Laura Lemay Rafe Colburn Jennifer Kyrnin



Sams Teach Yourself

HTML, CSS & JavaScript Web Publishing

in **One Hour** a Day



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HTML, CSS & JavaScript Web Publishing

in **One Hour a Day**Seventh Edition



Sams Teach Yourself HTML, CSS & JavaScript Web Publishing in One Hour a Day, Seventh Edition

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About the Authors

Rafe Colburn is an author and web developer with more than 15 years of experience building websites. His other books include *Special Edition Using SQL* and *Sams Teach Yourself CGI in 24 Hours*. You can read his blog at http://rc3.org or find him on Twitter as @rafeco.

Jennifer Kyrnin is an author and web designer who has been working on the Internet since 1995. Her other books include *Sams Teach Yourself Bootstrap in 24 Hours*, *Sams Teach Yourself Responsive Web Design in 24 Hours*, and *Sams Teach Yourself HTML5 Mobile Application Development in 24 Hours*. She can be found at http://htmljenn.com/ or on Twitter as @htmljenn.

Laura Lemay is one of the world's most popular authors on web development topics. She is the original author of *Sams Teach Yourself Web Publishing with HTML*, *Sams Teach Yourself Java in 21 Days*, and *Sams Teach Yourself Perl in 21 Days*.

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Introduction

Over the past decade, the Web has become completely integrated into the fabric of society. Most businesses have websites, and it's unusual to see a commercial on television that doesn't display a URL. The simple fact that most people know what a URL *is* speaks volumes. People who didn't know what the Internet was several years ago are now reconnecting with their high school friends on Facebook.

Perhaps the greatest thing about the Web is that you don't have to be a big company to publish things on it. The only things you need to create your own website are a computer with access to the Internet and the willingness to learn. Obviously, the reason you're reading this is that you have an interest in web publishing. Perhaps you need to learn about it for work, or you're looking for a new means of self-expression, or you want to post baby pictures on the Web so that your relatives all over the country can stay up-to-date. The question is, how do you get started?

There's more than enough information on the Web about how to publish websites like a seasoned professional. There are tutorials, reference sites, tons of examples, and free tools to make it easier to publish on the Web. However, the advantage of reading this book instead is that all the information you need to build websites is organized in one place and presented in an orderly fashion. It has everything you need to master HTML, publish sites to a server on the Web, create graphics for use on the Web, and keep your sites running smoothly.

But wait, there's more. Other books on how to create web pages just teach you the basic technical details, such as how to produce a boldface word. In this book, you'll also learn why you should be producing a particular effect and when you should use it. In addition, this book provides hints, suggestions, and examples of how to structure your overall website, not just the words on each page. This book won't just teach you how to create a website—it'll teach you how to create a great website and how to get people to come visit it.

In this book, examples are written in valid HTML5 and CSS3 using tags that work in all current browsers wherever possible. Exceptions and caveats are noted whenever I use tags that are obsolete or not included in HTML5.

NOTE

Visit our website and register this book at www.informit.com/ register for convenient access to any updates, downloads, or errata that might be available for this book.

Who Should Read This Book

Is this book for you? That depends:

- If you've seen what's out on the Web and you want to contribute your own content, this book is for you.
- If you work for a company that wants to create a website and you're not sure where to start, this book is for you.
- If you're an information developer, such as a technical writer, and you want to learn how the Web can help you present your information online, this book is for you.
- If you're just curious about how the Web works, some parts of this book are for you, although you might be able to find what you need on the Web itself.
- If you've created web pages before with text, images, and links, and you've played with a table or two and set up a few simple forms, you may be able to skim the first half of the book. The second half should still offer you a lot of helpful information.

What This Book Contains

The lessons are arranged in a logical order, taking you from the simplest tasks to more advanced techniques:

- Part I: Getting Started
 In Part I, you'll get a general overview of the World Wide Web and what you can do with it. You'll also write your first (basic) web page with HTML and CSS.
- Part II: Creating Web Pages
 In Part II, you'll learn how to write simple documents in the HTML language and style them with CSS. You'll learn how to create lists on your pages as well as paragraphs of text, and you'll learn how to link your pages with hypertext links.

■ Part III: Doing More with HTML and CSS

In Part III, you'll learn the meat of building web pages. You'll learn how to format text and style a page using CSS. You'll learn how to add images and create tables and forms and place them on your pages. You'll also learn how to lay out your web pages with CSS and make them responsive to the devices that are viewing them.

■ Part IV: Using JavaScript and jQuery

In Part IV, you'll learn how you can extend the functionality of your web pages by adding JavaScript to them. First, we provide an overview of JavaScript and of jQuery. We provide some specific JavaScript examples you can use on your own pages. And you learn how to make inline frames and linked windows.

■ Part V: Designing for Everyone

Part V gives you hints for creating a well-constructed website, and you'll learn how to design for mobile devices as well as make your site accessible so that it is usable by people with disabilities.

■ Part VI: Going Live on the Web

In Part VI, you'll learn how to put your site up on the Web, including how to advertise the work you've done. You'll also learn how to use some of the features of your web server to make your life easier. And you'll get some tips for making your site searchable in the most popular search engines with search engine optimization (SEO).

What You Need Before You Start

There are lots of books about how to use the Web. This book isn't one of them. We're assuming that if you're reading this book, you already have a working connection to the Internet, you have a modern web browser such as Chrome, Safari, Firefox, Opera, Internet Explorer version 10, or Microsoft Edge, and that you're familiar with the basics of how the Web and the Internet work. You should also have at least a passing acquaintance with some other elements of the Internet, such as email and FTP, because we refer to them in general terms in this book.

In other words, you need to have used the Web to provide content for the Web. If you meet this one simple qualification, read on!

Many of the screenshots in this book are made on a Macintosh computer, but you can do all the work on Windows or a Linux machine if that's what you use. You should just be familiar with how your operating system works and where common programs are located.

Conventions Used in This Book

This book uses special typefaces and other graphical elements to highlight different types of information.

Special Elements

Three types of "boxed" elements present pertinent information that relates to the topic being discussed: Note, Tip, and Caution as follows:

Notes highlight special details about the current topic.

It's a good idea to read the tips because they present shortcuts or trouble-saving ideas for performing specific tasks.

CAUTION

Don't skip the cautions. They help you avoid making bad decisions or performing actions that can cause you trouble.

▼ Task

Tasks demonstrate how you can put the information in a lesson into practice by giving you a real working example.

HTML Input and Output Examples

Throughout the book, we present exercises and examples of HTML input and output.

Input ▼

An input icon identifies HTML code that you can type in yourself.

Output ▼

An output icon indicates the results of the HTML input in a web browser such as Microsoft Internet Explorer.

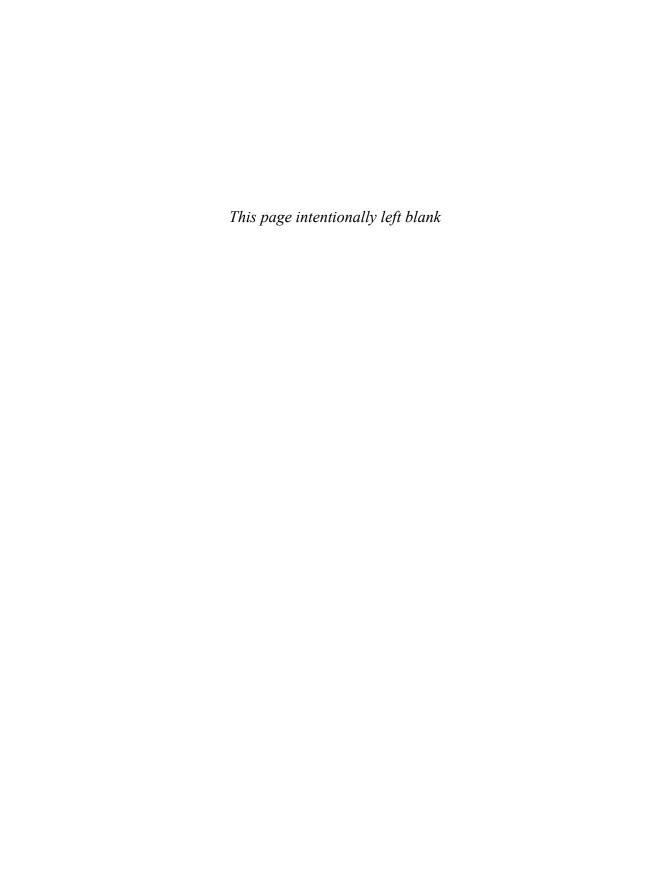
Special Fonts

Several items are presented in a monospace font, which can be plain or italic. Here's what each one means:

- plain mono—Applied to commands, filenames, file extensions, directory names, and HTML input. For example, HTML tags such as and appear in this font.
- mono italic—Applied to placeholders. A placeholder is a generic item that replaces something specific as part of a command or computer output. For instance, the term represented by filename would be the real name of the file, such as myfile.txt.

Workshop

In the "Workshop" section, you can reinforce your knowledge of the concepts in the lesson by answering quiz questions or working on exercises. The Q&A provides additional information that didn't fit in neatly elsewhere in the lesson.



LESSON 4

Learning the Basics of HTML

Over the first three lessons, you learned about the World Wide Web, how to prepare to build websites, and why you need to use HTML to create a web page. In Lesson 3, "Introducing HTML and CSS," you even created your first very simple web page. In this lesson, you learn about each of the basic HTML tags in more depth, and begin writing web pages with headings, paragraphs, and several different types of lists. We focus on the following topics and HTML tags:

- Tags for overall page structure: <html>, <head>, and <body>
- Tags for titles, headings, and paragraphs: <title>, <h1> through <h6>, and
- Tags for comments: <!--...

Structuring Your HTML

HTML defines three tags that are used to define the page's overall structure and provide some simple header information. These three tags—<html>, <head>, and <body>—make up the basic skeleton of every web page. They also provide simple information about the page (such as its title or its author) before loading the entire thing. The page structure tags don't affect what the page looks like when it's displayed; they're only there to help browsers.

The DOCTYPE Identifier

Although it's not a page structure tag, the XHTML 1.0 and HTML5 standards impose an additional requirement on your web pages. The first line of each page must include a <code>DOCTYPE</code> identifier that defines the HTML version to which your page conforms, and in some cases, the Document Type Definition (DTD) that defines the specification. This is followed by the <code><html></code>, <code><head></code>, and <code><body></code> tags. In the following example, the HTML5 document type appears before the page structure tags:

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
...your page content...
</body>
</html>
```

The <html> Tag

The first page structure tag in every HTML page is the <html> tag. It indicates that the content of this file is in the HTML language. The <html> tag should immediately follow the DOCTYPE identifier (as mentioned in the previous note), as shown in the following example.

All the text and HTML elements in your web page should be placed within the beginning and ending HTML tags, like this:

```
<!DOCTYPE html>
<html>
...your page...
</html>
```

The <html> tag serves as a container for all of the tags that make up the page. It is required because both XML and SGML specify that every document have a root element. Were you to leave it out, which you shouldn't do because it would make your page invalid, the browser would make up an <html> tag for you so that the page would make sense to its HTML processor.

The <head> Tag

The <head> tag is a container for the tags that contain information about the page, rather than information that will be displayed on the page. Generally, only a few tags are used in the <head> portion of the page (most notably, the page title, described later). You should never put any of the text of your page into the header (between <head> tags).

Here's a typical example of how you properly use the <head> tag. (You'll learn about <title> later.)

```
<!DOCTYPE html>
<html>
<head>
<title>This is the Title. It will be explained later on</title>
</head>
...your page...
</html>
```

The <body> Tag

The content of your HTML page (represented in the following example as ...your page...) resides within the <body> tag. This includes all the text and other content (links, pictures, and so on). In combination with the <html> and <head> tags, your page will look something like this:

```
<!DOCTYPE html><html>
<head>
<title>This is the Title. It will be explained later on</title>
</head>
<body>
...your page...
</body>
</html>
```

You might notice here that the tags are nested. That is, both <body> and </body> tags go inside the <html> tags; the same with both <head> tags. All HTML tags work this way,

forming individual nested sections of text. You should be careful never to overlap tags. That is, never do something like the following:

```
<!DOCTYPE html><html>
<head>
<body>
</head>
</body>
</html>
```

Whenever you close an HTML tag, make sure that you're closing the most recent unclosed tag. (You'll learn more about closing tags as you go on.)



In HTML, closing some tags is optional. In fact, in HTML 4.0 and earlier, closing tags were forbidden in some cases. The XHTML standard requires your markup to be well-formed XML, which leads to the requirement that all tags be closed. Because the examples shown in this book use HTML5, closing tags will be used only when they are required, but if you are working with XHTML you must close them.

The Title

Each HTML page needs a title to indicate what the page describes. It appears in the title bar of the browser when people view the web page. The title is stored in your browser's bookmarks and in search engines when they index your pages. Use the <tile> tag to give a page a title.

<title> tags are placed within the <head> tag and are normally used to describe the contents of the page, as follows:

```
<!DOCTYPE html><html>
<head>
<title>The Lion, The Witch, and the Wardrobe</title>
</head>
<body>
...your page...
</body>
</html>
```

Each page can have only one title, and that title can contain only plain text; that is, no other tags should appear inside the title.

4

Try to choose a title that's both short and descriptive of the content. Your title should be relevant even out of context. If someone browsing on the Web follows a random link and ends up on this page, or if a person finds your title in a friend's browser history list, would he have any idea what this page is about? You might not intend the page to be used independently of the pages you specifically linked to it, but because anyone can link to any page at any time, be prepared for that consequence and pick a helpful title.

NOTE

When search engines index your pages, each page title is captured and listed in the search results. The more descriptive your page title, the more likely it is that someone will choose your page from all the search results.

Also, because browsers put the title in the title bar of the window, you might have a limited amount of space. (Although the text within the <title> tag can be of any length, it might be cut off by the browser when it's displayed.) Here are some examples of good titles:

```
<title>Poisonous Plants of North America</title>
<title>Image Editing: A Tutorial</title>
<title>Upcoming Cemetery Tours, Summer 1999</title>
<title>Installing the Software: Opening the CD Case</title>
<title>Laura Lemay's Awesome Home Page</title>
```

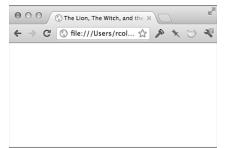
Here are some not-so-good titles:

```
<title>Part Two</title>
<title>An Example</title>
<title>Nigel Franklin Hobbes</title>
<title>Minutes of the Second Meeting of the Fourth Conference of the
Committee for the Preservation of English Roses, Day Four, After Lunch</title>
```

Figure 4.1 shows how the following title looks in a browser:

```
<title>The Lion, the Witch, and the Wardrobe</title>
```

FIGURE 4.1 The title appears in the tab bar, not on the page.



Headings

Headings are used to add titles to sections of a page. HTML defines six levels of headings. Heading tags look like the following:

```
<h1>Installing Your Safetee Lock</h1>
```

The numbers indicate heading levels (h1 through h6). The headings, when they're displayed, aren't numbered. They're displayed in larger and bolder text so that they stand out from regular text.

Think of the headings as items in an outline. If the text you're writing is structured, use the headings to express that structure, as shown in the following code:

```
<h1>Movies</h1>
<h2>Action/Adventure</h2>
<h3>Caper</h3>
<h3>Sports</h3>
<h3>Thriller</h3>
<h3>War</h3>
<h2>Comedy</h2>
<h3>Romantic Comedy</h3>
<h3>Slapstick</h3>
<h2>Drama</h2>
<h3>Buddy Movies</h3>
<h3>Mystery</h3>
<h3>Romance</h3>
```

Notice that I've indented the headings in this example to better show the hierarchy. They don't have to be indented in your page; in fact, the browser ignores the indenting.

TIP

Even though the browser ignores any indenting you include in your code, you will probably find it useful to indent your code so that it's easier to read. You'll find that any lengthy examples in this book are indented for that reason, and you'll probably want to carry that convention over to your own HTML code.

Unlike titles, headings can be any length, spanning many lines of text. Because headings are emphasized, however, having many lines of emphasized text might be tiring to read.

A common practice is to use a first-level heading at the top of your page to either duplicate the title or to provide a shorter or less context-specific form of the title. If you have a

page that shows several examples of folding bed sheets—for example, part of a long presentation on how to fold bed sheets—the title might look something like the following:

```
<title>How to Fold Sheets: Some Examples</title>
```

The topmost heading, however, might just be as follows:

```
<h1>Examples</h1>
```

CAUTION

Don't use headings to display text in boldface type or to make certain parts of your page stand out more. Although the result might look as you intend, the markup will not represent the structure of your page. This comes into play for search engines, accessibility, and some browsers.

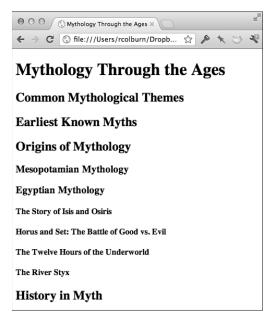
Figure 4.2 shows the following headings as they appear in a browser:

Input ▼

```
<h1>Mythology Through the Ages</h1>
  <h2>Common Mythological Themes</h2>
  <h2>Earliest Known Myths</h2>
  <h2>Origins of Mythology</h2>
  <h3>Mesopotamian Mythology</h3>
  <h3>Egyptian Mythology</h3>
  <h4>The Story of Isis and Osiris</h4>
  <h4>Horus and Set: The Battle of Good vs. Evil</h4>
  <h4>The Twelve Hours of the Underworld</h4>
  <h4>The River Styx</h4>
  <h2>History in Myth</h2>
```

Output ▼

FIGURE 4.2 HTML heading elements.



TIP

From a visual perspective, headings 4 through 6 aren't visually interesting, but they do have meaning in terms of the document's structure. If using more than three levels of headings makes sense for the document you're creating, you can use those tags and then use styles to make them appear as you intend.

Paragraphs

Now that you have a page title and several headings, you can add some ordinary paragraphs to the page.

Paragraphs are created using the tag. The Enigern story should look like this:

<Slowly and deliberately, Enigern approached the mighty dragon.
A rustle in the trees of the nearby forest distracted his attention
for a brief moment, a near fatal mistake for the brave knight.</p>
<The dragon lunged at him, searing Enigern's armor with a rapid
blast of fiery breath. Enigern fell to the ground as the dragon
hovered over him. He quickly drew his sword and thrust it into the
dragon's chest.</p>

What if you want more (or less) space between your paragraphs than the browser provides by default? The answer is to use CSS. As you'll see, it provides fine control over the spacing of elements on the page, among other things. Figure 4.3 shows what happens when I add another paragraph about Enigern and the dragon to the page. The paragraph breaks are added between the closing and opening tags in the text.

Input ▼

The dragon fell to the ground, releasing an anguished cry and seething in pain. The thrust of Enigern's sword proved fatal as the dragon breathed its last breath. Now Enigern was free to release Lady Aelfleada from her imprisonment in the dragon's lair.

Output ▼

FIGURE 4.3 An HTML paragraph.



The closing tag, while not required, is important for defining the exact contents of a paragraph for CSS. Most web designers use it automatically, but if you don't need it, you can leave it out of your HTML.

Comments

You can put comments into HTML pages to describe the page itself or to provide some kind of indication of the status of the page. Some source code control programs store the page status in comments, for example. Text in comments is ignored when the HTML file is parsed; comments never show up onscreen—that's why they're comments. Comments look like the following:

```
<!-- This is a comment -->
```

Here are some examples:

```
<!-- Rewrite this section with less humor -->
<!-- Neil helped with this section -->
<!-- Go Tigers! -->
```

As you can see from Figure 4.4, users can view your comments using the View Source functionality in their browsers, so don't put anything in comments that you don't want them to see.

FIGURE 4.4 HTML comments displayed within the source for a page.

```
Comments

Commen
```

Exercise 4.1: Creating a Real HTML Page

At this point, you know enough to get started creating simple HTML pages. You understand what HTML is, you've been introduced to a handful of tags, and you've even opened an HTML file in your browser. You haven't created any links yet, but you'll get to that soon enough, in Lesson 6, "Working with Links."

This exercise shows you how to create an HTML file that uses the tags you've learned about up to this point. It'll give you a feel for what the tags look like when they're displayed onscreen and for the sorts of typical mistakes you're going to make. (Everyone makes them, and that's why using an HTML editor that does the typing for you is often helpful. The editor doesn't forget the closing tags, leave off the slash, or misspell the tag itself.)

So, create a simple example in your text editor. Your example doesn't have to say much of anything; in fact, all it needs to include are the structure tags, a title, a couple of headings, and a paragraph or two. Here's an example:

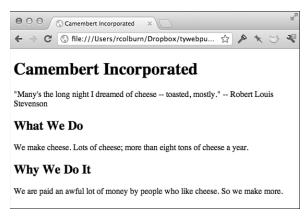
Input ▼

```
<!DOCTYPE html><html>
<head>
<title>Camembert Incorporated</title>
</head>
<body>
<h1>Camembert Incorporated</h1>
"Many's the long night I dreamed of cheese -- toasted, mostly."
-- Robert Louis Stevenson
<h2>What We Do</h2>
We make cheese. Lots of cheese; more than eight tons of cheese
a year.
<h2>Why We Do It</h2>
We are paid an awful lot of money by people who like cheese.
So we make more.
</body>
</html>
```

Save the example to an HTML file, open it in your browser, and see how it came out. Figure 4.5 shows what the cheese factory example looks like.

Output ▼

FIGURE 4.5
The cheese factory example.



4

Summary

HTML, a text-only markup language used to describe hypertext pages on the World Wide Web, describes the structure of a page, not its appearance.

In this lesson, you learned what HTML is and how to write and preview simple HTML files. You also learned about the HTML tags shown in Table 4.1.

TABLE 4.1 HTML Tags from Lesson 4

Tag	Use
<html> </html>	The entire HTML page
<head> </head>	The head, or prologue, of the HTML page
<body> </body>	All the other content in the HTML page
<title> </title>	The title of the page
<h1> </h1>	First-level heading
<h2> </h2>	Second-level heading
<h3> </h3>	Third-level heading
<h4> </h4>	Fourth-level heading
<h5> </h5>	Fifth-level heading
<h6> </h6>	Sixth-level heading
	A paragraph

Workshop

You've learned a lot in this lesson, and the following workshop will help you remember some of the most important points. I've anticipated some of the questions you might have in the first section of the workshop.

Q&A

- Q In some web pages, I've noticed that the page structure tags (<html>, <head>, <body>) aren't used. Do I really need to include them if pages work just fine without them?
- A Most browsers handle plain HTML without the page structure tags. The only tag that is required in HTML5 is the <title> tag. But it's a good idea to get into the habit of using the structure tags now. Including these tags ensures that browsers handle your markup properly. And, using these tags is the correct thing to do if you want your pages to conform to true HTML format.

4

Q Is the tag the general-purpose tag for use when styling a page?

A No. The <div> tag is the general-purpose tag for containing content on a page. The tag is intended specifically to hold paragraphs of text. There are many tags that are not valid when placed within a tag, including <div>. You'll learn more about <div> in Lesson 7, "Formatting Text with HTML and CSS."

Q Is it possible to put HTML tags inside comments?

A Yes, you can enclose HTML tags within comments, and the browser will not display them. In fact, it's common to use comments to temporarily hide sections of a page, especially when testing things. Programmers (and web developers) generally refer to this as "commenting it out."

Quiz

- **1.** What three HTML tags are used to describe the overall structure of a web page, and what do each of them define?
- 2. Where does the <title> tag go, and what is it used for?
- **3.** How many different levels of headings does HTML support? What are their tags?
- **4.** Why is it a good idea to use two-sided paragraph tags, even though the closing tag is optional in HTML?

Quiz Answers

- 1. The <html> tag indicates that the file is in the HTML language. The <head> tag specifies that the lines within the beginning and ending points of the tag are the prologue to the rest of the file. The <body> tag encloses the remainder of your HTML page (text, links, pictures, and so on).
- 2. The <title> tag is used to indicate the title of a web page in a browser's title bar and bookmarks. It is also used by search engines. This tag always goes inside the <head> tags.
- **3.** HTML supports six levels of headings. Their tags are <h1 .. /h1> through <h6 .. /h6>.
- **4.** The closing tag becomes important when using CSS to style your text. Closing tags also are required for XHTML 1.0.

Exercises

- **1.** Using the Camembert Incorporated page as an example, create a page that briefly describes topics that you would like to cover on your own website.
- 2. Create a second page that provides further information about one of the topics you listed in the first exercise. Include a couple of subheadings (such as those shown in Figure 4.2). If you feel really adventurous, complete the page's content and include lists where you think they enhance the page. This exercise will help prepare you for Lesson 5, "Organizing Information with Lists."

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