with HTML

WELCOME TO RATIONAL ROBOT

HTML!

Use the sample Web site with this *Try it!* to discover how easy it is to test your HTML pages. In minutes, you'll understand the power behind Rational Robot's Object Testing® as you record tests for these and other HTML objects:

▶ HTML Links
▶ Frames
▶ Check Boxes
▶ Image Maps
▶ Radio Buttons

If you develop for the Web, you need Rational® Robot — the leader in automated testing of GUI applications.

Robot lets you plan, develop, and execute tests for Web applications running in Microsoft® Internet Explorer version 4.0 or later on Windows NT® 4.0, Windows 2000, Windows® 98, or Windows® 95. Robot lets you test both static and dynamically-generated pages accessed from standard and secured HTTP servers, regardless of make or model.
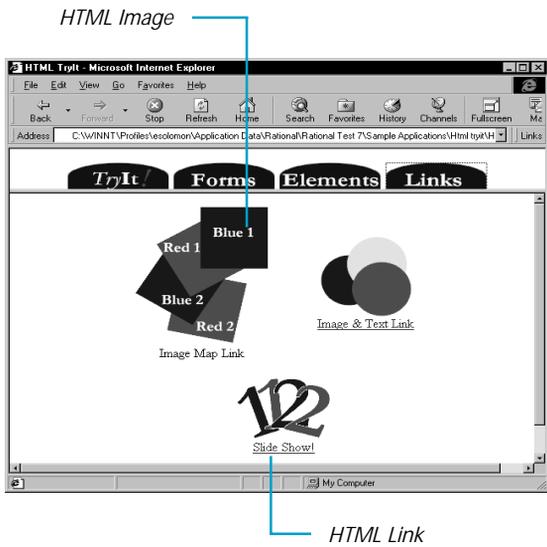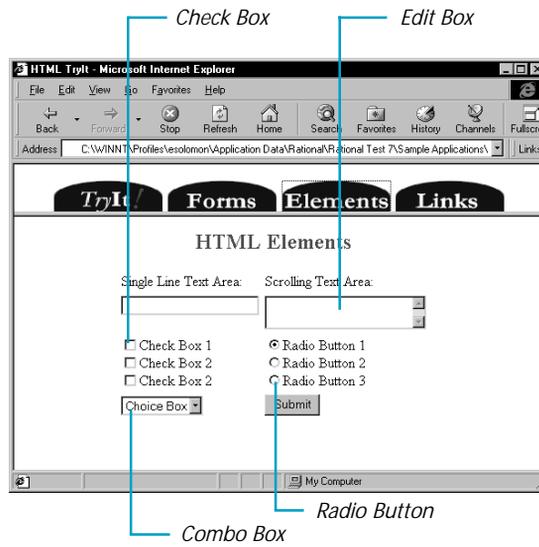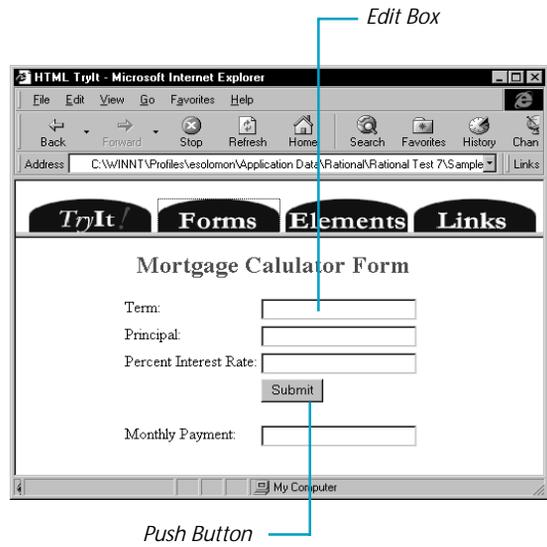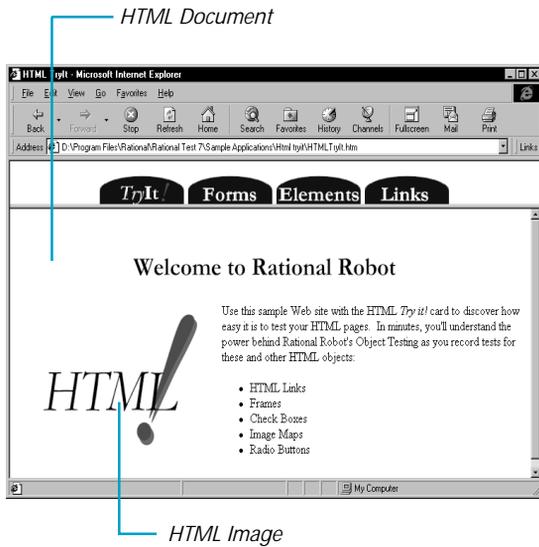
As you use the testing tips in this *Try it!* on the sample HTML application, you'll quickly discover how easy it is to record tests using Robot.

To find out more about Robot, be sure to take a look at the tutorial in *Getting Started with Rational Robot* and the online Help.

▸ ▸ ▸ Find out how Rational puts quality to the test. ▸ ▸ ▸

Rational®
the **e-development** company™

Test these objects in the sample application

These four windows make up the **Rational Robot: Try it! with HTML** sample application. Each window contains numerous objects to test. Read on to find out how. ► ► ►

HTML Document

Edit Box

HTML Image

Push Button

Check Box   Edit Box

HTML Image

Radio Button

Combo Box

HTML Link

Start Robot and log in to the repository

Before you begin to test, you'll install the sample HTML application. When you install the application, a sample repository is created automatically. A repository contains all the information about your testing project, including test documents, requirements, scripts, logs, defects, queries, and reports.
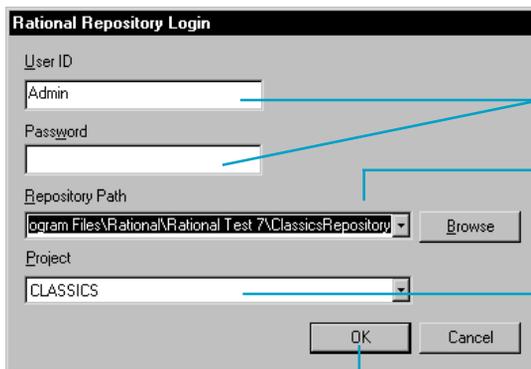
Then, you'll start Robot. You'll use Robot to record both your actions as you navigate through the sample application and the verification points that you insert to verify specific objects.

▶ ▶ ▶ *Try this:*

❶ Click **Start** → **Programs** → *Rational product name* → **Rational Test** → **Setup Rational Test Samples**.

This installs the sample HTML application and creates a sample repository called **ClassicsRepository** and a sample project called **Classics**.

❷ Click **Start** → **Programs** → *Rational product name* → **Rational Test** → **Rational Robot** to open the Rational Repository Login dialog box.

*Type your **User ID** and **Password**. If you do not know these, see your administrator.*

*Select the sample repository, **ClassicsRepository**.*

*Select the project name, **Classics**.*

*Click **OK** to log in.*

Start recording and open Internet Explorer

To test HTML applications, you must load the Rational ActiveX Test Control, which allows Robot to recognize Web-based objects. The ActiveX Test Control is loaded automatically when you start Internet Explorer from Robot.
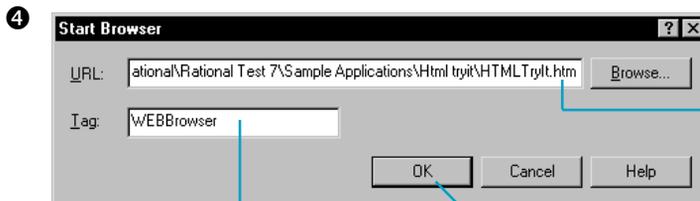
► ► ► *Try this:*

❶

*On the Robot toolbar, click to start recording. Type a name for the script, such as **HTML1**, and click **OK**.*

❷ GUI Record

*Click to display the **GUI Insert** toolbar.*

❸ GUI Insert

*Click the **Start Browser** button.*

❹ Start Browser

URL: ational\Rational Test 7\Sample Applications\Html tryit\HTMLTryIt.htm   Browse...

Tag: WEBBrowser

OK   Cancel   Help

*Type or browse to the URL of the sample HTML application, **HTMLTryIt.htm**, located in the ...**Rational Test 7\\Sample Applications\\HTML TryIt** folder.*

Assign a tag to uniquely identify this instance of the browser. By using tags, you can test multiple instances of the browser.

*When you click **OK**, Robot starts Internet Explorer and loads the Robot start page, **rbstart.htm**. The Robot start page loads the ActiveX Test Control and displays the message "Start Robot Web testing here." Finally, Robot navigates to the URL indicated in the dialog box.*

Test an object's properties

When you record, you'll use Robot's **Object-Oriented Recording**® to test objects, independent of their positions in the GUI. If objects change locations or their text changes, Robot will still find them on playback because Robot can identify objects by their internal HTML IDs, as well as by name, text, title, or index.

Robot offers many verification points for use during recording. (See the list on the last page.) One of the most powerful **— Object Properties —** lets you capture the properties of objects. Robot's easy-to-use **Object Testing**® lets you inspect and verify all of an object's properties.

► ► ► *Try this:*

❶ Click the **Elements** tab.
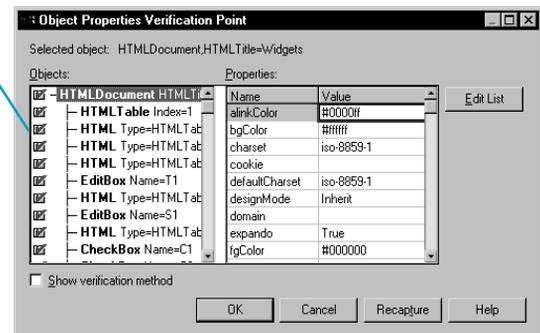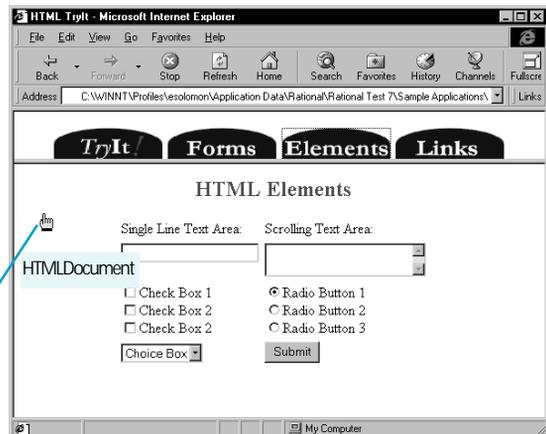
❷ Insert an Object Properties verification point.

❸ Type a name, such as **Test1**, and click **OK**.

❹ Drag the Object Finder tool around the window and look at the TestTip that describes each object. Point to an area of white space until **HTMLDocument** appears in the TestTip. (HTMLDocument captures all of the objects on the page.)

Object Finder tool

❺ Release the mouse button and click **OK**.

Notice how Robot captures all of the page's properties.

❻ Scroll through the list of properties and click **OK** to complete the test. Then go to the next page to try some more tests.
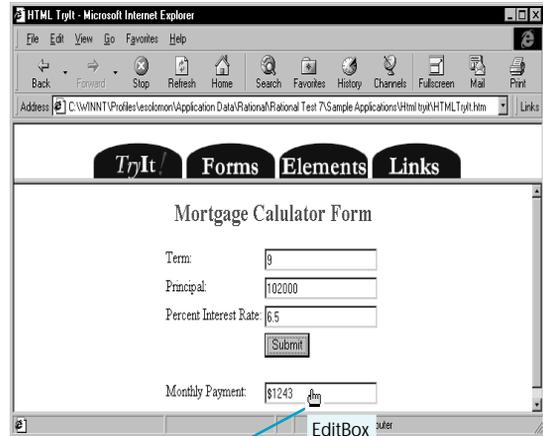
Test data in HTML objects

The **Object Data** verification point is another of Robot's comprehensive verification points. It lets you capture data from any HTML object, including push buttons, check boxes, radio buttons, and edit boxes (the <INPUT> tag), links (the <A> tag), images (the <IMG> tag), tables, and more. And if for some reason, an object data test does not exist for an object, you can create your own data test. For instructions, see the *Using Rational Robot* manual.

▶ ▶ ▶ *Try this:*

❶ Click the **Forms** tab.

❷ Fill out the form and click **Submit**.

❸ Insert an Object Data verification point.

❹ Type a name, such as **Test2**, and click **OK**.

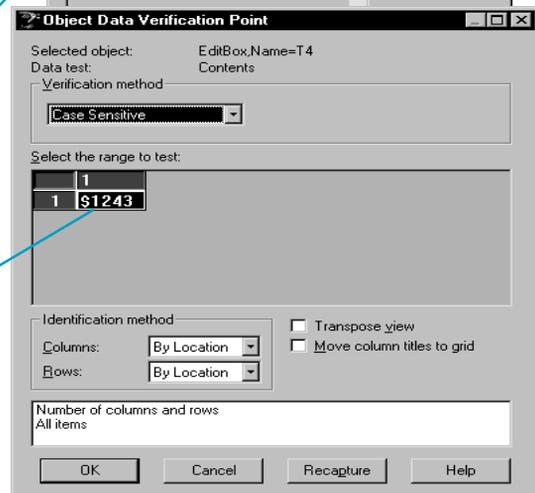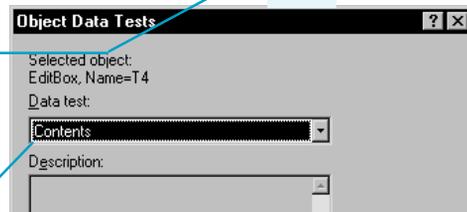❺ Drag the Object Finder tool to the **Monthly Payment** box until **EditBox** appears in the TestTip.

Object Finder tool ────────

❻ Release the mouse button and click **OK**.

❼ In the Object Data Tests dialog box, select **Contents**.

This data test captures and compares the contents of the Monthly Payment box.

❽ Click **OK**.

❾ View the captured data and click **OK**.

Compare the captured data in this build with future builds to verify that the mortgage calculation provides the same results.

Test the destination of a link

You'll also use the **Object Data** verification point to test your links.

▶ ▶ ▶ *Try this:*

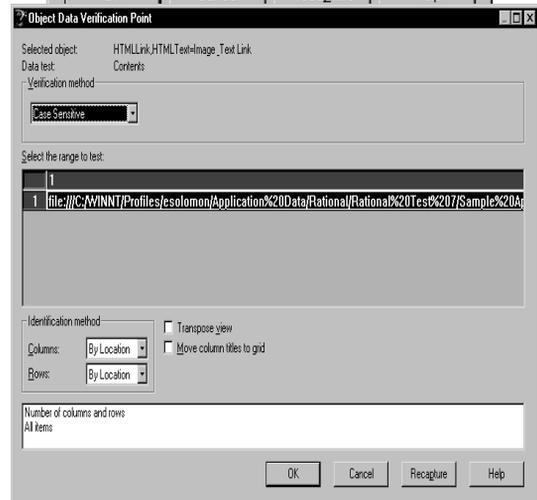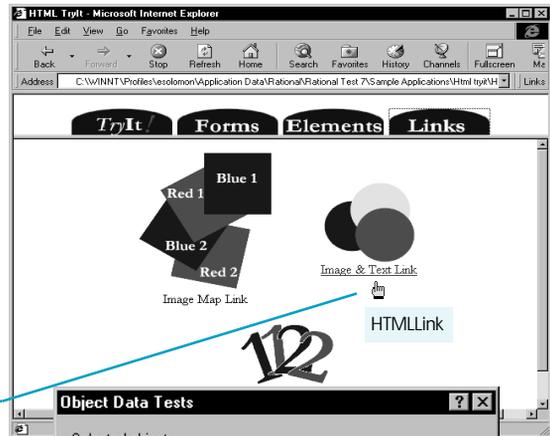❶ Click the **Links** tab.

❷ Insert an Object Data verification point.

❸ Type a name, such as **Test3**, and click **OK**.

❹ Drag the Object Finder tool to the link or image until **HTMLLink** or **HTMLImage** appears in the TestTip.

　　　　　　　Object Finder tool ────

❺ Release the mouse button and click **OK**.

❻ In the Object Data Tests dialog box, select **Contents**.

　　　This data test captures the "href" of the link — that is, the URL of the link's destination.

❼ Click **OK**.

❽ View the captured data and click **OK**.

What's next

You've just tested some of the objects in the sample HTML application. To record more tests, try an Object Data verification point on the paragraph of text on the first page, and another on the radio button on the **Elements** page.

When you're done, stop recording by pressing this button on the **GUI Record** toolbar: ■

The value of verification points becomes even more apparent when you play them back. During playback, verification points identify changes or unintentional errors in an application as it evolves. This lets you correct any errors *before* you deliver the application to customers.

For playback instructions, see the *Using Rational Robot* manual. Before you play back scripts recorded against the sample application, return to the first page in the application by clicking the **TryIt!** tab. If any verification points fail on playback, just double-click the failure in the Rational LogViewer to see why.

To play back a script, press this button on the Robot toolbar: ▶

For valuable information about testing HTML applications, see the *Testing HTML Applications* chapter in the *Using Rational Robot* manual*.*

Rational Robot verification points

Use the Object Properties and Object Data verification points to ensure delivery of high-quality HTML applications to your customers. For a brief description of these and other verification points used in Robot, see the table below.

[icon]	**Object Properties** – Captures and tests properties of visible and hidden objects.	[icon]	**Menu** – Captures and tests text, shortcut keys, and the state of menus in as many as five levels of submenus.
[icon]	**Object Data** – Captures and tests data from visible and hidden objects.	[icon]	**Window Image** – Captures a window as a bitmap image.
[icon]	**Alphanumeric** – Captures and tests alphanumeric data in objects that contain text.	[icon]	**Region Image** – Captures a specific region of the screen as a bitmap image.
[icon]	**Clipboard** – Captures and tests alphanumeric data copied to the Clipboard.	[icon]	**Window Existence** – Verifies the existence of a specific window or dialog box.
[icon]	**Web Site Scan** – Checks the contents of a Web site with every revision and provides a report on defects.	[icon]	**Web Site Compare** – Captures a baseline of a Web site and compares it to the Web site at another point in time.

▶ ▶ ▶ For more about verification points, see the *Using Rational Robot* manual*.* ▶ ▶ ▶