Web Development with HTML & CSS

Learn how to code webpages using HTML and CSS, from structuring and tagging content to styling and making the pages responsive. Upload and make your websites live using FTP.

> Group classes in NYC and onsite training is available for this course.
> For more information, email hello@nobledesktop.com or visit:
> https://www.nobledesktop.com/classes/coding-classes-new-york-city-nyc

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Course Outline

Section 1

Coding Basics: Intro to HTML Syntax

- The HTML, head, title, & body tags
- Headings, paragraphs, & lists
- The strong & em tags
- The doctype
- The lang attribute
- The meta tag & the unicode character set

Coding Links: Absolute & Relative URLs

- Anchor tags & hrefs
- Linking to other websites
- Linking to pages within a website
- Opening a link in a new browser window/tab

Adding Images

- The break tag
- The image tag & source attribute
- Using the width, height, & alt attributes
- Using horizontal rules

Intro to Cascading Style Sheets (CSS)

- The style tag
- Tag selectors
- The font-size, font-family, color, & line-height properties
- Hexadecimal color codes

Section 2

CSS Class Selectors

- The class attribute
- CSS class selectors
- The span tag
- CSS opacity

Div Tags, ID Selectors, & Basic Page Formatting

- Dividing up content with the div tag
- Assigning IDs to divs
- Setting width & max-width
- CSS background-color
- Adding padding inside a div
- Centering content
- CSS borders
- CSS shorthand & the DRY principle

Using Browser Developer Tools

- Opening the DevTools in Chrome
- Editing HTML in the DevTools Elements panel
- Enabling, disabling, & editing CSS in the DevTools
- Using DevTools to fine-tune your CSS
- Hexadecimal shorthand

HTML Semantic Elements & Validating HTML

- The outline algorithm
- The header, nav, aside, & footer elements
- Understanding articles & sections
- The main element
- The figure & figcaption elements
- Checking for errors: validating your code

Section 3

Revolution Travel: Page Layout

- Organizing content into semantic sections
- Adding images
- Tagging headings

The Box Model

- What is the box model?
- Setting div width
- Setting a default font for the page
- Margin & padding spacing

Floats & Images

- Adding a hero image
- Fluid images
- Floating images
- Class selectors
- Margins

Coding Links: Images & Page Jumps

- Anchor tags & relative URLs
- Wrapping links around images
- External links (using the target attribute)
- Links within a page

Section 4

Styling Links

- Styling the anchor tag
- The :link, :visited, :hover, :focus, & :active pseudo-classes
- Ordering link styles

Styling the Navigation

- Semantically correct navigation
- Overriding default list styles
- CSS navigation styles
- Using descendant selectors

Specificity, Shared CSS, & Centering Content

- CSS specificity
- Overriding other link rules
- Moving embedded styles into an external CSS file
- Sharing styles across a site
- The text-align property
- Centering divs

Setting the Viewport Meta Tag

- Disabling mobile browser text size adjustment
- The viewport meta tag
- device-width
- initial-scale
- maximum-scale

Section 5

Starting a New Site & CSS Background Images

- Setting a default font
- Removing default page margin
- Linking to an external style sheet
- CSS background images

- background-position
- background-repeat
- background-size

Fun with Fonts
- How to use Google Fonts
- Safe fallbacks in the font stack
- Improving line-height & margin for text legibility

Hipstirred Layout: Fine-Tuning with the Box Model
- Removing the extra space below an image
- Setting a max-width
- Outer & inner wrappers
- The difference between ID & class selectors

Section 6

CSS Buttons & Floats
- Styling semantically correct navigation
- Floats for layout
- Float insert position
- Vertical alignment & line-height
- Simple CSS buttons
- CSS border-radius
- Reusing class selectors

Hipstirred: Hi-Res Images
- Retina or HiDPI graphics (@2x images)
- Setting HTML & CSS size to half the image's native size
- Code pixels vs. hardware pixels

Uploading to a Live Website via FTP
- Web hosts & domain names
- Things you'll need to upload a website
- Using an FTP client & going live

Creating Columns: Intro to CSS Grid & Media Queries
- Creating a 2-column layout with CSS Grid
- Finding an appropriate breakpoint
- Using a media query to change the layout at a specific screen size