

Advanced CSS Concepts

Modality: Self-Paced Learning

Duration: 12 Hours

About this course:

In this computer science course, you will learn how to design, develop and test device-friendly websites using CSS, one of the core technologies used for building web pages. You'll also learn how to use Flexbox, SVG images, linting and other web developer tools to enhance your web pages.

This course is intended for:

- Anyone who wants to learn Advanced CSS, any junior-level developers, students, or anyone who already has some HTML, CSS, and JavaScript training or knowledge.
- People who want to make a living (or side-income) from web page design/development.

Course Objective:

- Evaluating designs and recognizing the underlying layout
- Analyzing style guides to build your base CSS
- Building a semantic HTML and CSS foundation
- Using media queries to create a responsive grid system
- Building a base button module and extending it to a button primary
- Building a mobile header section that includes a logo and navigation
- Building a mobile hero section and positioning an image as a background
- Building a media object and including an icon font
- Transpiling SCSS into CSS and setting up a file structure
- Building a desktop header section with variables and media query mixins
- Creating an image frame module and color mask module
- Using Web developer tools and linting to help you find and fix issues
- Using Flexbox on the header, logo, and navigation to maximize available space
- Extending your Grid with Flexbox and reversing a row for medium and large device sizes
- Using SVG images and how to add them to a page using the new tag

Audience:

- Front-end Developer
- Web Developer

Prerequisite:

- Basic understanding of HTML
- A working knowledge of basic CSS implementation
- Basic understanding of JavaScript programming

Course Outline:

Module 1 - Responsive Layout Using Media Queries

- Resource Content: Building a Responsive Layout
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Planning and Designing a Layout
- Tutorial Lab: Building a Semantic HTML and CSS Foundation
- Tutorial Lab: Analyzing Style Guides to Build Your Base CSS
- Tutorial Lab: Using Media Queries to Create a Responsive Grid System
- Self-Assessment Lab: Build a Fluid Layout from a Wireframe

Module 2 - CSS Modules and High Fidelity Designs

- Resource Content: Building the Base and CSS Modules
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Build the Base Button Module
- Tutorial Lab: Build the Mobile Header, Logo, and Navigation
- Tutorial Lab: Build the Hero Section and Background Image
- Tutorial Lab: Build a Media Object that Includes an Icon Font
- Self-Assessment Lab: Enhancing Your CSS Modules

Module 3 - Sass/Less and Preprocessing

- Resource Content: CSS Preprocessing Tools
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Getting Started Transpiling SCSS into CSS
- Tutorial Lab: Build Desktop Header Section with Variables and Media Query Mixins
- Tutorial Lab: Create the Circle Image Frame Module and Color Mask Module
- Self-Assessment Lab: Updating Your CSS with Sass

Module 4 - Web App Testing and Support for Browsers and Devices

- Resource Content: Tools for Testing and Supporting Web Apps
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Finding and Fixing Issues in Web Pages
- Tutorial Lab: Using Flexbox to Maximize Available Space
- Tutorial Lab: Extending Grid Styles with Flexbox
- Tutorial Lab: Adding SVG Images Using the Tag
- Self-Assessment Lab: Flexbox and SVG Images?