML & CSS (Self-Paced)

Take your CSS skills to the next level with this comprehensive self-paced course. Learn advanced topics such as SVG, CSS variables, gradients, shadows, positioning, transitions, transforms, and responsive images to help you code polished, professional-looking webpages.

For more information, visit
https://www.creativelive.com/classes/advanced-html-css-self-paced



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## Course Outline

### Section 1

**Starting a New Website from Scratch & Emmet Shortcuts**

- Creating a new HTML page with Emmet shortcuts
- Adding content & styling it

**Variable Fonts (from Google Fonts) & Unitless Line-Height**

- Adding custom web fonts from Google Fonts
- Using font-weight
- Unitless line-height

**Styling the Navbar**

- Styling the Navbar
- Hover & Focus Link Styles

**CSS Box Model: Content-Box vs. Border-Box**

- How border-box is different than content-box
- Visualizing the box model in Chrome's DevTools
- Fixing spacing issues around images
- Flexible padding: using percentage amounts

### Section 2

**SVG Sizing (Width & Height) and Embedding SVG**

- How Width & Height Affect Sizing of SVG
- Embedding SVG (instead of linking)
- Styling SVG using CSS

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- Using currentColor

### CSS Position Property

- Static position & the normal document flow
- Relative position
- Absolute position
- The dynamic duo: relative parent, absolute child
- Fixed position

### Fixed Position Navbar, RGBA, & Backdrop Filters

- Creating a fixed navbar on wide & tall screens
- RGBA color
- Blurring & desaturating a background with CSS backdrop filters

### Improvements for Mobile Devices

- Preventing mobile text size adjustment
- Preventing a fixed navbar on short screens
- Dealing with the iPhone's dynamic island (or notch)
- CSS calc()

## Section 3

### Background Gradients & Text Gradients

- CSS background gradients
- CSS text gradients

### Multiple Backgrounds, Viewport Sizing (vw), & Clamp

- Multiple backgrounds on a single element
- Colorizing a photo by overlaying a transparent gradient
- Using viewport sizing units (vw)
- Using Clamp to set a min & max font size

### Creating Columns with Flexbox

- Displaying content as columns using Flexbox
- Vertical alignment with Flexbox

### Pseudo-Elements & the Content Property

- Using pseudo-elements
- The content property
- Seeing pseudo-elements in Chrome's DevTools

## Section 4

### Attribute Selectors

- Adding link icons with attribute selectors
- "Ends with" attribute selector
- "Begins with" attribute selector

- “Contains” attribute selector

### Relational Selectors

- Using first-child & last-child
- Using first-of-type
- Using nth-child
- Direct child/descendant selectors

### CSS Variables (Custom Properties)

- Defining & using CSS variables
- The power of inheritance

### Light & Dark Modes using CSS

- Styling webpages for light & dark modes
- Previewing light & dark modes in Chrome DevTools
- “Alt” text for embedded SVGs

## Section 5

### Creating Forms with HTML

- Creating a form & text inputs with labels
- Adding an email input, submit button, textarea, & select menu
- Fieldset, legend, & radio buttons
- Checkbox vs radio button

### Styling Forms (with Attribute Selectors)

- Styling form elements
- Targeting inputs with attribute selectors

### Relative Sizes: Em and Rem

- Em units
- Rem units

## Section 6

### Off-Screen Side Nav Using Only CSS

- Responsive off-screen navigation
- Toggling the navigation with a checkbox
- CSS transitions

### Box-Shadow, Text-Shadow, & Z-Index

- Using the CSS box-shadow property
- Changing an element’s default stack order with position and z-index
- Inset shadows
- Adding drop shadows to text with CSS text-shadow
- Layering multiple text-shadows for a detached outline effect

### CSS Transitions

- Using CSS transitions to animate elements on hover

- Adding easing
- Custom easing with Ceaser

### CSS Transforms with Transitions

- Testing transforms using the DevTools
- Adding a scale transform & transitioning it
- Transform origin
- Adding a rotate transform
- Using the translate transform to nudge elements