

# Advanced HTML & CSS

This 18-hour CSS course builds upon Web Development Level 1, and is the second class in our Web Design & Web Development Bootcamps. Design more complex layouts in this hands-on course led by a top web designer in New York City. You'll get our custom CSS training workbook used by universities and institutions around the world, as well as the option of a free retake if you feel like you need a bit more practice.

Group classes in NYC and onsite training is available for this course. For more information, email [nyc@careercenters.com](mailto:nyc@careercenters.com) or visit: <https://www.careercenters.com/courses/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