Basics of Web Design

Chapter 2 HTML Basics Key Concepts

Learning Outcomes

- Describe the anatomy of a web page
- Format the body of a web page with block-level elements including headings, paragraphs, lists, and blockquotes
- Configure the text on a web page with inline elements
- Configure text with phrase elements
- Configure special entity characters, line breaks, and horizontal rules
- Configure a web page using new HTML5 header, nav, main, and footer elements
- Use the anchor element to link from page to page
- Configure absolute, relative, and e-mail hyperlinks
- Test a web page for valid HTML syntax

The 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

The Paragraph Element tag

Paragraph element

```
...paragraph goes here...
```

- Groups sentences and sections of text together.
- Configures empty space above and below the paragraph

- Line Break element
 - Stand-alone tag
 - Called a void element in HTML5

...text goes here

This starts on a new line....

Causes the next element or text to display on a new line

The Horizontal Rule Element hr> tag

- O Horizontal Rule element
 - void element

<hr>>

- Configures a horizontal line on the page
- In HTML5, it should be used to indicate a thematic break at the paragraph level

The Blockquote Element
 <

- Blockquote element
 - Indents a block of text for special emphasis

```
<blockquote>
    ...text goes here...
</blockquote>
```

Phrase Elements

- Indicate the context and meaning of the text
- Display inline with the text
- Common Phrase Elements
 - Text is displayed in bold font
 -

Text has strong importance and is displayed in bold

- <i><i></i>
 Text is displayed in italic font
-
 Text has emphasis and is displayed in italic font

Proper Nesting

CODE:

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

BROWSER DISPLAY:

Call for a free quote for your web development needs: **888.555.555**

HTML List Basics

- Unordered List
- Description List (XHTML Definition List)
- Ordered List

Unordered List

- Displays information with bullet points
- Unordered List Element

Contains the unordered list

List Item ElementContains an item in the list

Unordered List Example

```
<h1>My Favorite Colors</h1>

li>Blue
Teal
Read

<h1>My</h>
```

My Favorite Colors

- Blue
- Teal
- Red

Ordered List

- Conveys information in an ordered fashion
- Ordered List Element

<0|>

Contains the ordered list

- type attribute determines numbering scheme of list
- default is numerals
- List Item Element

<

Contains an item in the list

Ordered List Example

```
  Apply to school
  Register for course
  Pay tuition
  Attend course
```

- 1. Apply to school
- 2. Register for course
- 3. Pay tuition
- 4. Attend course

Description List

- Formerly called a definition list in XHTML and HTML 4.0
- O Uses:
 - Display a list of terms and descriptions
 - Display a list of FAQ and answers
- The Description List element <dl> tag Contains the definition list
- The dt Elementdt> tagContains a term or name
- The dd Element
 <dd>tag
 Contains a definition or description
 Indents the text

Description List Example

```
IP
    Internet Protocol
TCP
    Transmission Control Protocol
```

Special Entity Characters

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

Character	Code
©	©
<	<
>	>
&	&

The div element <div>

- Purpose:
 - Configure a specially formatted division or area of a web page
- Block display with empty space above and below the div
- Can contain other block display and inline display elements

HTML5 Structural Elements

- Header Element
 - <header></header>
 Contains the headings
- Nav Element

<nav></nav>
Contains the main navigation

Main Element

<main></main>
Contains the main content

Footer Element

<footer></footer>
Contains the footer

header
nav
main
footer

HTML5 Structural Elements



Example:

- <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>

The Anchor Element <a>

- The anchor element
 - Inline display element
 - Specifies a hyperlink reference (href) to a file
 - Text between the <a> and is displayed on the web page.

Contact Us

- href Attribute
 - Indicates the file name or URL
 Web page document, photo, pdf, etc.

More on Hyperlinks

- Absolute link
 - Link to other websites

Yahoo

- Relative link
 - Link to pages on your own site
 - Relative to the current page

Home

Opening a Link in a New Browser Window

 The target attribute on the anchor element opens a link in a new browser window or new browser tab.

```
<a href="http://yahoo.com" target="_blank">Yahoo!</a>
```

Email Hyperlinks

- Automatically launch the default mail program configured for the browser
- If no browser default is configured, a dialog box is displayed

me@hotmail.com

Writing Valid HTML

- Check your code for syntax errors
 - Benefit:
- W3C HTML Validation Tool
 - http://validator.w3.org
- Additional HTML5 Validation Tool
 - http://html5.validator.nu

Summary

- This chapter provided an introduction to HTML.
- HTML elements used for inline and block display formatting were introduced.
- You will use these skills over and over again as you create web pages.