HTML5 & CSS3 | Course Overview

COURSE DESCRIPTION

Use the exciting new features of HTML5 today. Supported well by current browsers, the new specifications offer access to the latest device capabilities, video, audio, dynamic new form elements and structural efficiencies.

CSS3 is the fresh standard for controlling style and layout in HTML pages. It offers new options such as animation, shadows and embedded fonts. This course is an introduction to new features in HTML5 and CSS3 for the development of clean, efficient, responsive websites that utilise the very latest capabilities.

WHAT YOU WILL LEARN

How to format and layout your responsive site using CSS.

- Semantic markup for efficient searchable code
- HTML5 forms
- How to include audio and video
- CSS3 for style, colour and opacity
- CSS3 shadows, gradients, round corners

- Animation & transitions with CSS3
- Web fonts
- Responsive design
- Media Queries to target mobile devices

PREREQUISITE

Knowledge of HTML & CSS is required to attend this course – and completing the 1 day HTML & Web Principles class and CSS Essentials will meet this requirement.

WHO SHOULD ATTEND

This course is ideal for web developers with some experience in older versions of HTML, who would like to begin to build sites that use the latest capabilities on offer. It is also an excellent follow on course for students of the Dreamweaver Essentials and/or CSS Essentials courses.

~~$900~~ $850 (+GST)

2 DAYS | 9–4:30PM

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Course outline

INTRO TO HTML5 AND CSS3

What is HTML5
Current best practice with HTML5 features
Differences in the doctype
What is CSS3
Browser support for new features
Future developments
The varied browser market
The growing mobile market
Mobile browser support for new features
The practice of progressive enhancement

HTML5 MARKUP

A basic HTML5 template
Doctype
The html element
The head element
HTML5 FAQ
New code in older browsers
Closing tags
New elements for defining page structure
Headers and footers
Sections, articles and asides
Correct structures and content for articles
New heading structures
The nav element

MORE HTML5 SEMANTICS

Types of content
Document outline
Heading groups
Figures and captions
New elements to organise content
New tags to mark content
Deprecation
Block elements inside links
Bold and Italic
Small text
Citing references
Details element
Changes to existing HTML features
Validating HTML5

HTML5 FORMS

HTML5 form attributes
Fields and textareas

Search fields
Email address validation
URLs
Telephone numbers
Triggering the right keyboard on mobile devices
Numbers
Range slider element
Colour picker element
Dates and Times
Other new form input types
Required fields
Placeholders

HTML5 AUDIO AND VIDEO

HTML5 video vs Flash video
Video container formats
Video file formats and compression
Audio file formats and compression
Video codecs
Audio codecs
Browser support for video & audio
Accessibility issues for video & audio
Video and audio for mobile devices
Enabling native controls
Support for multiple formats
MIME types
Auto playing media
Looping
Preloading video & audio
Poster images for video
Video for older browsers

INTRODUCTION TO CSS3

CSS selectors
Relational selectors
Attribute selectors
Pseudo-classes
Structural pseudo-classes
Pseudo-classes and generated content
CSS3 colours and opacity
Using RGB, HSL, RGBA and HSLA
The opacity property
Rounded corners
Percentages, ems or pixels for rounded corners
Drop shadows
Multiple drop shadows

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Inset shadows
Colours and opacity of drop shadows
Text shadows

CSS3 GRADIENTS AND MULTIPLE BACKGROUNDS

Linear gradients
Online tools for gradient generation
Radial Gradients
Repeating gradients
Multiple background images
transparency in backgrounds
Flexible and resizable background images
Using cover and contain
Background size
Background positions and behaviours

CSS3 TRANSFORMATIONS AND TRANSITIONS

Transformations: translate, scale, rotate, skew
Transitions triggered by rollovers
Browser support issues
Transitions: property, duration, timing, delay, multiple transitions
Animation with CSS
Defining keyframe animations
Setting multiple keyframes
Implementing named keyframe animations
Easing and bounces with timing functions

EMBEDDED FONTS AND COLUMNS

Web fonts with @font-face
Using Google fonts
Font Squirrel fonts
Using downloaded local webfonts
Font considerations
Font formats and file types
CSS3 multi-column layouts
Column gaps
Column count
Column widths
Media Queries and browser support
How to write media query to suit your layout
Responsive design for multiple devices
Designs that adapt to any screen
Repositioning elements
Hiding and showing elements
Flexible sizes for elements
Flexible grid systems
CSS3 HTML5 boilerplate

GEOLOCATION AND CANVAS

Browser support issues
What is canvas and where might it be used?
Javascript and canvas implementation
Javascript and geolocation
Finding the current location
Javascript to access the geolocation position object
Retrieving latitude and longitude
Matching current location to a Google map
Fail safe procedures

"Very passionate instructor who was enjoyable, friendly and knew what he was talking about."

Nicky, Web Developer

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