

## HTML5

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#### HTML5

Step by Step

**Faithe Wempen** 

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To Margaret

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#### Introduction

Hypertext Markup Language (HTML) is the underlying markup language of the World Wide Web. It's the common thread that ties together virtually every Web site, from large-scale corporate sites such as Microsoft's to single-page classroom projects at the local grade school.

Don't let the phrase "markup language" intimidate you. A markup language annotates or "marks up" plain text, letting a browser know how to format that text so it looks good on a Web page. It's easy to get started—in fact, you can create a simple Web page in just a few minutes. While full-featured What You See Is What You Get (WYSIWYG) tools exist that can help speed up the process of writing Web pages, all you really need is an ordinary text-editing program such as Microsoft Notepad. You don't need special software or extensive training.

In this introduction, you'll learn some basics about HTML. You'll find out how they turn plain text into attractive formatting, how they incorporate graphics and hyperlinks, and how anyone can create Web content in virtually any program that edits text. This introduction explains what cascading style sheets (CSS) are, and how they make formatting consistent across large Web sites. You'll also discover the differences between HTML4, XHTML, and HTML5, so you can make the important decision about which version of HTML you want your code to conform to. Finally, you'll learn about the conventions used in this book for pointing out special helps like notes, tips, cautions, and references to the data files.

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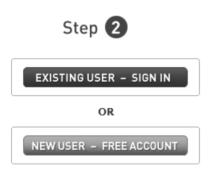
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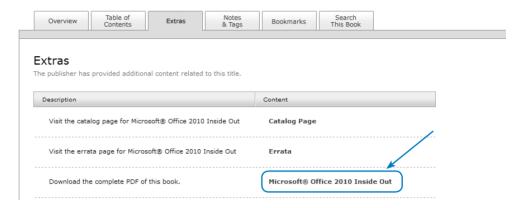
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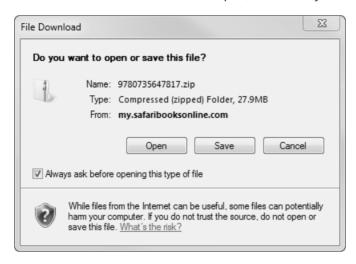
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#### What Is HTML?

In simple terms, a *Web page* (or *HTML document*) is a plain text file that has been encoded using *Hypertext Markup Language* (*HTML*) so that it appears nicely formatted in a Web browser. Here's what HTML means, word-by-word:

- Hypertext Text that you click to jump from document to document. This is a reference to the ability of Web pages to link to one another.
- Markup Tags that apply layout and formatting conventions to plain text. Literally, the plain text is "marked up" with the tags.
- Language A reference to the fact that HTML is considered a programming language.

**Tip** When people think of computer programming, they usually think of writing a compiled program. A compiled programming language runs the human-readable programming code through a utility that converts it to an executable file (usually with an .exe or .com extension), which is then distributed to users. In contrast, HTML is an interpreted programming language. That means the program is distributed in human-readable format to users, and the program in which it is opened takes care of running it. The HTML code for Web pages resides in files. Each time your Web browser opens a Web page, it processes the HTML code within the file.

#### **Understanding HTML Tags**

The code within an HTML file consists of text surrounded by *tags*. These tags indicate where the formatting should be applied, how the layout should appear, what pictures should be placed in certain locations, and more.

For example, suppose you wanted a certain word to be italicized, like this:

Everything is on sale.

In HTML, there's no Italics button to click, like there is in a word-processing program. Therefore, you have to "tag" the word that you want to be italicized. The code to turn on italics is <i>>, and the code to turn italics off is </i>>. Your HTML code would look something like this:

<i>Everything</i> is on sale.

That's an example of a *two-sided tag*, which encloses text between opening and closing tags, in this case  $\langle i \rangle$  and  $\langle i \rangle$ . Note the forward slash in the closing tag  $(\langle i \rangle)$ . That slash differentiates an opening tag from a closing tag. With a two-sided tag, there is always a corresponding closing tag for every opening tag.

To understand how this system of tagging came about, you need to know that back in the olden days of the Internet, nearly everyone connected to it by using a dial-up modem, at speeds ranging from 2400 bps to 28.8 Kbps. That's *really slow*. Text files transfer much faster than binary files, so for any type of information-sharing system to be popular, it had to be text-based. Otherwise, people would doze off while waiting for a page to load.

People designing Web pages also wanted their pages to be attractive. They couldn't just format pages in a word processor, though, because every word processor handled formatting differently, and it was impossible to know which one a visitor to a site might be using. Word processing files are also much larger than plain text files.

The Web's creators developed an elegant solution. Instead of sending the formatted pages over the Internet, they created an application—a Web browser—that could interpret plain-text code (HTML tags) as formatting instructions. The text could be sent quickly and efficiently in plain-text format, and then be processed and displayed attractively and graphically on the local PC.

HTML worked great all by itself for all kinds of text formatting, but some Web designers wanted to include graphics on their pages. To accommodate this, the <img> tag was created, which designers use to refer to a graphic stored on a server. When the Web browser gets to that tag, it requests that the image file be downloaded from the server and displayed on the page. (You'll learn how to insert images in Chapter 9, "Displaying Graphics.")

The <img> tag is different in several ways from the <i> tag. It is one-sided, meaning it does not have a closing tag, and it takes attributes. An attribute is text within the tag that contains information about how the tag should behave. For example, for an <img> tag, you have to specify a source, abbreviated src. Here's an example:

```
<img src="tree.gif">
```

This < img > tag uses the src= attribute, and specifies that the file tree.gif be displayed.

Many tags accept attributes, either optional or required. You'll see many examples throughout the exercises in this book.

With HTML, you can also create *hyperlinks* from one page to another. When a visitor to a Web site clicks a hyperlink, the Web browser loads the referenced page or jumps to a marked section (a "bookmark") within the same page. You will learn to create hyperlinks in Chapter 5, "Creating Hyperlinks and Anchors."

The tag for a hyperlink is <a>, a two-sided tag, but most people wouldn't recognize it without the attribute that specifies the file or location to which to jump. For example, to create a hyperlink with the words *Click Here* that jumps to the file *index.htm* when clicked, the coding would look like this:

```
<a href="index.htm">Click Here</a>
```

There's a lot more to HTML, of course, but that's basically how it works. Plain text is marked up with tags that indicate where elements such as formatting, hyperlinks, and graphics should be applied, and a Web browser interprets those tags and displays the page in its formatted state. The trick, of course, is to know which tags to use, and where they're appropriate, and what attributes they need. And that's the subject of this book.

#### **Understanding Cascading Style Sheets**

Web designers who worked with early versions of HTML to create large Web sites were often frustrated by the amount of repetition involved in their jobs. Suppose a Web site has 200 pages, all using the same basic layout and design. To make a design change to the entire site, a designer would have had to go in and manually edit each of those 200 pages.

Later versions of HTML have gotten around this by supporting *cascading style sheets*. Based on the same principle as style templates in a word-processing or page-layout program, Web designers use cascading style sheets to specify the formatting for a particular tag type—usually in a separate style sheet document—and then apply that style sheet to multiple pages. Need to make a change to the style? Simply make it in the style sheet, and the change is applied automatically to all pages.

Although you can still format documents by using older methods—and you'll learn how to do a little of that in this book—most Web designers rely almost exclusively on cascading style sheets for formatting these days, and XHTML all but demands that you do so. It might seem intimidating at first, but if you are creating a multi-page site, the extra trouble involved in setting up a cascading style sheet will pay for itself many times over.

#### Why Learn HTML in Notepad?

This book teaches beginner-level HTML coding, but it teaches it in a rather fundamentalist way: by creating plain text files in Notepad. There are so many good Web site creation programs on the market nowadays that you may be wondering why this book takes this approach.

Simply put, it's because doing your own coding is the best way to learn HTML. In this book you'll build a Web site from the ground up, writing every line of code yourself. It's slower and not as much fun as a fancy graphical program, but it's great training.

The last chapter of this book shows how to use Microsoft Expression Web to create Web content, and you may eventually choose to move to a program like that. However, you will be a much better Web designer—and understand what is going on in design programs much better—if you tough it out with Notepad in the beginning.

#### **Choosing an HTML Version**

Different versions of HTML use different tags for some types of content, although they more similar than different overall, especially at the beginner level covered in this book. Here's a quick comparison of the HTML versions you may encounter:

- HTML4 A very stable, universally accepted code set, which is also fairly forgiving
  of small coding errors. Using HTML4 codes is desirable when compatibility with all
  browsers is important.
- XHTML A strict, standards-based implementation of HTML4 created with XML (eXtensible Markup Language). XHTML coding uses the same codes as HTML4, so it is compatible with the same browsers as HTML4. (See the sidebar about XML on the next page for more information.)
- HTML5 A revised code set that builds upon HTML4 to add new capabilities. HTML5 offers many dramatic improvements in the areas of application handling and multimedia, but a lot of those features are beyond the scope of this book. In terms of basic coding, which is what this book teaches, the biggest difference is that there are new specific codes for different types of content that were previously handled with more general codes. For example, HTML5 has <audio> and <video> tags for inserting multimedia content, whereas HTML4 inserts all types of multimedia content via a generic <embed> tag.

Since this is a book about HTML5, it might seem like an obvious decision to do your coding using HTML5 tags, but it is not quite as simple as that in real-world situations.

A good Web browser should ideally support every tag and every version of HTML it can, because the various HTML version differences should be completely invisible to the Web site visitor. However, HTML5 is so new that not all browsers have caught up to it yet, and people who use older computers may not have the latest version of a browser even if an HTML5 compatible version is available.

**Tip** Here's a site that lists what HTML5 features are supported by each version of each of the popular Web browsers: <a href="http://caniuse.com">http://caniuse.com</a>.

The code you will create as you work through the exercises in this book is based on HTML5, but I will also show you some workarounds in situations where HTML5 codes might cause problems in some browsers. You'll learn both ways of creating a certain effect, so that you can make the call of which codes to use in your real-life work as the situations arise.

#### What are XML and XHTML?

There is a language related to HTML called Extensible Markup Language (XML) that programmers use to create their own tags. It's widely used for Web databases, for example, because it can define tags for each data field. Because XML can be so completely customized, programmers can create almost any other markup language within it, just by re-creating all the officially accepted tags of that language. The W3C did just that: they re-created the entire HTML language in XML, and called it Extensible HTML (XHTML). Version 1.0 was released in 2001; the current version is XHTML 2.0, released in 2004.

XHTML, then, is HTML written within the larger language of XML. Because it is virtually identical to HTML in its functionality, the basic set of tags is the same, and you can learn both HTML and XHTML at the same time. You can also use XHTML to create new tags and extensions, which is a valuable feature for advanced Web developers.

There's just one thing about XHTML to watch out for: it's not tolerant of mistakes. For example, in HTML, technically you are supposed to begin each paragraph with and end each paragraph with . But in HTML you can leave out the closing tag if you want (or if you forget it). That won't work in XHTML. There are lots of little ways that XHTML is picky like that.

At one point, it was thought that XHTML would eventually replace HTML4 as its successor, but due to interoperability problems, that has not happened; instead HTML5 is poised to succeed HTML4. This book doesn't explicitly cover XHTML, but most of what you will learn can be applied to XHTML coding.

#### Why Code in HTML5?

The short answer is: you should code in HTML5 because it's an investment in the future. Within a few years, it will be the standard on which nearly all Web sites are based.

A slightly longer answer is because it enables cleaner, easier-to-write code. Web page technology has grown by leaps and bounds, mostly due to the increase of the average person's Internet connection speed, but also because users, designers, and programmers increasingly demand more functionality from their Web pages, such as more precise control of fonts and layout, better rendering on devices that vary wildly in size from mobile phones to huge desktop monitors, better images, more interactivity, video, audio, animations, and better support for various image and file formats. Because most people have fast connections, they don't have to wait a long time for pages to load that contain large audio and video files, which means more and more sites are including audio and video content.

HTML was not originally designed for the rigors of multimedia content delivery, so more and more high-end professional sites have moved to other languages and technologies that piggyback on HTML to deliver that content, such as JavaScript, Java, and Active Server Pages (ASP).

HTML5 adds some important new tags to make audio, video, and application integration smoother and more reliable. You'll learn about many of these new tags in Chapters 15 and 16, including *<audio>*, *<video>*, and *<canvas>*.

HTML5 removes support for some of the older tags. For example, an old way (pre-HTML4) of specifying a font was the <font> tag. Today, most people use cascading style sheets to define fonts, so the <font> tag has not been used by many Web designers in a long time anyway. HTML5 formally removes it from the language.

One of the biggest things that HTML5 removes is the ability to create multi-framed Web sites with the *<frame>* and *<frameset>* commands. You can still create Web sites with multiple sections, but they're handled much more capably using tables or divisions. Chapter 11 covers divisions—the newer way, preferred by most professional Web designers. Chapters 12 and 13 cover tables, still an acceptable way, and preferred by many casual Web page designers who are familiar with tables from programs like Word.

#### **Minimum System Requirements**

There are no minimum system requirements for developing HTML; you can do it in any text editing program with any type of computer and any operating system. That's the beauty of HTML! This book uses Notepad as the text editor, but you can use any editor that you like.

For testing your work, you will need an HTML5-compliant Web browser application. The latest versions of Google Chrome and Firefox (both freely available online) will work fine for this, as will Internet Explorer 9 or higher.

#### Using the Practice Files

Each exercise in the lessons is preceded by a paragraph or paragraphs that list the files needed for that exercise and explain any file preparation you need to take care of before you start working through the exercise. The practice files are available for download from <a href="http://aka.ms/645264/files">http://aka.ms/645264/files</a>. When you unzip them from the download file, separate folders will be created for each chapter, and separate folders within each of those for each exercise.

The following table lists the practice file folders for each chapter and the subfolders you'll find within them. The practice file folder for each chapter also includes a Solutions subfolder containing finished versions of the practice files used in that chapter.

Chapter	Folder	Subfolder
Chapter 1: HTML and XHTML Basics	01Editing	no subfolders
Chapter 2: Setting Up the Document Structure	02Structure	Creating Paragraphs Publishing Files Specifying Keywords Specifying Title
Chapter 3: Formatting Text by Using Tags	03Format	Applying Bold Applying Superscript Configuring Settings Creating Headings Formatting Quotes Using Monospace
Chapter 4: Using Lists and Backgrounds	04Lists	Choosing Colors Creating Glossary Inserting Characters Inserting Lines Nesting Lists Specifying Images
Chapter 5: Creating Hyperlinks and Anchors	05Links	Creating Anchors Creating Hyperlinks Linking Email Linking Other

Chapter	Folder	Subfolder
Chapter 6:	06Styles	ConstructingRules
Introduction to Style Sheets		CreatingClasses
		CreatingExternal
		CreatingNested
		StylingHyperlinks
Chapter 7:	07Text	Adjusting Spacing
Formatting Text by Using Style Sheets		ApplyingBold
		ApplyingStrike
		CreatingSpan
		SelectingFont
		SelectingSize
Chapter 8:	08Paragraphs	AddingBorders
Formatting Paragraphs Using Style Sheets		AdjustingHeight
		Indenting
		SettingAlignment
Chapter 9:	09Graphics	Captioning Figures
Displaying Graphics		ClearingImages
		CreatingHyperlinks
		InsertingImages
		SizingImages
		UsingAlt
		UsingThumbnails
Chapter 10:	10Navigation	CreatingGraphicBar
Creating Navigational Aids		CreatingImageMap
		CreatingTextBar
		Redirecting
Chapter 11:	11Divisions	Creating Divisions
Creating Division-Based Layouts		Formatting Divisions
		Positioning Divisions
		UsingSemantic
Chapter 12:	12Tables	CreatingTable
Creating Tables		SettingWidth
		SpanningCells
		SpecifyingSize
		UsingTables

Chapter	Folder	Subfolder
Chapter 13:	13FmtTables	ApplyingBackground
Formatting Tables		ApplyingBorders
		ChangingPadding
Chapter 14:	14Forms	CreatingButtons
Creating User Forms		CreatingForms
		CreatingLists
Chapter 15:	15AudioVideo	
Incorporating Sound and Video		
Chapter 16:	16Canvas	
Including JavaScript and External Content		
Chapter 17:	17Expression	ViewingPage
HTML and Microsoft Expression Web		

#### Getting Help

Every effort has been made to ensure the accuracy of this book. If you do run into problems, please contact the sources listed in the following topics.

#### **Getting Help with This Book**

If your question or issue concerns the content of this book or its practice files, please first consult the book's page, which can be accessed at:

http://aka.ms/645264/files

This page provides information about known errors and corrections to the book. If you do not find your answer on the errata page, send your question or comment to:

mspinput@microsoft.com

## Conventions and Features in This Book

You can save time when you use this book by understanding how the *Step by Step* series shows special instructions, keys to press, buttons to click, and so on.

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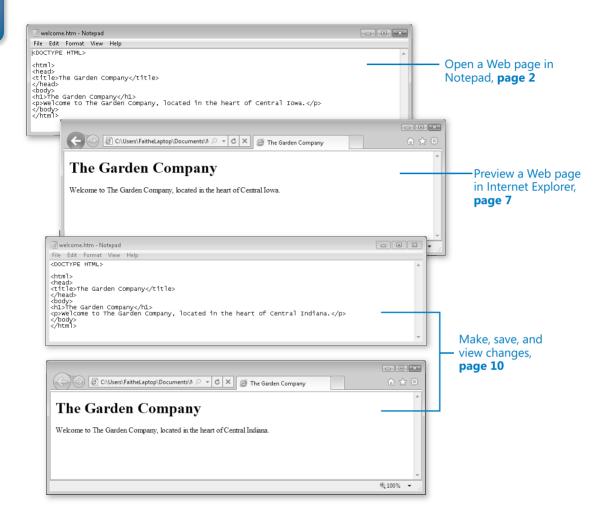
#### **What Next?**

To get started, turn the page to Chapter 1 and start reading and working through the exercises. The lessons are designed to be tackled in the order they appear in the book, but feel free to skip around if you just need to fill in some holes in your HTML knowledge.

# Part 1 Getting Started with HTML

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## Chapter at a Glance



# 1 Editing and Viewing HTML Files

#### In this chapter, you will learn how to

- Open a Web page in Notepad.
- Preview a Web page in Internet Explorer.
- Make, save, and view changes.

As you work through this book's exercises, you'll learn HTML by creating and editing text files in Notepad, and then viewing them in a Web browser to check your work. This chapter teaches the important basic skills you need to work in these programs.

**See Also** Do you need only a quick refresher on the topics in this chapter? See the Key Points section at the end of this chapter.

**Practice Files** Before you can use the practice files provided for this chapter, you need to download and install them from the book's companion content location. See "Using the Practice Files" at the beginning of this book for more information.

#### **Opening a Web Page in Notepad**

Notepad is included with all versions of Windows, and you'll find it in the All Programs (or Programs)/Accessories folder on the Start menu. It's a simple text editor that saves only in plain text format. That's ideal for HTML editing because you don't need to worry about any extra word processing formatting being included in the file.

**Note** You are welcome to use a different text editor application to complete the exercises in this book. Notepad is just a suggestion.

When saving or opening files in Notepad, the default file extension is .txt. The Save and Open dialog boxes are set by default to filter file listings so only those files with .txt extensions appear. That means each time you browse for a file, you need to change the file type to All Files so you can browse for Web pages (which have .htm or .html extensions).

**Note** You may run into various extensions on Web page files on the Internet, such as .php, .asp, and .jsp. Those are all special formats designed for use with specific server technologies. This book only covers developing the basic type of Web page: the type with an .htm or .html extension.

In this exercise, you will open a Web page in Notepad and examine its text and tags.



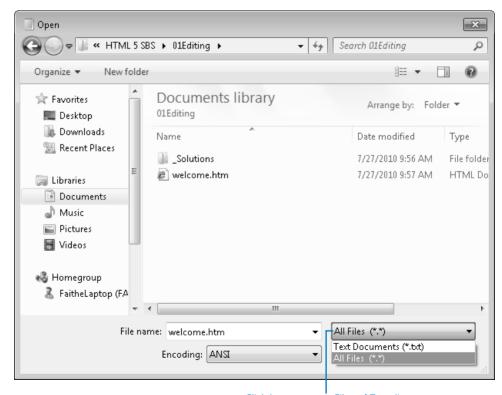
**SET UP** Use the *welcome* file in the practice file folder for this topic. This practice file is located in the Documents\Microsoft Press\HTML5 SBS\01Editing folder.

- 1. From the Start menu, select All Programs | Accessories | Notepad.
- 2. In the untitled Notepad window, select File | Open.
- 3. Navigate to the folder containing the practice files for this chapter.

On the Places bar, click Documents (or My Documents if you are using Windows XP). In the Open dialog box, double-click Microsoft Press, HTML5 SBS, and then 01Editing.

**Note** You won't see any files in the list at this point. The only thing that you should see is just a \_Solutions folder. (That folder contains the solution files for the lesson, but you don't need those now.)

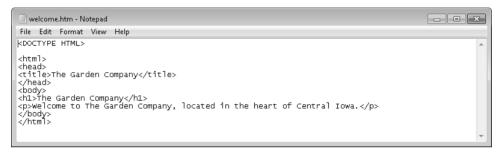
4. Click the Files Of Type down arrow, and then click All Files.



5. In the **Open** dialog box, click *welcome.htm*, and then click **Open**.

The welcome.htm file opens in Notepad.

**Note** The .htm extension might not appear on the welcome file in the Open dialog box. By default, file extensions for known file types are turned off in Windows. To turn them on, open Computer (or My Computer), and on the Tools menu (press the Alt key for the menu bar if you don't see it), click Folder Options. On the View tab of the Folder Options dialog box, clear the Hide Extensions For Known File Types check box, and then click OK.



**6.** Locate the <*html*> and <*/html*> tags.

These tags signify the beginning and end of the HTML code.

7. Locate the <body> and </body> tags.

These tags signify the beginning and end of the visible portion of the Web page when viewed in a browser.

**8.** Locate the  $\langle p \rangle$  and  $\langle p \rangle$  tags.

These tags signify the beginning and end of a paragraph.



**CLEAN UP** Leave the page open in Notepad for later use.

#### Adding the Data File Location to the Favorites List

In the course of working through this book, you will open many files in Notepad. To save yourself the trouble of navigating to the data file folder each time (HTML5 SBS), you might want to add that folder to your Favorites bar in the Open dialog box for easy access to the data files.

In this exercise, you will add to the Favorites bar a shortcut that brings you directly to the HTML5 SBS folder.

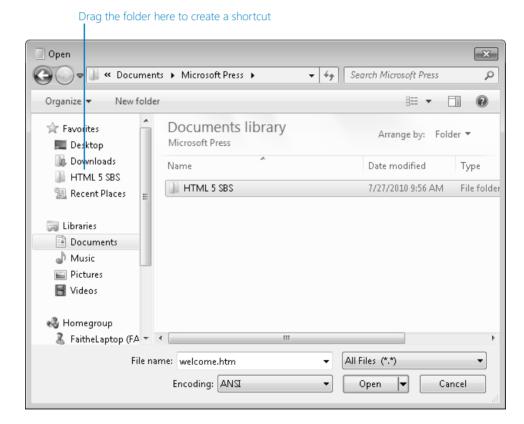


#### **SET UP** Open Notepad.

- 1. Select File | Open.
- 2. Navigate to the folder containing the practice files for this chapter.

On the Places bar, click Documents (or My Documents if you are using Windows XP). In the Open dialog box, double-click Microsoft Press. The HTML5 SBS folder appears as an icon.

**3.** Drag the **HTML5 SBS** icon to the Favorites list on the left side of the window. A shortcut for it appears on the Favorites list.



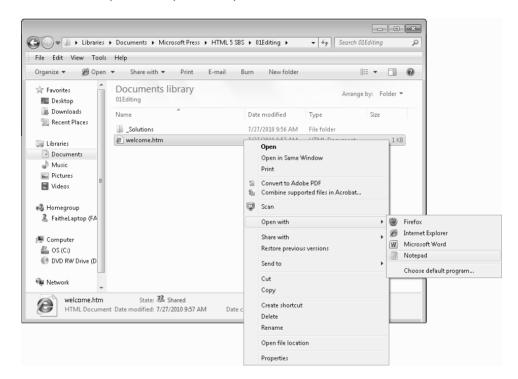


#### CLEAN UP Close the Windows Explorer window

Now, the next time you want to open a file in the Open dialog box, you can double-click that shortcut, and then double-click the folder for the chapter you are working on, which is much more convenient!

#### **Opening a File from Windows Explorer**

A quick way to open most file types in their default applications is to double-click them from any Windows Explorer window. However, the problem with doing that for HTML files is that the default application is your Web browser, not Notepad; thus, instead of the file opening in Notepad, it opens in your Web browser. One way to get around this is to right-click a file in Windows Explorer, choose Open With from the contextual menu, and then click Notepad. This opens Notepad and loads the file.



#### Previewing a Web Page in a Web Browser

Because Notepad is not a WYSIWYG ("What You See Is What You Get") program, you won't be able to immediately see how the tags you type will affect the finished product. To work around this, most Web page designers keep a browser window open next to Notepad.

You can preview your work in any browser; you do not need to use Internet Explorer 9 (although that's what I use in this book's examples). In fact, as you progress with your Web development skills, you will probably want to acquire several different browsers to test your pages because each browser might display page elements a little differently.

For beginners, though, Internet Explorer is a good choice because it's the most popular browser—the one your target audience is most likely to be using. Other popular browsers include Google Chrome, Firefox, Safari, and Opera.

**Caution** Versions of Internet Explorer prior to version 9 do not support some of the HTML5 features. You will probably want to test your Web pages in an earlier version to make sure that people who use them will be able to view your page. But don't use an earlier version of Internet Explorer as you work through this book's examples; you won't get the full effect of the new HTML5 features

**Tip** If the video card in your computer has two monitor connectors on it, or if you have an additional video card that you could install in your system, you might want to set up two monitors side-by-side. That way you could work on your HTML code in Notepad on one monitor and display the page full-screen in Internet Explorer in the other. All recent versions of Windows support at least two monitors, and some versions support even more.

In this exercise, you will display an HTML file in Internet Explorer. To see the displayed file and the underlying code at the same time, open the practice files from this exercise and the previous exercise in separate windows and arrange them so both are visible.



**SET UP** Use the *welcome* file from the previous exercise, or use the one in the practice file folder for this topic. The practice file is located in the Documents\ Microsoft Press\HTML5 SBS\01Editing folder.

#### 1. Select Start | Internet Explorer.

**Note** Depending on your system and your default browser, Internet Explorer might not be pinned to the top of your Start menu. If it is not, click Start | All Programs | Internet Explorer.

#### 2. Select File | Open.

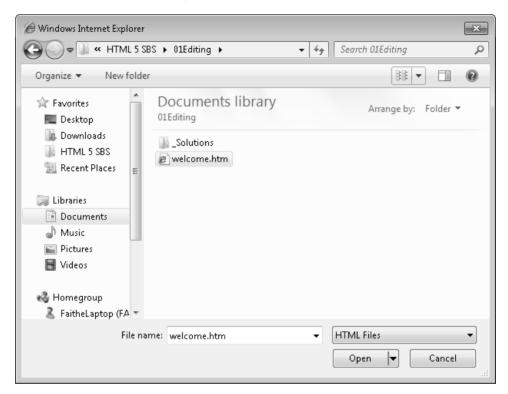
The Open dialog box appears.

Note If the menu bar does not appear in Internet Explorer, press the Alt key to display it.



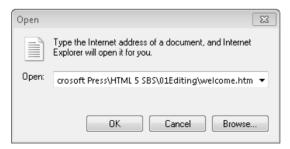
**3.** Click the **Browse** button, and then browse to Documents\Microsoft Press\HTML5 SBS\01Editing.

**Tip** If you created the shortcut in the Favorites bar earlier in the chapter, you can use it to save a few clicks when browsing for the location.



4. Click welcome.htm, and then click Open.

The path to the file appears in the Open dialog box.



5. Click OK.

The file opens in Internet Explorer.





#### CLEAN UP Leave Internet Explorer open for the next exercise.

The method you just learned works especially well when you already have your Web browser open, in which case you can skip step 1. An alternate method is to browse to the storage location by using Windows Explorer, and double-click the file. Remember that you can't just double-click a Web page to edit it; you must right-click it. By default, the double-click operation is reserved for opening the page in your Web browser. What was a hardship only a few pages ago is now a convenience!

**Tip** Not all Web browser software displays pages exactly the same way. For example, one browser's idea of what text should look like might be different from another. It's a good idea to check your pages in multiple Web browsers, such as Firefox, Chrome, and Opera. These are available as free downloads from <a href="https://www.firefox.com">www.firefox.com</a>, www.google.com/chrome, and <a href="https://www.opera.com">www.opera.com</a>, respectively.

#### Making, Saving, and Viewing Changes

After you've made a change to a Web page, you will probably want to preview the result of that change. If you set up your Internet Explorer and Notepad windows side by side in the preceding two exercises, it's easy to view those changes. Simply save your work in Notepad, and then refresh the display in Internet Explorer.

In this exercise, you will change "lowa" to "Indiana" in the welcome.htm file, and then preview that change in Internet Explorer. This exercise builds on the previous two, so make sure you have completed them. You can use this procedure throughout the rest of the book to preview your work from each exercise.



**SET UP** Be sure to have the *welcome* file open in Notepad and in Internet Explorer before beginning this exercise. Use the *welcome* file from the previous exercise, or use the one in the practice file folder for this topic. The practice file is located in the Documents\Microsoft Press\HTML5 SBS\01Editing folder.

1. In Notepad, locate the word *lowa*, and change it to **Indiana**, as shown in bold text in the following code:

Welcome to the Garden Company, located in the heart of Central Indiana.

- 2. Save your work (File | Save).
- On the Internet Explorer toolbar, click the Refresh button.Notice that the Web page shown in Internet Explorer now reads "Indiana," too.

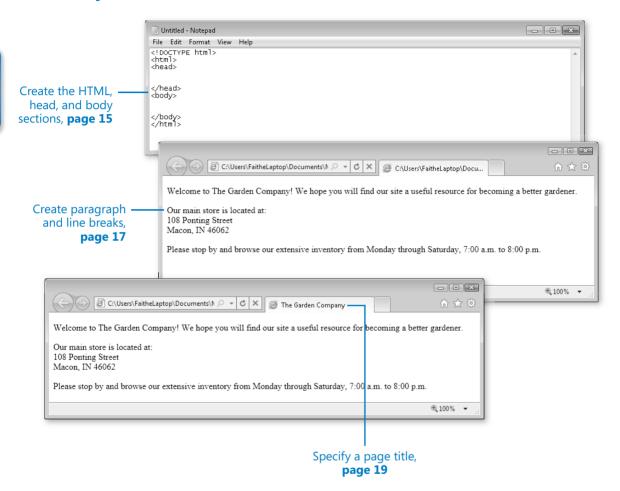


CLEAN UP Close the welcome file, and then exit Notepad and Internet Explorer.

#### **Key Points**

- Any plain text editor, including Notepad, can be an HTML editor.
- Most Web pages have an .htm or .html extension. You can open them in Notepad, but first you need to change the Files Of Type setting in the Open dialog box to All Files. You must change this setting each time you use the Open dialog box.
- An alternative way to open a Web page in Notepad is to right-click it in Windows Explorer, select Open With from the contextual menu, and then click Notepad.
- To preview a page in a Web browser, select File | Open from the browser's menu.
- You can double-click an .htm or .html file in Windows Explorer to open it automatically in your default Web browser.
- To see changes you make in Notepad reflected in your Web browser, save your work in Notepad, and then click Refresh in the browser window.

# Chapter at a Glance



# 2 Setting Up the Document Structure

#### In this chapter, you will learn how to

- Specify the document type.
- Create the HTML, Head, and Body sections.
- Create paragraphs and line breaks.
- Specify a page title and keywords.
- Publish a file to a server.

Every society needs an infrastructure with certain rules that everyone agrees to for the general public good. For example, we have all agreed that a red light means "stop" and a green light means "go." Everyone who wants to participate in the transportation system must play by those rules, or chaos ensues.

HTML is the same way. You can get creative with your Web content, but there must be an underlying structure in place for Web browsers to read and render your Web pages properly. That means the document must contain certain tags that delineate its major sections and indicate to the browser what type of coding the document uses.

In this chapter, you'll learn how to structure a document with the correct underlying tags. You'll learn how to specify the type of HTML you are writing and how to create Head and Body sections. You'll also learn how to create paragraph and line breaks, specify a page title, enter hidden keywords by which your page can be found in search engines, and publish a test page to a Web server.

**See Also** Do you need only a quick refresher on the topics in this chapter? See the Key Points section at the end of this chapter.

**Practice Files** Before you can use the practice files provided for this chapter, you need to download and install them from the book's companion content location. See "Using the Practice Files" at the beginning of this book for more information.

#### **Specifying the Document Type**

When creating an HTML5 document, the first line of the document should be this tag:

<!DOCTYPE html>

The *DOCTYPE* tag always begins with an exclamation point and is always placed at the beginning of the document, before any other tag. Most HTML tags are not case-sensitive, but the word *DOCTYPE* should always be uppercase.

Using the *DOCTYPE* tag is like signing a contract. It is an optional tag, but when you use it, you are promising that your coding will conform to certain standards. When a Web browser encounters a *DOCTYPE* tag, it processes the page in *standards mode*. When it doesn't encounter the *DOCTYPE* tag, it assumes that there is something quirky about the page, and processes the page in *quirks mode*. When the browser sees the tag <!DOC-TYPE html>, it assumes you are using HTML5.

The distinction between standards mode and quirks mode came about in earlier days, when there were problems with standardization between Web browsers. In some browsers, to display pages properly, you needed to get a little creative with the HTML code. Modern HTML coding does not allow that, but some older pages still include these obsolete workarounds. By using the *DOCTYPE* tag, you are making a promise to the Web browser that there is nothing but pure HTML code in the page.

Earlier versions of HTML used more complex *DOCTYPE* tags. If you're using HTML Version 4.01, the syntax for the tag is:

```
<!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML 4.01 Transitional//EN"
   "http://www.w3.org/TR/html4/loose.dtd">
```

If you're using XHTML, the syntax for the tag is:

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

**Note** If you are writing XHTML code, the *DOCTYPE* tag is required.

#### **Creating the HTML, Head, and Body Sections**

All of your HTML coding—except the *DOCTYPE* tag—should be placed within the two-sided <*html*> tag. Recall from the Introduction that when a tag is two-sided, it requires a corresponding closing tag that is identical to the opening tag but contains a slash: <*/html*>. The tags <*html*> and <*/html*> serve as a "wrapper" around all the other tags in the document.

In addition, your document should have two sections: a Head and a Body. The *Head* section is defined by the two-sided tag <head>. The Head section contains the page title, which is the text that will appear in the title bar of the Web browser and on the Microsoft Windows taskbar button. It also includes information about the document that is not displayed, such as its <meta> tags (which you'll learn about on page 19). You can also include lines of code that run scripts, like Javascript.

The *Body* section is defined by the two-sided tag *<body>*, and it contains all the information that appears in the Web browser when you view the page.

Note The <html>, <head>, and <body> tags are all optional in HTML—but you should still use them because it's a good design practice. They are required in XHTML. In addition, in XHTML you must add an argument to the <html> tag that declares its XML namespace, a reference to the fact that XHTML is created within XML (as you learned in Chapter 1, "Editing and Viewing HTML Files"). Here's how the opening <html> tag should look in an XHTML document: <html xlmns="http://www.w3.org/1999/xhtml">.

In this exercise, you will create an HTML5 template file that you can reuse later for your own work.



**SET UP** Start Microsoft Notepad before beginning this exercise.

1. In Notepad, open the **Format** menu. **Word Wrap** should have a check mark next to it. If it does not, click it to enable the Word Wrap feature.

Tip Using Word Wrap makes it easier to see long lines of HTML coding without scrolling.



2. In the Notepad window, type the following:

```
<!DOCTYPE html>
```

3. Press Enter, and then type:

```
<html>
<head>
```

4. Press Enter two or three times to add some blank lines, and then type:

```
</head>
<body>
```

5. Press Enter two or three times to add some blank lines, and then type:

```
</body>
</html>
```



6. Save the file as HTML5.htm on your Windows desktop (or to any other location that is convenient for you).

Note Most of the files you work with in this book will be stored elsewhere, but you might find it helpful to keep the templates created in this exercise handy for reuse. The desktop is a convenient place to store them, or you can store them anywhere you like.



#### CLEAN UP Close the Notepad window.

You now have a template for creating any HTML documents you like. You can reopen this template file and save it under different names, which will save time re-creating these basic tags.

Tip If you want to avoid accidentally editing the template in the future, make it read-only. To do so, in Windows Explorer, right-click the file, and then select Properties from the contextual menu. In the Properties dialog box, select the Read-Only check box. When you try to save changes to a read-only file, an error message appears and a Save As dialog box prompts you to save a copy of it with a new name.

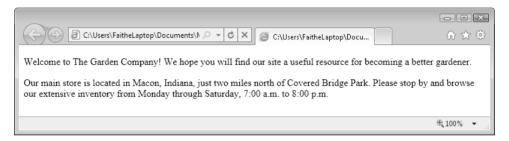
#### **Creating Paragraphs and Line Breaks**

Within the *<body>* section of the document, you type the text that will appear on the Web page. Each paragraph of text should be enclosed in a two-sided tag that indicates its type.

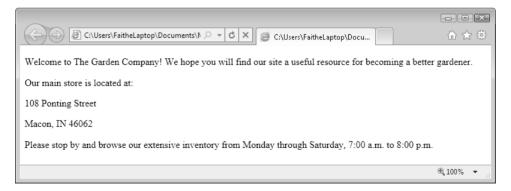
The most basic paragraph type is the body paragraph, indicated by the  $\langle p \rangle$  tag. It is a two-sided tag, so the paragraph text is placed between a  $\langle p \rangle$  and a  $\langle p \rangle$ .

**Note** In HTML, the code will still work even if the is omitted; in XHTML, it won't. However, even if you never plan on coding in XHTML, it is a good practice to include the tag. This way, you won't fall into any sloppy habits.

When a browser displays a Web page, it inserts vertical white space between paragraphs:



That spacing is usually convenient, but it can be a problem when the extra space between lines is unwanted, such as with an address.



To create a line break without officially starting a new paragraph (and thereby adding that extra white space), use the  $\langle br \rangle$  tag. This is a one-sided tag placed within a paragraph, at the end of each line, like this:

Oavid Jaffe<br>317-555-8882

**Note** In XHTML, the line break tag is  $\langle br \rangle$ . The end slash (and the space) is necessary to indicate that it's a self-closing tag. Notice that the slash is placed after the letters, not before, as with the closing end of a two-sided tag. In XHTML, one-sided tags must end with a slash to indicate that they are self-closing. The space between the text and the final slash is also required so the tag will be recognized in HTML.

In this exercise, you will add text to an HTML file template, and then preview it in Microsoft Internet Explorer.



**SET UP** Use the *HTML5.htm* file from the previous exercise or in the practice file folder for this topic. This practice file is located in the Documents\Microsoft Press\ HTML5 SBS\02Structure\CreatingParagraphs folder. Open the HTML5 file in Notepad.

 Save the HTMI 5 file in the Documents\Microsoft Press\HTMI 5 SBS folder as index.htm

Note It is customary to name the opening page of a Web site index.htm, index.html, default.htm, or default.html. When users type a URL in their Web browsers but omit the file name (for example, typing www.microsoft.com rather than www.microsoft.com/ filename.htm), most servers will automatically respond with the index or default page if one exists.

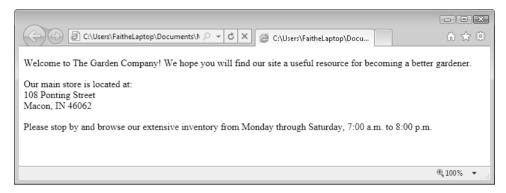
2. Open the *index* file in Internet Explorer and arrange the Notepad and Internet Explorer windows so that both are visible.

The index file displayed in Internet Explorer is currently blank.

In the Notepad window, type the following between the <body> and </body> tags:

Welcome to The Garden Company! We hope you will find our site a useful resource for becoming a better gardener. Our main store is located at:<br> 108 Ponting Street<br> Macon, IN 46062 Please stop by and browse our extensive inventory from Monday through Saturday, 7:00 a.m. to 8:00 p.m.

**4.** Save your work, and then press **F5** or click the **Refresh** button at the right side of the Address bar to refresh the display in Internet Explorer to see the result of the changes. Leave both windows open for the next exercise.



**Note** Your screen might look slightly different, depending on the settings you have configured in your browser.



CLEAN UP Close the Notepad and Internet Explorer windows.

#### **Specifying a Page Title and Metatags**

Perhaps you noticed in the preceding exercise that the complete path to the file appeared in the title bar of Internet Explorer. Usually when you view a Web page, a friendly, descriptive title appears in that spot instead. That text is specified by a <title> tag that is placed in the <head> section (also called the header). Here's an example:

```
<head>
<title>The Garden Company</title>
</head>
```

**Troubleshooting** Make sure you place the *<title>* tag in the *<head>* section, and not in the *<body>* section.

Another element you can place in the header is the *meta* tag. The *meta* tag has several purposes. One of these is to identify keywords related to your page. Placing appropriate keywords on your page can make it easier for people to find your page when they are searching the Web using a search engine such as MSN. When some search engines index your page, they rely not only on the full text of the page, but also on any keywords they find in the *meta* tag area.

**Note** Not all search engines refer to <meta> tags. Google does not, for example; it indexes only the text contained in the <body> area. Because of the potential for abuse of the system, such as Web developers packing their pages with unrelated keywords, fewer and fewer search engines these days are using them.

For example, suppose The Garden Company's Web site would be useful to people who are searching for information about all types of gardening problems, such as pests, weeds, and fungus, and about growing flowers and vegetables. Perhaps all these topics are not mentioned on the main page, but you want people who search for those words to be directed to the main page anyway. You could place the following in the <head> section:

<meta name="keywords" content="pests, weeds, fungus, plants, flowers,
vegetables">

Notice that the <meta> tag in the above code is a single-sided tag that contains two attributes: name and content. The values for each of those arguments follow the equals sign and are contained in double quotation marks.

**Note** If you are coding in XHTML, you would add a space and a slash (/) at the end of a < meta > tag because it is a one-sided (self-closing) tag. This is not necessary in HTML.

The <meta> tag can also be used to redirect visitors to another page. For example, suppose you told everyone the address of your Web site, and then you needed to move it to another URL. You could place a "We've Moved" page at the original address and use the <meta> tag to redirect users to the new address after five seconds, like this:

<meta http-equiv="refresh" content="5; url=http://www.contoso.com/newpage.htm">

Here's yet another common use: the <meta> tag can specify a character encoding scheme. This is not a big issue if you are coding only in English (or in a language like English that uses a Roman character set), but it is considered a tidy coding practice to include anyway. If you want, you can add <meta charset="utf-8"> to the <head> section of your document to explicitly spell out that your page is in English.

In this exercise, you will add a page title and some keywords to the index.htm page you created in the preceding exercise.



**SET UP** Use the *index.htm* file from the previous exercise or in the practice file folder for this topic. This practice file is located in the Documents\Microsoft Press\HTML5 SBS\02Structure\SpecifyingTitle folder. Open the *index* file in Notepad.

- Between the <head> and </head> tags, type the following to create the page title:
   <title>The Garden Company</title>
- 3. Press Enter to start a new line, and type the following < meta > tag:
  <meta encoding="utf-8">
- **4.** Save your work, and then view the file in Internet Explorer.

  The tab displays the site name, but notice that the inclusion of the <meta> tags caused no apparent difference in the displayed text of the page. This is because the keywords and encoding specification do not appear on the Web page itself.





**CLEAN UP** Close the Notepad and Internet Explorer windows.

#### **Publishing a File to a Server**

Throughout most of this book's exercises, you will save pages to your own hard drive. That way they don't get into the public's hands before they are completed. When a page is finalized, however, you will want to transfer it to a publicly accessible Web server (that is, to publish it) so that others can view it.

There are several ways to transfer files to a server. The company or individual in charge of the server should be able to advise you about your options. Here are some of the possibilities that might be available:

- Uploading through an FTP connection by using Internet Explorer. You do this by entering the address of an FTP server (which will start with ftp://) in the Address bar of Internet Explorer. A dialog box prompts you for your user name and password for that server. If you enter those correctly, a Windows Explorer-like file-management window appears, just as though you were browsing any folder on your hard disk. You can then transfer the files by dragging them into that window, or copying them and pasting them into the FTP window.
- **Uploading through an FTP connection by using FTP software.** There are many third-party FTP applications available that make it simple to transfer files. These utilities have some advantages over the Internet Explorer transfer method, such as the ability to restart uploads that are interrupted due to communication errors. Some examples include FileZilla (*www.filezilla-project.org*) and BulletProof FTP (*www.bpftp.com*).
- Saving directly to a Web folder. Most Web development tools, such as Microsoft Expression Web, let you to save directly to a Web server by typing the URL of the site into the Save As dialog box. That's very convenient! Unfortunately, you can't do that in Notepad,.

This book doesn't include an exercise for practicing transferring files to a server because the process details differ depending on many factors, including the site you are saving to, the availability of FTP software, and the version of Windows you are using. If you have questions about how to upload your files, ask the network administrator or tech support staff for advice.

#### **Key Points**

- To specify HTML5 as the document type, add <!DOCTYPE html> at the beginning
  of the file.
- All the HTML coding in a document (except the DOCTYPE) is enclosed within a two-sided <html> tag.
- The <html> and </html> tags enclose the <head> and <body> sections.
- The <head> area contains the page title (<title>) and any <meta> tags. The
   <body> area contains all the displayable text for the page.
- Enclose each paragraph in a two-sided  $\langle p \rangle$  tag. Most browsers add space between paragraphs when displaying the page.
- To create a line break without starting a new paragraph, use the one-sided  $\langle br \rangle$  tag.
- When coding for XHTML, end one-sided tags with a space and a slash (/). The space is required for recognition in HTML, and the slash is necessary for recognition in XHTML.
- Use < meta > tags in the < head > section to indicate keywords and the document encoding language.
- Use the < title > and < /title > tags to enclose the text that should appear in the browser's title bar. Place these in the < head > section of the file.
- To publish pages directly to a server, you can use an FTP utility or the FTP capability built into Windows, or (with some tools) you can save files directly to a server.
   However, Notepad does not offer this capability.

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