

EXHIBIT 9

JavaScript and HTML

You can think of JavaScript as an extension to HTML; an add-on, if you will.

Here's how it works. HTML tags create objects; JavaScript lets you manipulate those objects. For example, you use the HTML `<BODY>` and `</BODY>` tags to create a Web page, or document. As shown in Table 1-1, after that document is created, you can interact with it by using JavaScript. For example, you can use a special JavaScript construct called the `onLoad` event handler to trigger an action — play a little welcoming tune, perhaps — when the document is loaded onto a Web browser. (I cover event handlers in Chapter 13.) Examples of other HTML objects that you interact with using JavaScript include windows, text fields, images, and embedded Java applets.

<i>Object</i>	<i>HTML Tag</i>	<i>JavaScript</i>
Web page	<code><BODY> . . . </BODY></code>	<code>document</code>
Image	<code></code>	<code>document.myImage</code>
HTML form	<code><FORM name="myForm"> . . . </FORM></code>	<code>document.myForm</code>
Button	<code><INPUT TYPE="button" NAME="myButton"></code>	<code>document.myForm. myButton</code>

To add JavaScript to a Web page, all you have to do is embed JavaScript code in an HTML file. Below the line in which you embed the JavaScript code, you can reference, or call, that JavaScript code in response to an event handler or an HTML link.

You have two choices when it comes to embedding JavaScript code in an HTML file:

- ✓ You can use the `<SCRIPT>` and `</SCRIPT>` tags to include JavaScript code directly into an HTML file.

In the example below, a JavaScript function called `processOrder()` is defined at the top of the HTML file. Further down in the HTML file, the JavaScript function is associated with an event handler — specifically, the `processOrder` button's `onClick` event handler. (In other words, the JavaScript code contained in the `processOrder()` function runs when a user clicks the `processOrder` button.)

```

<HTML>
<HEAD>
<SCRIPT LANGUAGE="JavaScript">
  // JavaScript statements go here
  function processOrder() {
    // More JavaScript statements go here
  }
</SCRIPT>
</HEAD>
<BODY>
<FORM NAME="myForm">
<INPUT TYPE="button" NAME="processOrder" VALUE="Click to process your
order" onClick="processOrder();">
...
</HTML>

```

- ✓ You can use the `<SCRIPT>` and `</SCRIPT>` tags to include a separate, external JavaScript file (a file containing only JavaScript statements and bearing a `.js` extension) into an HTML file.

In the example below, the JavaScript `processOrder()` function is defined in the `myJSfile.js` file. The function is triggered, or called, when the user clicks the Click Here to Process Your Order link.

```

<HTML>
<HEAD>
<SCRIPT LANGUAGE="JavaScript" SRC="myJSfile.js">
</SCRIPT>
</HEAD>
<BODY>
<A HREF="javascript:processOrder();">Click here to process your order.</A>
...
</BODY>
</HTML>

```



Keep in mind that most of the examples in these printed pages focus on the JavaScript portion of the code (naturally!). But I include the HTML that you need to create the examples on the CD-ROM, so you don't have sweat re-creating the Web pages from scratch!

Because Web pages aren't made of HTML alone, however, JavaScript provides access to more than just HTML objects. JavaScript also provides access to browser- and platform-specific objects. Browser plug-ins (such as RealPlayer and Adobe Acrobat), the name and version of a particular viewer's browser, and the current date are all examples of non-HTML objects that you can work with by using JavaScript.



Together, all the objects that make up a Web site — HTML objects, browser- and platform-related objects, and special objects built right into the JavaScript language — are known as the document object model (DOM).