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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

HTML5 & CSS3

Duration: 4 days

Overview:

This Advanced HTML5 and CSS3 course explains how to use HTML5 and CSS3 to create interactive websites. After completing this training course you would be able to use HTML5 and CSS3 on your web pages. This course covers a range of topics such as video support, HTML5 APIs, Canvas and SVG, HTML5 Forms and more.

This short HTML5 and CSS3 course is hands-on, instructor-led and classroom based.

Prerequisites:

This course is aimed at website designers who have already completed Web Design and JavaScript courses or have equivalent experience. This is for complete beginners in HTML5 and CSS3: its aim is to present some of the new features of HTML5 and CSS3, learn how to use them through practical examples and get started in HTML5 and CSS3 development.

Topics:

1 - Introduction to HTML5

What is HTML5?

History of HTML5

Current HTML5 support

W3C, WHATWG and HTMLWG

Ensuring browser support

Setting your own markup standards

The Document Object Model (DOM)

When can I use HTML5?

HTML5 Showcase

Using HTML5 on mobile devices

HTML5 or Flash

Developer Tools

Detecting HTML5 features

HTML5 vs. HTML4

2 - HTML5 Markup HTML5 page structure HTML5 DOCTYPE Character set Script tag, and style sheet link HTML5 markup New structural tags New content tags New application-focused tags Deprecated elements Semantic elements HTML5 and CSS Marking Up Dates and Times With HTML5 Marking Up Captions for Figures in HTML5 Understanding the HTML 5 document header Structuring your document with , <footer>, <nav>, <figure> and other new structure tags data attributes **3 - HTML5 FORMS 2.0** HTML5 form elements Building and using HTML5 forms New elements, New attributes New input types Setting form autofocus Using placeholder data Marking required fields Working with number inputs Using date pickers Setting autofocus to a field Using the Placeholder attribute Capturing email addresses Capturing url addresses Capturing a telephone number

Capturing numbers (slider)

Capturing numbers (spinner)

Using the Date, Month, Week, Time inputs
Defining a Search Box
Choosing a Color
Using a DataList
Creating Selection Groups
Defining Command Buttons
Setting field input to be required
4 - HTML5 Selectors API
querySelector()
querySelectorAll()
5 - HTML5 Geolocation API
Geolocation overview
Third party API: Google Map API
6 - HTML5 Audio and Video
The audio element
The video element
Understanding audio and video
Audio and video containers
Audio and video codec's
Backwards Compatibility
Using the HTML5 media tags
Creating custom controls
Accessible media
Manipulate videos with canvas
7 - HTML5 Canvas
Intro to canvas
Introducing the canvas element & Creating Fallback Content
The canvas coordinate system and sizing the canvas
Drawing with Canvas
Drawing with canvas, including filling, stroking and erasing rectangles
Drawing lines and other paths in canvas, including circles
Drawing text with canvas
Detecting mouse position on canvas
Drawing and manipulating images on canvas

Playing and manipulating videos on canvas
Canvas animation intro
8 - HTML5 User Media API
Overview
Accessing device camera
Capturing audio and video
Displaying webcam data into a page
9 - SVG intro
Overview
How to use SVG
Drawing primitives
Using SMIL to animate SVG
Creating complex SVG graphics with Illustrator
SVG accessibility
Intro to JavaScript libraries that help with drawing
10 - avaScript and HTML5

Understanding and working with the HTML5 DOM
Understanding and working with the HTML5 DOM 11 - Introducing to CSS3
11 - Introducing to CSS3
11 - Introducing to CSS3 What is CSS3?
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Negation pseudo-class selectors
Target pseudo-class selectors
Structural selectors
Nth-child selector syntax
First, last, and only structural selectors
Using structural selectors to write more efficient code
13 - Colours and Opacity in CSS3
Color formats in CSS3
Transparency in CSS3
Setting opacity
RGBA and HSL values and alpha channel opacity
CSS3 gradients
Creating linear gradients
Creating radial gradients
14 - CSS3 Typography
Working with web fonts
How can I use any font in CSS3?
@font-face syntax
Writing @font-face declarations
Using web fonts
Adding shadows to text
Creating multi-column text
15 - CSS3 and Page Layout
An overview of the flexible box model
Controlling box orientation
Setting element flexibility
Distributing boxes
Controlling box alignment
Working with box-sizing
16 - Borders in CSS3
Using border-radius
Custom rounded corners
Drop shadows
Box shadows

Using outlines
17 - The CSS3 Box Model
Introduction to CSS3 Box Model
Difference between CSS3 and CSS2 box models
18 - Backgrounds in CSS3
Resizing backgrounds
Controlling background size
Creating multiple background images on one element
Using background-origin
Clipping background content
19 - CSS3 Transitions and Transforms
An overview of CSS3 2D transforms
Using 2D transforms
Setting transform origins
An overview of CSS3 transitions
Animating CSS properties
Using easing in animations
An overview of 3D transforms
20 - Browser support
Checking support
Providing alternatives
Enriching the experience layer
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Gradient borders

Using images for borders