

HTML5 & CSS3 Training Outline (24 hours)

- Introduction of different Web Technology
- Introduction
- HTML Elements
- HTML Attributes
- HTML Headings
- HTML Paragraphs
- HTML Formatting
- HTML Fonts
- HTML Styles
- HTML Links
- HTML Images
- HTML Tables
- HTML Lists
- HTML Forms
- HTML Iframe
- HTML Layout
- HTML Doctypes
- HTML Head
- HTML Meta
- HTML Scripts
- HTML Media
- HTML Audio
- HTML Object
- HTML Video
- HTML YouTube
- HTML Media Tags
- HTML Summary

HTML5

History, Vision & Future of HTML5

- What Is HTML5?
- History And Major Actors
 - A Little Retrospective
 - What Is The W3C?
 - What Is The WHATWG?

- Vision And Philosophy Behind HTML5
 - o Compatibility
 - o Utility
 - o Interoperability
 - o Universal Access
- Future Of HTML5
 - o Timeline

Getting Started With HTML5

- The State Of Browser Support
- Feature Detection
- Support For Legacy Browsers
 - o Graceful Degradation
 - o Emulation
- Developer Tools

Structure of a Web Page

- HTML5 DOCTYPE
- Page Encoding
- HTML5 Mark-up
 - o New And Updated Elements
 - o Structural Elements
 - o New Attributes
 - o Deprecated Elements And Attributes
- HTML5 And CSS3
- Browser Support

Forms

- What Are The Needs For Web Applications?
- Current Solutions
- New Input Types
- New Attributes
- Form Validation
- Browser Support

Audio and Video

- The State of Web Audio And Video Based On Plug-in
- The State Of Audio And Video Codec (e.g. H.264, WebM, etc.)
 - o Video/Audio Codec And Browser Support

- New Audio/Video Mark-up
- Attributes And Methods
- Understanding Audio/Video Events
- Customizing Audio/Video Controls

HTML5 Canvas

- Overview Of Graphics In The Browser
 - Canvas Vs. SVG
 - Accessibility
- Using A Canvas
- Context And Coordinates
- Drawing Shapes
- Working With Paths
 - Drawing Straight Lines
 - Drawing Circles Or Arcs
- Drawing Text
- Drawing Images
- Working With Pixels
- Understanding Transforms
 - Translation
 - Rotation
 - Scaling
- Browser Support

CSS 2.1

- CSS Introduction
- CSS Syntax
- CSS Id & Class
- CSS Styling
- Styling Backgrounds
- Styling Text
- Styling Fonts
- Styling Links
- Styling Lists
- Styling Tables
- CSS Box Model
- CSS Border
- CSS Outline
- CSS Margin
- CSS Padding
- CSS Advanced

- CSS Grouping/Nesting
- CSS Dimension
- CSS Display
- CSS Positioning
- CSS Floating
- CSS Align
- CSS Navigation Bar
- CSS Image Gallery
- CSS Image Opacity
- CSS Image Sprites
- CSS Media Types
- CSS hacking
- CSS Summary

CSS3

- The Power of CSS
 - Doing More with Less
 - A First Example
 - Challenges
 - Next Up
- Introducing CSS3
 - What is CSS3?
 - The History of CSS
 - Browser Support
 - HTML5
- Selectors and Pseudo Classes
 - Attribute Selectors
 - The Target Pseudo-Class
 - UI Element States Pseudo-Classes
 - Negation Pseudo-Class
 - Structural Pseudo-Classes
- Fonts and Text Effects
 - Fonts on the Web
 - Font Services
 - The @font-face Rule
 - Text Shadow
 - Word Wrapping

- Colours, Gradients, Background Images, and Masks
 - o Colour
 - o The Opacity Property
 - o Backgrounds
 - o background-origin, and background-size
- Borders and Box Effects
 - o Image Borders
 - o Rounded Corners
 - o Box Shadow
- Transitions, Transforms, and Animations
 - o Transitions and Transforms
 - o Transitions
- Layout: Columns and Flexible Box
 - o Layout: Columns and Flexible Box
 - o Flexible Box Model
- Vendor Prefixes
 - o What Are Vendor Prefixes?
 - o Maybe They Aren't So Bad
 - o Strategies
- Embedding Media
 - o Video Formats
 - o Styling Video
- Accessibility Features
 - o Web Accessibility
 - o The CSS3 Speech Module
- Media Queries
 - o Targeting Widths and Devices with CSS3 Media Queries
 - o Responsive Images and the viewport Metatag

- Implementing CSS3 in the “Real World”
 - o Stuff That Aren’t (Strictly) CSS, but Sure Is Useful
 - o jQuery
 - o HTML5
 - o Modernizr
 - o Preprocessors
 - o Frameworks and Grid Systems

- Going Forward/Additional Resources
 - o What’s next?
 - o Online Resources
 - o Get Involved