

SYLLABUS

HTML & CSS

COURSE OVERVIEW

Whether you are reading a simple article or using the most complex web app, every page you see in a browser is delivered as HTML and styled with CSS. This powerful duo is the foundation of front-end web development and the perfect place to start your coding journey.

In this course you will learn how to write clean, standards-compliant code, and you will become acquainted with the fundamentals of design geared specifically for the web. We will get you setup with a text editor on day one, and by the end of our 10 weeks together you will have created your first responsive website to present to the world.

LESSON 1: INTRO TO HTML

- Defining a website
- Defining HTML
- The Text Editor
- HTML Basic Syntax
- Nesting Elements
- HTML Basic Document Structure
- Commenting & Indentation

LESSON 2: TYPOGRAPHY, LINKS, IMAGES

- Typographic Elements
- Links
- Structural Tags
- Images
- Attributes
- HTML Entities

LESSON 3: INTRO TO CSS, SELECTORS

- Defining CSS
- How to apply styles
- Structure of the CSS rule
- Basic selectors
- Using Multiple selectors

LESSON 4: INHERITANCE, THE CASCADE, SPECIFICITY

- Inheritance
- The Cascade
- Specificity
- Styling links

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LESSON 5: BACKGROUNDS, MARGINS, PADDING

- Units of Measure
- Intro to dev tools
- Width & height
- Margins & padding
- Colours

LESSON 6: BORDERS, BACKGROUNDS, IMAGES FILES

- Borders
- Background images
- Gradients
- Image file formats
- Preparing image for the web

LESSON 7: BOX MODEL, INTRO TO LAYOUTS, FLOATS

- Display property
- Box Model
- Border-box
- Intro to floats
- Project 1 assigned

LESSON 8: FLOATS FOR LAYOUT, CLEARFIX, NORMALIZE

- Trouble with floats
- Clearing floats & clearfix
- CSS normalize

LESSON 9: LISTS & NAVIGATION

- List types
- Styling Lists
- Nested Lists
- Using lists for Navigation
- [Project 1 – class time]

LESSON 10: TYPOGRAPHY, BEFORE & AFTER

- Fonts & font-families
- Styling typography
- Web fonts
- Before & After pseudo elements
- [Project 1 – class time]

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LESSON 11: POSITIONING

- Static
- Relative
- Absolute
- Fixed
- Sticky
- z-index
- Overflow
- [Project 1 – presentations]

LESSON 12: ADVANCED SELECTORS, FLUID LAYOUTS, FORMS

- Advanced Selectors
- even, odd
- nth-child
- not
- Fluid Layouts
- working with min-width, max-width, and %
- working with images in fluid layouts
- Resources for grids & frameworks [Go Deeper]
- Forms Overview (types of forms)
- Basic Markup
- Form Action
- Input Types
- Submit
- Styling Forms
- Accessibility Concerns

LESSON 13: RESPONSIVE, VIDEO, & MEDIA

- Media Queries
- min-width
- max-width
- min-width and max-width
- Viewport tag
- Images
- Organizing our code
- Best Practice
- Screens over devices
- Content for all users
- Videos & Media

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LESSON 14: SHADOWS, TRANSFORMS, TRANSITIONS, ANIMATIONS

- Browser Prefixing
- Transforms Intro
- Scale
- Translate
- Rotate
- Skew
- Transitions Intro
- transition-delay
- transition-duration
- transition-property
- CSS Animation intro
- Defining keyframes animations
- Applying keyframe animations
- [libraries such as animate.css]
- [Project 2 – assigned]

LESSON 15: FLEXBOX PART 1

- Flexbox Intro
- Defining flex containers & items
- Defining the horizontal & vertical axis
- Flex container properties
- Flex item properties
- Flexbox centering techniques

LESSON 16: FLEXBOX PART 2

- Managing spacing between columns and rows
- Changing display order of items
- Aligning items individually

LESSON 17: ICONS, SHADOWS, X-BROWSER TESTING

- Font-Awesome
- Shadows
- Text shadows
- Box shadows
- Cross-Browser Testing
- Microsoft Remote Desktop
- Virtual machines
- Browserstack
- [Project 2 – class time]

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LESSON 19: DOMAINS, HOSTING, FTP

- Domains
- How to search
- Where to buy
- Hosting
- How servers work
- How to choose a good host
- Storing credentials
- Understanding C-Panel
- FTP
- Filezilla
- FTP credentials
- How to get our stuff online!
- [Project 2 – class time]

LESSON 20: PRESENTATIONS

- Bonus, Catch-up, Project time
- [Project – Presentations]
- Parting words & next steps

MIXINS

- SEO Basics
- More Semantic Elements
- Intro to Microformats (very much an intro)
- Speed and responsive concerns
- Accessibility Basics
- Crucial Attributes
- Design concerns
- Testing resources
- Design
- Planning
- Industry tools & software