



Module 2

Creating and Styling HTML Pages

Module Overview

- Creating an HTML5 Page
- Styling an HTML5 Page

Lesson 1: Creating an HTML5 Page

- What's New in HTML5?
- Document Structure in HTML5
- Text and Images in HTML5
- Demonstration: Using HTML5 Features in a Simple Contact Form

What's New in HTML5?

HTML5 provides many extensions over previous versions, including:

- Rules for browser vendors
- New elements that reflect modern web application development
- JavaScript APIs that support desktop and mobile application capabilities



HTML5 provides new elements to define the structure of a web page:

- **<section>** to divide up main content
- **<header>** and **<footer>** for page headers and footers
- **<nav>** for navigations links
- **<article>** for stand-alone content
- **<aside>** for quotes and sidebar content



HTML5 defines new text elements, including:

- `<hgroup>`

```
<hgroup>
  <h1>My Recipes</h1>
  <h2>Great to eat, easy to make</h2>
</hgroup>
```

- `<time>`

```
<time datetime="2012-08-08">Today</time>
```

- `<mark>`

```
<p>This text should be <mark>noted for future
use.</mark>.</p>
```

- `<small>`

```
<p>Heat your beans for five minutes. <small>Or
until they are hot enough for you.</small></p>
```

- `<figure>` and `<figcaption>`

```
<figure>
  
  <figcaption>A plate of beans in five minutes flat</figcaption>
</figure>
```

Demonstration: Using HTML5 Features in a Simple Contact Form

In this demonstration, you will see how to:

- Divide the Content for a Page into an Article with Sections
- Add a Header and a Footer to the Page
- View the Structure of the Page by Using the F12 Developer Tools
- Make a Temporary Change to the Page by Using the F12 Developer Tools

Lesson 2: Styling an HTML5 Page

- Understanding CSS Text Styles
- The CSS Box Model
- Styling Backgrounds in CSS
- Demonstration: Adding CSS Styles to an HTML Page
- Demonstration: Creating and Styling an HTML5 Page

Understanding CSS Text Styles

- CSS Text Styling supports:

- Fonts

```
font-family : Arial, Candara, Verdana, sans-serif;  
font-size : 16px;  
font-style : italic;  
font-weight : bold;
```

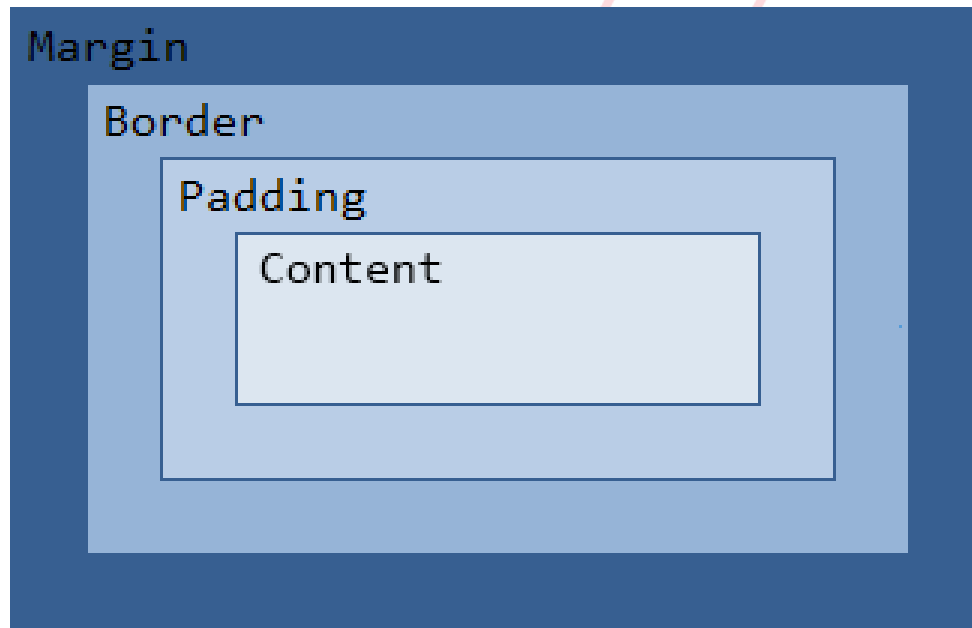
- Colors

```
color : rgb(128, 128, 0);  
opacity: 0.6;
```

- Typography

```
letter-spacing : 2em;  
line-height : 16px;  
text-align : left;  
text-decoration : underline;  
text-transform : lowercase;
```

- The CSS box model treats each element as a collection of four concentric boxes:



- CSS defines properties that:
 - Control how a box is laid out on a page
 - Alter the height and width, and the style of the border

Set the background for an element by using the CSS background properties:

- background-image
- background-size
- background-color
- background-position
- background-origin
- background-repeat
- background-attachment

```
article {  
  background-color : transparent;  
  background-repeat: repeat-x;  
  background-image : url('fluffycat.jpg');  
}
```

Demonstration: Adding CSS Styles to an HTML Page

In this demonstration, you will see how to:

- Create New Styles by Using Visual Studio
- Use the F12 Developer Tools to Inspect Styles

Demonstration: Creating and Styling an HTML5 Page

In this demonstration, you will learn about the tasks that you will perform in the lab for this module.

Lab: Creating and Styling HTML5 Pages

- Exercise 1: Creating HTML5 Pages
- Exercise 2: Styling HTML pages

Estimated Time: 45 minutes

- You are a web developer working for an organization that builds websites to support conferences. You have been asked to create a website for ContosoConf, a conference that showcases the latest tools and techniques for building HTML5 web applications.
- You decide to start by building a prototype website consisting of a Home page that acts as a landing page for conference attendees, and an About page that describes the purpose of the conference. In later labs you will enhance these pages and add further pages that enable attendees to register for the conference, and that provide information about the sessions scheduled to run as part of the conference.

Module Review and Takeaways

- Review Question(s)