

# Advanced HTML & CSS

Kick your CSS skills up a notch by learning how to code more complex and visually interesting layouts. In this CSS training, you'll learn about vector graphics (SVG), CSS variables, styling gradients, shadows, positioning, CSS animated transitions, transforms, responsive images, and much more.

Group classes in NYC and onsite training is available for this course. For more information, email [hello@nobledesktop.com](mailto:hello@nobledesktop.com) or visit: <https://www.nobledesktop.com/classes/web-development-level2>



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## Course Outline

### Section 1

#### Normalize.css, Default Box Model, & More

- Using normalize.css
- Grouping CSS selectors using a comma separator
- Fluid, hi-res images
- Constraining the width of content
- Visualizing the box model (margin, padding, and border) in Chrome's DevTools
- Fixing spacing issues around images
- CSS shorthand for the background property

#### Font-Weight, Font-Style, & Unitless Line-Height

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

#### Box Model: Content-Box vs. Border-Box

- How border-box is different than content-box
- Best practice for applying border-box to everything

#### Intro to SVG (Scalable Vector Graphics)

- Adding SVG to a webpage
- Sizing SVG
- Web Servers: Configuring a .htaccess file for SVG & gzip

### Section 2

## Embedding SVG

- Embedding SVG (instead of linking)
- Styling SVG using CSS
- Using `currentColor`

## SVG Sprites

- Defining the SVG sprite
- Using a sprite
- Styling sprites

## CSS Position Property

- The static value & the normal document flow
- The relative value
- The absolute value
- The dynamic duo: relative parent, absolute child
- The fixed value

## Creating a Fixed Navbar & RGBA Color

- Creating a fixed navbar on wider screens
- RGBA color

# Section 3

## CSS Background Gradients & Gradient Patterns

- CSS background gradients
- Creating a striped background using gradients

## Multiple Backgrounds & Viewport Sizing Units (vw)

- Multiple backgrounds on a single element
- Colorizing a photo by overlaying a transparent gradient
- Using viewport sizing units (vw)

## Creating Columns with Inline-Block & Calc()

- Displaying content as columns using inline-block
- Using CSS `calc()`

## CSS Variables (Custom Properties)

- Defining & using CSS variables
- The power of inheritance

# Section 4

## Relational Selectors

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

## **Pseudo-Elements & the Content Property**

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

## **Attribute Selectors**

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

## **Styling Forms with Attribute Selectors**

- Styling form elements
- Targeting inputs with attribute selectors
- The ::placeholder pseudo element

## **Relative Sizes: Em and Rem**

- Em units
- Rem units

# **Section 5**

## **Flix: Creating a Scrollable Area**

- Creating a horizontal scrollable area
- Optimizing the scrolling for iOS touch devices

## **Flix: Media Queries for Retina/HiDPI Graphics**

Using media queries to load hi-res images for Retina/HiDPI displays

## **Responsive Images**

- Img srcset
- The picture element

## **Off-Screen Side Nav Using Only CSS**

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

# **Section 6**

## **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

## **Hiding & Showing: Display, Visibility, & Opacity**

- Removing an element from the normal document flow with display: none

- Hiding/showing elements with visibility
- Hiding/showing elements with opacity
- How display, visibility, & opacity differ

### **CSS Transitions**

- Transition-property & transition-duration
- Transition shorthand & the all keyword
- Transitioning position coordinates
- Adding easing with transition-timing-function
- Custom easing with Ceaser

### **CSS Transforms with Transitions**

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