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File Menu

The File menu includes commands that enable you to open and save files, to batch convert files to JPEG, and to display multiple images in a selected order.

For more information, select the File menu command name.

Open

Save

Save All Options

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Exit

Edit Menu

The Edit menu includes commands that enable you to transfer images to and from the clipboard, to change the color components of an image, and to manipulate the image.

For more information, select the Edit menu command name.

Copy

Paste

HSV Adjustment

Color Balance

Rotate

Flip Horizontal

Flip Vertical

Resize

Options Menu

The Options menu includes commands that let you determine how other commands operate. The settings for the options can be saved with the [Save All Options](#) command.

For more information, select the Options menu command name.

[8-Bit Bitmap](#)

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File Open command (File Menu)

Select the name of a file to display and the file format which is the JPEG File Interchange Format(JFIF), GIF(GIF 87a), TARGA, or uncompressed Windows BMP. When you click on one of the file format buttons, WinJPEG will display a list of all the files in that format in the current path. Pressing the "Display" button will display an image (with the selected display options if the image is a JPEG). Pressing the "Preview" button will display a JPEG image with 1-pass quantization and dithering off. This combination will display an image 25-50% faster than 2-pass quantization with dithering on.

JPEG , TARGA, and 24-bit Windows BMP images are loaded into either an 8-bit or 24-bit bitmap which is determined by the 8-bit Bitmap option. GIF images and 1, 4, and 8-bit Windows BMP files are automatically stored in an 8-bit bitmap.

File Save command (File Menu)

Select the name of the output file and the output format, which is the JPEG File Interchange Format(JFIF), GIF(GIF 87a), TARGA, BMP or OS/2 BMP. When you save an image to TARGA or one of the BMP formats, the bits per pixel of the output file is the same as the bits per pixel of the bitmap that is currently displayed. For example, if an 8-bit bitmap is displayed(the image is stored in an 8-bit bitmap when you are in 256-color mode or you check the "Use 8-bit bitmap" option), WinJPEG will save the picture to an 8-bit file. Similarly, if a 24-bit bitmap is displayed, it will save to a 24-bit format.

Save All Options command (File Menu)

This will save all the WinJPEG options to a file named "winjpeg.sav" in the same directory as the WinJPEG executable. When WinJPEG is initially loaded, the options will be loaded if "winjpeg.sav" exists.

Batch Conversion command (File Menu)

Select GIF and TARGA files to convert to JPEG format. The list box on the left displays the files in the current path and the list box on the right displays a list of files to be converted. To add a file to the latter box, select the files you want to convert and press the "Add" button. Files without the appropriate extension, ".gif" or ".tga," will not be added.

If you decide to abort the conversion while it is in the process of converting, click on the window with the left mouse button, click on the "Yes" button in the confirmation dialog, and the conversion will halt after the current file is completed.

The output file(s) will have the same name as the input file(s) except that they will have a ".jpg" extension. Also, the output file(s) will be placed in the same path as the input file(s).

Slideshow command (File Menu)

Select the GIF, TARGA, and JPEG files to display in a slideshow. The order in which you add the files will be the order in which they are displayed. After a picture is loaded and displayed, there will be a user-selected delay before the next picture is loaded.

If you would like the slideshow to go back to the first picture after the last one is displayed and to display the selected files continuously, check off the Cycle Slideshow menu option.

If you would like to abort the slideshow, click on the window with the left mouse button, click on the "Yes" button in the confirmation dialog, and the slideshow will stop after the currently loading picture is displayed.

Exit command (File Menu)

Exit from WinJPEG. While WinJPEG is compressing/decompressing an image, you can exit by using the Close command in the system menu.

Copy command (Edit Menu)

Copy the entire image into the clipboard. WinJPEG posts the image in Windows bitmap and Device-Independent Bitmap(DIB) formats.

Paste command (Edit Menu)

Paste an image from the clipboard. The clipboard must contain either a Windows bitmap or an uncompressed Device-Independent Bitmap(DIB).

HSV Adjustment command (Edit Menu)

Use the scroll bars to adjust the amount of hue, saturation, and value/brightness in an image. A value of 0 on the scroll bar means that there is no change in the corresponding color component. When the value is increased or decreased, the color component is increased or decreased, respectively. Warning: the HSV calculations are very slow in 24-bit mode.

Color Balance command (Edit Menu)

Use the scroll bars to adjust the amount of red, green, and blue in an image. A value of 0 on the scroll bar means that there is no change in the corresponding color component. When the value is increased or decreased, the color component is increased or decreased, respectively.

Rotate command (Edit Menu)

Rotate the image clockwise by 90 degrees.

Flip Horizontal command (Edit Menu)

Flip the image around the vertical axis.

Flip Vertical command (Edit Menu)

Flip the image around the horizontal axis.

Resize command (Edit Menu)

Change the spatial resolution of the image.

8-bit Bitmap command (Options Menu)

When you load a JPEG, TARGA, or 24-bit Windows BMP image with this menu item checked, WinJPEG will quantize the number of colors to 256, and display the image in an 8-bit bitmap. If this menu item is unchecked, a JPEG or TARGA image will be loaded into a 24-bit bitmap with no quantization. This option affects only viewing JPEG, TARGA, and 24-bit Windows BMP images.

Auto-resize command (Options Menu)

When this option is checked, WinJPEG will automatically resize the window so that the image will fit just inside the window. When an image is initially loaded, the window size is changed so that the largest possible portion of the image is displayed. When you change the window size so that it is larger than the image size, the window will be resized so that it just fits around the image. Also, scroll bar(s) are activated if they are needed.

Dither24to15 command (Options Menu)

This option is available only if you are using a 32k color display mode or better. When it is checked and the 8-Bit Bitmap option is off, JPEG, TARGA, or 24-bit Windows BMP images will be dithered to 15-bits per pixel so that they can be displayed properly.

Show Scroll Bars command (Options Menu)

This option is available only if auto-resize is off. It lets you choose whether or not the scroll bars are activated.

Cycle Slideshow command (Options Menu)

When a slideshow is running, this option determines whether or not a list of images are continuously displayed in a cycle. If this option is on, the slideshow returns back to the first picture after the last one is displayed and continues to display all the images in a selected list until you abort the slideshow by clicking on the window with the left mouse button.

Low Priority command (Options Menu)

When this menu item is checked, WinJPEG will give more CPU time to other programs running at the same time as WinJPEG. This option works during the compression/decompression of JPEG images and loading of TARGA images. It will take slightly longer to compress/decompress with this option on.

JPEG Options command (Options Menu)

1-pass quantization is faster than the 2-pass(Heckbert) option but the output for the former generally looks more grainy. Also, 2-pass quantization requires more memory so it may be even slower because WinJPEG will swap to hard disk when it runs out of physical memory.

The dithering method is Floyd-Steinberg; dithering is useful when quantizing to 256 colors but it is not needed for a true-color (24-bit) display. In some cases, you may want to turn off dithering since it sometimes causes a grainy output image.

The quality factor, an integer between 0 and 100 inclusive, determines the tradeoff between the output file size and the output image quality. If you choose a high quality factor, the image quality will be high but the file size will be large. A lower quality setting will yield a smaller file at a cost of lower fidelity. Since the JPEG algorithm is lossy, a quality factor of 100 will not give you a losslessly compressed image.

Entropy optimization produces a smaller JPEG file but it takes more time to encode the image.

Memory Options command (Options Menu)

When WinJPEG needs more memory, it can use virtual memory, selected by the "Available Memory" button, or it can use temporary files, selected by the "Temporary File" button. If the former option is selected, and WinJPEG runs out of virtual memory, temporary files will automatically be used.

Temporary files are created in the directory chosen by the user and they are deleted when WinJPEG is done with the "memory" or when the user aborts decompression/compression of an image by closing the program.

In general, the "Available Memory" should be selected when your system has at least 8Mb of RAM, and the "Temporary File" should be selected when you have little RAM or you are multitasking memory-intensive programs.

JPEG File Formats

The JPEG committee has not specified a standard file format, and consequently, many applications of the JPEG algorithm use their own proprietary format. WinJPEG uses the JPEG File Interchange Format(JFIF) which transports only pixel information. JFIF is supported by the IJPEG Group's software and other programs based on their code.

Handmade Software's GIF2JPG and Image Alchemy by default use a proprietary JPEG format that is not compatible with the JFIF standard. This proprietary format is not supported by WinJPEG. When you use GIF2JPG, remember to use the "-j" option to produce a JPEG file that is compatible with the JFIF standard and viewable with WinJPEG.

For some reason, the GIF2JPG's "-j" option doesn't always produce a file in JFIF. If you have to use a DOS converter, I recommend that you use the IJPEG Group's cjpeg program. Otherwise, you should use WinJPEG's [Batch Conversion](#) feature, which performs the same task as cjpeg except that only GIF and TARGA images are supported.

How to Register

If you use WinJPEG for more than 14 days, you are expected to register WinJPEG or to delete your copy of WinJPEG. When you register, you will receive the latest 286 and 386 versions of WinJPEG, a user manual, and a collection of JPEG images (we will put as many as we can fit on 2 720k 3 1/2" floppies, on 1 1.44M 3 1/2" floppy, or on 4 360k 5 1/4" floppies). Also, the registered version does not have the reminder-to-register screen at the start.

Once you are registered, you will receive updates of WinJPEG for free. If you have an Internet account or CompuServe account, you will be e-mailed updates. Other registered users can obtain updates by sending us a stamped self-addressed envelope with a disk. The disk will be returned with the update and another collection of JPEG images. Updates are available when you see a new shareware version.

The registration fee is only \$15. MA residents, add 5% sales tax to the registration fee. US residents, add \$3 for shipping and non-US residents, add \$8 for shipping. If you want WinJPEG e-mailed to your account instead of having it physically mailed to you, there is no extra shipping charge.

To register, complete the order form and send a check in US funds to:

Norman Yee
58 Chandler St.
Boston, MA 02116

If you are interested in obtaining a site license or licensing the source code, contact us at the address listed above or through our Internet e-mail addresses:

Norman Yee
nyee@osiris.ee.tufts.edu

Ken Yee
kenyee@ksr.com

License Agreement (applicable to registered users)

You are licensed to single-copy use of WinJPEG; this means that you can install your registered version of WinJPEG simultaneously on one computer at work, one computer at home, and one portable computer, if only one copy is in use by the registered individual at a time. You may make copies of the registered WinJPEG disk as necessary for normal backup purposes; you agree not to make any copies of the printed WinJPEG manual or the registered version of WinJPEG for others.

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The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated.

GIF2JPG and Image Alchemy is a trademark of Handmade Software, Inc.

WinJPEG Features

WinJPEG v1.4 is a shareware image viewer with image processing and conversion capabilities for Microsoft Windows 3.x. It has the following features:

- display JPEG, TARGA, GIF (GIF 87a), or Windows BMP images
- export an image to JPEG, TARGA, GIF (GIF 87a), Windows BMP, or OS/2 BMP(8-bit or 24-bit)
- display of JPEG images with 1-pass/2-pass quantization and Floyd-Steinberg dithering
- color balance: red, green, and blue adjustment
- hue, saturation, and brightness adjustment
- image rotation, vertical/horizontal flip, and image resizing
- batch file conversion of GIF or TARGA files to JPEG
- slideshow: display selected files sequentially with a cycle option
- copy or paste images to or from the clipboard

There are two versions of WinJPEG: a 386 version for 386's or better and a 286 one for 286's or better. The shareware version is a 286 version. The 386 version can be obtained by registering WinJPEG. See [How to Register](#) for more information.

Corrupt GIF Images

There are some GIF files that display with no errors under other image viewers but when they are viewed under WinJPEG, a "Premature End of GIF" error message is displayed . These GIF files are probably corrupt; the GIF decoder routines in WinJPEG are stricter than those used in other viewers. If you want to avoid seeing this error message when you load a corrupt GIF, load it into WinJPEG, press the "Yes" button when you are asked if you want to display the corrupt image, and overwrite the corrupt file by saving the displayed image as a GIF.

