

Adobe® Photoshop®

version
5.5

Reviewer's Guide

The world-standard
image-editing
solution for print
and the Web

Adobe Photoshop software is an essential creative tool for the majority of Web designers and producers who design and edit Web graphics. Now Adobe Photoshop 5.5 software is expanding that role, adding comprehensive optimization features for producing the highest quality Web graphics with the smallest possible file sizes. It also provides the Adobe ImageReady™ 2.0 component for advanced Web-production tasks, such as creating sliced images, sophisticated JavaScript rollovers, dynamic animations, and image maps. In addition, Photoshop 5.5 fulfills customer requests for more creativity features by providing powerful new masking tools, automated creation of printed and Web-based contact sheets, and a versatile new art history brush for transforming images into painterly strokes.

With this new functionality, Photoshop 5.5 delivers a complete, integrated image-editing solution for print and the Web. The best way to learn the benefits of these new features is to see them in action. This hands-on look at key features in Adobe Photoshop explains how these features work and gives you a chance to try them yourself. You can follow the examples through in order or jump around looking only at the features that interest you the most (this is not a tutorial, so you don't have to follow a set sequence through the guide). You can even skip the step-by-step review of the program and just skim the procedures and illustrations for a taste of what this innovative release offers.

This reviewer's guide is divided into these sections:

- Quick Reference: Key Features in Adobe Photoshop 5.5 (page 3)
- Rely on Consistent Adobe Design Tools (page 4)
- Produce Superb Web Graphics (page 8)
 - Basic Web Tasks: Creating the Smallest Possible Web Graphics (page 9)
 - Advanced Web Tasks: Designing Interactive Graphics (page 13)
- Expand Your Creative Power (page 26)

All of the features described apply to both Macintosh and Windows versions of Adobe Photoshop software, so feel free to work on your platform of choice or even to move back and forth between platforms.

Before You Begin

Please do the following before you dive into the reviewer's guide:

- **Locate the Rev_Guide folder on your Adobe Photoshop 5.5 reviewer's CD-ROM, and copy the folder and sample files to your hard disk.**
- **Install the Adobe Photoshop 5.5 and Adobe ImageReady 2.0 software.** The installer streamlines this process by installing both programs at once.
- **Make sure that Adobe Photoshop and Adobe ImageReady are using their default preferences settings.** If you've already run either program and made any changes, you may need to restore the default preferences settings. To do this, close Photoshop and ImageReady if they are running. Then locate and delete these files:

For Photoshop 5.5: Locate the Adobe Photoshop 5.5 Prefs file in the Settings folder in the Adobe Photoshop 5.5 folder. Then delete or rename it. When you launch Photoshop, it generates a new preferences file with default settings.

For ImageReady 2.0: On a Mac OS system, locate the Adobe ImageReady 2.0 Prefs file in the System folder and delete or rename it. ImageReady then generates a new preferences file when you launch the program. On a Windows system, press Ctrl+Alt+Shift as you launch the program, and then click yes when asked whether to reset preferences to their defaults.

- **Launch both programs.** If you're launching Photoshop for the first time (or you renamed or deleted the Color Settings file when you reset the default preferences), you'll be prompted to run the Adobe Color Management Assistant to tailor the color management settings for your system. You can step through the color management setup or cancel out of it for now.

Photoshop 5.5 Reviewer's Guide Files

The exercises in this reviewer's guide use the files listed below:

File name	File location	Used to demonstrate this feature
flwportrait.psd*	Rev_Guide folder on your reviewer's CD	Adobe integration, Web graphics optimization
flwhome.psd*	Rev_Guide folder on your reviewer's CD	Image slicing, JavaScript rollovers, animated GIFs
flwhome.html*	Rev_Guide folder on your reviewer's CD	Final results of Web optimization/creative tasks
<Images> folder*	Rev_Guide folder on your reviewer's CD	Image slices for final HTML page
fern.psd	Rev_Guide folder on your reviewer's CD	Magic eraser tool
zebra.psd	Rev_Guide folder on your reviewer's CD	Background eraser tool
gorilla.psd	Rev_Guide folder on your reviewer's CD	Extract Image command
sunflower.psd	Rev_Guide folder on your reviewer's CD	Art history brush
flowers.psd	Rev_Guide folder on your reviewer's CD	Art history brush
port.psd	Rev_Guide folder on your reviewer's CD	Art history brush
<Samples> folder	Goodies folder in the Adobe Photoshop 5.5 folder	Instant contact sheets

* Images from the Frank Lloyd Wright Web site provided courtesy of the Public Broadcasting Corporation.

Real-world Sample Images from the Frank Lloyd Wright Web Site

The images used to demonstrate the new Web optimization and interactivity features in Adobe Photoshop 5.5 are taken from the Public Broadcasting Corporation's Frank Lloyd Wright Web site. PBS launched this

site in November 1998 as a companion to the film by Ken Burns and Lynn Novick, which profiled the life and work of this great American architect. Brad Johnson and Julie Beeler, award-winning principals of Second Story Interactive Design, designed and programmed the site for PBS. Longtime Photoshop users, Johnson and Beeler are also actively involved in testing prerelease versions of Photoshop 5.5.



Web-site Credits

Frank Lloyd Wright Web site:
www.pbs.org/flw

Designers/Programmers:
 Brad Johnson and Julie Beeler,
 Second Story Interactive Design,
www.secondstory.com

Producers:
 Julie Phillips Nielsen, Mary Halnon,
 and Theresa Riley at PBS Online

Quick Reference: Top Features in Adobe Photoshop 5.5

Rely on Consistent Adobe Design Tools

Adobe-standard user interface Get up to speed quickly and move between Photoshop 5.5 and ImageReady 2.0 without breaking your creative flow because of common commands, palettes, tools, and keyboard shortcuts. For details, see page 4.



Jump-to buttons

Seamless workflow for Web graphics Click the Jump To icon on the toolbox in either program to instantly move a file from Photoshop to ImageReady, or vice versa. Preserve layers, layer effects, type, and all other file attributes as you move files back and forth. Even undo changes made in one program when you return to the other because those changes are collected in a history state on the History palette. For details, see page 6.

PDF 1.3 support Open Portable Document Format (PDF) files saved in the new PDF 1.3 standard introduced by Adobe Acrobat® 4.0 software. For details, see page 7.

Produce Superb Web Graphics: Optimizing Web Graphics

Photoshop provides the Save For Web window for previewing image quality and balancing it against file size as you apply and fine-tune compression settings. The Save For Web feature also provides controls for managing colors, previewing browser dither, and more. The same optimization features appear in the ImageReady 2.0 component and work similarly. For details, see pages 9–13.

Optimization controls Work with a comprehensive selection of GIF, JPEG, PNG-8, and PNG-24 compression controls for optimizing graphics. Even choose predefined compression settings from a menu for instant application, or add your own named combinations of compression settings to this menu. For details, see page 9.

LiveView panels with choice of 2-up or 4-up views Compare the original version of an image with one other or three other optimized versions, and then fine-tune the compression settings applied to get the exact balance of image quality and file size you want. Each thumbnail displays the applied compression settings along with the file size and projected download speed. For details, see page 10.

Superior color controls for smaller file sizes Minimize the number of colors saved with GIF or PNG-8 images. Use the Color Table tab to add, delete, edit, lock, or shift colors to Web-safe equivalents. Preview how 8-bit images display in different browsers and on different operating systems. For details, see page 11.

Lossy GIF feature Control the amount of lossiness allowed in GIF compression to produce dramatically smaller file sizes—as much as 10–50% smaller than previously possible—with minimal loss of image quality. For details, see page 11–12.

Produce Superb Web Graphics: Designing Interactive Web Graphics



Slicing tools for user-defined slices Create user-slices in the ImageReady 2.0 component by dragging rectangles over an image with the slice tool. ImageReady then defines auto-slices for the image, as necessary, to produce the final HTML file with the table code necessary to reassemble the image. For details, see page 13.

Powerful JavaScript rollover effects Generate complex JavaScript rollover effects without writing a line of JavaScript code. For example, make a specific area of an image change when you click on, press down on, or roll over that area with a mouse. Even create secondary rollovers automatically, where a mouse action on one part of an image causes a change in another part of the image. For details, see page 16.

Update HTML command Automatically replace the HTML code for a sliced image when you edit the original image. ImageReady embeds comments at the beginning and end of its HTML code for automatic identification and replacement later on—even if that code has been copied into a longer HTML file. For details, see page 18.

Easy animation controls Design high-quality animated GIF files with optimized file sizes. For details, see page 20.

Layer effects Quickly apply drop shadows, bevels, inner and outer glows, and other “live” effects to layers. For details, see page 22.

Flexible type options Choose among multiple anti-aliasing controls to fine-tune the appearance of type in Photoshop or ImageReady, or apply synthetic text styles, such as bold, italic, or underlining, for fonts that don't support these styles. Even type text directly on an image in ImageReady. For details, see page 25.

Expand Your Creative Power



The magic eraser tool Erase sections of a layer—creating transparency—with a simple click of your mouse. For details, see page 26.



The background eraser tool Drag your mouse across an image to dynamically erase pixels on a layer and create transparency. This tool also “decontaminates” the edge pixels, removing the tint of background color and making them partially transparent so you can cleanly composite them on another background. For details, see page 27.

The Extract Image command Mask foreground images that have intricate, wispy, or hard-to-define edges more accurately with the new Extract Image command. As with the background eraser, the Extract Image command decontaminates the remaining edge pixels to prevent haloing when you composite the image. For details, see page 29.



Art history brush Paint stylized strokes on an image, much as you would brush paint onto a canvas, with the art history brush. Don't worry about specifying colors or applying careful strokes—simply move the art history brush around on the image, interactively creating realistic paint strokes. For details, see page 30.

Instant contact sheets Create print and Web-based contact sheets automatically to streamline how you present and share images with colleagues and clients. For example, arrange a single image multiple times, and even at multiple sizes, on a single sheet in a picture package. For details, see page 34.

Rely on Consistent Adobe Design Tools

Adobe Photoshop 5.5 provides tight integration and a smooth workflow with its advanced Web production component, Adobe ImageReady 2.0. Wherever possible, these programs work similarly, so you can quickly apply what you know about one program to the other. You can move files instantly from Photoshop to ImageReady for different tasks, and even undo changes made in one program in the other. In addition, Photoshop 5.5 supports the new Portable Document Format (PDF) 1.3 standard introduced by Adobe Acrobat® 4.0. This section guides you through how to make the most of these features.

Adobe-Standard User Interface

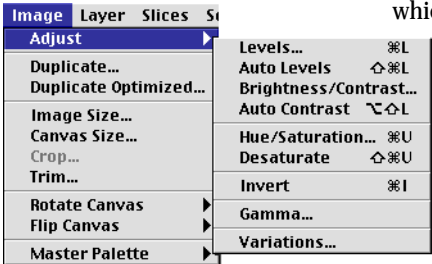
Photoshop and ImageReady fit together impeccably, providing a consistent, streamlined environment that helps you prepare Web graphics more efficiently. If you're familiar with Photoshop, you can pick up ImageReady quickly because they share similar commands, palettes, tools, and keyboard shortcuts. Here are the highlights of this built-in integration:

- **Adobe look and feel** Photoshop and ImageReady both offer the toolbox, palettes, and menu structure common to all of Adobe's professional graphics programs.
- **Image selection** You can make selections in either program using different marquee selection tools, the lasso and polygon lasso tools, and the magic wand tool. Both programs provide Selection menus with commands for saving and loading selections, softening their edges, expanding or contracting them, and more.
- **Editing/retouching of images** Editing tools include rulers and guides for precisely laying out elements; transformation tools for rotating, skewing, flipping, and other actions; and more. Extensive retouching tools include rubber stamp, airbrush, dodge, burn, sponge, sharpen, blur, and smudge tools—all of which work identically in both programs.
- **Color correction** Both programs offer the core color correction controls you need, such as Auto Contrast, Brightness/Contrast, Hue/Saturation, Desaturate, Levels, Auto Levels, Invert, Variations, and Unsharp Mask. Photoshop also provides advanced color-correction controls for high-end printing.

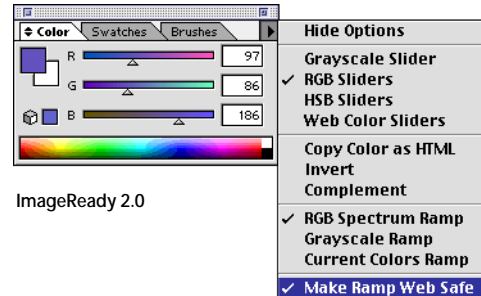


Rely on tools, such as the airbrush, dodge, burn, and smudge tools, which work identically in Photoshop and ImageReady.

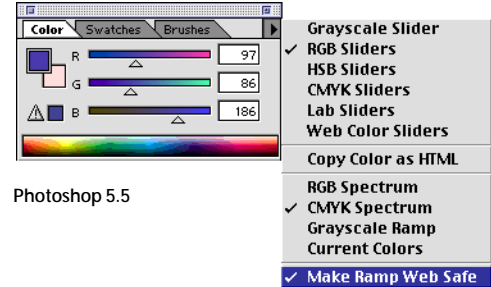
Work with common color correction controls in both programs.



- **Colors, swatches, and brushes** Photoshop and ImageReady deliver consistent Web color controls, including the ability to make the colors in the color ramp Web safe, instant display of RGB values, and more. You can store colors as swatches for ongoing use in either program. The default brush selection is identical across these programs, and they both allow you to add custom brushes. The eyedropper and paintbrush tools also behave the same way.



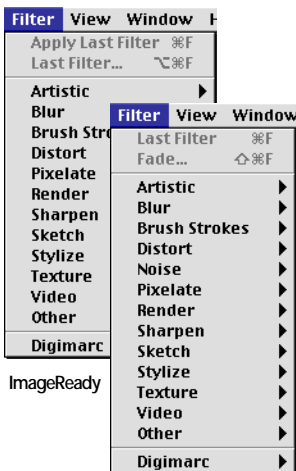
ImageReady 2.0



Photoshop 5.5



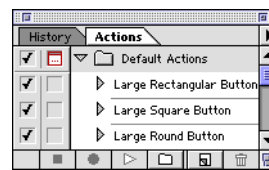
- **Type** Horizontal and vertical type tools appear in both programs. Type appears on separate editable layers, which are preserved in round trips from one program to the other for ongoing editing. You can specify the font, font size, faux styles, kerning, leading, and alignment—even anti-aliasing controls.
- **Layers and layer effects** The Layers palettes in Photoshop and ImageReady let you create, duplicate, delete, merge, flatten, hide, show, and perform other layer management tasks easily. You can also specify and apply “live” layer effects, such as drop shadow or bevel.
- **Filters** A wide range of special-effects and other Photoshop filters work with both programs. These filters fall into categories, including artistic, blur, distort, noise, pixelate, sketch, texture, and more.
- **Undo/Redo** Both programs provide a History palette for easily undoing and redoing multiple steps. The History palette in Photoshop provides additional options, including the ability to take snapshots and paint with those states.
- **Actions** You can automate numerous production tasks using the Actions palette in either Photoshop or ImageReady. The steps involved in recording actions are the same in both Photoshop and ImageReady. However, actions recorded in one program cannot be used in the other.



Photoshop



ImageReady 2.0

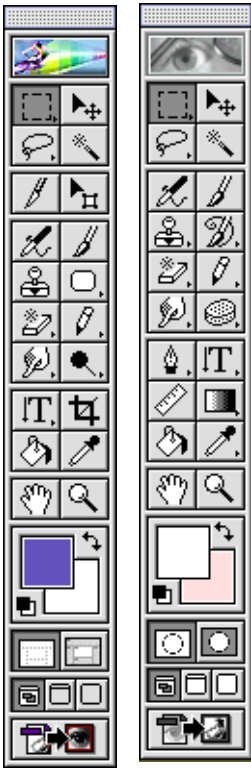


Photoshop 5.5

Photoshop and ImageReady also provide similar Web optimization features for producing the most efficient Web graphics. This extraordinary integration offers you something no other Web production toolset does: a flexible, consistent work environment that lets you move back and forth between the programs without breaking your concentration and make changes to images wherever it suits you.

Try comparing similarities between the programs:

1. Launch Photoshop and ImageReady. Choose File > Open in each program, and open a file from Adobe Photoshop 5.5\Goodies\Samples. Save the files to other names, so you can experiment with them freely.
2. Switch back and forth between Photoshop and ImageReady, trying one or more of the following in both programs:
 - Compare single-key shortcuts for selecting tools in each program. For example, press M for the marquee tool, N for the pencil tool, W for the magic wand tool, T for the type tool, and Z for the zoom tool. Note the number of identical shortcuts.



ImageReady Photoshop

Work with common image-editing tools that behave the same way in both programs.

—In ImageReady, select the dodge, burn, smudge, or airbrush tool (all newly available in ImageReady 2.0). Click the Options tab to make the tool's Options palette visible (or double-click the tool in the toolbox to open the palette). Adjust the settings, and then practice using these tools to lighten, darken, or otherwise edit the image. Try these tools in Photoshop.

—Choose Window > Layers or click the Layers tab in each program to make the Layers palette visible. Then choose New Layer from each palette menu, name the layer, and click OK.

—Click the Foreground color box in the Photoshop or ImageReady toolbox to open the Color Picker. Select a color, and click OK. Target the new layer you created, and press Option+Delete (Mac OS) or Alt+Backspace (Windows) to fill the layer with the foreground color.

—Press Tab to hide or show all open palettes. Or press Shift+Tab to hide or show all open palettes except the toolbox.

3. Close your open documents without saving them.

Seamless Workflow for Web Graphics

Photoshop 5.5 is designed to make creating and optimizing Web graphics easy. You can move files back and forth between Photoshop and ImageReady as often as you like without data loss. The programs preserve layers, layer effects, type, rollovers, animations, and other file attributes through every handoff. Photoshop even stores the changes you make in ImageReady as one or more history states—and vice versa, ImageReady notes changes made in Photoshop—so you can quickly undo steps if you change your mind.

You jump from one program to the other by clicking the Jump To icon on the toolbox in either Photoshop 5.5 or ImageReady 2.0. If the other program is running, the focus switches to that program instantly and the image you're preparing appears, so you can work with it. If the program isn't running, then Photoshop or ImageReady launches the other program and transfers the image to it for editing.

When you jump from one program to the other, the image stays open and active in both programs. You decide whether the changes you're making in the second program automatically update the image in the first program when you save, or whether you must manually update the image when you return to the first program. (In Photoshop, choose File > Preferences > General, and check or uncheck Auto-Update Open Documents. In ImageReady, open General Preferences and check or uncheck Auto-Update Files.) Each time you update the original image, those changes appear as a single history state in the History palette list for easy undoing.

Try jumping from program to program:

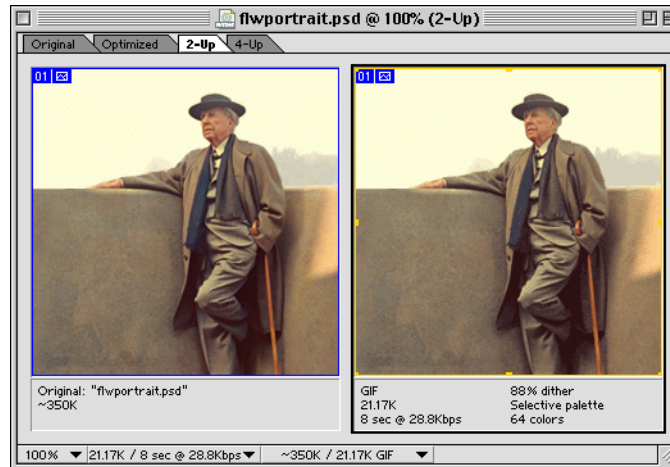
1. In Photoshop 5.5, choose File > Open. Then locate flwportrait.psd in the Rev_Guide folder and open it. If prompted, click Don't Convert in the Profile Mismatch dialog box.
2. Choose File > Save As, and save the file to a different name (so you can use the original file in later sections).
3. Click the Jump To icon on the Photoshop toolbox to switch to ImageReady if it's running or to launch and switch to ImageReady if it's not.
4. If necessary, click the Optimize palette tab, or choose Window > Show Optimize to make the palette visible.
5. Click the double arrow on the Optimize palette tab to see more options. Then choose GIF 64 Dithered from the Settings menu to apply these optimization settings.



Click the double arrows to cycle through the palette options.

- Click the 2-up tab to see the original and optimized version side by side, and then click the 4-up tab to see the original version with an optimized version and two alternatives.

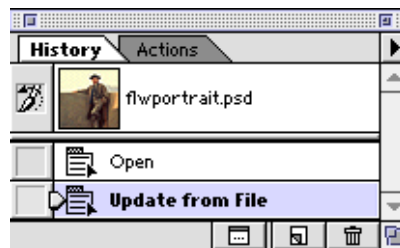
For more details about the LiveView panels and other optimization options available in both programs, see pages 9–13 later in this document.



2-up view with the original image and an optimized version



- Choose File > Save to save the change. Then click the Jump To icon on the ImageReady toolbox to return to Photoshop.
- Click the History palette tab or choose Window > Show History to make the palette visible.
- Click the Open state above Update From File in the History palette list to undo the optimization settings you've applied.



Undo the optimization settings you applied in ImageReady, even after you've returned to Photoshop.

- Close the file.

PDF 1.3 and Other Support

Photoshop 5.5 extends its long-standing support for other professional Adobe design programs by updating its PDF support—it now opens and rasterizes PDF files saved in the new PDF 1.3 standard introduced by Acrobat 4.0. PDF 1.3 files offer better support for high-end print production, Adobe PostScript 3™ printing capabilities, color management, font embedding, late-stage editing, and reviews and annotation.

Photoshop and ImageReady can also be configured to jump to Adobe Illustrator® software or other graphics editing programs as easily as they jump to each other. In addition, ImageReady can jump to an HTML editor, such as Adobe GoLive™ software. If you have these programs installed when you install Photoshop 5.5, the installer creates the connection automatically. If you install an Adobe graphics editing program afterwards or you want to link to a non-Adobe program, you simply add an alias or shortcut to the appropriate Photoshop 5.5 subfolder. Graphics editing programs then appear on the File > Jump To menu in both programs.

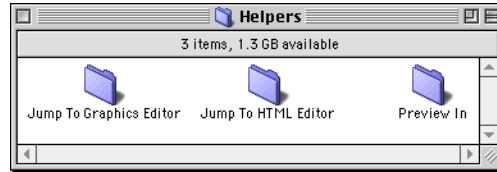
Try adding more jump-to programs to either program:

- If Photoshop and/or ImageReady are running, close them.
- Locate the application you want to add to your Jump To list, and create an alias or shortcut for it.

Tip for Adobe GoLive Users

In ImageReady, you can set a preference that adds a GoLive style coding to your HTML code, so GoLive can fully support the JavaScript rollovers you set up in a file. Simply choose File > Preferences > HTML in ImageReady, and then choose GoLive for Code under Coding.

3. Store the alias or shortcut in the Adobe Photoshop 5.5\Helpers\Jump to Graphics Editor folder or the Adobe Photoshop 5.5\Helpers\Jump to HTML Editor folder.



Store aliases or shortcuts in the Helper folders, so you can jump to a graphics editor, HTML editor, or Web browser to work on or preview Web files as you work.

4. Launch Photoshop and ImageReady, and open a test file from the files in Adobe Photoshop 5.5\Goodies\Samples.
5. Choose File > Jump To > [Application Name].
6. After experimenting, close the Jump To application, and close the test file in Photoshop or ImageReady.

Produce Superb Web Graphics

Photoshop 5.5 provides a comprehensive, integrated toolset for designing effective, high-quality Web graphics. These tools include important optimization features for creating the smallest possible Web graphics, as well as advanced tools in its ImageReady 2.0 component for producing interactive Web graphics, such as JavaScript rollovers, animations, and image maps. This section walks you through the main Web graphics optimization and design features in Photoshop 5.5.

Before you begin, look at the Frank Lloyd Wright home page you'll be working on:

1. Locate flwhome.html in the Rev_Guide folder.
2. Drag the file on top of your Internet Explorer or Netscape Navigator Web browser icon to open it, or launch your Web browser and open the file.

Note: If the images don't appear in your Web browser, then the Images folder is not stored in the correct location. Locate the Images folder in Rev_Guide on your reviewer's CD. Then copy it into the same folder as the flwhome.html file you're viewing.

3. Run your cursor over the linked text at the bottom of the page to see the interactivity on the page.



Move your mouse over the navigation text to see the JavaScript rollovers.

Quick Overview: GIF/PNG-8 and JPEG Compression Settings

Photoshop 5.5 provides comprehensive compression settings for GIF/PNG-8 files. You can control:

- The type of palette generated
- The amount of dither applied
- The dithering algorithm used
- Whether transparent pixels are maintained or filled with a matte color
- The matte color used to fill transparent areas or to blend with partially transparent edge pixels, preventing haloing for transparent graphics
- Whether a file uses interlacing to download in multiple passes for a better viewing experience
- The amount of lossy compression added to GIF files with minimal image degradation
- The number of colors generated for an image
- The range of colors that snap automatically to their Web equivalents

For JPEG files, you can control:

- The level of image quality you want—Low, Medium, High, or Maximum
- The precise balance between image quality and final file size (numerical image quality)
- Whether a file uses a progressive setting so it can download in multiple passes for a better viewing experience
- Whether to embed an ICC profile (if available)
- Whether you want the most optimized file with the smallest file size despite some loss of compatibility
- The amount of blur applied to images to reduce JPEG compression artifacts
- The matte color used to blend transparent pixels (JPEG doesn't support transparency)

For detailed descriptions of these options, see the *Adobe Photoshop 5.5 New Feature Highlights* document.

This home page typifies the kind of pages people are developing for their Web sites today. It contains a number of sliced images to support interactivity. Later in this section, we'll look at how easy it is to use ImageReady to slice graphics and add rollovers and animations. First, let's look at how to use the optimization features to prepare the portrait of Frank Lloyd Wright for Web display.

Basic Web Tasks: Creating the Smallest Possible Web Graphics

When you're preparing Web graphics for online viewing, you typically focus as much attention on balancing image quality and file size as you do on designing your graphics. Your goal is to get the best-looking graphics possible while maintaining optimal download and display times. You also need to check out other factors that affect your final image quality, including how 8-bit graphics look in different browsers and how screen brightness differences on Macintosh and Windows monitors alter your image's look.

Photoshop 5.5 presents easy-to-use controls for all of these tasks in the Save For Web window. It even delivers higher levels of compression than previously possible with its unique Lossy GIF feature, which achieves 10–50% smaller GIF files with minimal loss of image quality. The Save For Web window provides:

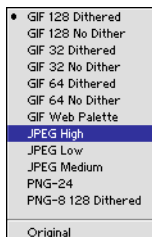
- **Optimization controls** Photoshop 5.5 supports the GIF, JPEG, PNG-8, and PNG-24 optimization formats for reducing file sizes. You choose the optimization format that's appropriate for your image based on its colors and tonal range. In general, use GIF and PNG-8 to compress images with flat color or sharp edges and crisp detail; JPEG to compress photographic images; and PNG-24 for photographs where you need to preserve variable levels of transparency.
- **LiveView panels with choice of 2-up or 4-up views** Comparing an original image to an optimized version on-screen is the best way to make tradeoffs in image quality and file size. You can then fine-tune the compression settings applied until you achieve just the balance you want. With Photoshop 5.5, you can look at an original and optimized version side by side in 2-up view, or an original image along with three optimized variations in 4-up view. Each view also displays pertinent details, such as the compression settings applied, the final file size, and the projected download speed.
- **Powerful color controls** One of the best ways to reduce GIF or PNG-8 file sizes while maintaining image quality is to minimize the number of colors saved with an image. The Color Table tab in the Save For Web window displays the colors associated with the 8-bit image you're optimizing. Using the controls available, you can add, delete, edit, or lock colors. Locking colors ensures that the color remains untouched as you eliminate other colors. You can easily shift colors to Web-safe equivalents. You can also view RGB and Hexadecimal values for colors at a glance.
- **Preview controls** With the Save For Web window, you can preview browser dither by selecting the Browser Dither option from a popup menu, or by setting your computer display to 8-bit and then previewing the optimized image in the Web browsers you specify. In addition, you can simulate the effect that Windows and Mac OS displays have on your graphics and make corrections (Mac OS and Windows systems use different gamma values to display graphics on-screen with the side effect that graphics look darker on Windows systems).

All of the options available in the Save For Web window are also available and work the same way in the ImageReady 2.0 component to ensure a completely flexible workflow.

Try optimizing a file:

1. In Photoshop 5.5, choose File > Open. Then locate flwportrait.psd, and open the file.
If prompted, click Don't Convert in the Profile Mismatch dialog box.
2. Choose File > Save As and save the file to a different name, so you can use the original file as necessary.
3. Choose File > Save For Web.
4. Click each of the tabs to see the different views with the default optimization settings applied: Original, Optimized, 2-Up, and 4-Up.
For example, in 4-Up view, look at the original image, the image with the selected optimization settings applied, and two Photoshop-generated variations.
5. Return to the Original tab, and choose JPEG High from the Settings menu.
Photoshop 5.5 includes a selection of standard settings on this menu, so you can quickly apply them to your images. You can choose among preset GIF combinations using 32, 64, or 128 colors with or

Choose preset optimization settings from the Settings menu in the Save For Web window



Tip

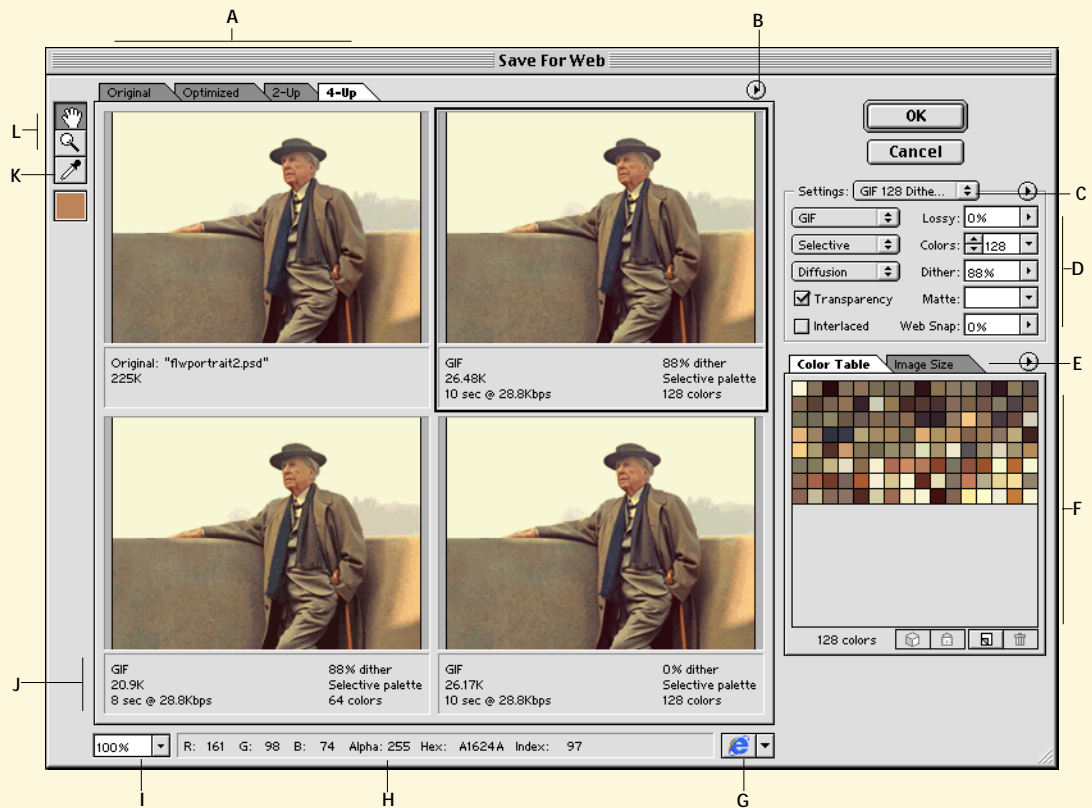
You can also zoom in and out quickly using keyboard shortcuts. Just press Command+ (Mac OS) and Ctrl+ (Windows) to zoom in or Command- (Mac OS) or Ctrl- (Windows) to zoom out.



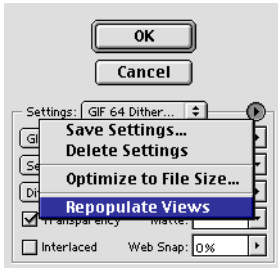
6. Click the Optimized, 2-Up, and 4-Up tabs to check out your viewing options.
7. With the 4-Up tab selected, click the zoom tool in the upper-left corner of the Save For Web window. Then click to zoom in on the original image. Because the original and optimized images are linked, they all zoom in to same level.
8. Switch to the hand tool and pan around the image.

Note: The images are linked when you pan as well as zoom. Also watch the RGB and Hexadecimal color readouts update at the bottom of the window as you move your cursor around the screen.
9. Switch back to the zoom tool, and press Option (Mac OS) or Alt (Windows) to zoom out again.

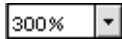
Quick Overview of the Save for Web Window in Photoshop 5.5



- A View the image in four different ways: with no optimization settings applied, with the current optimization settings applied, with the original and optimized image side by side to check out the image quality, or with the original and three optimized variations.
- B Display a popup menu with options for viewing browser dither, comparing the affects of Windows and Macintosh displays, trying different modem speeds, and more.
- C Select named sets of optimization settings from this menu. Photoshop 5.5 includes a number of common sets for GIF, JPEG, PNG-8, and PNG-24 files. You can save more named sets with optimization settings that you use often.
- D Set optimization options for GIF, JPEG, PNG-8, or PNG-24 files.
- E Click to set options that resize the image larger or smaller.
- F Manage the colors in GIF and PNG-8 files: Select/deselect, add/delete, lock/unlock, edit, sort by characteristics, and much more.
- G Select a Web browser in which to preview your image for browser dither and other artifacts.
- H Displays the RGB and Hexadecimal readouts of colors as your cursor rolls over those colors in the color table or rolls over the images in the LiveView panels.
- I Zoom in or out of the image using predefined zoom settings. The images are linked and always zoom to the same magnification level.
- J Displays the applied optimization settings, file size, and estimated download time.
- K Use the eyedropper tool to select colors in the original image. The selected color appears in the color swatch below the eyedropper.
- L Zoom and pan in the original or optimized images. The images are linked and always zoom and pan together.



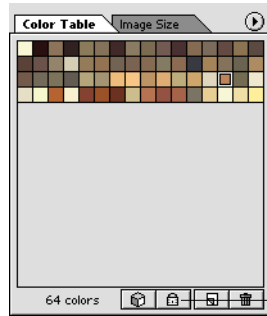
When you apply different optimization settings, choose Repopulate Views to see new variations.



10. Click the first optimized variation (the image in the upper-right). Then choose GIF 64 Dithered from the Settings menu.
While this image is better suited for JPEG settings, let's take a look at what you can do with GIF settings. We'll look again at JPEG settings in the section on slicing images later in this document.
11. Note that the other two variations still reflect the JPEG settings you applied previously. Now choose Repopulate Views from the popup menu to the right of the Settings menu to update the views.
Let's look at how we can reduce the image size by reducing the number of colors used.
12. First, make sure the image in the upper-right is still selected. Then choose Sort By Popularity from the Color Tab popup menu to see which colors are used most often.
Then let's lock some of the colors used in Frank Lloyd Wright's face—these colors are used sparingly, but deleting them would cause his face to look a little splotchy, particularly along the jawline.
13. Choose 300% from the zoom menu in the lower-left corner. Then use the hand tool to pan the image until you're centered on his face.
14. Select the eyedropper tool.
15. Run the tip of the eyedropper tool along his jawline while keeping an eye on the RGB readout at the bottom of the window. When you see this value, click and hold: R 190, G 131, B 94. Look at the Color Table to see that you've automatically selected the color there.

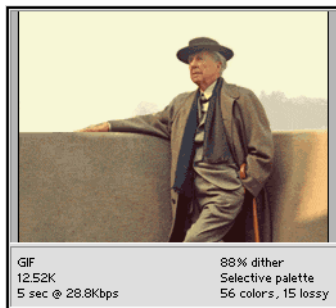
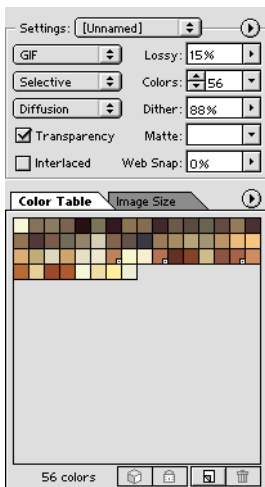
R: 190 G: 131 B: 94 Alpha: 255 Hex: BE835E Index: 45

16. Click the Lock button to lock the color in place.



17. Repeat Steps 15–16 for these colors in his jawline: R 177, G 113, B 83 and R 162, G 101, B 78.
18. Zoom out to 100% view again.
19. Enter 56 for Colors and click away. Note that you immediately shave 1 second off of the original download time for GIF 64 Dithered settings.
20. Click the Lossy arrow to open the slider. Adjust it to read 15% and click away.

You've reduced the file size and shaved two more seconds off the download time without undermining your overall image quality. Now let's preview the results with browser dither.



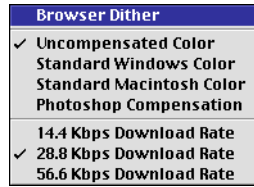
Easily keep track of the estimated download time (and how your settings are affecting it) in the Save For Web window.

About Lossy GIF

Photoshop 5.5 is introducing a unique new compression algorithm, called Lossy GIF. This algorithm delivers significantly higher levels of compression than previously possible, allowing you to achieve 10–50% smaller GIF files with minimal loss of image quality. You control the Lossy GIF setting by entering values or adjusting the slider control for the Lossy option in the Save For Web window (Photoshop) or the Optimize palette (ImageReady).

Lossy: 15%

21. With the optimized image still selected in the 4-Up window, choose Browser Dither from the popup menu just above the upper-right image (the one you've been working on).



The Browser Dither option simulates the extra dithering that would be applied if this image were displayed in a browser on a monitor set to 256-color (8-bit) display.

22. Click OK to save the final GIF file. Then close the original GIF file.

Saving and Deleting Optimization Settings

You can easily add your own custom combinations of optimization settings to or delete them from the Settings menu in the Save For Web window.

Try saving a set of optimization settings:

1. In Photoshop 5.5, open a new file. For example, open flwportrait.psd in the Rev_Guide folder. Then save it to a new name.
2. Choose File > Save For Web.
3. Set options in the optimization area.
When the current optimization settings don't match any named set, Unnamed appears in the Settings menu.
4. Choose Save Settings from the popup menu to the right of the Settings menu.
5. Name the settings, and click OK.

Try deleting a named set of optimization settings:

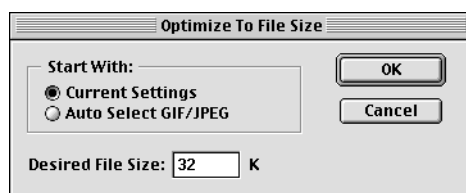
1. In the Save For Web window, choose the named set you want to delete from the Settings menu.
2. Choose Delete Settings from the popup menu to the right of the Settings menu.

Optimizing a Graphic to a Particular Size

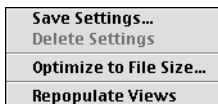
Sometimes file size is the most important consideration when you're optimizing a graphic. You need the graphic to fit within a certain size limit to meet the requirements for a Web page. What's more, making the tradeoffs to get there may take more time than you have. That's why the Save For Web window includes an option for specifying the file size and letting Photoshop instantly calculate and present the optimal combination of settings to achieve it.

Try optimizing a graphic to meet a file size limit:

1. In Photoshop 5.5, open a new file. For example, open the flwportrait.psd in the Rev_Guide folder. Then save it to a new name.
2. Choose File > Save For Web.
3. Click the 4-Up View to see several options that Photoshop generates automatically.
4. If you want Photoshop to base its calculations on certain settings, choose them in the optimization area or from the Settings menu.
5. Choose Optimize For File Size from the popup menu to the right of the Settings menu.



Specify the desired file size for Photoshop to achieve.



Save settings for ongoing application by choosing Save Settings from the popup menu in the Save For Web window.

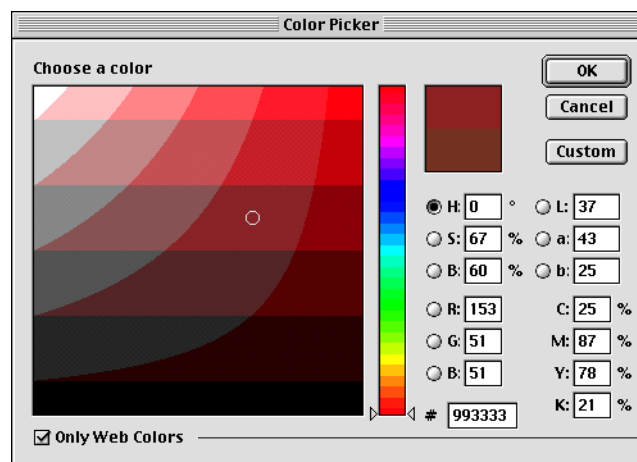
6. Specify whether Photoshop should start from current settings, or it should determine for you whether JPEG or GIF settings are more appropriate for the graphic.
7. Then enter the target file size and click OK.
The resulting file will achieve the targeted size or a slightly smaller size.
8. View the results and fine-tune the settings as appropriate. Then save the optimized file.

Editing Colors

Photoshop makes it simple for you to edit colors, changing any selected color in the Color Table to another RGB color.

Try editing a color:

1. In Photoshop 5.5, open a new file. For example, open flwportrait.psd in the Rev_Guide folder. Then save it to a new name.
2. Choose File > Save For Web.
3. Click the 2-Up View. Then choose GIF 64 Dithered from the Settings menu.
4. Double-click a color in the Color Table to open the Color Picker.
5. Click a new color in the Color Picker. Alternatively, check the Only Web Colors option to limit the selection to Web-safe colors, and then select a new color. Click OK.



Check this option to restrict the available colors to Web-safe values only.

6. A small black diamond appears in the center of an edited color to indicate its status.

Advanced Web Tasks: Designing Interactive Graphics

Photoshop 5.5 provides complete support for creating and optimizing advanced Web graphics. With its ImageReady 2.0 component, you can slice images and then optimize those slices selectively or create sophisticated JavaScript rollover effects with them. Furthermore, you can produce JavaScript rollovers without writing a line of code. You can then generate HTML pages automatically, including the HTML table code necessary to reassemble the sliced image. You can even update this table instantly if you make changes to the sliced image later. ImageReady also offers superb animation controls, and it supplements the creativity features in Photoshop with Styles and other additions that can enhance your Web-production activities. This section introduces all of these important Web design features.

Slicing Tools for User-defined Slices

Designing appealing Web sites involves a complex workflow. Web designers often comp a selection of Web designs as single images in Photoshop. After the client selects the design they want, the Web designer begins the slow process of slicing the image into sub-images. Sliced images give designers more control: you can, for example, apply different optimization settings that are appropriate for particular parts of the image, such as applying GIF settings to areas with solid colors and text and JPEG settings to photographic areas. Slices also support JavaScript rollovers.

Try it!

As you create advanced Web graphics, remember that you can still move your PSD files back and forth between ImageReady and Photoshop without a hitch. ImageReady simply embeds the rollover, animation, and other information in the PSD file. Just click the Jump To buttons on the toolboxes anytime to try it as you work in this section.



Once the image is sliced, the designer then builds an HTML table that references the slices and reassembles them into the original image. At that point, the designer—or the production person working with the designer—can add JavaScript code that creates the rollover. If the client then comes back with last-minute changes, the whole time-consuming process starts over again. The ImageReady 2.0 component streamlines this process, giving you the control you need to:

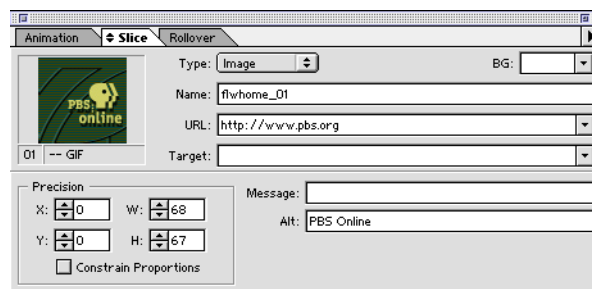
- **Create and display user slices** ImageReady includes a slice tool for creating user-slices. You simply drag rectangles over the image areas you want to slice, and ImageReady defines auto-slices automatically to fill in the final HTML table. You can then hide and show slices anytime. You can also arrange guides yourself or space them evenly with the Create Guides command, and then use the Create Slices From Guides command to generate the image slices.
- **Manage image slices** ImageReady makes it easy to select individual user-slices and apply different optimization settings to them, as well as assign URLs, Alt tags, or JavaScript messages. You can specify whether a slice is an image slice or a non-image slice. Non-image slices contain solid colors or HTML text. After creating slices, you can divide, combine, duplicate, resize, align, or delete slices—or even rearrange the stacking order of overlapping slices. You can also link slices. Then the settings you apply to one slice automatically apply to the others. Linked slices share a dither pattern to prevent seamlines from appearing along their edges.
- **Produce and update HTML tables** After preparing a sliced image, you save an optimized file, automatically generating a set of named image-slice files and an HTML file with the table code necessary to reassemble the image. This process produces high-quality HTML code that you can copy directly into an HTML editor. You control the formatting of this code, including indenting and whether tags are upper- or lowercase, so you can match the HTML coding standards for your Web site or for your clients. You also control how ImageReady handles the image files—you can structure how ImageReady auto-names the files used, where it stores them, and more.

Slicing an image does not interfere with moving files back and forth to Photoshop. ImageReady simply embeds this Web-specific information in your PSD file.

Try slicing and optimizing an image:

1. In ImageReady, choose File > Open. Then locate and open flwhome.psd.
2. Choose File > Save As to save the file to a different name.
3. Choose Slices > Show Slices to display the slices that have already been made in the file. Or click the Show Slices button at the bottom of the toolbox.
4. Click the Slice palette tab or choose Window > Show Slice to make the palette visible.
5. Click the double arrow on the Slice palette tab to show more of the options available.
6. Select the slice-select tool, and click on slice 1 in the upper-left corner of the image. View the URL and Alt message assigned to it in the Slice palette. Repeat this step by selecting slices 2 and 3, or by selecting any of the slices at the bottom of the image.

Click these buttons to toggle between showing and hiding slices in an image. By default, every image has one slice.



Use the Slice palette to assign and view URLs, Alt tags, messages, and more.



7. Select the slice tool, and cut slice 5 into two halves: position the slice tool in the upper-left corner of the current slice 5. Then drag down and to the right around the text. ImageReady automatically adds new slice lines and makes the area containing the portrait of Frank Lloyd Wright slice number 6.

Tip

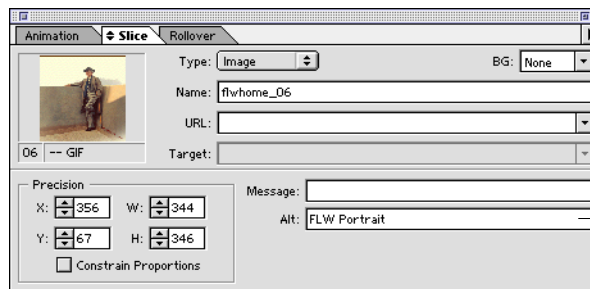
You can set slices that are filled with solid colors or solid colors and text to a No Image state in the Slice palette. ImageReady then creates an empty HTML table cell, which can contain HTML text. The advantage of this setting is smaller file sizes: it's yet another way to reduce the overall size of a graphically rich image. The potential downside depends on your philosophy about look and feel: with No Image areas with HTML text, your audience then has browser-level control over the appearance of the text.

- Repeat Step 8 but drag around the portrait of Frank Lloyd Wright. Be sure to drag to the edge of the image to avoid slivers.



Drag around the painting of Frank Lloyd Wright to create another user slice.

- Select the slice-select tool, and click the new slice 5. In the Slice palette, enter an Alt tag, such as FLW Main Text, for this slice. Then assign an Alt tag, such as FLW Portrait, to slice 6.

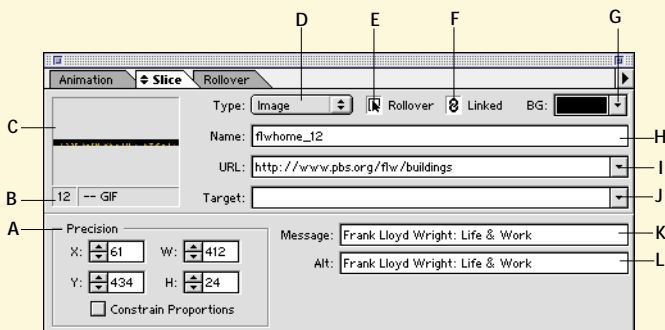


Assign an Alt tag to the slice.

- Click 2-Up or 4-Up view. Click an optimized view to select it. Then use the hand tool to move the image until you're centered on the Frank Lloyd Wright portrait.
- Click the Optimize palette tab or choose Window > Show Optimize to make the palette visible.

Overview of the Slice Palette

ImageReady provides a Slice palette that streamlines working with slices. It displays the optimized size and download time of each selected slice, so you can evaluate sliced images with the same ease as other images. Here's a quick look at the Slice palette.



- A Specify the precise location or size of a selected slice. Checking Constrain Proportions preserves the current proportions as you resize the slice.
- B Indicates the slice number and file format for the selected slice.
- C Displays a thumbnail of the slice.
- D Determine whether the slice is an image or a non-image slice. Non-image slices contain HTML text or solid colors and download more quickly.
- E Indicates whether the slice has a rollover.
- F Indicates whether the slice is linked to other slices.
- G Specify the background color for slices containing transparency. You can select the current matte color, a Web-safe color, no color, the current foreground or background color, or other for choosing a color with the color picker.
- H Enter a new name or accept the default name for the slice. *Note:* You can alter the default pattern that ImageReady uses to name slices by choosing File > Preferences > Slices and selecting different elements.
- I Assign a URL to link the slice to another file.
- J Specify the target frame in which the slice appears. Only necessary in pages where you're using frames to divide the browser window, so that more than one Web page can appear at once.
- K Enter a message to appear in the browser's status area. By default, the assigned URL appears.
- L Enter an Alt tag for the selected slice.

More slicing tips

- You can easily promote an auto-slice (a slice that ImageReady generates automatically) to a user-slice: just select the slice with the slice-select tool, and choose Slices > Promote to User-slice.
- You can link slices and apply optimization settings to them all at once. Press the Shift key and click the slices you want to link with the slice-select tool. Then choose Slices > Link Slices.

12. If necessary, select slice 6 (the portrait) with the slice-select tool. Then choose JPEG Medium from the Settings menu in the Optimize palette to apply these optimization settings.
13. Select slice 5, and apply GIF 32 Dithered from the Settings menu.
14. Before starting the next section, click the Optimize tab. Or, if you're not planning to do the steps in the next section, close the file.

Powerful JavaScript Rollover Effects

JavaScript rollover effects are the technique of choice for adding interactivity to Web sites. Rollovers make an image change in one area when you click that area, roll a mouse over it, or press down the mouse button on it. For example, a button could flash or change colors when a mouse rolled over it to invite interaction. In addition, you can create secondary rollovers with ImageReady: when you click, roll over, or mouse down on one part of an image, a change occurs in another part of an image. You can even trigger an animation in a secondary rollover.

ImageReady gives nonprogrammers control over these effects by making it possible to generate complex rollovers without mastering JavaScript or writing a line of code. Instead, you slice an image, and then define rollovers for different slices with the Rollover, Layers, and Animation palettes. A rollover could simply involve changing a layer's visibility or applying a layer effect.

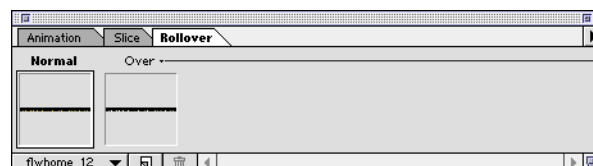
The controls in ImageReady are flexible, so you can explore different ideas quickly to achieve exactly the results you want. For example, creating secondary rollovers is easy: you simply make changes anywhere in an image as you set up the rollover, and ImageReady detects the change and automatically generates the secondary rollover for you. When you save an optimized file that contains rollover effects, ImageReady writes JavaScript code in the HTML table cells for each affected image slice. It also saves each rollover image in a separate named file.

If you're proficient with JavaScript, you can define custom mouse actions to supplement the ones provided by ImageReady (Over, Down, Click, Out, and Up). This advanced technique involves adding your own JavaScript code to the HTML files.

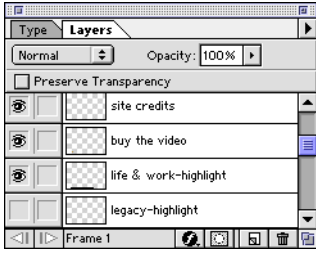
You can also take advantage of the easy roundtripping between ImageReady and Photoshop, using the powerful creativity features in Photoshop to create a distinctive range of rollover effects. As with other attributes, rollovers are perfectly preserved in round trips between these programs.

Try creating a rollover:

1. If you just completed the slicing exercise, skip this step. Otherwise, do the following:
 - Launch ImageReady.
 - Choose File > Open, and then locate and open flwhome.psd.
 - Choose File > Save As to save the file to a different name.
 - Click the Show Slices button at the bottom of the toolbox.
 - Select the slice tool, and slice the current slice 5 into two. First drag a rectangle around the main text. Then drag a rectangle around the portrait of Frank Lloyd Wright. Be careful to drag to the edge of the slices to avoid slivers.
2. Click the Rollover palette tab, or choose Window > Show Rollover to make the palette visible. Also click the Layers palette tab, or choose Window > Show Layers to make this palette visible. This image already contains a few rollovers. Let's look at those rollovers and then add three more.
3. With the slice-select tool, click slice 12, Frank Lloyd Wright: His Life & Work. Two states appear in the Rollover palette—the Normal state and the Over state.

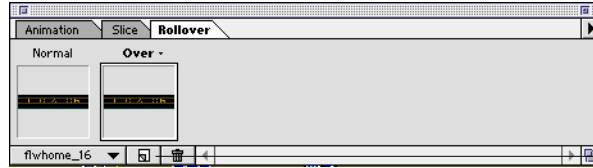


Select the mouse action for the rollover from this menu.



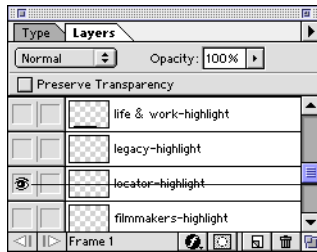
Note that the “life & work - highlight” layer is visible when you select the Over state in the Rollover palette.

4. Click the Over state in the Rollover palette. The text, Frank Lloyd Wright: His Life & Work, turns white. Now look over at the Layers palette to see that the “life & work - highlight” layer is visible. Click the Normal state again to see the text turn yellow and the “life & work - highlight” layer become invisible.
5. Repeat Step 4 but look at the rollover for the Legacy slice directly below the first rollover you examined.
6. Now, let’s set up a rollover: use the slice-select tool to select the Locator slice (slice number 16).
7. Choose New State from the Rollover palette popup menu, or click the New State button.



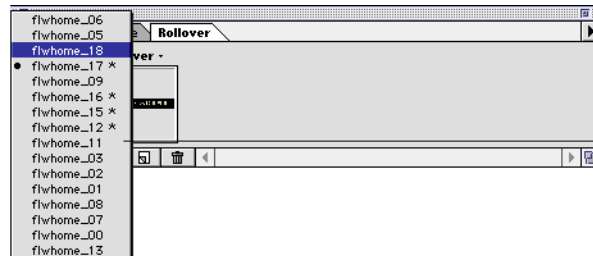
Click the New State button to add a rollover state to a selected slice.

8. In the Layers palette, make the “locator - highlight” layer visible.



Make this layer visible for the rollover effect.

9. Repeat Steps 6–8 to create similar rollovers for the Film Makers and Resources slices (numbers 17 and 18). For an alternate way to select these slices, try choosing them from the popup menu in the lower-left corner of the Rollover palette.



Select a slice from the menu in the lower-left corner of the palette.

Choose the mouse action for your rollover state by clicking the arrow over a new state and selecting one.

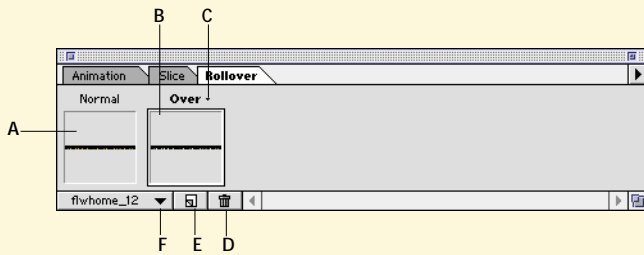


You’re defining a rollover that occurs when the mouse passes over the area in the finished HTML file. However, you could choose other states: just click the little arrow over the rollover state in the palette to see other options.

10. Check out your work: choose File > Preview In > [name of your Web browser] to open the file as an HTML page. Then run your cursor over the rollovers to see them in action.
While you cannot preview rollovers in ImageReady, the program does make it simple to check out your work—and, if necessary, tweak it—by automating the process of displaying it in a Web browser.
11. If you plan to do the next section, close the HTML file and start the next section. Otherwise, close the HTML file and the ImageReady file.

Overview of the Rollover Palette

The Rollover palette streamlines the creation of rollover effects. It displays the current state for an image slice, plus the rollover states you add to it. Here's a quick look at what you can do with the Rollover palette.



- A View or select the current slice state. Simply click on this thumbnail to select it.
- B View or select a rollover state.
- C Select a mouse action for your rollover state from the drop-down menu: Over, Down, Click, Out, and Up, plus None for temporarily disabling a rollover state and Custom for adding your own mouse actions (you add your own JavaScript code for these custom actions to the HTML file later in the process).
- D Delete a selected rollover state.
- E Add a new rollover state.
- F Select the image slice you want to use from the drop-down menu.

Update HTML Command

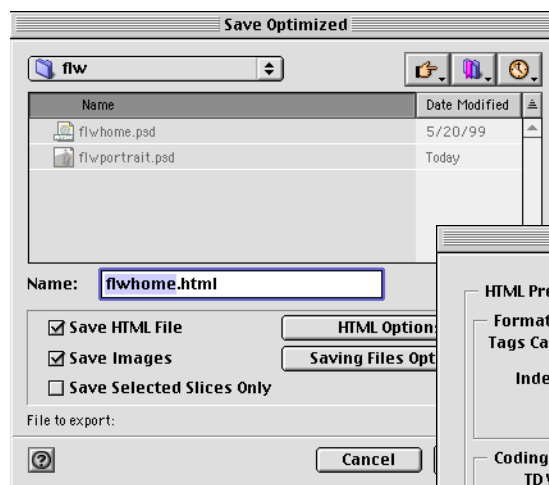
After completing production on an image, the final step is to generate an HTML file. ImageReady streamlines this step, and also makes it simple for you to update an HTML file if you edit the original image later. This easy updating shaves significant time from the arduous process Web designers currently go through of preparing an image, generating the HTML, and then starting over because the client has last-minute changes.

ImageReady simplifies the HTML updating process by embedding comments at the beginning and end of a file for easy detection later on. Even if you need to copy the HTML table into a bigger HTML file, ImageReady can read the file, recognize its original code, and replace the appropriate portion. ImageReady can also identify and replace the correct code in HTML files containing several tables from different image files. You just choose the Update HTML command when you make your edits and let ImageReady handle the rest!

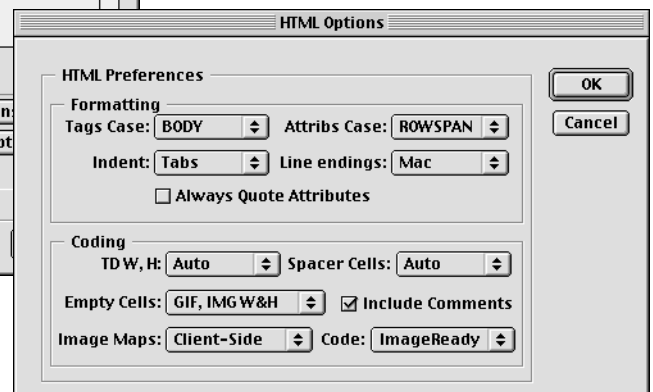
Try updating an HTML file:

- Using the file you worked on in the last two exercises, choose File > Save Optimized As. If necessary, go back and quickly complete the previous two sections. It takes only a few minutes.
- Specify the Save Optimized options you want and click OK. ImageReady then generates an HTML page and an Images folder containing the image slices for the page.

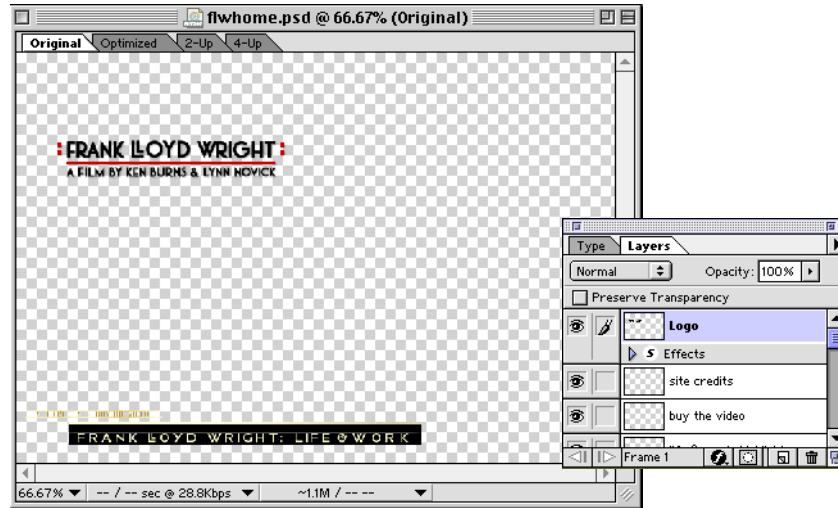
Check out the HTML Options button to view the HTML formatting controls provided. Then click OK to return to the Save Optimized dialog box.



Click the HTML Options button to view the options you have for controlling how ImageReady formats the HTML code.



3. Open the page in your Web browser. Check out your rollovers. Then close the Web page.
4. Return to the original file and make any kind of change. For example, you could make a simple change of painting the line above “A Film by Ken Burns & Lynn Novick” black to match the text:
 - Click the Original tab or click to select the Original image on the 2-Up or 4-Up tabs (you can only edit the original version, not an optimized version).
 - Make the Background layer invisible by clicking the eye icon to the left of the layer name.
 - Select the Logo layer in the Layers palette.

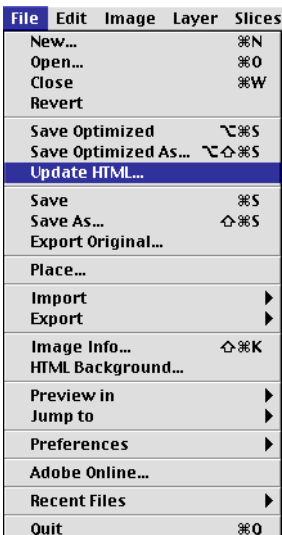


- Zoom in on the logo using the zoom tool.
- Select the eyedropper tool and sample the black in the logo text.
- Switch to the paintbucket tool and click on the line to color it black.
- Choose 100% from the zoom menu in the lower-left corner, and then make the Background layer visible again.

5. *Optional:* Alternatively, you could change the rollovers, so that they appear when you click the text, not when your cursor passes over the text:
 - Click the Rollover palette tab or choose Window > Show Rollover.
 - In succession, choose slices 11, 14, 15, 16, and 17 from the drop-down menu to select and change each rollover.



Change the rollover state from Over to Click by choosing Click from this menu.



- Click the rollover state for each slice in the palette, and then choose a different mouse action from the drop-down menu. For example, choose Click for each of them.

6. Choose File > Update HTML. Select the HTML file you created in Step 2, and click Open. When prompted to replace the image slices, click Yes All.
7. Switch to the Web browser. Then open the page again to see your changes. Or, if you didn't close the page earlier, click Reload to update the page with your changes.

Enhanced Animation Controls

Animated GIF files create the illusion of movement by presenting a sequence of frames in rapid succession that each vary slightly from the previous frame. Animated GIF files are widely used on the Web to create an appealing sense of interactivity. Just as with still images, the trick to using animated GIFs effectively is to get the best animation quality you can with the smallest possible file sizes. ImageReady provides the right set of tools to accomplish this goal.

With ImageReady, you can open one or more multi-layered files from Photoshop, Adobe Illustrator, or other sources; create new frames and make changes to the layers in each frame with the Animation palette; and then output animated GIF files for incorporation into a site.

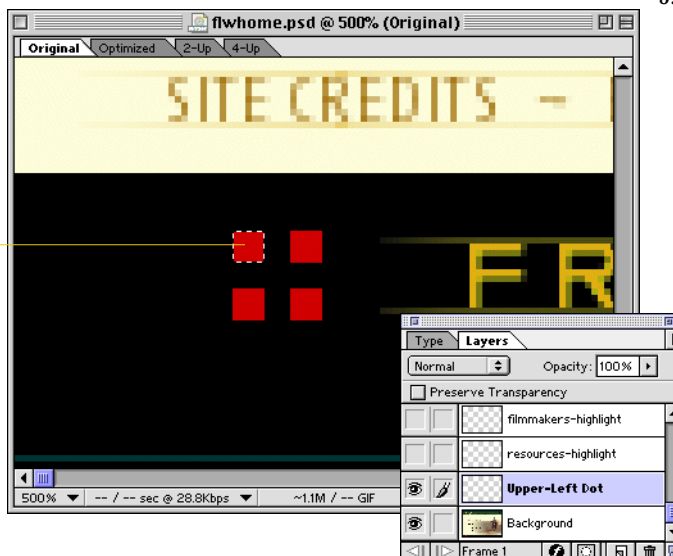
Each layer is a separate object (or “cel” in traditional animation terms) in the animation. As with rollover states, changes you make to layers—hiding or showing them, moving them, applying opacity or special effects, and more—occur in each frame, while changes you make to actual pixels occur across all subsequent frames. Alternatively, you can move elements in an image onto separate layers and manipulate those layers to create simple animations that are saved directly in the HTML file.

The Animation palette provides tween (short for “in-betweening”) controls, so you can automatically add a series of frames between two existing frames while varying layer attributes such as position, opacity, or layer effects. You can tween selected layers within existing frames to fine-tune their look. You can also select multiple frames and move them around easily, or tween a selected layer between them.

You use the Animation palette to preview an animation as you work on it, as well as to set playback options for the final animation. This palette gives you direct access to delay values for each frame, so you can precisely control when frames appear. ImageReady can import frames from Apple QuickTime movies (or movies saved in formats that QuickTime supports), as well as export animations to QuickTime. It also provides advanced compression options for animated GIFs, ensuring the smallest possible file sizes.

Try creating a simple animation for the Frank Lloyd Wright page:

1. If you just completed the previous exercise, skip this step. Otherwise, do the following:
 - Launch ImageReady.
 - Choose File > Open, and then locate and open flwhome.psd.
 - Choose File > Save As to save the file to a different name.
 2. Click the Animation palette tab, or choose Window > Show Animation to make the palette visible. Also click the Layers palette tab, or choose Window > Show Layers to make this palette visible.
 3. Use the zoom tool to zoom into 500% view of the four little red dots next to Frank Lloyd Wright: Life and Work.
 4. Click the Background layer in the Layers palette to target it.
- Now you're going to move the 4 red dots to separate layers so you can animate them easily.



Marquee-select the upper-left dot.

5. Marquee-select the upper-left dot. Then press Command+J (Mac OS) or Ctrl+J (Windows) to paste the dot into the same location on a new layer.



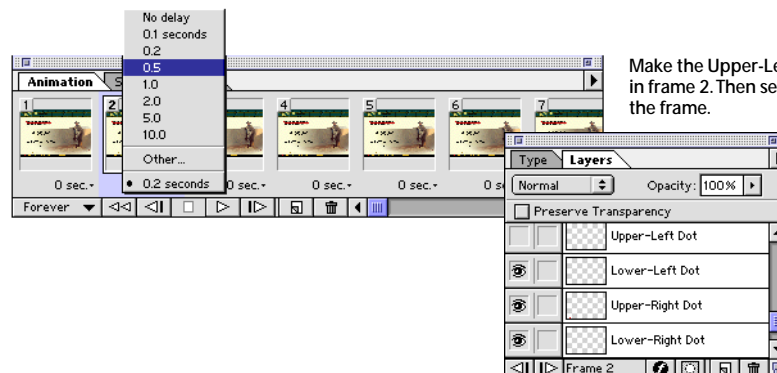
6. Double-click Layer 1 which appears just above the Background layer in your Layers palette list. Rename this layer Upper-Left Dot, and click OK.

7. Repeat Steps 5–6 for each of the other three dots. Use these names for the appropriate layers: Upper-Right Dot, Lower-Left Dot, and Lower-Right Dot. Remember to click the Background layer again after pasting each dot to target that layer.
8. Make the four new layers invisible temporarily.
9. Now you need to delete the original dots:
 - Select the eyedropper tool and sample the background behind the red dots.
 - Target the Background layer in the Layers palette.
 - Marquee-select each dot, and use the paintbucket tool to fill it with the color you just sampled.
10. Make the four new layers visible again.
11. Click the Animation palette tab or choose Window > Show Animation to make the palette visible.
12. Click the New Frame button or choose the New Frame command from the palette menu eight times to add eight new frames to the animation sequence.



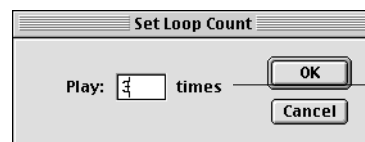
Add eight frames to the animation. Then specify your animation settings for each frame.

13. Click Frame 2. Then make the Upper-Left Dot layer invisible for this frame. Click the frame delay arrow just under Frame 2 and set the delay to 0.5 seconds.



Make the Upper-Left Dot layer invisible in frame 2. Then set the frame delay for the frame.

14. Click Frame 3. Set the frame delay for this frame to 0.2 seconds.
15. Repeat Steps 13-14 for Frames 4 and 5, but make the Lower-Right Dot layer invisible and then visible.
16. Repeat again for Frames 6 and 7 with the Upper-Right Dot layer. Then make the Lower-Left dot layer invisible for 0.5 seconds in Frame 8.
17. Click Frame 9 and set the timing to 1 second.
18. Choose Other from the Loops menu in the lower-left corner of the palette. Enter 3 for Play, and click OK.
19. Return to Frame 1, and click the Play button in the palette to see your animation in action.

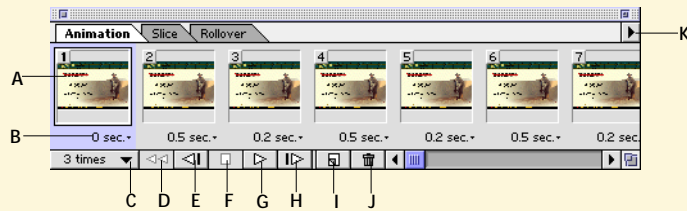


Specify the number of times the animation should loop.

20. If you want, change the sequence of layers and the frame delays applied to create more complex patterns. When you have something you like, choose File > Preview In > [your browser name] to see the animation play back in context.

Overview of the Animation Palette

The Animation palette provides the controls you need to create high-quality animations. Here's a quick look at what you can do with the Animation palette.



- A View the frame number and a thumbnail of the frame.
- B Select a frame delay value from the popup menu.
- C Specify the number of times the animation plays, or that it play continuously.
- D Return to the first frame in the animation.
- E Step back one frame.
- F Stop the animation preview.
- G Play a preview of the animation.
- H Move forward one frame.
- I Add a frame to the sequence right after the currently selected frame.
- J Delete selected frames.
- K Display a menu with a range of animation options, including a command for optimizing an animated GIF file.

Layer Effect Styles

Photoshop and ImageReady both offer “live” layer effects, so you can instantly add drop shadows, bevels, inner and outer glows, and other effects to layers. In addition, Photoshop and ImageReady now support a new solid-color layer effect, and ImageReady provides gradient and pattern layer effects as well. Layer effects have proven popular with Web and other designers because they're easy and fast to use, they produce attractive results, and they update instantly if you edit the contents of the layer.

To apply layer effects in ImageReady, you select a layer in the Layers palette and then select an effect from the Layer Effects menu at the bottom of the palette. A nested effects layer then appears under the targeted layer. You can vary its settings by selecting it in the Layers palette and adjusting options in the Layer Options palette.

If you like a particular custom effect you've created, you can save it for ongoing use as a style in the Styles palette (ImageReady also ships with some predefined styles for quickly styling buttons and other Web graphics). You could, for example, apply a drop shadow effect, tailor its options, and then save it as a style by dragging it from the Layers palette into the Styles palette. To apply the style, you simply drag it from the Styles palette onto an image layer or onto a layer in the Layers palette list, or you double-click it in the Styles palette to apply it to the currently selected layer.

Try several cool features at once—layer effects, basic shape tools, secondary rollovers, and an animation tool!

1. Launch Photoshop. Then save three files as JPEG files for use in a secondary rollover in ImageReady:
 - Locate flowers.psd among your reviewer guide files. Open it, and save a copy to a different name. Select the Background layer, click the Delete Current Layer button at the bottom of the palette, and click Yes to confirm deleting the layer. Then choose File > Save For Web. Click the Image Size tab, enter 160 by 157 with Constrain Proportions checked, and then click Apply. Choose GIF 64 Dithered for Settings. Then click OK to save the file as a Web-ready GIF file.

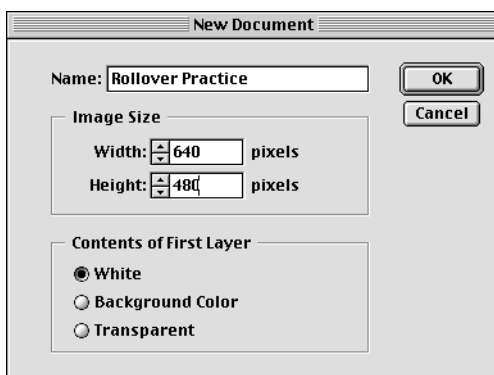
—Repeat this process with Sunflower.psd. Be sure to delete the Background layer before saving for the Web. Then resize it to 150 by 100 pixels, apply GIF 64 Dithered for optimization settings, and click OK.

—For the third image, select Port.psd. Save it to a new name. Delete the Background and Layer 1 layers. Then save it for the Web with GIF 64 Dithered compression settings applied. (It's not necessary to resize the image.)

These three images offer excellent examples of what you can do with the new art history brush. We'll work more with the original versions of these files later in this document.

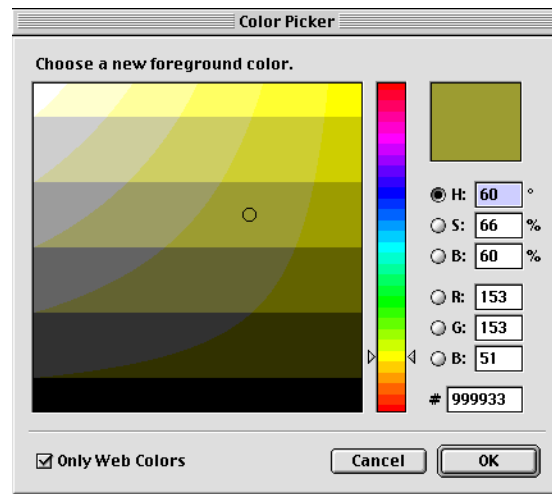
2. Close Photoshop, and open ImageReady.
3. Choose File > New, name the page Rollover Practice, and set the Width to 640 and the Height to 480. Then click OK.

Specify settings for a new document.

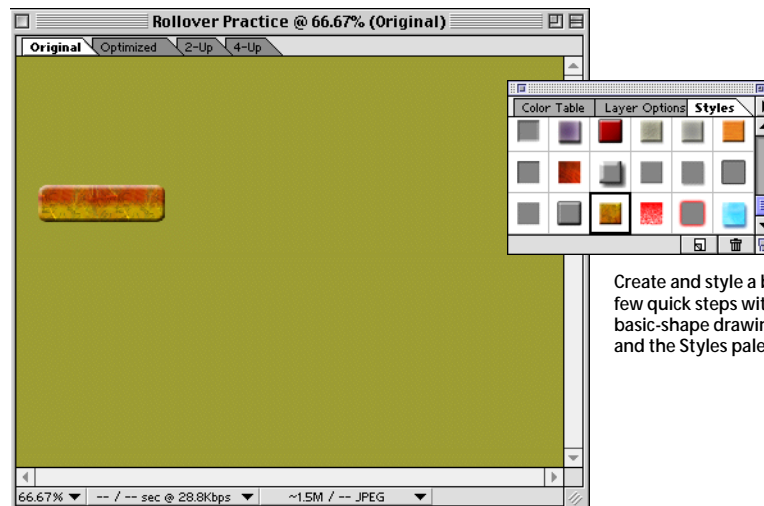


- Click the Foreground Color box on the toolbox, select a color in the Color Picker, and press Option+Delete (Mac OS) or Alt+Backspace (Windows) to fill the image area.

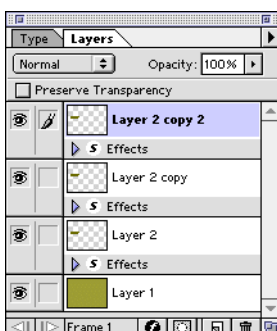
Note: Check the Only Web Colors option to choose a Web-safe color.



- Select the rounded-rectangle tool. Then draw a button along the left edge of the window (leaving room to add a title to the top of the image later).
- If necessary, click the Layers palette tab or choose Window > Show Layers to make this palette visible. Then make sure the new button layer (Layer 1) is selected.
- Click the Styles palette tab or choose Window > Show Styles to make this palette visible. Browse the style options. (Change your view of these options by selecting different commands from the palette menu. In thumbnail view, pause over any of the styles to view their names.) Double-click one to apply it. If you change your mind, try other styles by double-clicking them. ImageReady automatically updates the layer.



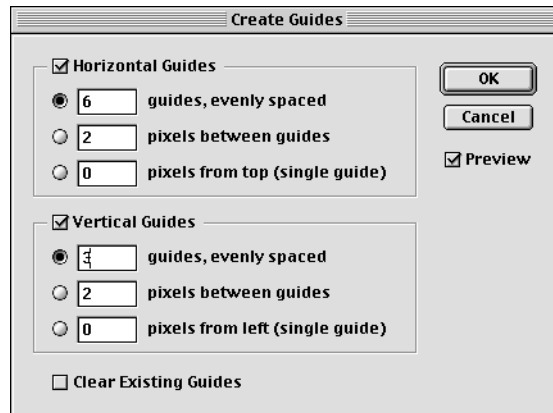
Create and style a button in a few quick steps with the basic-shape drawing tools and the Styles palette.



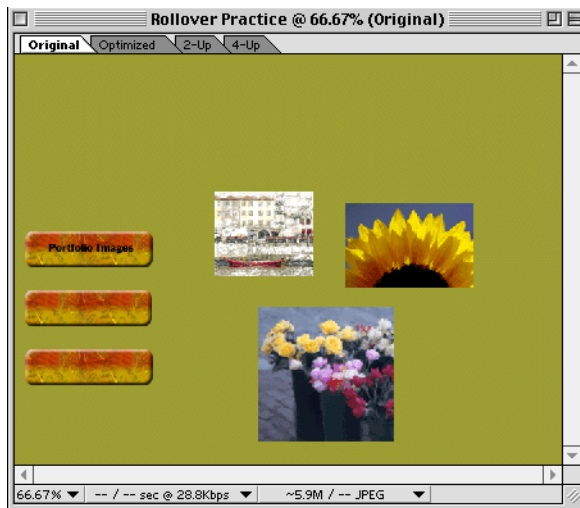
- With the button layer selected, choose Duplicate Layer twice from the Layers palette menu to make two copies of the button.

Tip
 You can also use guides to slice an image. Just lay out your guides, and choose Slices > Create Slices From Guides.

9. Choose View > Create Guides. With Horizontal Guides checked, enter 6 for Guides, Evenly Spaced. With Vertical Guides checked, enter 3 for for Guides, Evenly Spaced. Then click OK.



10. Target each new layer in turn, and use the move tool to position the buttons along the left edge of the image.
11. *Optional:* Select the type tool and create button text for each button. For example, make the first button say Portfolio Images, the second button say Sample Sites, and so on. Use the move tool to position the text layer over the appropriate button, and use the Type palette to style the text. Even apply a layer effects style to each text layer.
12. Choose View > Hide Guides.
13. Open the three GIF files you made at the beginning of this lesson.
14. Using the move tool, drag each one into the middle of the image area. Then center them on each other.



Drag the three images into the middle of the page. Then center the new layers on each other using the Flowers layer as the main reference.

15. Double-click each new layer you've added and name them for the image: Flowers, Sunflower, and Port.
16. Select the slice tool. Use it to drag rectangles around each button. Then create a user-slice around the Flowers image. Let ImageReady fill in the other auto slices.
17. Make the Flowers, Sunflower, and Port layers invisible in the Layers palette.
18. Switch to the slice-select tool, and click to select slice 2 (the one containing the top button).



Flexible type options

Photoshop 5.5 and its ImageReady 2.0 component both include enhancements to their text capabilities. They offer multiple anti-aliasing controls to fine-tune the appearance of type, and they let you create and apply synthetic text styles, such as bold, italics, or underlining, for fonts that don't support these styles. ImageReady also allows you to type text directly on the image.

To create and anti-alias text in either program:

1. Select the type tool.
2. Type a few words, such as Cool Web Graphics.
3. Choose a font, font size, and faux settings for your text:

—In Photoshop, select type options in the Type Tool dialog box.

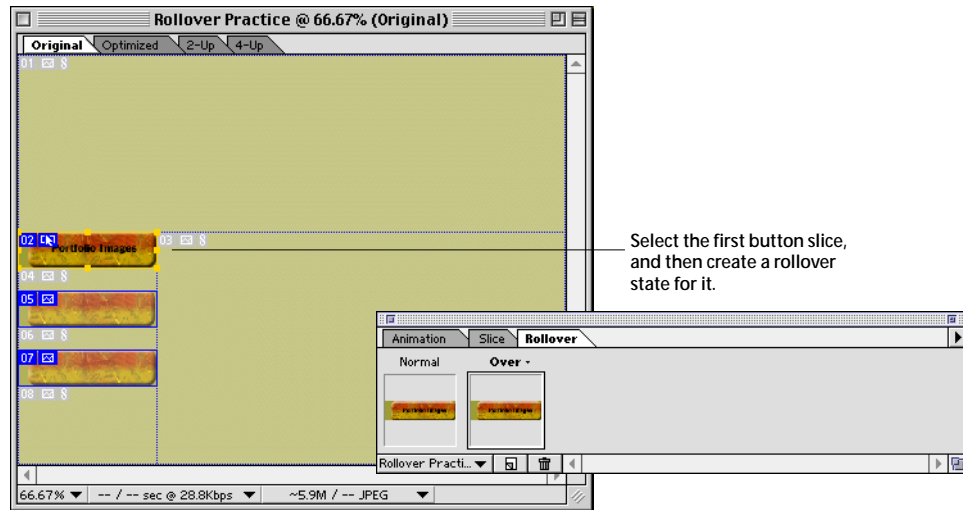
—In ImageReady, select type options with the Type palette. To apply faux settings, highlight the text and choose the style you want from the popup menu.

4. Select the different anti-aliasing options from the popup menu in the Type Tool dialog box or the Type palette. You can choose None, Smooth, Crisp, or Strong.

—In Photoshop: If you're zoomed out, close the Type Tool dialog box, and zoom in closer to the text, so you can see the affect of the different settings. Then double-click the type layer in the Layers palette to return to the Type Tool dialog box. Check Preview, and apply the different settings from the Anti-Alias menu.

—In ImageReady, zoom in on the text you created. Be sure your type tool cursor is inserted in the text. Then apply the different anti-aliasing settings.

19. Click the Rollover palette tab or choose Window > Show Rollover to make the palette visible. Then click the New State button.

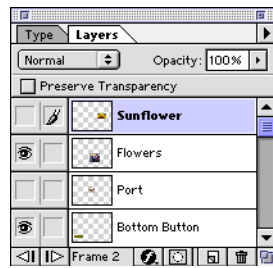


20. Click the Animation palette tab to switch your focus. Leave the first frame blank with no delay assigned to it. Then:

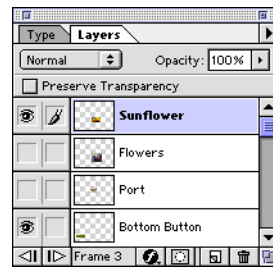
—Click the New Frame button to add a second frame. Make the Flowers layer visible in the Layers palette, and set the delay to 1 second.

—Click the New Frame button to add a third frame. Make the Flowers layer invisible in the Layers palette, and make the Sunflower layer visible. The frame delay should already be set to 1 second because it uses the previous frame's settings by default.

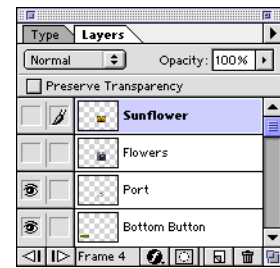
—Click the New Frame button to add a fourth frame. Make the Sunflower layer invisible in the Layers palette, and make the Port layer visible. Make sure the delay is still set to 1 second.



Layers palette for Frame 2



Layers palette for Frame 3



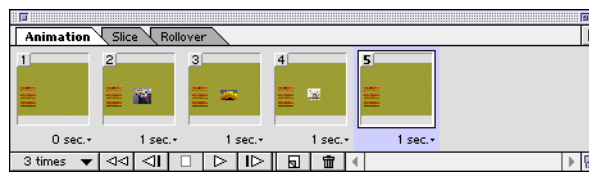
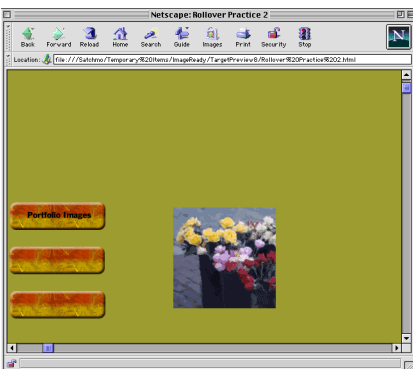
Layers palette for Frame 4

—Click the New Frame button to add a final frame, and make the Port layer invisible (with nothing visible in its place).

—Choose Other from the Loop menu, and enter 3 for number of times to loop.

—Click the first frame, and then click the Play button to preview the animation.

Preview your animated secondary rollover, and then fine-tune it as necessary.



After you specify your animation settings, your Animation palette should look like this.

21. Choose File > Preview In > [Your Browser Name] to preview the secondary rollover and animation in a Web browser. Move your cursor over the top button to see the rollover in action.

22. *Optional:* Return to ImageReady and complete the image, adding more rollovers to the other buttons and a heading at the top of the image. You could also add more detail to the animation—for example, add more frames for each layer and then vary the opacity of the layers using the Opacity control in the Layers palette. Then one image will appear to dissolve out as another image appears. Additionally, try saving this file as an HTML file by choosing File > Save Optimized As.
23. Save and close the file. Then close ImageReady.

Expand Your Creative Power

In addition to its extensive new Web support, Photoshop 5.5 delivers new creativity features that fulfill specific designer needs. These features include more intuitive masking tools, a new Art History brush, and automated tools for generating several types of print and Web-based contact sheets. This section introduces these powerful new creativity features.

Powerful, Intuitive Masking Tools

Photoshop 5.5 delivers three new masking tools that streamline your workflow, while offering you better results: the magic eraser and background eraser tools both simplify masking, making it more intuitive and easy for new or intermittent Photoshop users to create transparencies in images. The new Extract Image command provides a centralized set of tools for masking foreground images with hard-to-define edges, such as hair glowing in sunlight.

The Magic Eraser Tool



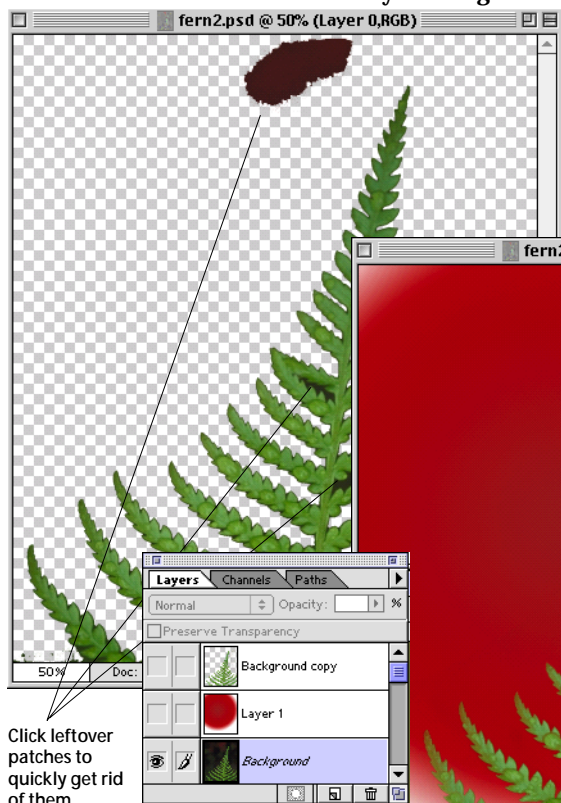
This tool erases sections of a layer—creating transparency—with a simple click of your mouse. You control whether it erases all pixels on a layer that are similar in value to the one you first clicked or only similar pixels that are contiguous to the one you first clicked. You can also set tolerance levels that define how close in value other pixels must be for the magic eraser to make them transparent.

Note: ImageReady also offers the magic eraser tool.

Try masking an image with the magic eraser tool:

1. In Photoshop 5.5, locate Fern.psd among your reviewer guide files, open it, and save a backup copy of it.
2. Click the Layers palette tab or choose Window > Show Layers to make the palette visible.
3. Click the eye icon to make Layer 0 invisible. Then make the Layer 1 and Background Copy layers visible to see the result you can achieve.
4. Make Layer 1 and Background Copy invisible again. Then click Layer 0 to target it.
5. Select the magic eraser tool.
6. Position it about halfway down the left side of the fern, near a frond, and click to erase the background. A few patches may be left, which you can zoom in on and erase with the magic eraser.
7. Drag Layer 0 above Layer 1 in the stacking order in the Layers palette. Then make Layer 1 visible so you can see the transparent results.
8. *Optional:* Undo the steps you've taken by clicking the snapshot at the top of the History palette. Then try positioning the magic eraser tool on different parts of Layer 0's background and clicking to erase it.

After clicking once



With Layer 0 made visible again

Click leftover patches to quickly get rid of them.

With one click, you can eliminate most of the background. Then zoom in on the image and click any leftover patches to produce a clean result.



The Background Eraser Tool

This tool works similarly to the magic eraser tool, except you make pixels transparent by dragging rather than clicking. As you drag the mouse across an image, the background eraser dynamically erases pixels. More importantly, this tool “decontaminates” the edge pixels, effectively removing the tint of background color and making them partially transparent so you can cleanly composite them on another background. When using this tool, you can control whether it erases all the pixels you drag over, only those that match the first pixel sampled, or only pixels that match the current background color. You also determine whether dragging erases contiguous or noncontiguous pixels that match your masking criteria. Other options let you control the tool’s brush size (or the size of the swath you create as you drag), as well as set the tolerance and the relative softness or hardness (haze) of the remaining object edges.

Try masking an image with the background eraser tool:

1. In Photoshop 5.5, locate Zebra.psd among your reviewer guide files, open it, and save a backup copy.
2. Click the Layers palette tab or choose Window > Show Layers to make the palette visible.
3. Select the lasso tool and draw a rough selection area around the zebra, leaving a rim of the image background in place. Be careful to include the whiskers around the zebra’s muzzle.
4. Choose Select > Inverse. Then press Delete or Backspace to fill the selection with a solid background color. Select the magic eraser tool and click in the selection to make the background color transparent. (You may need to click in two places, depending on whether the background is contiguous.)



Note: On other layers, pressing Delete or Backspace automatically produces transparency. The background layer behaves uniquely by filling with the background color. However, the magic eraser makes it a snap to erase to transparency.

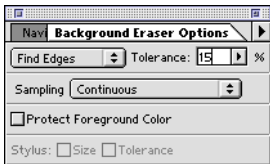


Lasso-select the zebra.

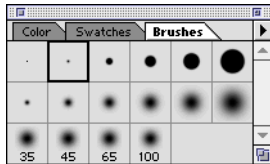


Perform an inverse selection to select the area outside of your lasso-selection. Then press Delete or Backspace, and use the magic eraser to make this area transparent.

5. Zoom in along the Zebra’s mane. For example, zoom in to a 200% view and start at the right edge of the image frame just above the zebra’s mane.
6. Select the background eraser tool. If necessary, click the Background Eraser Options tab or double-click the background eraser tool in the toolbox to view its options.



Set options to control how the background eraser makes transparency, and...

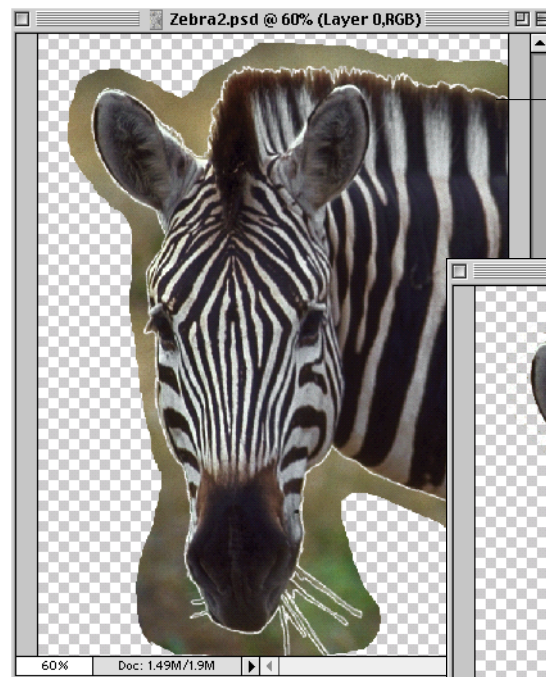


...then select a small hard brush.

7. Set Tolerance to 15%. Choose Find Edges from the menu to the left of the Tolerance setting. Then choose Continuous for Sampling.

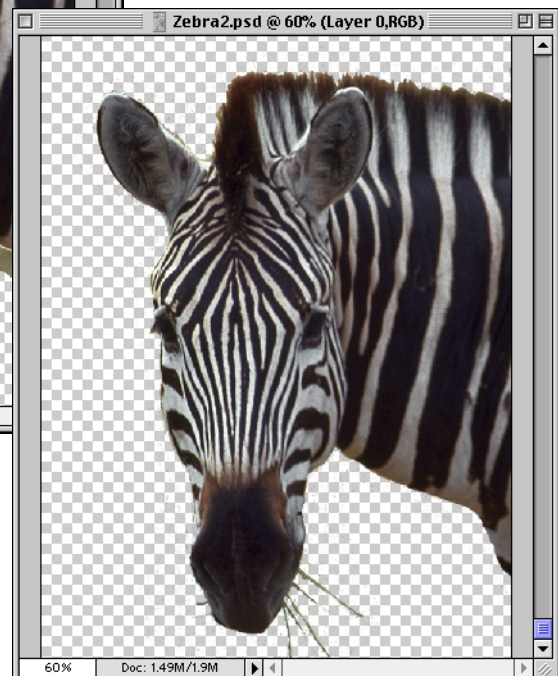
The Find Edges setting is computationally intensive, so it may feel slower than other settings. That's because it's performing a smart tolerance and contiguous check and looking for a higher saturation of a pixel color and sharper transitions between the colors of pixels to define the edge. This setting works well for masking a complex edge like this zebra's mane. However, you should switch settings when you're masking more open areas.

8. Click the Brushes palette tab or choose Window > Brushes to view the Brushes palette. Select a small hard brush.
9. With a steady hand, drag along the edges of the zebra's mane, ears, face, eyelashes, and whiskers.
In Step 7, you selected Continuous for Sampling, which means that Photoshop continuously samples the color directly under the brush crosshair to determine what pixels to delete to transparency. As you drag along the zebra's edges, be sure to keep the brush crosshairs on the background along the mane's edge, so you don't erase any of the mane.
10. After tracing a transparent outline around the zebra, zoom out a bit and specify different masking settings: in the Background Eraser Options palette, set the Tolerance higher, and switch from Find Edges to Contiguous. Then choose a bigger brush and drag over the remaining areas.
11. When you're satisfied with your results, click the New Layer button in the Layers palette to create a new layer. Then drag it behind the zebra layer in the stacking order in the Layers palette.
12. With the new layer targeted, fill it with color so you can see the zebra against a background: click the foreground color box in the toolbox, and select a color. Then press Option+Delete or Alt+Backspace to fill the layer.



After outlining the zebra with a transparent edge

Zoom in on the zebra. With a steady hand, outline it with a transparent edge: simply drag the crosshairs of the background eraser carefully along the edge of the mane, ears, eyelashes, and more. It may take practice at first to refine your technique (and develop a careful hand). However, this tool quickly becomes an efficient way to mask hard-to-mask edges.



After eliminating the background entirely

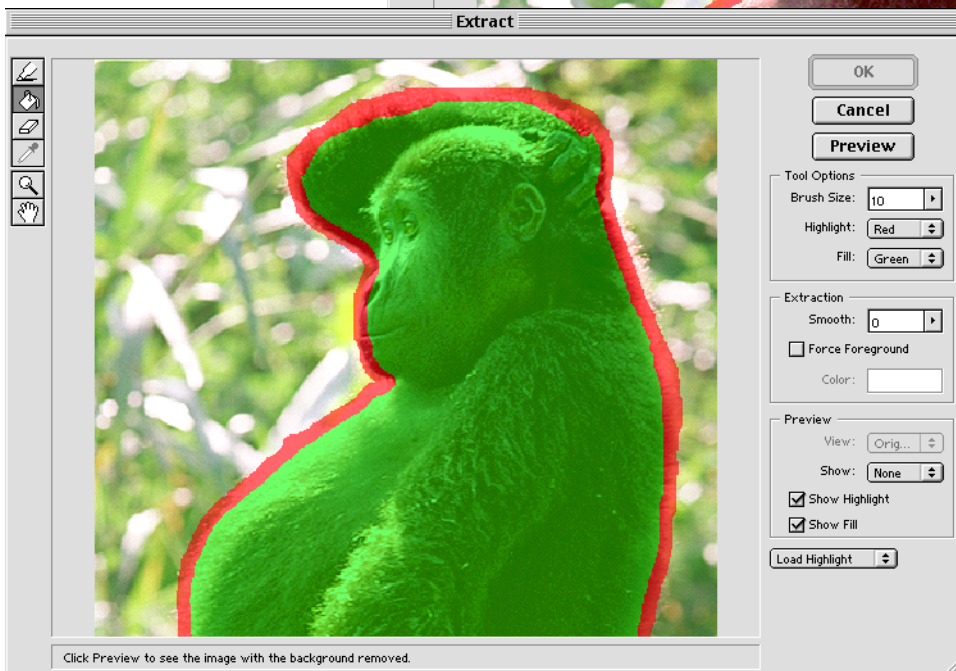
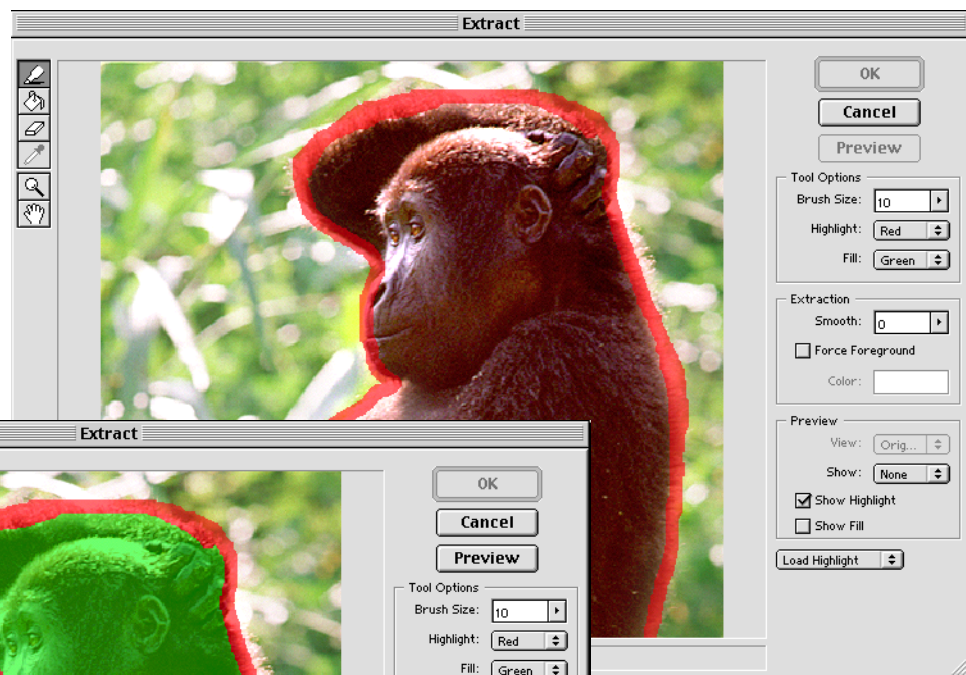
The Extract Image Command

Masking foreground images that have intricate, wispy, or hard-to-define edges usually involves painstaking manual work, and it can sometimes be close to impossible to accomplish. The new Extract Image command streamlines this process, giving you a straightforward way to clip difficult-to-mask objects from a background with minimal effort. As with the background eraser, the Extract Image command decontaminates the remaining edge pixels, so you can place the extracted image against a different background with no haloint.

To mask a foreground object, choose the Extract Image command from the Image menu. The Extract Image dialog box appears where you can highlight the object's edges, define its interior, and set other parameters for its extraction. You can preview and refine the results of this extraction as many times as necessary before performing the final action. When you're ready, Photoshop erases the background you've defined, creating transparent areas around the remaining foreground image.

Try using the Extract Image command:

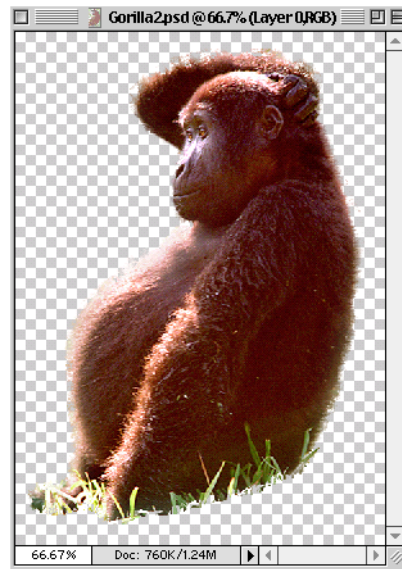
1. Locate Gorilla.psd among your reviewer guide files, open it, and save a backup copy of it.
2. Choose Image > Extract.
3. Leave the brush size set to 10.
4. Select the edge highlighter tool. Then drag a highlighted edge around the gorilla to completely encircle it.
Note: It isn't necessary to completely encircle the image if part of it touches the image edge.
5. Select the fill tool and click on the gorilla to fill the image area you're extracting.



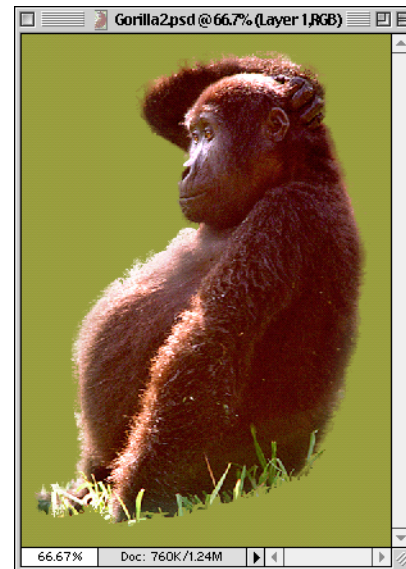
Highlight and then fill the area that you want to extract from the image. Click Preview to check your extraction. Then toggle between previewing the Original and Extracted image with or without the highlight and fill displayed to refine the extraction. Use the eraser, highlighter, zoom, and hand tools to move around the window fine-tuning the masking information.



6. Click Preview to view your results before completing the extraction:
 - Choose Original and Extracted from the View menu under Preview to switch back and forth and see the results of your extraction.
 - Choose a matte from the Show menu under Preview to see what the extracted image looks like against a background.
7. As necessary, use the edge highlighter, eraser, and fill tools to modify the size and shape of your edge highlight and refine your extraction. Then click OK to complete the extraction.



Extracted image



Extracted image with new background

Art History Brush



The new art history brush gives you the creative tools to paint stylized strokes on an image, much as you would brush paint onto a canvas. This dynamic new brush produces painterly effects easily without requiring you to specify colors or apply careful strokes. You simply move the art history brush around on the image, interactively creating realistic paint strokes. The art history brush bases its changes on a targeted history state or snapshot, using it as the source data for painting the image. You control the size, opacity, fidelity, tolerance, and stroke style options for the brush, all of which affect the results of this paint simulation. For inspiration, just take a look at the sample images included with your reviewer guide files. Then select the art history brush and start experimenting. The results can be breathtaking.

Before Working with the Art History Brush

This section guides you through the basics of using the art history brush. It starts by showing you three different images that have been set up with before and after layers, so you can see the original image and what you can accomplish with the art history brush. The best way to learn this tool is to start with some suggested brush settings until you get the hang of it (the brush is highly interactive, so that takes only a short time), and then to experiment with different combinations of settings on your own. Make multiple copies of each of the files, so you can freely explore your ideas and compare your results with the Adobe designer's results. The creative possibilities are endless!

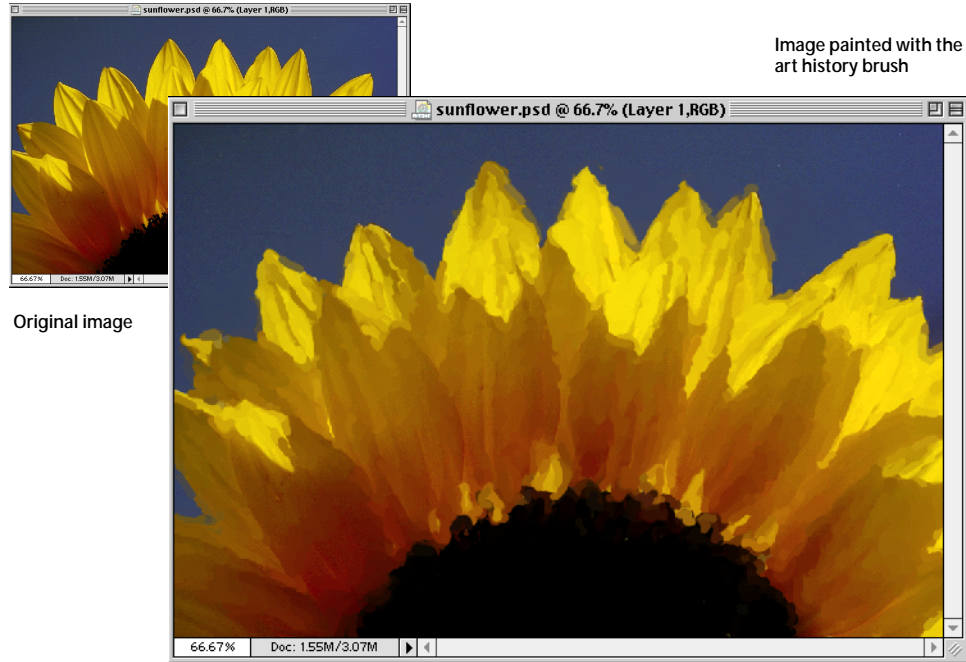
To set up for this section:

- Launch Photoshop.
- Locate and open Sunflower.psd, Flowers.psd, and Port.psd. (If you're prompted, click Don't Convert in the Profile Mismatch dialog box when opening these files.)
- Make copies of these files for further experimentation.
- Click the Layers palette tab or choose Window > Show Layers to make the palette visible.
- Select the art history brush tool. Then click the Options palette to display the options for this tool.

- Click the Brushes palette tab or choose Window > Show Brushes to make the palette visible.
- Close all other palettes to give yourself plenty of creative room.

Try viewing the images first:

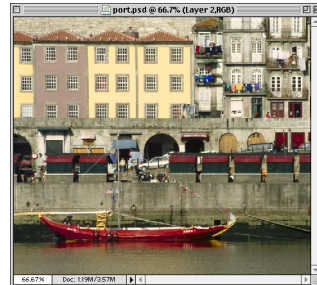
1. Start in Sunflower.psd. Make Layer 1 invisible so you see only the original image on the Background layer. Then make Layer 1 visible again to see what you can do with the art history brush. If you want, enter magnification levels in the zoom box (lower-left corner of the image window) to look more closely at the image. Finish at 50% view.



2. Move onto Flowers.psd, and repeat Step 1 to view a different example of what you can do.



3. Finish in Port.psd, which contains two different examples of what you can do with the art history brush tool. First, make Layer 1 and Layer 2 invisible to see the original image. Then make Layer 1 visible to see a technique that resembles what you saw in the other images (slightly different settings were used). Then make Layer 1 invisible and make Layer 2 visible. This layer reveals a different technique. To create this look, the designer filled the layer with off-white and then painted the image onto the white.



Original image

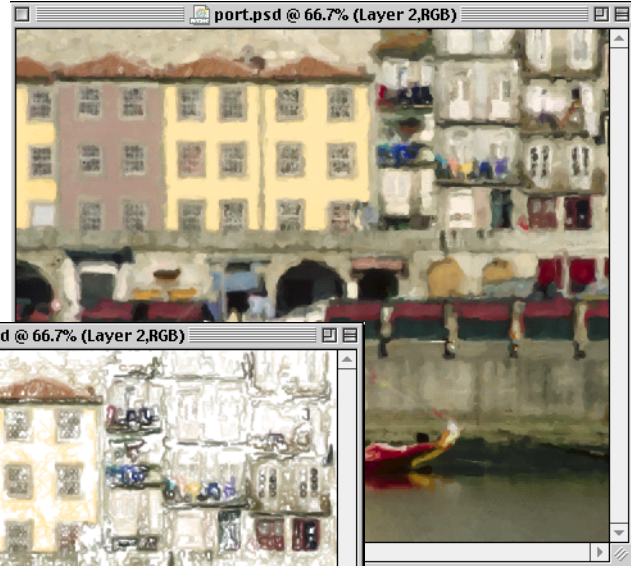


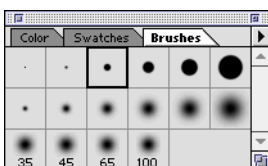
Image painted with the art history brush



Image painted on a solid background with the art history brush tool

Try working with the art history brush yourself:

1. Be sure you've set up your work area as described above.
2. Go back to Sunflower.psd, and make Layer 1 invisible.
3. Target the Background layer (click it in the Layers palette list).
4. In the Art History Brush Options palette, set these options:
 - Tight Medium for stroke
 - 80% for Opacity
 - 85% for Fidelity
 - 10 pixels for Area
5. In the Brushes palette, select a small brush with a harder edge.
6. Start dragging the brush over the sunflower petals and face in the image. Notice how interactive the brush is. Once you get the hang of it, undo your steps and try again—this time, rough out the basic look you want, and then go back over the image while varying your brush sizes and settings.
7. Switch now to Flowers.psd, where you should make Layer 1 invisible and target the Background layer.
8. Set these art history brush options:
 - Tight Long for stroke
 - 60% for Opacity
 - 90% for Fidelity
 - 30 pixels for Area



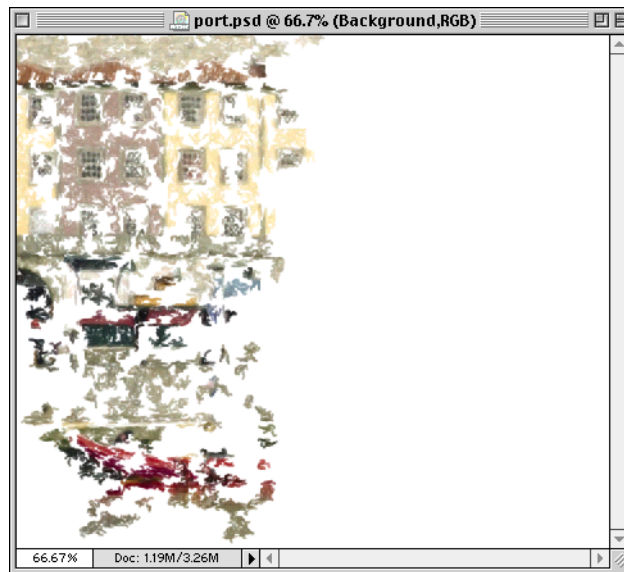
Art History Brush Tips

Once you get the hang of the art history brush tool, you can combine it with other Photoshop tools with artful results. Here are a few tips from Adobe's pros about working with this versatile creative tool:

- Vary your stroke style, brush size, and opacity settings for different parts of an image.
- Vary the type of brush you're using within a single image. For example, you might roughly brush over an entire image with a hard or textured brush. Then switch to a smaller, more soft-edged brush to soften the results.
- To preserve detail in an image—for example, in a face—use a very small brush and very low opacity settings.
- Define your own brushes from textured filters. Then use those brushes to paint images.
- Create a canvas to paint on by filling the layer with white or another color, or by applying a filter to it such as *conté crayon* (with its choice of textures).

9. Select a small brush again and start brushing over the image. Vary how thoroughly you attack an area, producing more lightly adjusted areas and heavier areas of painting.
10. Switch now to *Port.psd*. If you like, turn off Layer 1 and Layer 2 and focus first on transforming the Background layer using the techniques you used in *Sunflower.psd* and *Flowers.psd*. Then save those changes to another file name (if you want to keep your experiments), and undo the changes in this file by clicking the snapshot at the top of the History palette.
11. Look briefly at Layer 2 again. Then hide the layer again and get to work recreating the art.
12. Click the Foreground color box in the toolbox to open the color picker. Select white for the fill color, and click OK.
13. Target the Background layer again, and press **Option+Delete** (Mac OS) or **Alt+Delete** (Windows) to fill the layer with white.

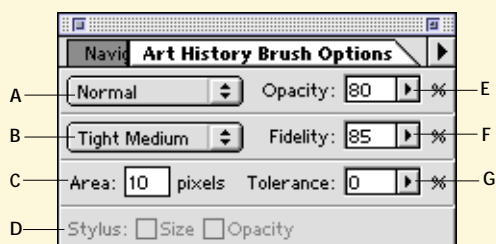
A history brush appears next to the snapshot of the background layer that appears at the top of the History palette, making it the designated source layer for the art history brush.
14. With the art history brush selected, choose **Tight Short** and set the **Opacity** to 70%. Then choose a smaller hard-edged brush, and start painting the target layer onto the white fill.
15. Paint loosely at first, using broad swaths of your brush. Then zoom in and fill in the detail in certain areas. Refer to Layer 2 as reference, but don't worry about matching it exactly. Just use it as inspiration. Try varying the brush size, opacity, and even the type of stroke to get different results.



Roughly apply the image to the solid background. Then vary your settings as you go back over the image to fill in more detail.

16. When you're done experimenting, save your changes if you want to keep them as reference, or undo the changes and close the file.

Overview of the Art History Brush Options Palette



- A Set the blending mode, which controls how the base color and blend color combine to produce the final resulting color.
- B Specify the shape of the paint stroke.
- C Enter a value to specify the area covered by the paint strokes.
- D Check **Size** to make increased pressure produce a larger paint area. Check **Opacity** to have increased pressure make the paint more opaque.
- E Specify how transparent or opaque the painterly effect is. A low percentage produces a transparent look, while a high percentage achieves an opaque look.
- F Specify how much the paint color can deviate from the source color. Entering a low number allows the brush to deviate significantly, while entering a high number constrains the color.
- G Specify where strokes may be applied. A low tolerance value lets you paint anywhere in the image. A higher value limits your strokes to areas that differ from the color in the source state or snapshot.

Selection of Instant Contact Sheets

Contact sheets are vital in photography, providing an inexpensive way for you and your clients to view, share, and select images. This important tool even has a corollary on the Web as photographers look for the most efficient, cost-effective ways to present images to clients for signoff and promote samples of their work. In addition, portrait photographers typically offer picture packages, which present the same image printed in multiple sizes.

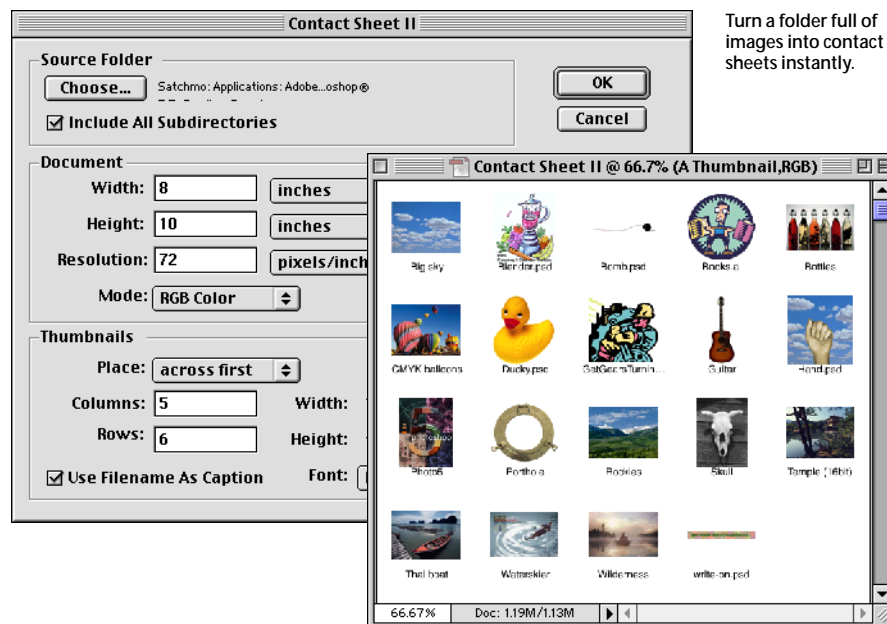
Photoshop 5.5 is automating the creation of all of these types of contact sheets, saving you the time of creating them by hand. Photoshop includes automation plug-ins for turning a folder of images into printed contact sheets and Web galleries, as well as for creating picture packages from individual photographs. Together these new automation features streamline how you present and share images with colleagues, clients, and customers.

Contact Sheets

Photoshop can help you preview and catalog related groups of images by turning a folder of images into a contact sheet. You control how big the thumbnails are, whether they use their original file names as captions, how they are organized on the page, and more.

Try creating a contact sheet:

1. In Photoshop, choose File > Automate > Contact Sheet II.
2. Select the Samples folder in the Goodies folder in the Adobe Photoshop 5.5 folder. Then adjust any settings you want, and click OK.



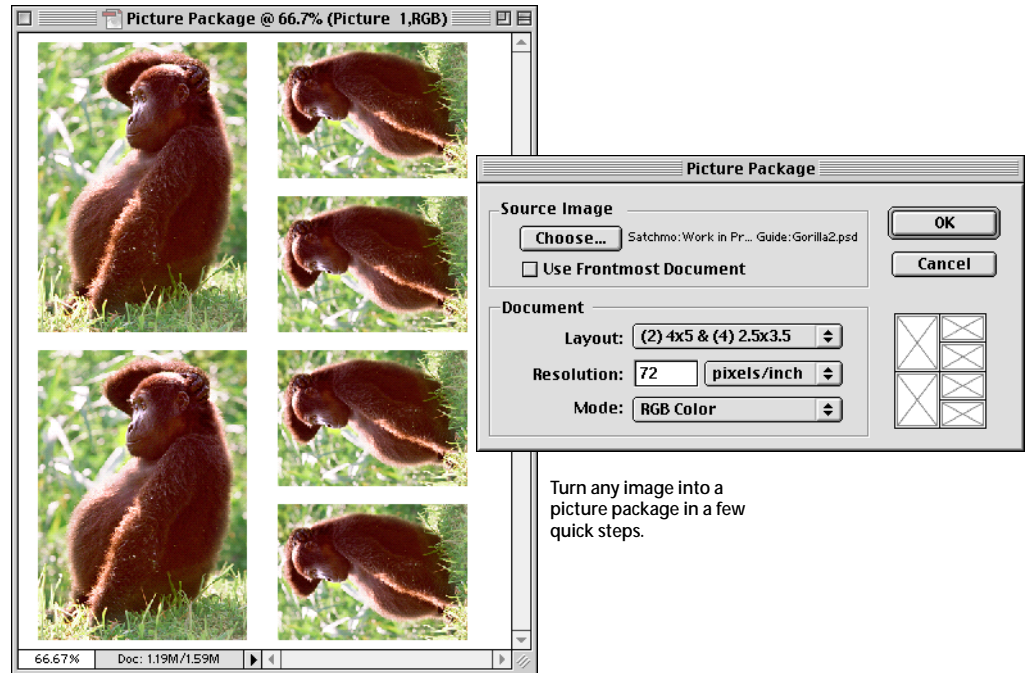
Picture Packages

Photoshop instantly produces picture packages, similar to the ones taken by traditional portrait studios, by arranging an image multiple times and even at multiple sizes on a single sheet. You determine the configuration of image sizes from a preset list in Photoshop. For example, you could create a sheet with two 4x5 and four 2.5x3.5-inch versions of a portrait.

Try creating a picture package:

1. In Photoshop, choose File > Automate > Picture Package.
2. In the Picture Package dialog box, click the Choose button. Then locate Gorilla.psd among your reviewer files.

- For Layout, choose 2 4x5 & 4 2.5x3.5 (note the guide to the right of this area for a quick look at the layout you're selecting). Then click OK.

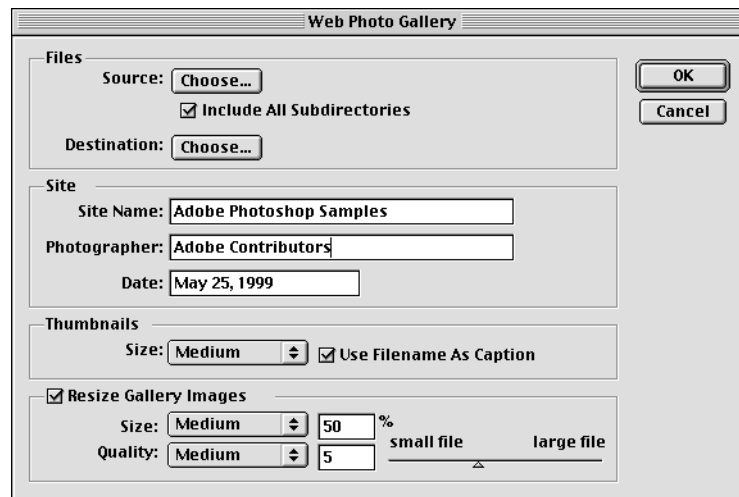


Web Galleries

Photoshop automatically turns a folder of images into a Web gallery. This gallery has a main index page that includes thumbnails and captions for all of the images. Each caption links to an individual page where you can see the full image. This feature provides a quick and easy way for you to display your photographic work for potential clients to browse online, or to display project images for clients to review.

Try creating a Web gallery:

- In Photoshop, choose File > Automate > Web Photo Gallery.
- In the Web Photo Gallery dialog box, click the Choose button for Source. Then select the Samples folder in the Goodies folder in the Adobe Photoshop 5.5 folder, and click OK.



System Requirements***Power Macintosh**

- PowerPC* processor or better
- Mac OS Software version 7.6 or later
- Combined Installation of Photoshop and ImageReady:
 - 64 MB of RAM†
 - 125 MB of available hard-disk space for full installation (large-capacity hard disk recommended for on-going work)
- Photoshop Only Installation:
 - 32 MB of RAM (64 MB or more recommended)
 - 80 MB of available hard-disk space
- 256-color (8-bit) display adapter required (24-bit, high-resolution display recommended)
- Sound card recommended for viewing interactive tutorial files
- CD-ROM drive

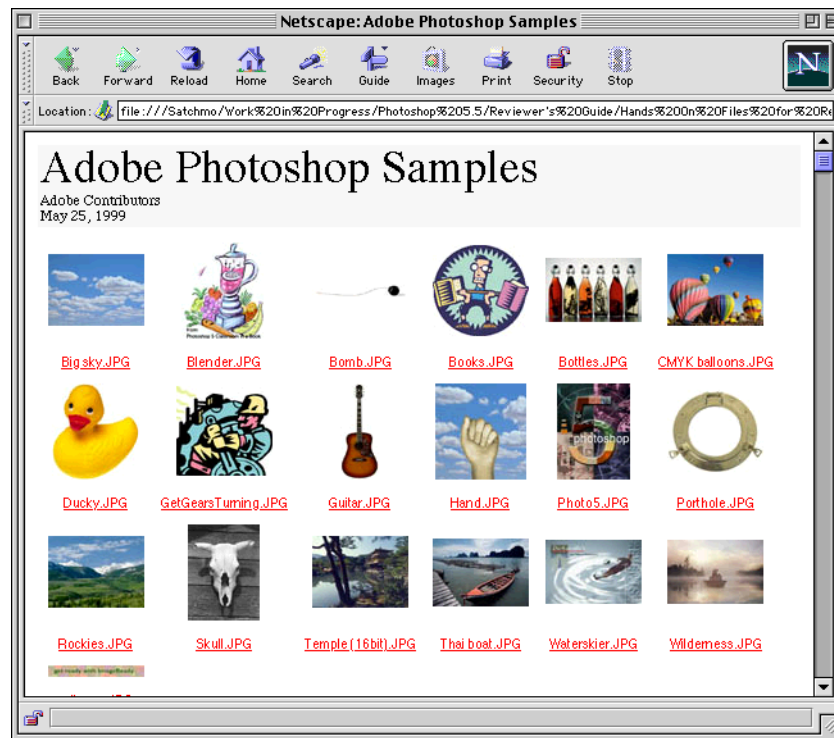
Windows

- Intel® Pentium® or faster processor
- Microsoft Windows 95, Windows 98, Windows NT 4.0, or later operating system
- Combined Installation of Photoshop and ImageReady:
 - 64 MB of RAM†
 - 125 MB of available hard-disk space for full installation (large-capacity hard disk recommended for on-going work)
- Photoshop Only Installation:
 - 32 MB of RAM (64 MB or more recommended)
 - 80 MB of available hard-disk space
- 256-color (8-bit) display adapter required (24-bit, high-resolution display recommended)
- Sound card recommended for viewing interactive tutorial files
- CD-ROM drive

* System requirements are subject to change prior to the product shipping.

† 96 MB of RAM recommended for best performance when using Photoshop and ImageReady concurrently

3. Click the Choose button for Destination and specify where Photoshop should store the files it produces for this Web gallery.
4. Enter a site name and a photographer's name. Then click OK.



Easily prepare online galleries to display your images on the Web.

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