

Module Objectives

- **Course overview**
 - **Accelerated discussion of HTML5 & CSS3**
 - **Explore the “upgrade scenario”**
 - **Summary**
-

Profile of Course Candidate

“I develop/design web sites.”



Profile of Course Candidate

“I am not afraid of angle brackets.”



“I’m in style with CSS.”



“I can be dangerous with JavaScript.”



Course Overview

- **Accelerated discussion of HTML5 & CSS3**
 - **How and why to modify existing tags to be semantic**
 - **How to introduce CSS3 features**
 - **How to implement new HTML5 features**
 - **How to ensure a consistent user experience across browsers**
-

SSS

- **Source**
 - **Style**
 - **Script**
-

SSS

- **Source** **HTML5 Elements & Attributes**
 - **Style** **CSS3**
 - **Script** **JavaScript & DOM**
-

**Enhanced
Form Inputs**

Video

**Semantic
Tags**

HTML



Canvas

Audio

**Color
Enhancements**

Easier Layouts

Transforms



Shadowing

**Rounded
Corners**

Feature Detection

Feature Manipulation

JavaScript

Browsers

- **IE (version 9 and higher)**
 - **Chrome**
-

Demo

“Upgrades-R-Us”

Summary

- **HTML5**
 - **CSS3**
 - **JavaScript**
-

HTML5 < 4

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<!DOCTYPE HTML>
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  <head>  
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*DOCTYPEs are required for legacy reasons.
Including a DOCTYPE ensures a best-effort attempt to render.
When omitted, browsers tend to render in an incompatible mode.*

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Why Semantics?

“Differentiating data...”

Why Semantics?

`<header>`

`<nav>`

`<article>`

`<section>`

`<aside>`

`<footer>`

New Semantic Elements

Element	Level	Purpose
<article>	Block	Independent content such as a blog post or article
<aside>	Block	Content slightly related to primary content on page
<figure>	Block	Grouping stand-alone content, such as video or image
<figcaption>	Text	For use with <figure>, (optionally) used to provide caption
<footer>	Block	Providing author, copyright data, etc.
<header>	Block	Introductory headings, could include navigation
<hgroup>	Block	For grouping <h1> to <h6>
<nav>	Block	Navigation – typically site level
<mark>	Text	Text to be referenced or highlighted
<section>	Block	Grouping of content usually with a heading, similar to chapters
<time>	Text	For date and/or time representation

Demo

**Upgrading to
semantic tags**

Summary

- **Semantic tags parse better**
 - **New tags mirror reality**
 - **Upgrading to semantic tags is fairly easy**
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Collecting User Input



Contact Data

You have data. We want it.

Name

Email

Site

Phone

Demo

HTML5 Form Inputs

Module Objectives

- **Overview of CSS3**
 - **Demonstrate new styling definitions**
 - Fonts
 - Color enhancements
 - Rounded corners
 - Shadowing
 - Transformations
 - **Summary**
-

CSS

```
a
{
    color:                #ff5400;
    text-decoration:      none;
    padding-bottom:       2px;
}
a:hover
{
    color:                #7ac000;
    text-decoration:      none;
}
a:active
{
    color:                #ff5400;
    text-decoration:      none;
    position:             relative;
    top:                  1px;
}
p
{
    font-size:            14px;
    margin-bottom:        15px;
    line-height:          24px;
}
```

Demo

Upgrade Scenario

Summary

- **CSS3 offers powerful new style definitions**
 - **New features can be introduced easily**
-