

### Learning Objectives (1 of 2)

- 2.1 Describe HTML, XHTML, and HTML5
- 2.2 Identify the markup language in a web page document
- 2.3 Use the html, head, body, title, and meta elements to code a template for a web page
- **2.4** Configure the body of a web page with headings, paragraphs, line breaks, divs, lists, and blockquotes
- 2.5 Configure text with phrase elements
- 2.6 Configure a web page using new HTML5 header, nav, main, and footer elements

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### Learning Objectives (2 of 2)

- 2.7 Configure special characters
- 2.8 Use the anchor element to link from page to page
- 2.9 Create absolute, relative, and e-mail hyperlinks
- 2.10 Code, save, and display a web page document
- 2.11 Test a web page document for valid syntax

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### What is HTML?

HTML: The set of markup symbols or codes placed in a file intended for display on a Web browser page.

The World Wide Web Consortium (<a href="http://w3c.org">http://w3c.org</a>) sets the standards for HTML and its related languages.

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### **HTML Elements**

- Each markup code represents an HTML element.
- · Each element has a purpose.

Most elements are coded as a pair of tags: an opening tag and a closing tag.

• Tags are enclosed in angle brackets, "<" and ">" symbols.

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### What is HTML5?

Newest version of HTML/XHTML

Supported by modern browsers

Intended to be backwards compatible

Adds new elements

- Adds new functionality
- Edit form dataNative video and audio
- · And more!

Source: W3C http://www.w3.org/html/logo/



### **Document Type Definition**

### **Document Type Definition (DTD)**

- Doctype statement
- · Identifies the version of HTML contained in your document.
- · Placed at the top of a web page document

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## **DTD Examples**

XHTML 1.0 Transitional DTD

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p> http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd>

HTML5 DTD

<!DOCTYPE html>

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### **Example HTML5 Web Page**

- <!DOCTYPE html>
- <html lang="en">
- <head>
- <title>Page Title Goes Here</title>
- <meta charset="utf-8">
- </head>
- <body>
- ... body text and more HTML5 tags go here ...
- </html>

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### **Head & Body Sections**

### **Head Section**

Contains information that describes the web page document

- <head>
- ...head section info goes here
- </head>

### **Body Section**

Contains text and elements that display in the web page document

- <body>
- ...body section info goes here
- </body>

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## **Title Element Meta Element** File Edit Format View Help <!DOCTYPE html> <html lang="en"> <a href="https://docs.pubm.com/docs.pubm. Title Element **Meta Element** ow. D - C X S My First HTMLS Web Page H Pearson Copyright © 2019, 2017, 2015 Pearson Education, Inc. All Rights Reserved

## **Heading Element**

<h1>Heading Level 1</h1>

<h2>Heading Level 2</h2>

<h3>Heading Level 3</h3>

- <h4>Heading Level 4</h4>
- <h5>Heading Level 5</h5>
- <h6>Heading Level 6</h6>

### **Heading Level 1**

**Heading Level 2** 

Heading Level 3

Heading Level 4

Heading Level 5 Heading Level 6

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### **Paragraph Element**

Paragraph element

...paragraph goes here...

- · Groups sentences and sections of text together.
- Block Display Configures empty space above and below

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### **Line Break Element**

Line Break element

- Stand-alone, or void tag
  - ...text goes here <br>
    This starts on a new line....
- · Causes the next element or text to display on a new line

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### **Blockquote Element**

Blockquote element

- · Indents a block of text for special emphasis
- <blookquote>
- ...text goes here...
- </blockquote>
- Block Display Configures empty space above and below

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### **Phrase Elements**

Indicate the context and meaning of the text

Element	Example	Usage
<b></b>	bold text	Text that has no extra importance but is styled in bold font by usage and convention
<em></em>	emphasized text	Causes text to be emphasized in relation to other text; usually displayed in italics
<i>&gt;</i>	italicized text	Text that has no extra importance but is styled in italics by usage and convention
<mark></mark>	mark text	Text that is highlighted in order to be easily referenced (HTML5 only)
<small></small>	small text	Legal disclaimers and notices ("fine print") displayed in small font-size
<strong></strong>	strong text	Strong importance; causes text to stand out from surrounding text; usually displayed in bold
<sub></sub>	<sub>sub</sub> text	Displays a subscript as small text below the baseline
<sup></sup>	sup text	Displays a superscript as small text above the baseline

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### **Proper Nesting**

### Code

<i>Call for a free quote for your web development needs: <strong>888.555.5555 </strong></i>

### Browser display:

Call for a free quote for your web development needs: 888.555.5555

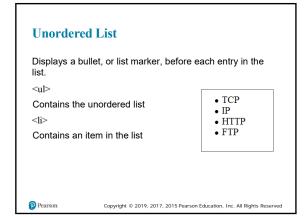
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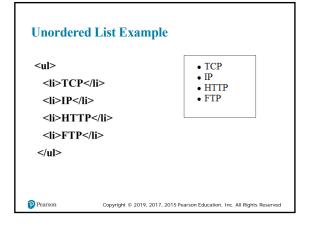
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### **HTML Lists**

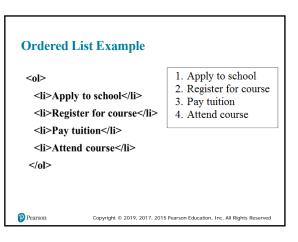
- Unordered List
- · Ordered List
- Description List formerly called a definition list

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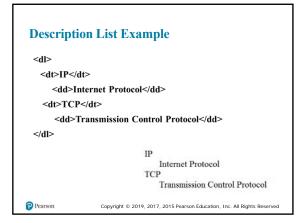




# Ordered List Displays a numbering or lettering system to itemize the information contained in the list Col> Contains the ordered list type attribute determines numbering scheme of list, default is numerals Contains an item in the list Contains an item in the list



# Description List Useful to display a list of terms and descriptions or a list of FAQ and answers • <dl> Contains the description list • <dt> Contains a term/phrase/sentence Configures empty space above and below the text • <dd> Contains a description of the term/phrase/sentence — Indents the text — Configures empty space above and below the text



### **Checkpoint 2.1**

- Describe the features of a heading element and how it configures the text.
- 2. Describe the difference between ordered lists and unordered lists.
- 3. Describe the purpose of the blockquote tag.

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### **Special Characters**

 Display special characters such as quotes, copyright symbol, etc.

Character	Code
©	©
<	<
>	>
&	&

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### **Div Element**

Configures a structural block area or "division" on a web page with empty space above and below.

Can contain other block display elements, including other div elements

<div>Home Services Contact</div>

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### HTML5 Structural Elements (1 of 2) header Element header <header></header> Contains the web page document's headings nav nav Element main <nav></nav> Contains web page document's main navigation div div main Element main></main> Contains the web page document's main content footer footer Element <footer></footer> Contains the web page document's footer

### HTML5 Structural Elements (2 of 2)

<body>

<header> document headings go here </header>

<nav> main navigation goes here </nav>

<main> main content goes here </main>

<footer> document footer information goes here </footer>

</body>

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### **Anchor Element**

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- · Specifies a hyperlink reference (href) to a file
- Text between the <a> and </a> is displayed on the web page.
  - <a href="contact.html">Contact Us</a>
- href Attribute
  - Indicates the file name or URL

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## Absolute & Relative Hyperlinks Absolute link Link to a different website A href="http://yahoo.com">Yahoo</a> Relative link Link to pages on your own site A href="index.htm">Home</a>

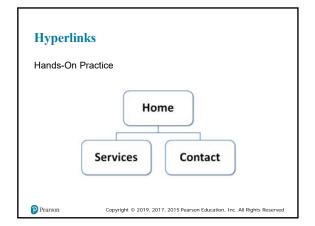
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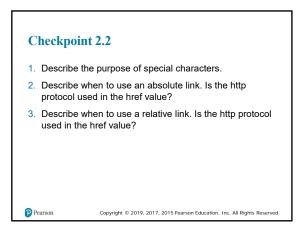
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## E-Mail Hyperlink Automatically launch the default mail program configured for the browser If no browser default is configured, a message is displayed <a href="mailto:me@gmail.com">me@gmail.com</a>

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# Writing Valid HTML Check your code for syntax errors Benefit: Valid code → more consistent browser display W3C HTML Validation Tool http://validator.w3.org

# Summary • This chapter introduced you to HTML. • You will use these skills over and over again as you create web pages. © Pearson Copyright © 2019, 2017, 2015 Pearson Education, Inc. All Rights Reserved

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