

TRAINER PREPARATION GUIDE 2.1: CHOOSE AND CONFIGURE HTML5 TAGS TO DISPLAY TEXT CONTENT

Lesson Objective 2.1:

Choose and configure HTML5 tags to display text content.

Required materials to teach this lesson:

1. Microsoft® Expression® Studio 4 (preferred)
2. 98-375-ENU-2.1-LP
3. 98-375-ENU-2.1-IC
4. 98-375-ENU-2.1-ICKey
5. 98-375-ENU-2.1-PC

Preparation tasks

Technical preparation activities:

1. The lesson demonstration requires an application (either Expression Web or Notepad) to create an HTML5 document.
2. The demonstration shows the students how to use new HTML5 tags (doctype, header, footer, small, and strong). Copy the following code into your html page:

```
<!DOCTYPE html>
<html>
<head>
  <title>Page created using HTML5</title>
</head>
<body>
  <header>
    <h1>Welcome to HTML5</h1>
  </header>
  <p>This web page shows how to use <strong>HTML5</strong> to create
  attractive and easy-to-use web pages.</p>
  <p><mark>This section is highlighted using the new mark tag</mark></p>
  <footer>
    <small>Copyright 2011 is written using the small tag</small> All
  rights reserved
  </footer>
</body>
</html>
```

3. When you preview the page in a browser, discuss the possible uses of these new tags. Ask the students to think of other uses for <mark> and <small>.

4. **Vocabulary:**

deprecate: a deprecated element or attribute is one that is outdated and has been replaced by newer constructs. Deprecated elements are typically defined in reference manuals, but they are clearly marked as deprecated. Deprecated elements may become obsolete in future versions of HTML.

semantic: the relationship between words or symbols and their intended meanings. Programming languages are subject to certain semantic rules; thus, a program statement can be syntactically correct but semantically incorrect; a statement can be written in an acceptable form and still convey the wrong meaning.

5. **Additional readings and resources:**

MSDN®:

Internet Explorer® Learning: <http://msdn.microsoft.com/en-us/ie/aa740476>

Learn HTML5 in 5 Minutes: <http://msdn.microsoft.com/en-us/hh549253>

Other resources (books, e-reference):

Complete set of HTML5 elements: <http://dev.w3.org/html5/markup/elements.html#elements>

W3Schools: <http://www.w3schools.com/html5>

Note: HTML5 is changing and developing quickly. The list of resources is current as of January 2012. Check resources for current and up-to-date information at the time of classroom use.

Instructor computer setup:

1. A workstation with Expression Web 4 (with service pack 2).

Instructional preparation activities:

1. Review the instructor notes in the notes view of Microsoft PowerPoint® presentation 98-375-ENU-2.1-LP.
2. Make copies of student documents available as needed.
3. Complete the instructions for the demonstration before class. Check to see if the available browsers support the HTML5 features in the demonstration.

Lesson sequence (50 minutes)

Activating prior knowledge/lesson staging (5 minutes):

Instruct students to answer each question in the "Guiding questions" section of the In-class Activity document or in their personal class notes.

Guiding questions:

1. **How has HTML5 changed from HTML4?** The biggest change is the interpretation of the tags. HTML5 includes some new tags that are considered semantic tags. These new tags are ignored in older browsers that don't support them. Text can be displayed using many of the old tags in addition to new ones, such as the <mark> </mark> tag, which highlights text with a yellow background for emphasis.
2. **What does it mean when a tag is deprecated?** Deprecated tags are outdated and may not be supported in future releases. They should no longer be used.

3. **What happens to existing HTML4 tags that have changed in HTML5?** HTML5 is backward compatible and recognizes most of the HTML4 tags.

Lesson activity (35 minutes):

1. Teacher instruction (35 minutes)
 - a. Use the PowerPoint presentation 98-375-ENU-2.1-LP to review configuring HTML5 tags to display text content.
 - b. An In-class Activity document is available for use as needed.
 - c. The following code can be used for a second example of the new HTML5 content tags. Ask students to create a similar page.

```
<!DOCTYPE html>
<html>
<head>
<meta charset='utf-8'>
<title>HTML5 Tag Example</title>
<meta http-equiv="X-UA-Compatible" content = "IE=8" />
<style type = "text/css">
.highlight{
background-color: yellow;
</style>
<script>
function highlight() {
noun=document.querySelector('.noun');
noun.className='highlight';
}
</script>
</head>
<body>
<p><a href="#" onclick="highlight();">Highlight Next Noun</a></p>
<p>The <span class="noun">dog</span> chased after the <span
class="noun"> stick</scan></p>
<mark>Once you click the button, the nouns will be highlighted with a
yellow background</mark>
</body>
</html>
```

Lesson review (10 minutes):

1. Lead students in a discussion of the guiding questions.
2. During and after the discussion, have students list any questions they have or any topics with which they would like more assistance. Have students make a list of deprecated tags they have discovered during their research.
3. Have students work in pairs to answer the additional questions written by students. Answer any questions that cannot be answered by students, or collect them for follow-up later.
4. Provide the Post-class Activity document for additional review.