DECODEMTL

Part-time Web Development - Syllabus

Lesson 01 - HTML Intro

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

Lesson 02 - Typography, Links, & Images

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

Lesson 03 - CSS Intro & Selectors

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

Lesson 04 — Inheritance, The Cascade & Specificity

- Inheritance
- The Cascade
- Specificity
- Styling links

Lesson 05 - Backgrounds, Margins, & Padding

- Units of Measure

- Intro to dev tools
- Width & height
- Margins & padding
- Colours

Lesson 06 - Borders, Backgrounds, Image Files

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

Lesson 07 - Box Model, Intro to Layouts, Floats

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

Lesson 08 - Floats for layout, Clearfix, Normalize

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

Lesson 09 — 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]`

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

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]

Lesson 18 - Fundamentals of Design

- Hierarchy
- Colour
- Typography
- Space
- Applying design fundamentals to the web
- `[Lots & lots of resources]`
- `[Project 2 - class time]`

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

Content covered informally throughout lessons

- 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