HTML5 & CSS3 - COURSE CONTENT

Ch1: 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 -□ Compatibility □ Utility ☐ Interoperability ☐ Universal Access ☐ Future Of HTML5 - Timeline -**Ch2: Getting Started With HTML5** ☐ The State Of Browser Support □ Feature Detection ☐ Support For Legacy Browsers □ Developer Tools

Ch3: Structure of a Web Page

| ☐ HTML5 DOCTYPE | | |
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| ☐ Page Encoding | | |
| ☐ HTML5 Markup | | |
| ☐ New And Updated Elements - Structural Elements - New Attributes - Deprecated Elements And Attributes - | | |
| ☐ HTML5 And CSS3 | | |
| ☐ Browser Support | | |
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| Ch4: Forms | | |
| ☐ What Are The Needs For Web Applications? | | |
| ☐ Current Solutions | | |
| □ New Input Types | | |
| □ New Attributes | | |
| ☐ Form Validation | | |
| ☐ Browser Support | | |
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| Ch5: 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 Markup | | |
| ☐ Attributes And Methods | | |
| ☐ Understanding Audio/Video Events | | |
| ☐ Customizing Audio/Video Controls | | |
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| Ch6: 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 | | | |
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| CI | h7: Data Storage | | | |
| | ☐ Problems With The Existing Cookie-based Model | | | |
| | ☐ Hacks Prior To HTML5 | | | |
| | □ New Storage Options - Web Storage - tWeb SQL Storage - | | | |
| | ☐ Browser Support | | | |
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| Ch8: HTML5 Offline Applications | | | | |
| | ☐ The Manifest File | | | |
| | ☐ The application Cache Events | | | |
| | □ Deployments And Updates | | | |
| | ☐ Browser Support | | | |
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| Ch9: Geolocation | | | | |
| | □ Introduction To Geolocation | | | |
| | ☐ Privacy Considerations | | | |
| | ☐ Many Ways To Get User Location | | | |
| | ☐ Two Main Methods | | | |
| | ☐ The Position Object | | | |
| | ☐ Handling Errors | | | |

| ☐ The Position Options Object | | | | |
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| □ Browser Support | | | | |
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| Ch10: HTML5 Web Workers | | | | |
| ☐ The Current JavaScript Execution Model | | | | |
| ☐ Introduction To Web Workers | | | | |
| ☐ Usage Of Web Workers | | | | |
| ☐ Communication APIs | | | | |
| ☐ Handling Errors | | | | |
| ☐ Browser Support | | | | |
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| Ch11: HTML5 Web Sockets | | | | |
| ☐ Overview Of Web Communication Options | | | | |
| ☐ The History (Comet) - | | | | |
| ☐ Overview Of Web Sockets API And Protocol | | | | |
| ☐ Advantages Of Web Sockets | | | | |
| ☐ Browser Support | | | | |
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| Ch12: Overview of CSS3 New Features | | | | |
| ☐ Image free Visual Effects | | | | |
| ☐ Box transformations | | | | |
| ☐ Unique Fonts | | | | |
| □ Powerful Selectors | | | | |
| ☐ Transitions and Animations | | | | |
| ☐ Multiple Column Layouts | | | | |
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| Ch13: Improving Efficiency using Pseudo Classes | | | | |

| □ New structural Pseudo-classes | |
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| ☐ Changing background color | |
| ☐ Adding pure CSS3 animation | |
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| Ch14: CSS3 Graphics Effects | |
| ☐ Rounding the Corners | |
| ☐ Semitransparent Backgrounds | |
| ☐ Image-free Gradients | |
| ☐ Image-free Drop Shadows | |
| ☐ Image-free Text Shadows | |
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