Julie C. Meloni



Sams Teach Yourself

# HTML and CSS



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# Sams Teach Yourself

# HTML and CSS



Ninth Edition

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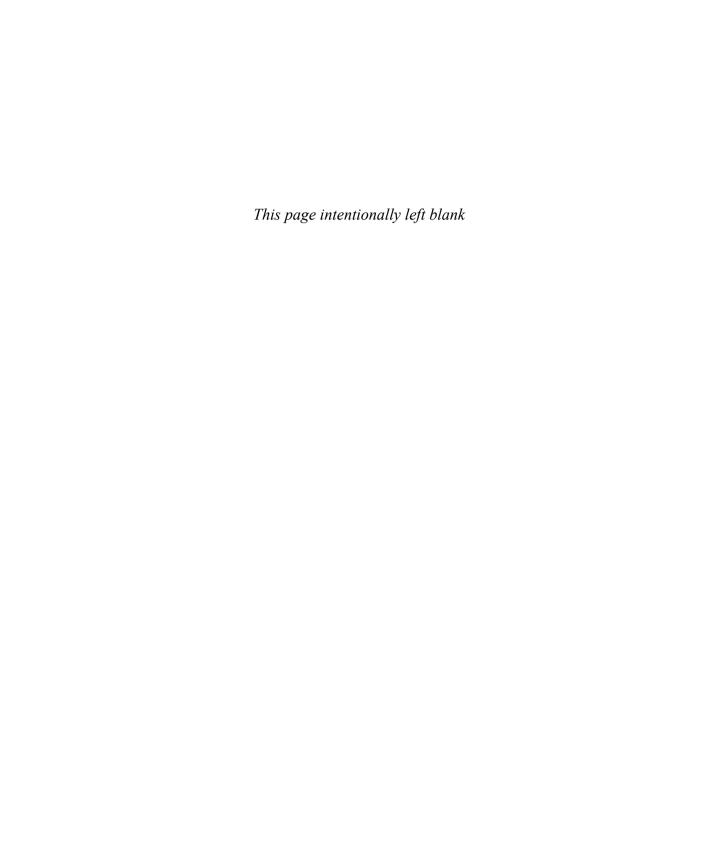
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# Introduction

In 2012, more than 2.8 billion people had access to the Internet, including 255 million people in the United States alone. Throw in 567 million Chinese users, 69 million German users, 54 million British users, 76 million Russian users, and 99 million Brazilians, and you can see the meaning of the word world in the term World Wide Web. Many of these Internet users are also creating content for the web—you can be one of them! Although accurate measurements of the total number of web pages are difficult to come by, Google surpassed the 1 trillion mark of indexed pages in the middle of 2008.

In the next 24 hours, hundreds of millions of new pages will appear in accessible areas of the Internet. At least as many pages will be placed on private intranets, where they will be viewed by businesspeople connected via their local networks. Every one of those pages—like the billions of pages already online—will use Hypertext Markup Language (HTML).

As you complete the 24 one-hour lessons in this book, your web pages will be among those that appear on the Internet. These lessons also provide you with a foundation for developing one of the most valuable skills in the world today: mastery of HTML.

Can you really learn to create top-quality web pages yourself, without any specialized software, in less time than it takes to schedule and wait for an appointment with a highly paid design consultant? Can this relatively short, easy-to-read book really enable you to teach yourself state-of-the-art techniques for developing and publishing web content?

Yes. In fact, within the first two lessons in this book, someone with no previous HTML experience at all can have a web page ready to go online.

How can you learn the language of the web so quickly? By example. This book organizes lessons on the basics of HTML and CSS into simple steps and then shows you exactly how to tackle each step. Many of these HTML code examples are accompanied by pictures of the output produced by the code. You see how it's done, you read a clear and concise explanation of how it works, and then you immediately do the same thing with your own page. A few minutes later, you're on to the next step.

Soon you'll be marveling at your own impressive pages on the Internet.

## **Beyond HTML**

This book covers more than just HTML because HTML isn't the only thing you need to know to create web content today. The goal of this book is to give you a solid foundation in the skills you need to create a modern, standards-compliant website in just 24 short, easy lessons. This book covers the following key skills and technologies:

- ► HTML5 is the most current recommendation for web page creation. Every example in this book is validated HTML5.
- ▶ All the examples in the book have been tested for compatibility with the latest version of every major web browser. That includes Apple Safari, Google Chrome, Microsoft Internet Explorer, Mozilla Firefox, and Opera. You'll learn from the start to be compatible with the past, yet ready for the future.
- ▶ The book has extensive coverage of the most current recommendation of Cascading Style Sheets (CSS), which allows you to carefully control the layout, fonts, colors, and formatting of every aspect of your web pages, including both text and images. When it comes to creating eye-popping web pages, CSS goes far beyond what traditional HTML pages could do by themselves.
- ▶ The technical stuff is not enough, so this book also includes the advice you need when setting up a website to achieve your goals. Key details—designing an effective page layout, posting your page to the Internet with FTP software, organizing and managing multiple pages, and getting your pages to appear high on the query lists at all the major Internet search sites—are all covered in enough depth to get you beyond the snags that often frustrate beginners.

Attention to many of these essentials are what made the first eight editions of this book bestsellers, and this updated edition is no different. All the examples have been updated, and significant portions of the content have been revised to match new examples and new technologies, fully embracing HTML5 and CSS3.

## Visual Examples

Every example in this book is illustrated in two parts:

- ▶ The text you type to make an HTML page is shown first, with all HTML and CSS code highlighted.
- ▶ The resulting web page is shown as it will appear to users who view it with the world's most popular web browsers.

You'll often be able to adapt the example to your own pages without reading any of the accompanying text at all (although it is highly recommended that you read the rest of the text!).

All the examples in this book are standards compliant and work with Apple Safari, Google Chrome, Microsoft Internet Explorer, Mozilla Firefox, and Opera. Although all the screenshots were taken in Chrome, rest assured that all the code has been tested in all other browsers.

You will also find colors used within code examples and references to elements of code in the explanatory text. These colors highlight the different bits and pieces of code, both to enhance your familiarity with them and to call attention to their use.

- ▶ HTML tags appear in dark blue.
- ▶ HTML comments appear in grey.
- ► CSS elements appear in green.
- ▶ HTML attribute names appear in light blue.
- ► HTML attribute values appear in magenta.

Please note that the color of an item can change, depending on its context. For instance, when CSS elements are used within the style attribute of an HTML tag, they are color-coded as HTML attribute values (magenta) instead of CSS elements (green).

# **Special Elements**

As you complete each lesson, margin notes help you immediately apply what you just learned to your own web pages.

Whenever a new term is used, it is clearly highlighted. No flipping back and forth to a glossary!

TI	P	Ν	10	)	Т	F	=	(	C	А	[]	Τ	10	7	Ν	J

Tips and tricks to save you precious time are set aside in "Tip" boxes so that you can spot them quickly.

Note boxes highlight interesting information you should be sure not to miss.

When you need to watch out for something, you're warned about it in Caution boxes.

# **Q&A, Quiz, and Exercises**

Every hour ends with a short question-and-answer session that addresses the kind of "dumb questions" everyone wishes they dared to ask. A brief but complete quiz lets you test yourself to be sure you understand everything presented in the hour. Finally, one or two optional exercises give you a chance to practice your new skills before you move on.

# HOUR 3

# Understanding Cascading Style Sheets

In the previous hour, you learned the basics of HTML, including how to set up a skeletal HTML template for all your web content. In this hour, you learn how to fine-tune the display of your web content using Cascading Style Sheets (CSS).

The concept behind stylesheets is simple: You create a stylesheet document that specifies the fonts, colors, spacing, and other characteristics that establish a unique look for a website. You then link every page that should have that look to the stylesheet instead of specifying all those styles repeatedly in each separate document. Therefore, when you decide to change your official corporate typeface or color scheme, you can modify all your web pages at once just by changing one or two entries in your stylesheet—you don't have to change them in all your static web files. So a *stylesheet* is a grouping of formatting instructions that control the appearance of several HTML pages at once.

Stylesheets enable you to set a great number of formatting characteristics, including exact typeface controls, letter and line spacing, and margins and page borders, just to name a few. Stylesheets also enable you to specify sizes and other measurements in familiar units, such as inches, millimeters, points, and picas. In addition, you can use stylesheets to precisely position graphics and text anywhere on a web page, either at specific coordinates or relative to other items on the page.

In short, stylesheets bring a sophisticated level of display to the web. And they do so, if you'll pardon the expression, with style.

# WHAT YOU'LL LEARN IN THIS HOUR:

- ► How to create a basic stylesheet
- ► How to use style classes
- ► How to use style IDs
- ► How to construct internal stylesheets and inline styles

#### NOTE

If you have three or more web pages that share (or should share) similar formatting and fonts, you might want to create a stylesheet for them as you read this hour. Even if you choose not to create a complete stylesheet, you'll find it helpful to apply styles to individual HTML elements directly within a web page.

#### NOTE

You might notice that I use the term *element* a fair amount in this hour (and I do in the rest of the book, for that matter). An *element* is simply a piece of information (content) in a web page, such as an image, a paragraph, or a link. Tags are used to mark up elements, and you can think of an element as a tag, complete with descriptive information (attributes, text, images, and so on) within the tag.

#### **How CSS Works**

The technology behind stylesheets is called CSS, or Cascading Style Sheets. CSS is a language that defines style constructs such as fonts, colors, and positioning, which describe how information on a web page is formatted and displayed. CSS styles can be stored directly in an HTML web page or in a separate stylesheet file. Either way, stylesheets contain style rules that apply styles to elements of a given type. When used externally, stylesheet rules are placed in an external stylesheet document with the file extension .css.

A *style rule* is a formatting instruction that can be applied to an element on a web page, such as a paragraph of text or a link. Style rules consist of one or more style properties and their associated values. An *internal stylesheet* is placed directly within a web page, whereas an *external stylesheet* exists in a separate document and is simply linked to a web page via a special tag—more on this tag in a moment.

The cascading part of the name CSS refers to the manner in which stylesheet rules are applied to elements in an HTML document. More specifically, styles in a CSS stylesheet form a hierarchy in which more specific styles override more general styles. It is the responsibility of CSS to determine the precedence of style rules according to this hierarchy, which establishes a cascading effect. If that sounds a bit confusing, just think of the cascading mechanism in CSS as being similar to genetic inheritance, in which general traits are passed from parents to a child, but more specific traits are entirely unique to the child. Base style rules are applied throughout a stylesheet but can be overridden by more specific style rules.

A quick example should clear things up. Take a look at the following code to see whether you can tell what's going on with the color of the text:

```
<div style="color:green">
This text is green.
  This text is blue.
  This text is still green.
</div>
```

In the previous example, the color green is applied to the <code><div></code> tag via the <code>color</code> style property. Therefore, the text in the <code><div></code> tag is colored green. Because both <code></code> tags are children of the <code><div></code> tag, the green text style cascades down to them. However, the first <code></code> tag overrides

the color style and changes it to blue. The end result is that the first line (not surrounded by a paragraph tag) is green, the first official paragraph is blue, and the second official paragraph retains the cascaded green color.

If you made it through that description on your own and came out on the other end unscathed, congratulations—that's half the battle. Understanding CSS isn't like understanding rocket science, and the more you practice, the more it will become clear. The real trick is developing the aesthetic design sense that you can then apply to your online presence through CSS.

Like many web technologies, CSS has evolved over the years. The original version of CSS, known as *Cascading Style Sheets Level 1* (*CSS1*), was created in 1996. The later CSS 2 standard was created in 1998, and CSS 2 is still in use today; all modern web browsers support CSS 2. The latest version of CSS is CSS3, which builds on the strong foundation laid by its predecessors but adds advanced functionality to enhance the online experience. Throughout this book, you learn core CSS, including new elements of CSS3 that are applicable to the basic design and functionality that this text covers. So when I talk about CSS throughout the book, I'm referring to CSS3.

You'll find a complete reference guide to CSS at http://www.w3.org/ Style/CSS/. The rest of this hour explains the basics of putting CSS to good use.

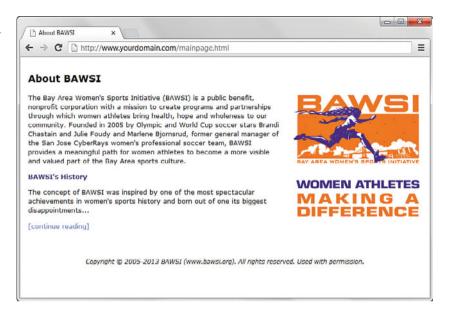
# **A Basic Stylesheet**

Despite their intimidating power, stylesheets can be simple to create. Consider the web pages shown in Figures 3.1 and 3.2. These pages share several visual properties that can be put into a common stylesheet:

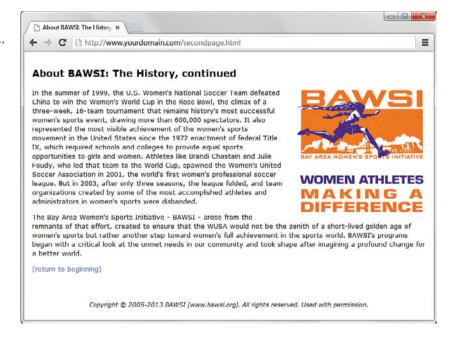
- ► They use a large, bold Verdana font for the headings and a normal-size and -weight Verdana font for the body text.
- ▶ They use an image named logo.gif floating within the content and on the right side of the page.
- ▶ All text is black except for subheadings, which are purple.
- ▶ They have margins on the left side and at the top.
- $\blacktriangleright$  They include vertical space between lines of text.
- ▶ They include a footer that is centered and in small print.

#### FIGURE 3.1

This page uses a stylesheet to finetune the appearance and spacing of the text and images.



# FIGURE 3.2 This page uses the same stylesheet as the one in Figure 3.1, thus maintaining a consistent look and feel.



# Listing 3.1 shows the CSS used in a stylesheet to specify these properties.

#### LISTING 3.1 A Single External Stylesheet

```
body {
  font-size: 10pt;
  font-family: Verdana, Geneva, Arial, Helvetica, sans-serif;
  color: black;
 line-height: 14pt;
  padding-left: 5pt;
  padding-right: 5pt;
  padding-top: 5pt;
h1 {
  font: 14pt Verdana, Geneva, Arial, Helvetica, sans-serif;
  font-weight: bold;
  line-height: 20pt;
p.subheader {
 font-weight: bold;
  color: #593d87;
img {
  padding: 3pt;
  float: right;
  text-decoration: none;
a:link, a:visited {
  color: #8094d6;
a:hover, a:active {
  color: #FF9933;
footer {
  font-size: 9pt;
  font-style: italic;
  line-height: 12pt;
  text-align: center;
  padding-top: 30pt;
```

This might initially appear to be a lot of code, but if you look closely, you'll see that there isn't a lot of information on each line of code. It's fairly standard to place individual style rules on their own line, to help make style sheets more readable, but that is a personal preference; you could put all the rules on one line as long as you kept using the semicolon to separate each rule (more on that in a bit). Speaking of code readability, perhaps the first thing you noticed about this stylesheet code is that it doesn't look anything like normal HTML code. CSS uses a syntax all its own to specify stylesheets.

Of course, the listing includes some familiar HTML tags (although not all tags require an entry in the stylesheet). As you might guess, body, hl, p, img, a, and footer in the stylesheet refer to the corresponding tags in the HTML documents to which the stylesheet will be applied. The curly braces after each tag name describe how all content within that tag should appear.

In this case, the stylesheet says that all body text should be rendered at a size of 10 points, in the Verdana font (if possible), and with the color black, with 14 points between lines. If the user does not have the Verdana font installed, the list of fonts in the stylesheet represents the order in which the browser should search for fonts to use: Geneva, then Arial, and then Helvetica. If the user has none of those fonts, the browser will use whatever default sans serif font is available. Additionally, the page should have left, right, and top padding of 5 points each.

Any text within an <code><hl> tag</code> should be rendered in boldface Verdana at a size of 14 points. Moving on, any paragraph that uses only the <code> tag</code> will inherit all the styles indicated by the body element. However, if the <code> tag</code> uses a special class named <code>subheader</code>, the text will appear bold and in the color #593d87 (a purple color).

The pt after each measurement in Listing 3.1 means *points* (there are 72 points in an inch). If you prefer, you can specify any stylesheet measurement in inches (in), centimeters (cm), pixels (px), or "widths of a letter m," which are called ems (em).

You might have noticed that each style rule in the listing ends with a semicolon (;). Semicolons are used to separate style rules from each other. It is therefore customary to end each style rule with a semicolon so that you can easily add another style rule after it. Review the remainder of the stylesheet in Listing 3.1 to see the presentation

formatting applied to additional tags. Don't worry—you'll learn more about each of these types of entries throughout the lessons in this book.

To link this stylesheet to HTML documents, include a <code>/></code> tag in the <code><head></code> section of each document. Listing 3.2 shows the HTML code for the page shown in Figure 3.1. It contains the following <code>| /></code> tag:

```
<link rel="stylesheet" type="text/css" href="styles.css" />
```

This assumes that the stylesheet is stored under the name <code>styles.css</code> in the same folder as the HTML document. As long as the web browser supports stylesheets—and all modern browsers do—the properties specified in the style sheet will apply to the content in the page without the need for any special HTML formatting code. This meets one of the goals of HTML, which is to provide a separation between the content in a web page and the specific formatting required to display that content.

#### LISTING 3.2 HTML Code for the Page Shown in Figure 3.1

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <title>About BAWSI</title>
   <link rel="stylesheet" type="text/css" href="styles.css" />
 </head>
 <body>
    <section>
    <header>
    <h1>About BAWSI</h1>
    </header>
    <img src="logo.gif" alt="BAWSI logo"/>The Bay Area Women's
    Sports Initiative (BAWSI) is a public benefit, nonprofit
    corporation with a mission to create programs and partnerships
    through which women athletes bring health, hope and wholeness to
    our community. Founded in 2005 by Olympic and World Cup soccer
    stars Brandi Chastain and Julie Foudy and Marlene Bjornsrud,
    former general manager of the San Jose CyberRays women's
    professional soccer team, BAWSI provides a meaningful path for
    women athletes to become a more visible and valued part of the
    Bay Area sports culture.
    BAWSI's History
```

#### NOTE

You can specify font sizes as large as you like with stylesheets, although some display devices and printers will not correctly handle fonts larger than 200 points.

#### TIP

In most web browsers, you can view the style rules in a stylesheet by opening the .css file and choosing Notepad or another text editor as the helper application to view the file. (To determine the name of the .css file, look at the HTML source of any web page that links to it.) To edit your own stylesheets, just use a text editor.

#### NOTE

Not every browser's support of CSS is flawless. To find out how major browsers compare to each other in terms of CSS support, take a look at this website: http://www.quirksmode.org/css/contents.html.

#### TRY IT YOURSELF

# **Create a Stylesheet** of Your Own

The concept of BAWSI was inspired by one of the most
 spectacular achievements in women's sports history and born out
 of one its biggest disappointments... 
<q>><a href="secondpage.html">[continue reading]</a>
</section>

<footer>
 Copyright &copy; 2005-2013 BAWSI (www.bawsi.org).
 All rights reserved. Used with permission.
 </footer>
 </body>
</html>

The code in Listing 3.2 is interesting because it contains no formatting of any kind. In other words, nothing in the HTML code dictates how the text and images are to be displayed—no colors, no fonts, nothing. Yet the page is carefully formatted and rendered to the screen, thanks to the link to the external stylesheet, styles.css. The real benefit to this approach is that you can easily create a site with multiple pages that maintains a consistent look and feel. And you have the benefit of isolating the visual style of the page to a single document (the stylesheet) so that one change impacts all pages.

Starting from scratch, create a new text document called <code>mystyles.css</code> and add some style rules for the following basic HTML tags:  ${\tt <body>, , <h1>,}$  and  ${\tt <h2>}$ . After creating your stylesheet, make a new HTML file that contains these basic tags. Play around with different style rules, and see for yourself how simple it is to change entire blocks of text in paragraphs with one simple change in a stylesheet file.

# A CSS Style Primer

You now have a basic knowledge of CSS stylesheets and how they are based on style rules that describe the appearance of information in web pages. The next few sections of this hour provide a quick overview of some of the most important style properties and allow you to get started using CSS in your own stylesheets.

CSS includes various style properties that are used to control fonts, colors, alignment, and margins, to name just a few. The style properties in CSS can be generally grouped into two major categories:

- ▶ Layout properties, which consist of properties that affect the positioning of elements on a web page, such as margins, padding, and alignment.
- ▶ Formatting properties, which consist of properties that affect the visual display of elements within a website, such as the font type, size, and color.

#### **Basic Layout Properties**

CSS layout properties determine how content is placed on a web page. One of the most important layout properties is the display property, which describes how an element is displayed with respect to other elements. The display property has four basic values:

- ▶ block—The element is displayed on a new line, as in a new paragraph.
- ▶ list-item—The element is displayed on a new line with a list-item mark (bullet) next to it.
- ▶ inline—The element is displayed inline with the current paragraph.
- ▶ none—The element is not displayed; it is hidden.

Understanding the <code>display</code> property is easier if you visualize each element on a web page occupying a rectangular area when displayed—the <code>display</code> property controls the manner in which this rectangular area is displayed. For example, the <code>block</code> value results in the element being placed on a new line by itself, whereas the <code>inline</code> value places the element next to the content just before it. The <code>display</code> property is one of the few style properties that can be applied in most style rules. Following is an example of how to set the <code>display</code> property:

display:block;

You control the size of the rectangular area for an element with the width and height properties. As with many size-related CSS properties, width and height property values can be specified in several different units of measurement:

- ▶ in—Inches
- ▶ cm—Centimeters

#### NOTE

The display property relies on a concept known as relative positioning, which means that elements are positioned relative to the location of other elements on a page. CSS also supports absolute positioning, which enables you to place an element at an exact location on a page, independent of other elements. You'll learn more about both of these types of positioning in Hour 14, "Understanding the CSS Box Model and Positioning."

- ▶ mm—Millimeters
- ▶ %—Percentage
- ▶ px—Pixels
- ▶ pt—Points

You can mix and match units however you choose within a stylesheet, but it's generally a good idea to be consistent across a set of similar style properties. For example, you might want to stick with points for font properties and pixels for dimensions. Following is an example of setting the width of an element using pixel units:

width: 200px;

#### **Basic Formatting Properties**

CSS formatting properties to control the appearance of content on a web page, as opposed to controlling the physical positioning of the content. One of the most popular formatting properties is the border property, which establishes a visible boundary around an element with a box or partial box. Note that a border is always present in that space is always left for it, but the border does not appear in a way that you can see unless you give it properties that make it visible (like a color). The following border properties provide a means of describing the borders of an element:

- ▶ border-width—The width of the border edge
- ▶ border-color—The color of the border edge
- ▶ border-style—The style of the border edge
- ▶ border-left—The left side of the border
- ▶ border-right—The right side of the border
- ▶ border-top—The top of the border
- ▶ border-bottom—The bottom of the border
- ▶ border—All the border sides

The border-width property establishes the width of the border edge. It is often expressed in pixels, as the following code demonstrates:

border-width:5px;

Not surprisingly, the <code>border-color</code> and <code>border-style</code> properties set the border color and style. Following is an example of how these two properties are set:

```
border-color:blue;
border-style:dotted;
```

The border-style property can be set to any of the following basic values (you learn about some more advanced border tricks later in this book):

- ▶ solid—A single-line border
- ▶ double—A double-line border
- ▶ dashed—A dashed border
- ▶ dotted—A dotted border
- ▶ groove—A border with a groove appearance
- ▶ ridge—A border with a ridge appearance
- ▶ inset—A border with an inset appearance
- ▶ outset—A border with an outset appearance
- none—No border
- ▶ hidden—Effectively the same as none

The default value of the border-style property is none, which is why elements don't have a border *unless* you set the border property to a different style. Although solid is the most common border style, you will also see the other styles in use.

The border-left, border-right, border-top, and border-bottom properties enable you to set the border for each side of an element individually. If you want a border to appear the same on all four sides, you can use the single border property by itself, which expects the following styles separated by a space: border-width, border-style, and border-color. Following is an example of using the border property to set a border that consists of two (double) red lines that are a total of 10 pixels in width:

```
border:10px double red;
```

Whereas the color of an element's border is set with the border-color property, the color of the inner region of an element is set using the color and background-color properties. The color property sets the color

of text in an element (foreground), and the background-color property sets the color of the background behind the text. Following is an example of setting both color properties to predefined colors:

```
color:black;
background-color:orange;
```

You can also assign custom colors to these properties by specifying the colors in hexadecimal (covered in more detail in Hour 7, "Working with Colors and Borders") or as RGB (Red Green Blue) decimal values:

```
background-color:#999999;
color:rgb(0,0,255);
```

You can also control the alignment and indentation of web page content without too much trouble. This is accomplished with the text-align and text-indent properties, as the following code demonstrates:

```
text-align:center;
text-indent:12px;
```

When you have an element properly aligned and indented, you might be interested in setting its font. The following basic font properties set the various parameters associated with fonts (you'll learn about some more advanced font usage in Hour 6, "Working with Fonts"):

- ▶ font-family—The family of the font
- ▶ font-size—The size of the font
- ▶ font-style—The style of the font (normal or italic)
- ► font-weight—The weight of the font (normal, lighter, bold, bolder, and so on)

The <code>font-family</code> property specifies a prioritized list of font family names. A prioritized list is used instead of a single value to provide alternatives in case a font isn't available on a given system. The <code>font-size</code> property specifies the size of the font using a unit of measurement, usually points. Finally, the <code>font-style</code> property sets the style of the font, and the <code>font-weight</code> property sets the weight of the font. Following is an example of setting these font properties:

```
font-family: Arial, sans-serif;
font-size: 36pt;
font-style: italic;
font-weight: normal;
```

Now that you know a whole lot more about style properties and how they work, refer back at Listing 3.1 and see whether it makes a bit more sense. Here's a recap of the style properties used in that style sheet, which you can use as a guide for understanding how it works:

- ▶ font—Lets you set many font properties at once. You can specify a list of font names separated by commas; if the first is not available, the next is tried, and so on. You can also include the words bold and/or italic and a font size. Alternatively, you can set each of these font properties separately with font-family, font-size, font-weight, and font-style.
- ▶ line-height—Also known in the publishing world as *leading*. This sets the height of each line of text, usually in points.
- ▶ color—Sets the text color using the standard color names or hexadecimal color codes (see Hour 7 for more details).
- ▶ text-decoration—Useful for turning off link underlining—simply set it to none. The values of underline, italic, and line-through are also supported. Hour 8, "Using External and Internal Links," covers applying styles to links in more detail.
- ► text-align—Aligns text to the left, right, or center, along with justifying the text with a value of justify.
- ▶ padding—Adds padding to the left, right, top, and bottom of an element; this padding can be in measurement units or a percentage of the page width. Use padding-left and padding-right if you want to add padding to the left and right of the element independently. Use padding-top or padding-bottom to add padding to the top or bottom of the element, as appropriate. You learn more about these style properties in Hour 13, "Working with Margins, Padding, Alignment, and Floating," and Hour 14, "Understanding the CSS Box Model and Positioning."

# **Using Style Classes**

This is a "teach yourself" book, so you don't have to go to a single class to learn how to give your pages great style—although you do need to learn what a style class is. Whenever you want some of the text on your pages to look different from the other text, you can create what amounts to a custom-built HTML tag. Each type of specially formatted text you define is called a *style class*. A *style class* is a custom set of formatting specifications that can be applied to any element in a web page.

Before showing you a style class, I need to take a quick step back and clarify some CSS terminology. First off, a CSS *style property* is a specific style that you can assign a value, such as color or font-size. You associate a style property and its respective value with elements on a web page by using a selector. A *selector* is used to identify tags on a page to which you apply styles. Following is an example of a selector, a property, and a value all included in a basic style rule:

```
h1 { font: 36pt Courier; }
```

In this code, h1 is the selector, font is the style property, and 36pt courier is the value. The selector is important because it means that the font setting will be applied to all h1 elements in the web page. But maybe you want to differentiate between some of the h1 elements—what then? The answer lies in style classes.

Suppose you want two different kinds of <h1> headings for use in your documents. You create a style class for each one by putting the following CSS code in a stylesheet:

```
h1.silly { font: 36pt Comic Sans; }
h1.serious { font: 36pt Arial; }
```

Notice that these selectors include a period (.) after  ${\tt h1}$ , followed by a descriptive class name. To choose between the two style classes, use the  ${\tt class}$  attribute, like this:

```
<h1 class="silly">Marvin's Munchies Inc. </h1>
Text about Marvin's Munchies goes here.
```

#### Or you could use this:

```
<h1 class="serious">MMI Investor Information</h1>
Text for business investors goes here.
```

When referencing a style class in HTML code, simply specify the class name in the <code>class</code> attribute of an element. In the previous example, the words <code>Marvin's Munchies Inc.</code> would appear in a 36-point Comic Sans font, assuming that you included a <code><link /></code> to the stylesheet at the top of the web page and that the user has the Comic Sans font installed. The words <code>MMI Investor Information</code> would appear in the 36-point Arial font instead. You can see another example of classes in action in Listing 3.2: look for the <code>subheader class</code>.

What if you want to create a style class that can be applied to any element instead of just headings or some other particular tag? In your

CSS, simply use a period (.) followed by any style class name you make up and any style specifications you choose. That class can specify any number of font, spacing, and margin settings all at once. Wherever you want to apply your custom tag in a page, just use an HTML tag plus the class attribute, followed by the class name you created.

For example, the stylesheet in Listing 3.1 includes the following style class specification:

```
p.subheader {
  font-weight: bold;
  color:#593d87;
}
```

This style class is applied in Listing 3.2 with the following tag:

Everything between that tag and the closing tag in Listing 3.2 appears in bold purple text.

What makes style classes so valuable is how they isolate style code from web pages, effectively allowing you to focus your HTML code on the actual content in a page, not how it is going to appear on the screen. Then you can focus on how the content is rendered to the screen by fine-tuning the stylesheet. You might be surprised by how a relatively small amount of code in a stylesheet can have significant effects across an entire website. This makes your pages much easier to maintain and manipulate.

# Using Style IDs

When you create custom style classes, you can use those classes as many times as you like—they are not unique. However, in some instances, you want precise control over unique elements for layout or formatting purposes (or both). In such instances, look to IDs instead of classes.

A *style ID* is a custom set of formatting specifications that can be applied only to one element in a web page. You can use IDs across a set of pages, but only once per time within each page.

For example, suppose you have a title within the body of all your pages. Each page has only one title, but all the pages themselves

#### TIP

You might have noticed a change in the coding style when a style rule includes multiple properties. For style rules with a single style, you'll commonly see the property placed on the same line as the rule, like this:

```
p.subheader { font-weight:
bold; }
```

However, when a style rule contains multiple style properties, it's much easier to read and understand the code if you list the properties one per line, like this:

```
p.subheader {
  font-weight: bold;
  color:#593d87;
}
```

include one instance of that title. Following is an example of a selector with an ID indicated, plus a property and a value:

```
p#title {font: 24pt Verdana, Geneva, Arial, sans-serif}
```

Notice that this selector includes a hash mark, or pound sign (#), after p, followed by a descriptive ID name. When referencing a style ID in HTML code, simply specify the ID name in the id attribute of an element, like so:

```
Some Title Goes Here
```

Everything between the opening and closing <code> tags</code> will appear in 24-point Verdana text—but only once on any given page. You often see style IDs used to define specific parts of a page for layout purposes, such as a header area, footer area, main body area, and so on. These types of areas in a page appear only once per page, so using an ID rather than a class is the appropriate choice.

# Internal Stylesheets and Inline Styles

In some situations, you want to specify styles that will be used in only one web page. You can enclose a stylesheet between <code>style></code> and <code>style></code> tags and include it directly in an HTML document. Stylesheets used in this manner must appear in the <code>shead></code> of an HTML document. No <code>slink</code> /> tag is needed, and you cannot refer to that stylesheet from any other page (unless you copy it into the beginning of that document, too). This kind of stylesheet is known as an internal stylesheet, as you learned earlier in the hour.

Listing 3.3 shows an example of how you might specify an internal stylesheet.

#### LISTING 3.3 A Web Page with an Internal Stylesheet

```
line-height: 12pt;
    text-align: center;
}
</style>
</head>
<body>
...
<footer>
Copyright 2013 Acme Products, Inc.
</footer>
</body>
</html>
```

In the listing code, the footer style class is specified in an internal stylesheet that appears in the head of the page. The style class is now available for use within the body of this page. In fact, it is used in the body of the page to style the copyright notice.

Internal stylesheets are handy if you want to create a style rule that is used multiple times within a single page. However, in some instances, you might need to apply a unique style to one particular element. This calls for an inline style rule, which allows you to specify a style for only a small part of a page, such as an individual element. For example, you can create and apply a style rule within a  $_{\rm qp}$ ,  $_{\rm div}$ , or  $_{\rm span}$  tag via the  $_{\rm style}$  attribute. This type of style is known as an *inline style* because it is specified right there in the middle of the HTML code.

Here's how a sample style attribute might look:

```
  This text is green, but <span style="color:red">this text is
  red.</span>
  Back to green again, but...

...now the green is over, and we're back to the default color
  for this page.
```

This code makes use of the <code>span></code> tag to show how to apply the <code>color</code> style property in an inline style rule. In fact, both the <code>sp></code> tag and the <code>span></code> tag in this example use the <code>color</code> property as an inline style. What's important to understand is that the <code>color:red</code> style property overrides the <code>color:green</code> style property for the text between the <code>span></code> and <code>span></code> tags. Then in the second paragraph, neither of the <code>color</code> styles applies because it is a completely new paragraph that adheres to the default color of the entire page.

#### NOTE

<span> and </span> are dummy tags that do nothing in and of themselves except specify a range of content to apply any style attributes that vou add. The only difference between <div> and <span> is that <div> is a block element and, therefore, forces a line break, whereas <span> doesn't. Therefore, you should use <span> to modify the style of any portion of text that is to appear in the middle of a sentence or paragraph without any line break.

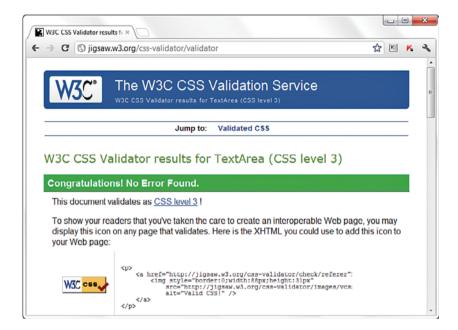
#### CAUTION

Using inline styles isn't considered a best practice when used beyond page-level debugging or the process of trying out new things in a controlled setting. The best practice of all is having your pages link to a centrally maintained stylesheet so that changes are immediately reflected in all pages that use it.

#### **Validate Your Stylesheets**

Just as it is important to validate your HTML or XHTML markup, it is important to validate your stylesheet. You can find a specific validation tool for CSS at http://jigsaw.w3.org/css-validator/. As with the validation tool discussed in Hour 2, "Structuring an HTML Document," you can point the tool to a web address, upload a file, or paste content into the form field provided. The ultimate goal is a result like the one in Figure 3.3: valid!

FIGURE 3.3
The W3C CSS Validator shows there are no errors in the stylesheet contents of Listing 3.1.



# **Summary**

In this hour, you learned that a stylesheet can control the appearance of many HTML pages at once. It can also give you extremely precise control over the typography, spacing, and positioning of HTML elements. You also learned that, by adding a style attribute to almost any HTML tag, you can control the style of any part of an HTML page without referring to a separate stylesheet document.

You learned about three main approaches to including stylesheets in your website: a separate stylesheet file with the extension .css that is linked to in the <code><head></code> of your documents, a collection of style rules placed in the head of the document within the <code><style></code> tag, and rules placed directly in an HTML tag via the <code>style</code> attribute (although the latter is not a best practice for long-term use).

Summary 65

Table 3.1 summarizes the tags discussed in this hour. Refer to the CSS stylesheet standards at http://www.w3c.org for details on what options can be included after the <style> tag or the style attribute.

TABLE 3.1 HTML Tags and Attributes Covered in Hour 3

Tag/Attributes	Function
<style></style>	Allows an internal stylesheet to be included within a document. Used between <code><head></head></code> and <code></code> .
Attribute	
type="contenttype"	The Internet content type. (Always "text/css" for a CSS stylesheet.)
<li>k /&gt;</li>	Links to an external stylesheet (or other document type). Used in the <head> section of the document.</head>
Attribute	
href="url"	The address of the stylesheet.
type="contenttype"	The Internet content type. (Always "text/css" for a CSS stylesheet.)
rel="stylesheet"	The link type. (Always "stylesheet" for stylesheets.)
<span></span>	Does nothing but provide a place to put style or other attributes. (Similar to <div></div> , but does not cause a line break.)
Attribute	
style="style"	Includes inline style specifications. (Can be used in <pre><span>, <div>, <body>, and most other HTML tags.)</body></div></span></pre>

### Q&A

- Q. Say I link a stylesheet to my page that says all text should be blue, but there's a <span style="font-color:red"> tag in the page somewhere. Will that text display as blue or red?
- A. Red. Local inline styles always take precedence over external stylesheets. Any style specifications you put between <code>style></code> and <code>style></code> tags at the top of a page also take precedence over external stylesheets (but not over inline styles later in the same page). This is the cascading effect of stylesheets that I mentioned earlier in the hour. You can think of cascading style effects as starting with an external stylesheet, which is overridden by an internal stylesheet, which is overridden by inline styles.

#### Q. Can I link more than one stylesheet to a single page?

A. Sure. For example, you might have a sheet for formatting (text, fonts, colors, and so on) and another one for layout (margins, padding, alignment, and so on)—just include a /> for both. Technically, the CSS standard requires web browsers to give the user the option to choose between stylesheets when multiple sheets are presented via multiple /> tags. However, in practice, all major web browsers simply include every stylesheet unless it has a rel="alternate" attribute. The preferred technique for linking in multiple stylesheets involves using the special @import command. The following is an example of importing multiple stylesheets with @import:

```
@import url(styles1.css);
@import url(styles2.css);
```

Similar to the link /> tag, the @import command must be placed
in the head of a web page. You learn more about this handy little
command in Hour 20, "Creating Print-Friendly Web Pages," when you
learn how to create a stylesheet specifically for printing web pages.

## Workshop

The Workshop contains quiz questions and exercises to help you solidify your understanding of the material covered. Try to answer all questions before looking at the "Answers" section that follows.

#### Quiz

- **1.** What code would you use to create a stylesheet to specify 30-point blue Arial headings and all other text in 10-point blue Times Roman (or the default browser font)?
- 2. If you saved the stylesheet you made for Question 1 as corporate.css, how do you apply it to a web page named intro.html?
- **3.** How many different ways are there to ensure that style rules can be applied to your content?

#### **Answers**

**1.** Your stylesheet would include the following:

```
h1 { font: 30pt blue Arial; }
body { font: 10pt blue "Times New Roman"; }
```

**2.** Put the following tag between the <head> and </head> tags of the intro.html document:

```
<link rel="stylesheet" type="text/css" href="corporate.css" />
```

**3.** Three: externally, internally, and inline.

#### **Exercises**

- ▶ Using the stylesheet you created earlier in this hour, add some style classes to your stylesheet. To see the fruits of your labor, apply those classes to the HTML page you created as well. Use classes with your <h1> and tags to get the feel for things.
- ▶ Develop a standard stylesheet for your website, and link it into all your pages. (Use internal stylesheets and/or inline styles for pages that need to deviate from it.) If you work for a corporation, chances are, it has already developed font and style specifications for printed materials. Get a copy of those specifications, and follow them for company web pages, too.

▶ Be sure to explore the official stylesheet specs at http:// www.w3.org/Style/CSS/, and try some of the more esoteric style properties not covered in this hour.

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