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

Document Structure in HTML5

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>
 <img src="plateofbeans.jpg" alt="A Plate of beans on toast" />
 <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

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;
    ```
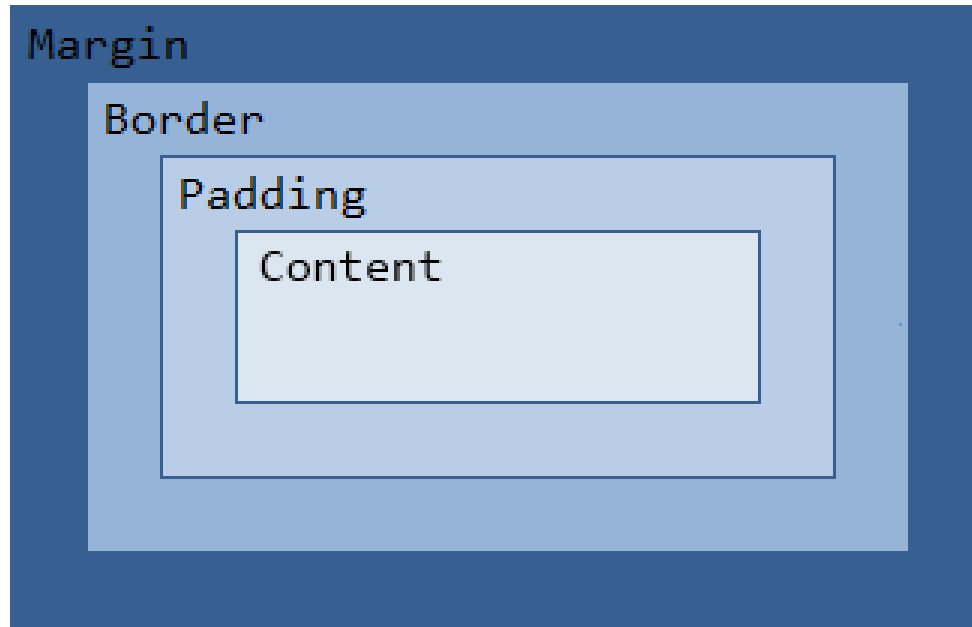
  - Typography

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

The CSS Box Model

- 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

Styling Backgrounds in CSS

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

Lab: Creating and Styling HTML5 Pages

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

Logon Information
- Virtual Machines: HTML5
- User Name: **Student**
- Password: **Pa$$w0rd**

Estimated Time: 45 minutes