

# The Adobe Photoshop 3.0 GIF89a Export Module

Welcome to the CompuServe® GIF89a Export module for the Adobe Photoshop® program. The GIF89a Export module converts RGB and indexed color images to GIF (Graphic Interchange Format) images. CompuServe GIF is the indexed color file format commonly used to display graphics and images in Hypertext Markup Language (HTML) documents over the World Wide Web.

With RGB images, the GIF Export module also lets you reduce the total number of colors in the image to create the smallest file and fastest display in your HTML document.

See the following topics for information on the GIF89a Export module:

[Installing the GIF89a Export Module on Macintosh and Windows](#)

[Installing the GIF89a Export Module on UNIX](#)

[Exporting RGB Images to GIF](#)

[Exporting Indexed Color Images to GIF](#)

[Masking the Background of an Indexed Color Image](#)

[Adding Caption Information \(Macintosh and Windows only\)](#)

[Using Keyboard Shortcuts](#)

# Installing the GIF89a Export Module on Macintosh® and Windows®

The GIF89a Export plug-in module is now available on the Adobe BBS, Adobe's World Wide Web Home Page, and Adobe forums on America Online<sup>SM</sup> and CompuServe in Adobe Applications/Photoshop. (The Adobe Home Page also lets you download documents on Adobe® products, customer service, training, technical subjects, and other topics.)

## To install the GIF89a Export module:

**1** Choose one of three options:

- Open the GIF89a folder on your Adobe Photoshop 3.0.5 CD-ROM disc.
- Connect to the World Wide Web using Netscape Navigator™ or another Web browser, and use the URL **<http://www.adobe.com>** to open the Adobe Home Page.
- Locate the Adobe Home Page through Adobe forums on America Online and CompuServe, or through Adobe's ftp site on the Internet at **<ftp.adobe.com>**.

**2** Copy the GIF89a plug-in to the Adobe Photoshop 3.0 Plug-ins folder.

**Note:** *The GIF89a plug-in module was designed to work with Adobe Photoshop version 3.0.4 or later. To upgrade to the latest version, contact Adobe at 1-800-521-1976 or at 1-206-628-2749.*

**3** Restart Photoshop.

# Installing the GIF89a Export Module on UNIX

The GIF89a Export module is now available on the Adobe BBS, Adobe's World Wide Web Home Page, and Adobe forums on America Online<sup>SM</sup> and CompuServe in Adobe Applications/Photoshop. (The Adobe Home Page also lets you download documents on Adobe<sup>®</sup> products, customer service, training, technical subjects, and other topics.)

## To install the GIF89a Export module:

**1** Connect to the World Wide Web using Netscape Navigator<sup>™</sup> or another Web browser, and use the URL **<http://www.adobe.com>** to open the Adobe Home Page.

You can also locate the Adobe Home Page through Adobe forums on America Online and CompuServe, or through Adobe's ftp site on the Internet at **<ftp.adobe.com>**.

**2** Retrieve the GIF89a Export module from the Adobe Home Page as a compressed tar file (GIF89.tar.Z) or if you have gunzip on your system, as a gzip compressed tar file (GIF89.tar.gz).

**3** Open a UNIX shell window and choose one of two options:

- If you downloaded GIF89.tar.Z, type the following commands:

```
% uncompress GIF89.tar.Z
```

```
% tar xfv GIF89.tar
```

- If you downloaded GIF89.tar.gz, type the following:

```
% gunzip GIF89.tar.gz
```

```
% tar xfv GIF89.tar
```



The tar command creates a directory named GIF89Export with the following contents:

```
README.GIF89
%GIF 89_Export
GIF89_Export-<chipname>
```

**4** Copy all files from this directory into the Acquire\_Export directory within Photoshop's installation area (e.g., /usr/adobe/Photoshop\_3.0/AdobePhotoshop\_3.0/Plug-ins/Acquire\_Export), or into your Photoshop working directory (e.g., \$HOME/AdobePhotoshop3/Plug-ins/Acquire\_Export). You must be logged in as superuser (the root account) to install the plug-in in the /usr/adobe area.

**5** To ensure that Photoshop will recognize the plug-in, remove the .photoshop\_version file from your working directory by typing the following commands. (If you use the default location for your Photoshop working directory, substitute \$HOME/AdobePhotoshop3 for <workingdir>.)

```
% cd <workingdir>
% rm .photoshop_version
```

**6** Restart Photoshop.

**Note:** *The GIF89a plug-in module was designed to work with Adobe Photoshop version 3.0 or later. To upgrade to the latest version, contact Adobe at 1-800-521-1976 or at 1-206-628-2749.*

**7** Restart Photoshop.

## Exporting RGB Images to GIF

When you export an RGB image to GIF, you can use layers in Adobe Photoshop to define what parts of the image you want to be transparent. The GIF89a Export module then lets you convert the image to indexed color, choose a transparency color for the Web browser, and save the image as a GIF file.

### To export an RGB image to GIF:

- 1 Start Adobe Photoshop and open the RGB image you will export.
- 2 If you want to include only part of the image in your HTML document, select that part of the image and feather it if desired. Place the selection on a new, transparent layer, and hide the original layer.

Be sure to hide any layers you do not want to include in the GIF file. For example, if your image is on a white background, and you want the background to be transparent, turn off the background layer.



*Original*



*Feathered selection on transparent layer*



**3** Choose File > Export > GIF89a Export.

**4** To select a transparency color, choose one of two options:

- To make transparent areas the same color as the Netscape browser window background, leave the Transparency Index Color box at its default. (The default color is Netscape gray—192 R, 192 G, and 192 B.)
- To change the transparency color, click the Transparency Index Color box, and choose a new color from the color picker. Click OK.

**5** To choose an indexed color palette, select one of the following options:

- Choose Exact from the Palette menu if this option is not dimmed. This option is available only if the image contains 256 or fewer colors.
- Choose Adaptive from the Palette menu for the best results if the Exact option is unavailable. The Adaptive option creates a palette by sampling colors in the image. When multiple images are displayed simultaneously, the Netscape 1.1 or later browser dynamically creates a color table using the adaptive palette.
- Choose System from the Palette menu to create a color table using the computer's built-in color palette. Note that the System option may produce unexpected results when the image is displayed on an 8-bit monitor using a different built-in palette.





*Original, 135K*



*Adaptive palette*



*System palette*

- To select a custom palette that you have created in Adobe Photoshop, click the Load button, and locate and select a custom palette.

**6** If you have chosen the Adaptive palette option, use the Colors text box or pop-up menu to select the smallest number of colors that retains the necessary detail in your image.



Note that the effect of reducing the number of colors on the file size will vary significantly with images of different dimensions and color content. In small-sized images, such as this example, the effect on file size is insignificant.



*Adaptive palette, 256 colors, 36K*



*Adaptive palette, 128 colors, 27K*



*Adaptive palette, 64 colors, 23K*



*Adaptive palette, 32 colors, 18K*



**Note:** You can reduce the number of colors in an image only when exporting an RGB image to GIF. To reduce the number of colors in an indexed color image, convert the image to RGB mode, and then export the image using the GIF module.

7 If you have not already done so, click Preview to see how the image will appear in the Web browser.



*Previewed image*

- To move the image within the preview window, select the hand tool (🖱️) and drag over the image. To fit all of the image in the window, double-click the hand tool.
- To increase the magnification, select the zoom-in tool (🔍) and click or drag over the part of the image that you want to magnify. For a 1:1 preview, double-click the zoom tool.
- To reduce the magnification, hold down [MKEY2](#) and click or drag.



**Shortcuts:** To select a zoom tool or to switch between the zoom tools as you work on the preview image, press [MKEY1](#) to get the zoom-in tool; press [MKEY2](#) to get the zoom-out tool. Press the spacebar to get the hand tool.

**8** Click OK to close the preview window.

**9** If dissatisfied with the results, hold down [MKEY2](#) and click Reset to restore the colors in the image. Repeat steps 4 through 8 as needed.

**10** To determine how the image displays as it is downloaded in the Web browser, choose one of two options:

- Keep the Interlaced option selected if you want the image to be displayed gradually as it is downloaded. This option displays increasingly higher resolution detail as an image is downloaded.
- Deselect the Interlaced option if you plan to use your image as a background or texture.

**11** On Macintosh and Windows, select the Export Caption option if the file contains a caption that you want to include as a comment in the GIF header. For more information, see [Adding Caption Information](#).

**12** Click OK to export the file. The suffix .gif is added automatically to the filename. Click Save.

## Exporting Indexed Color Images to GIF

When you export an indexed color image to GIF, you use the GIF89a Export dialog box to choose transparency options for the GIF image. You can select more than one color to be transparent.

For the most control, however, you may want to convert your image to RGB, create transparency in Photoshop using layers, and then convert the RGB image to GIF. Creating transparency in RGB mode lets you feather transparent areas. Converting to RGB also lets you reduce the number of colors in an indexed color image. See [Exporting RGB Images to GIF](#) for more information.

### To export an indexed color image to GIF:

**1** Start Adobe Photoshop and open the indexed color image that you want to export.



**2** Choose File > Export > GIF89a Export.



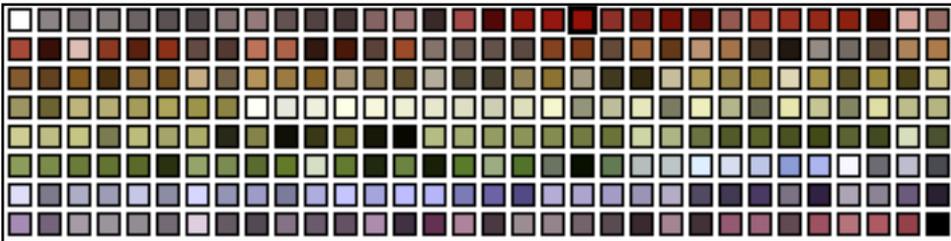
**3** To select a transparency color, choose one of two options:

- To make transparent areas the same color as the browser window background, leave the Transparency Index Color box at its default. (The default is Netscape gray—192 R, 192 G, and 192 B.)
- To change the transparency color, click the preview image with the eyedropper-plus tool () and then click the Transparency Index Color box. Choose a new color from the color picker. Click OK.

**Note:** *If your background color is the same color as another element in the image and you want only the background to be transparent, you must create an alpha channel to mask the background. See [Masking the Background of an Indexed Color Image](#) for instructions.*



**4** To select one or more colors to become transparent, click the eyedropper-plus tool, and then click the colors in the preview image. The selected colors appear highlighted in the swatches. Click to add additional colors.



**5** To adjust the image preview:

- To move the image within the preview window, select the hand tool (☞) and drag over the image. To fit all of the image in the window, double-click the hand tool.
- To increase the magnification, select the zoom-in tool (🔍) and click or drag over the part of the image that you want to magnify. For a 1:1 preview, double-click the zoom tool.



- To reduce the magnification, hold down [MKEY2](#) and click or drag to reduce the image.

**Shortcuts:** To select a zoom tool or to switch between the zoom tools as you work on the preview image, press [MKEY1](#)+spacebar to get the zoom-in tool; press [MKEY2](#)+spacebar to get the zoom-out tool. Press the spacebar to get the hand tool.

**6** If dissatisfied with the results, choose one of two options:

- To restore a single color in the image, hold down [MKEY2](#) and click the eyedropper-plus tool () to switch to the eyedropper-minus tool (). Click a swatch to restore the color.

**Shortcut:** To switch between the eyedropper-plus and -minus tools as you work in the preview image, press [MKEY1](#)+Shift.

- To restore all colors in the image, hold down [MKEY2](#), and click Reset. Repeat steps 3 and 4 as needed.

**7** To determine how the image displays as it is downloaded in the Web browser, choose one of two options:

- Keep the Interlaced option selected if you want the image to be displayed gradually as it is downloaded. This option displays increasingly higher resolution detail as an image is downloaded.
- Deselect the Interlaced option if you plan to use your image as a background or texture.

**8** On Macintosh and Windows, select the Export Caption option if the file contains a caption that you want to include as a comment in the GIF header. For more information, see [Adding Caption Information](#).

**9** Click OK to export the file. The suffix .gif is added automatically to the filename. Click Save.

## Masking the Background of an Indexed Color Image

If your background color is the same color as another element in the image and you want only the background to be transparent, you can use an alpha channel to mask the background. For example, if you have an image with a red background that you want to appear transparent, but with red details that you want to remain visible, you can use a channel mask.

Alternatively, you can convert the image to RGB mode, place the foreground selection on a new transparent layer, and turn off the background. Converting the image to RGB lets you feather your selection and reduce the number of colors in an adaptive palette image when you convert the image to GIF. See [Exporting RGB Images to GIF](#) for more information.

### To mask the background of an indexed color image:

- 1 Start Adobe Photoshop, and open the indexed color file you will export.
- 2 Select the foreground or image area that you want to remain visible. (In this example, we selected the background, and then inverted the selection.)
- 3 Using the Channels palette, click the selection icon at the bottom of the palette to save the selection in a channel.



*Original*



*Selection saved in a channel*



4 Choose File > Export > GIF89a Export.

5 Using the Transparency From pop-up menu, select the channel that you want to use.



*Image masked by channel*

**Shortcut:** To invert what will be transparent in the image, hold down **MKEY2** as you select the channel.

6 Choose additional export options as described in [steps 4 through 9](#) of the previous procedure.

7 Click OK to export the file. The suffix .gif is added automatically to the file-name. Click Save.

## Adding Caption Information (Macintosh and Windows only)

You can add caption information to your GIF file in Adobe Photoshop that an information catalog or a database application such as Adobe Fetch® can use to index and search for the GIF file. The caption is indexed as a comment in the GIF file header. See your application's documentation for more information on indexing GIF files.

### **To add caption information to your Adobe Photoshop image:**

- 1** In Adobe Photoshop, open your RGB or indexed color file.
- 2** Choose File > File Info.
- 3** Enter a caption in the Caption text box. Useful information includes descriptive keywords for the photo elements and copyright information. Information outside of the Caption text box (such as keywords or credits) isn't kept by the GIF plug-in when you export the file.
- 4** Click OK.
- 5** Save your file. This adds the caption information to the file header.
- 6** Export the file as described in [Exporting RGB Images to GIF](#) and [Exporting Indexed Color Images to GIF](#).

## Using Keyboard Shortcuts

Many of the operations you perform using menu selections can also be completed using keyboard shortcut commands, which are listed in the menus next to their corresponding commands.

In this online guide, certain keys are referred to as *MKEYs*, or modifier keys. These MKEYs represent specific keys on your computer system.

On a UNIX system, you can modify the default keyboard shortcuts by choosing Preferences > Keyboard from the File menu.

	<b>MACINTOSH</b>	<b>WINDOWS</b>	<b>SGI DEFAULT</b>	<b>SUN DEFAULT</b>
<b>MKEY1</b>	Command	Control	Control	Control
<b>MKEY2</b>	Option	Alt	Alt	Meta

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## Adobe Photoshop 3.0 GIF89a Export Module

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Contains an implementation of the LZW algorithm licensed under U.S. Patent 4,558,302.

Duotone process is covered by U.S. Patent 5,146,346.

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