COURSE SYLLABUS

Advanced HTML & CSS

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

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/web-development-level2



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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