# INT250: HTML5 and CSS3

Code: INT250 Duration: 2 days

#### Audience :

This course is intended for experienced HTML designers who want to learn how to use HTML5 and CSS3 to make modern state of the art Web sites.

#### Prerequisites:

To join this course knowledge of and experience with HTML and CSS is required.

#### Poslization

The subjects are discussed on the basis of presentation slides. The subject matter is clarified with demos. The theory is interspersed with exercises. The code is tested in different browsers. The course material is in English.

Category: Internet

### HTML





HTML5 and CSS3





#### Contents:

In this HTML5 course you will learn authoring, testing and publishing content in the HTML5 and CSS3 languages, even as the standard itself continues to evolve. HTML and CSS are the two languages that shape most web sites on the internet. HTML dictates the content of a website (text, images, and media plugins) and CSS defines the style (colors, fonts, and layouts). Although HTML4 and CSS2 have been foundational in the development of a functional and stylistic internet, HTML5 and CSS3 represent the next step in web technologies. HTML5 and CSS3 are expected to become dominant technologies in developing interactive and aesthetically-appealing websites.

### Module 1: HTML5 Intro

What is HTML5? HTML5 History W3C and WHATWG HTML5 Vision Compatibility HTML5 Usage Interoperabilty Universal Access Future of HTML5 Browser Support Browsers In Mobile Devices Feature Detection Legacy Browser Gracefull Degradation

### Module 4: Audio and Video

Audio and Video Using Plugins Using Codecs Multiple Sources New Audio Markup New Video Markup Attributes and Methods Audio and Video Events Customizing Controls

### Module 7: Data Storage

Data Storage Cookies Model Pre HTML5 Solutions New Storage Options Web Storage Storage Interface Session Storage Local Storage Web SQL Storage Browser Support

### Module 2: Page Structure

HTML5 Page Structure
HTML5 DocType
Page Encoding
HTML5 Markup
New Page Elements
Updated Page Elements
Deprecated Elements
Structure Elements
New Attributes
Deprecated Attributes
HTML5 and CSS3
Browser Support

### Module 5: Styling Pages

New CSS properties
Rounded corners
Drop shadows
Color effects
Transparency using RGBA
Gradients
Rotation
Scale to page elements
Transitions
Page movement without JavaScript
Advanced selectors like nth-child
Target exactly the right elements
Embed using @font-face!
Using custom fonts
Using text on the page instead of images
Support for @font-face
Work arounds

### Module 8 : Offline Applications

Offline Applications
Manifest File
Cache Section
Network Section
Fallback Section
applicationCache Events
Deployments And Updates
error Event
updateReady Event

### Module 3: HTML Forms

HTML5 Forms
Gathering Input
New Input Types
Color Input Type
Date Input Type
Email Input Type
Email Input Type
New Attributes
Form Validation
Complex Validation
Using Regular Expressions
Browser Support

### Module 6 : Canvas

HTML5 Canvas
Canvas versus SVG
Accessiblity
Using a Canvas
Context and Coordinates
Drawing Shapes
Working with Paths
Drawing Straight Lines
Stroked Path
Drawing Circles or Arcs
Drawing Text
Drawing Images
Working with Pixels
Understanding Transforms
Translation and Rotation
Scaling

### Module 9 : Geolocation

HTML5 Geolocation Privacy Considerations Get User Location Geolocation Object getCurrentPosition watchPosition Position Object Latitude Longitude Handling Errors PositionOptions

## Module 10 : WebWorkers

HTML5 WebWorkers
JavaScript Execution Model
WebWorker Usage
Communication API
Handling Errors
ErrorEvent Interface

# Module 11 : Messaging

MODULE 11: Messaging
HTML5 Messaging API's
Same Origin Policy
Workarounds
JSON with Padding
Using a Proxy
Cross Document Messaging
Sending Messages
Receiving Messages
XMLHttpRequest Level 2
Cross Origin Resource Sharing
Progress Event

## Module 12: WebSockets

Web Sockets
Real Time Solutions
Polling Architecture
Long Polling Architecture
Web Sockets API
Web Sockets Protocol
Web Sockets Handshake
Advantages Web Sockets