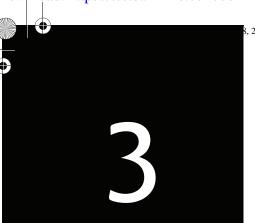
Internet And World Wide Web How To Program 5th Edition Deitel Solutions Manual

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Introduction to HTML5: Part 2

Form ever follows function.

—Louis Sullivan

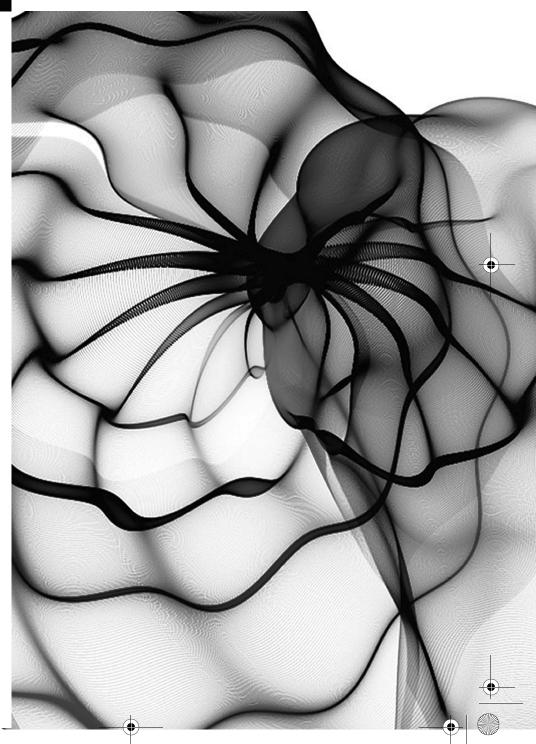
I listen and give input only if somebody asks.

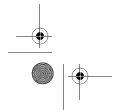
-Barbara Bush

Objectives

In this chapter you'll:

- Build a form using the new HTML5 input types.
- Specify an input element in a form as the one that should receive the focus by default.
- Use self-validating input elements.
- Specify temporary placeholder text in various input elements
- Use autocomplete input elements that help users reenter text that they've previously entered in a form.
- Use a datalist to specify a list of values that can be entered in an input element and to autocomplete entries as the user types.
- Use HTML5's new pagestructure elements to delineate parts of a page, including headers, sections, figures, articles, footers and more.













Self-Review Exercises

2

Self-Review Exercises

3.1	Fill in	the	blanks	in	each	of	the	foll	lowing
-----	---------	-----	--------	----	------	----	-----	------	--------

a)		type enables the user to enter a color. At the time of this writing, most the color input type as a text field in which the user can enter a
	·	
AN	S: hexadecimal c	ode.
b)	The	attribute allows you to place temporary text in a text field.
	S: placeholder.	
c)	If you want to b	ypass validation, you can add the formnovalidate attribute to input
	type	
AN	S: submit.	
d)	The	_ attribute forces the user to enter a value before submitting the form.
AN	S: required.	
e)	The	control is typically displayed for the number input type and includes
	only the valid nu	imbers.
	S: spinner.	
f)	The	input type enables the user to enter an hour, minute, second and frac-
	tion of second.	
AN	S: time.	
g)	The	element provides input options for a text input element.
AN	S: datalist.	
h)	The	element describes content that's separate from the main content of the
	page and could p	potentially be used or distributed elsewhere, such as a news article, fo-
	rum post or blog	entry.
AN	S: article.	
i)	The	element describes the text that usually appears at the bottom of the
	content or the bo	ottom of a section element.
	S: footer.	
j)	The	element indicates the appropriate place to break a word when the text

wraps to multiple lines. ANS: wbr.

3.2 State whether each of the following is true or false. If false, explain why.

> a) Any particular HTML5 form input types must render identically in every HTML5compliant browser.

ANS: False. The rendering of input types can vary among browsers.

b) When the focus is placed in the text field (i.e., the cursor is in the text field), the placeholder text is submitted to the server.

ANS: False. When the focus is placed in the text field, the placeholder text disappears. It's not "submitted" when the user clicks the Submit button (unless the user types the same text).

c) You do not need to include autofocus in your forms.

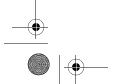
ANS: True.

d) The new HTML 5 input types are self validating on the client side, eliminating the need to add complicated scripts to your forms to validate user input and reducing the amount of invalid data submitted.

ANS: True.

e) The range input type is inherently self-validating when it's rendered by the browser as a slider control, because the user is unable to move the slider outside the bounds of the minimum or maximum value.

ANS: True.















3 Chapter 3 Introduction to HTML5: Part 2

f) HTML5 self validates the tel input type.

ANS: False. The length and format of telephone numbers varies greatly based on location, making validation quite complex, so HTML5 does not self validate the tel input type. To ensure that the user enters a phone number in a proper format, we use the pattern attribute.

g) If the user enters an improperly formatted URL in a url input type, it will not validate. HTML5 does not validate that the URL entered actually exists.

ANS: True.

h) The nav element displays a drop-down menu of hyperlinks.

ANS: False. The nav element groups navigation links.

i) The header element may be used only one time on a page.

ANS: False. The header element may be used multiple times on a page and often includes HTML headings (<h1> through <h6>).

j) nav elements can be nested in an aside element.

ANS: True.

k) You might use the brk to prevent awkward word breaks.

ANS: False. You might use the wbr to prevent awkward word breaks.

Exercises

Instructor Note: This PDF contains only the solutions to the short answer and discussion questions. The solutions for coding exercises are provided as source code files that you can open directly in a web browser or text editor.

3.3	Fill in the blanks in each of the following:								
	a) The attribute —used in a single input element on a form—automatically								
	highlights the input element and, if appropriate, places the cursor in the text field after								
	the browser loads and renders the page.								
	ANS: autofocus.								
	b) The new HTML 5 input types are on the client side.								
	ANS: self validating.								
	c) For the date input type, Opera displays a date control. When the user clicks the down arrow, the control brings up a								
	ANS: calendar for the current month.								
	d) The input type enables the user to enter a numerical value.								
	ANS: number.								
	e) The input type is inherently self-validating when it's rendered by the								
	browser as a slider control because the user is unable to move the slider outside the								
	bounds of the minimum or maximum value.								
	ANS: range.								
	f) The attribute can be used on input types to automatically fill in the user's								
	information based on previous input.								
	ANS: autocomplete.								
	g) The element provides a caption for the image in the figure element.								
	ANS: figcaption.								
	h) The summary element displays a right-pointing arrow next to a summary or caption								
	when the document is rendered in a browser. When clicked, the arrow points down-								
	ward and reveals the content in the element.								
	ANS: details.								
	i) The mark element enables you to								
	ANS: highlight text.								















Exercises

3.4 State whether each of the following is true or false. If false, explain why.

> Browsers that render the color input type as a text field require the user to enter a color name.

ANS: False: The user must enter the color as a hexadecimal color code.

b) When a user enters data into a form then submits the form (typically, by clicking the Submit button), the browser immediately checks that the data is correct.

c) HTML5 can validate whether an e-mail address entered by the user actually exists.

ANS: False. HTML5 does not validate if an e-mail address entered by the user actually exists—rather it just validates that the information is in the proper format.

d) You can add required to any of the input types.

ANS: True.

e) You can enable autocomplete only for specific input elements.

ANS: False. You can enable autocomplete for an entire form or just for specific elements.

f) The time element enables you to indentify a date (as we do here), a time or both. ANS: True.

g) The caption element provides a caption for the image in a figure element.

ANS: False. The name of the element is figcaption.

h) The details element displays a right-pointing arrow next to a summary or caption when the document is rendered in a browser. When clicked, the arrow points downward and reveals the content in the summary element.

ANS: False. The summary element displays a right-pointing arrow next to a summary or caption when the document is rendered in a browser. When clicked, the arrow points downward and reveals the content in the details element.

The footer element describes content that usually appears at the bottom of the content or section element.

ANS: True.

j) The highlight element enables you to highlight text.

ANS: False. The mark element enables you to highlight text.

3.5 Write an HTML5 element (or elements) to accomplish each of the following tasks:

a) Students were asked to rate the food in the cafeteria on a scale of 1 to 10. Use a meter element with text to its left and right to indicate that the average rating was 7 out of 10.

ANS: 1 <meter min = "1" max = "10" value = "7"></meter> 10

b) Create a details element that displays the summary text "Survey Results" for Part (a). When the user clicks the arrow next to the summary text, an explanatory paragraph about the survey should be displayed.

ANS: <details>

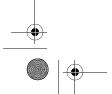
<summary>Survey Results Students were asked to rate the food in the cafeteria on a scale of 1 to 10. The average result was 7.</details>

c) Create a text input element for a first name. The element should automatically receive the focus when the form is rendered in a browser.

ANS: <label>First name: <input type = "text" autofocus/></label>

d) Modify Part (c) to eliminate the label element and use placeholder text in the input

ANS: <input type = "text" placeholder = "First name" autofocus/>















Chapter 3 Introduction to HTML5: Part 2

e) Use a datalist to provide an autocomplete list for five states. ANS: <input type = "text" id = "state" autocomplete = "on" list = "statelist"/> <datalist> <option value = "Connecticut"> <option value = "Maine"> <option value = "Massachusetts"> <option value = "New Hampshire"> <option value = "Vermont"> </datalist>

f) Create a range input element that allows the user to select a number from 1 to 100.

```
ANS: <label>Range: 1 <input type = "range" min = "1" max = "20"
        value = "10" /> 100</label>
```

g) Specify that autocomplete should not be allowed for a form. Show only the form's opening tag.

```
ANS: <form action = "post" automcomplete = "off">
```

h) Use a mark element to highlight the second sentence in the following paragraph.

```
Students were asked to rate the food in the cafeteria
  on a scale of 1 to 10. The average result was 7.
```

ANS: Students were asked to rate the food in the cafeteria on a scale of 1 to 10. <mark>The average result was 7.</mark>

