



HTML5 Syllabus

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

History, Vision & Future of HTML5

- What Is HTML5?
- History And Major Actors
 - A Little Retrospective
 - Is The W3C?
 - What Is The WHATWG?
- Vision And Philosophy Behind HTML5
 - Compatibility
 - Utility
 - Interoperability
 - Universal Access
- Future Of HTML5
 - Timeline



Getting Started With HTML5

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

Structure of a Web Page

- HTML5 DOCTYPE
- Page Encoding
- HTML5 Mark-up
 - New And Updated Elements
 - Structural Elements
 - New Attributes
 - 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.)
 - 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



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- Drawing Images
- Working With Pixels
- Understanding Transforms
 - Translation
 - Rotation
 - Scaling
- Browser Support

Web Storage

- Overview
- Local Storage
- Session Storage
- Browser Compatibility

HTML5 API

- Geolocation / Maps
- Offline Application Cache
- Web Workers
- Server-Sent Events
- Web Socket API



CSS3 Syllabus

Syllabus Covered (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
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- 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
 - Colour
 - The Opacity Property
 - Backgrounds
 - background-origin, and background-size
- Borders and Box Effects
 - Image Borders
 - Rounded Corners
 - Box Shadow
- Transitions, Transforms, and Animations
 - Transitions and Transforms
 - Transitions
- Layout: Columns and Flexible Box
 - Layout: Columns and Flexible Box
 - Flexible Box Model
- Vendor Prefixes
 - What Are Vendor Prefixes?
 - Maybe They Aren't So Bad
 - Strategies
- Embedding Media
 - Video Formats
 - Styling Video
- Accessibility Features
 - Web Accessibility
 - The CSS3 Speech Module
- Media Queries
 - Targeting Widths and Devices with CSS3 Media Queries
 - Responsive Images and the viewport Metatag
- Implementing CSS3 in the "Real World"
 - Stuff That Aren't (Strictly) CSS, but Sure Is Useful
 - jQuery
 - HTML5
 - Modernizr
 - Preprocessors
 - Frameworks and Grid Systems
- Going Forward/Additional Resources
 - What's next?
 - Online Resources
 - Get Involved