

iGrafX Image 1 User's Guide

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Introduction

Welcome to Image 1

Welcome and thank you for buying Image 1 from Micrografx. Image 1 is the fastest, easiest, and most powerful image editor for Windows 95. Image 1 offers powerful photo retouching, objects and layers, natural media brushes, over 130 effects, macros and wizards, and GIF and JPG support for the Web.

About This Book

In this book, we introduce you to Image 1, help you get started, and provide a project-based tutorial.

Getting Help

You can get help in a number of ways. The method you use often depends on the type of information you want to locate.

Using Online Help

Using the familiar Windows 95 help system, it's easier than ever for you to find exactly what you're looking for.

- Help information for Image I is accessible through the context-sensitive, online help. Each help system is designed so that you can easily find the information you want—from conceptual topics, to specific procedures, to detailed information on buttons, tools, and dialog boxes—with just a few mouse clicks.
- The most up-to-date information regarding Image I can be found online in Image I Read Me. Image I Read Me can be accessed from the Help Contents under Read Me.

How to Get Technical Support

Getting the most out of your investment is central to your success. Micrografx offers a fee-based support program for registered users in the U.S. and Canada that delivers fast, flexible, and comprehensive service for the Micrografx products you own. This program is backed by our commitment and all the resources necessary to provide you with the service you expect.

Our technical advisory staff are specialists in the critical areas and applications important to you. You will receive 30 days of free support following your first call to our technical support staff. Thereafter, whether you want full-service coverage or occasional support for your Micrografx products, you will like the flexibility of choosing only those services you need.

You can receive technical support from a technical support specialist between the hours of 7 a.m. and 7 p.m. (Central Standard Time), Monday-Friday.

Complimentary Support

As a registered Image I customer, you will receive thirty days of complimentary support. Be sure to have your serial number (from the back cover of this user's guide) ready when you call. To contact technical support during this time, call (214) 495-4600.

Contact Micrografx through the Internet at <http://www.micrografx.com>.

Fee-Based Support

If you have an ongoing need for support, Micrografx offers a fee-based support program for registered users in the United States and Canada that delivers fast, flexible, and comprehensive service.

Caller's Choice

Our Caller's Choice Support provides you with a dedicated technical support specialist on an as-needed basis. You can choose between paying a flat rate for each call or paying by the minute with our priority access 900-line service. Choose the option that fits your needs by calling (214) 495-4600.

MGX Annual Plans

Our MGX Annual Plans give you priority access and instant answers to your important questions while eliminating toll charges on your phone bill. This is a cost-effective solution for individuals or corporations who need frequent support for Micrografx products. Order these plans by calling (214) 495-4600.

For pricing information, please refer to the Technical Support pamphlet included in the Image I box.

What's New in Image 1.0

Channel Mixer

Image's Channel Mixer command lets you modify a color channel using a mix of the current color channels. Besides creating interesting effects, this command lets you create high-quality grayscale images by choosing a percentage contribution from each channel.

When Image converts an RGB image to grayscale (using the Convert To command on the Image menu), a fixed percentage of each channel is used for the output (black) channel. Image takes 30 percent of the red channel, 60 percent of the green channel and 10 percent of the blue channel to create the grayscale image. Although this formula produces a quality grayscale image, you may want to use the Channel Mixer command instead to tweak the contribution each channel gives to the eventual grayscale image.



Note

The Constant slider in the Channel Mixer dialog box adds a channel of varying opacity to the output channel. Positive values act as a white channel; negative values act as a black channel.

To mix channels in an image

- 1** On the Map menu, click Channel Mixer.
- 2** In the Output box, select the color channel in which you want to blend one or more channels.
- 3** Drag any channel's slider to the left to decrease the channel's contribution to the output channel, or to the right to increase the channel's contribution to the output channel.

You can also enter a number in the text box for each channel rather than dragging the slider.

- 4** If desired, drag the Constant slider to add a channel of varying opacity to the output channel. Positive values act as a white channel; negative values act as a black channel.
- 5** Click OK when you are satisfied with your changes.

To create a high-quality grayscale image

- 1** On the Map menu, click Channel Mixer.
- 2** In the Output box, select All Channels.

Image defaults to 30 percent of the red channel, 60 percent of the green channel and 10 percent of the blue channel to create the grayscale image.

- 3** Drag any channel's slider to the left to decrease the channel's contribution to the output channel, or to the right to increase the channel's contribution to the output channel.

You can also enter a number in the text box for each channel rather than dragging the slider.

- 4** If desired, drag the Constant slider to add a channel of varying opacity to the output channel. Positive values act as a white channel; negative values act as a black channel.
- 5** Click OK when you are satisfied with your changes.

MultiProbe Tool

The MultiProbe tool lets you display color information for up to eight locations in an image. This is important when you want to make color and tonal corrections to an image.

You can sample between a 1-by-1 screen pixel area up to a 49-by-49 screen pixel area. The larger sample areas are best used for high-resolution images (300 dpi and greater) where a 49-by-49 screen pixel area is still a relatively tiny portion of the image.

The Info window opens when you place a probe point on the image and displays the color values for the pixels under the probe. Image averages the pixels if you are probing a 3-by-3 or greater pixel area and displays that average color value in the Info window.

The Info window also lets you select the color space of the area you are sampling. In the Info window, click the Select Color Space button to the left of the Probe Color Swatch. You can view the area as:

- Actual Color
- Grayscale (8-bit)
- HSL Color (24-bit)
- RGB Color (24-bit)
- CMYK Color (32-bit)
- Grayscale (16-bit)
- HSL Color (48-bit)
- RGB Color (48-bit)
- CMYK Color (48-bit)

You can also automatically probe an image for the brightest and darkest points according to the color channels (for example, RGB, CMY and the master channel). After using the Advanced Color Probing feature, you can use the Modify Color Maps command or the Tone Balance command on the Map menu to color correct or change the tonal range of the image automatically.

To probe an image for color values

- 1 On the Main toolbar, click the Color Probe tool and click the MultiProbe tool.
- 2 In the Probe Size list on the ribbon, select the screen pixel area size.
- 3 Click on the image where you want to place a color sample.

Image opens the Info palette and displays the color values in a box labeled # 1. For each additional probe, Image adds another numbered box to the Info palette.



Note

You can only display color information for eight locations in an image.



Tip

To move a probe, click and drag on the appropriate point.
To delete a probe, click on the point and press Delete.
To delete all probes, click the Delete All button on the ribbon.

To change the color space of a color sample

- 1 Find the appropriate box in the Info palette relating to the probe whose color space you want to change.

- 2 Click the Select Color Space button and choose a new color space from the menu.

**Note**

You can only display color information for eight locations in an image.

**Tip**

To move a probe, click and drag on the appropriate point.

To delete a probe, click on the point and press Delete.

To delete all probes, click the Delete All button on the ribbon.

To save a color probe location

- 1 Place one or more color samplers on the image.
- 2 On the File menu, click Save As.
- 3 In the Save as type box, select iGrafX Image (*.ppf).
- 4 Type a name for the file in the File name box and click Save.

**Note**

When you open the image again, Image displays the probe locations as they were when you last saved.

To probe an image's darkest and brightest points automatically

- 1 On the Main toolbar, click the Color Probe tool and click the MultiProbe tool.

- 2 Click the Advanced button on the ribbon.
- 3 Select which channels you want to probe automatically.
- 4 Click OK.



Note

After you have set which channels you want to probe automatically, you can click the MultiProbe Auto Probe on the ribbon to probe for those dark and bright points without opening the Advanced Color Probing dialog box.

Measure Tool

The Measure tool calculates the distance between any two or three points in an image. By choosing to display more than one measuring line, you can create a protractor. This lets you measure angles separated from the x and y axes and view the distance between the points.

When you measure from one point to another, a line is drawn and the Info window displays the following information:

- The starting location (X and Y)
- The distance traveled from the x and y axes
- The total distance traveled
- The angle measured relative to the axis

This tool is good to use if your image has been scanned in crooked. You can zoom in on the image, use the measuring tool to measure the angle at which your image is crooked, and use the Image Rotate command to straighten your image.

To measure between two points

- 1** On the Main toolbar, click the Color Probe tool and click the Measure tool.
- 2** In the Modes list on the ribbon, click Single Line.
- 3** On the image, click from where you want to start measuring.
- 4** Move the pointer to where you want to end measuring and click.

The Info palette shows this distance next to I:



Tip

To resize a line, click and drag one end of a measuring line.

To move a line, click on an endpoint and drag the line.

To delete a line, click on the line and press Delete.

To delete all lines, click the Delete All button on the ribbon.

To measure angles and distances between two or more points

- 1** On the Main toolbar, click the Color Probe tool and click the Measure tool.
- 2** In the Modes list on the ribbon, click Double Line or Triple Line.
- 3** On the image, click from where you want to start measuring.
- 4** Move the pointer to those points you want to measure and click.

The Info palette shows the distance between the points (1; 2; 3) and the angle between the points.



Tip

To resize a line, click and drag one end of a measuring line.

To move a line, click on an endpoint and drag the line.

To delete a line, click on the line and press Delete.

To delete all lines, click the Delete All button on the ribbon.

To straighten a crooked image

- 1 Open the crooked image.
- 2 Zoom in on the top edge of the image so you can accurately measure the skewed angle.
- 3 On the Main toolbar, click the Color Probe tool and click the Measure tool.
- 4 Click once on the top edge of the image.
- 5 Move the pointer along the break between the image's pixels and the white area above and click to set the angle in the Info palette.
- 6 On the Image menu, point to Rotate and click Arbitrary Angle.
- 7 Click the Measure Probe Angle button. Image enters the angle of skew in the Angle box.
- 8 Click the Clockwise or Anti-Clockwise button depending on which way you want the angle fixed.
- 9 Click Rotate.

To save tool measurements

- 1 Place one or more measures on the image.
- 2 On the File menu, click Save As.
- 3 In the Save as type box, select iGrafx Image (*.ppf).
- 4 Type a name for the file in the File name box and click Save.

**Note**

When you open the image again, Image displays the tool measurements as they were when you last saved.

Info Window

The Info command lets you show or hide the Info window. A check mark appears to the left of the Info command when the window is shown.

The Info window displays information that helps you perform precise operations, such as aligning pixels and measuring sizes of areas within an image. When you use the Measure tool to measure from one point to another, the Info window displays the following information:

- The starting location (X and Y)
- The distance traveled from the x and y axes
- The total distance traveled
- The angle measured relative to the axis

The Info window also provides color (RGB, CMYK and HSL) values or grayscale values of the area under the pointer, depending on the image type.

The Info window opens when you place a MultiProbe point on the image and displays the color values for the pixels under the probe. Image averages the pixels if you are probing a 3-by-3 or greater pixel area and displays that average color value in the Info window.

The Info window also lets you select the color space of the area you are sampling. In the Info window, click the Select Color Space button to the left of the Probe Color Swatch. You can view the area as:

- Actual Color
- Grayscale (8-bit)
- HSL Color (24-bit)
- RGB Color (24-bit)
- CMYK Color (32-bit)
- Grayscale (16-bit)

- HSL Color (48-bit)
- RGB Color (48-bit)
- CMYK Color (48-bit)

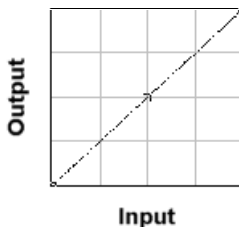
To show or hide the Info window

- ▶ On the View menu, click Info.

Modify Color Maps

One of Image's most powerful features is its ability to let you modify color maps to enhance the colors in your original image, to compensate for color casts, and to make color corrections. You can use a color map to control brightness, contrast, color balance, hue, saturation, and tonal details. You can also use it to create special effects such as posterization.

A color map is a graph that represents the color values in an image. With this map, you can alter all original colors at once or you can specify primary color channels individually.



You adjust color maps by dragging the points on the color map curve to change the shape of the curve. A point is a device you use to change the shape of a color map curve. By default, there are three points on the curve but you can have as many as 11. By clicking the Curves/Lines toggle button, you adjust the map curve by curves or line segments.

To add a point to a color map curve, click on the curve or click the Probe button, move the probe to the image, and click the left mouse button. As you move the probe over the image, the color intensity under the probe is mapped to the color map curve. A point is added to the curve when you click the left mouse button. This lets you easily find the color map point location for a specific color intensity.

By pressing **SPACEBAR**, you cycle upward through the points in the color map curve. By pressing **SHIFT+SPACEBAR**, you cycle downward through the points. You can use the arrow keys to move an active point by one unit. If you hold **SHIFT** and press an arrow key, you move an active point by five units. To delete a point, select the point by clicking on it to make it active, and press **DELETE**.

Both axes of the color map specify the intensity of a color. The horizontal axis represents colors as they exist in the image (input). The vertical axis represents how you want the color to appear in the image (output). If percentages are chosen in the Options dialog box, zero on each axis indicates white, or no intensity. One hundred is black, or full intensity. Image measures the intensities in percentages. The percentages can range from 0 to 100 (highlights to shadows) or 100 to 0, depending on the user-definable input axis setting. You can toggle this setting by clicking the gradient area directly under the color map.

The color map lets you access different channels: one for each channel in the image. You can map these channels to adjust input colors to different output colors. To access the additive primary colors, you must have an RGB image open. To access the subtractive primary colors, you must have a CMYK image open.

The Modify Color Maps command also lets you make automatic color corrections. Use the MultiProbe tool's Advanced Color Probing feature to automatically probe an image for the brightest and darkest points according to the color channels (for example, RGB, CMY and the master channel), and then use the Modify Color Maps command to correct the image according to these input values.



Note

The mathematical method of color correction sets the highlights and shadows in an image by assigning the lightest and darkest CMYK ink values or RGB screen values to the lightest and darkest areas in an image.

Because setting highlights and shadows generally alters the midtone pixel values, the mathematical method also adjusts the brightness values of the midtones to produce a good gray balance.

To make up for ink deficiencies and achieve a proper gray balance in a CMYK image, Image removes a little magenta and yellow ink in all gray areas relative to the amount of cyan ink.

To achieve a proper gray balance in an RGB image, Image makes sure there are approximately equal amounts of red, green and blue in a midtone neutral.

To adjust a color map

- 1 On the Map menu, click Modify Color Maps.
- 2 In the Channel box, select the channel you want to modify.

- 3 In the Editing box, select Visual, if necessary.



Note

You could instead click Numeric and enter the numeric values directly into the Input and Output boxes.

- 4 Move the cursor to a point on the curve, press and hold the left mouse button, and drag the point to a new location. Release the left mouse button.
- 5 Click OK.



Note

If the changes are not acceptable at this point, you can click the Undo command to revert to the previously applied changes.

As you change a point in Visual mode, the corresponding Input and Output values in Numeric dialog box change. Also, as you change Input and Output values in Numeric mode, the corresponding points in the Visual mode change.

To make tonal corrections to your image automatically

- 1 Open the image you want to color correct.
- 2 On the Main toolbar, click the Color Probe tool and click the MultiProbe tool.
- 3 Click the Advanced button on the ribbon.
- 4 Select which channels you want to probe automatically.
- 5 Click OK.
- 6 On the Map menu, click Modify Color Maps.
- 7 In the Channel box, select Master.

- 8 Click the MultiProbe Math Correction button.



Tip

You may want to drag the midtones point after clicking the MultiProbe Math Correction button to make minor adjustments to the image.

- 9 Click OK.



Note

The mathematical method of color correction sets the highlights and shadows in an image by assigning the lightest and darkest CMYK ink values or RGB screen values to the lightest and darkest areas in an image.

Because setting highlights and shadows generally alters the midtone pixel values, the mathematical method also adjusts the brightness values of the midtones to produce a good gray balance.

To make up for ink deficiencies and achieve a proper gray balance in a CMYK image, Image removes a little magenta and yellow ink in all gray areas relative to the amount of cyan ink.

To achieve a proper gray balance in an RGB image, Image makes sure there are approximately equal amounts of red, green and blue in a midtone neutral.

To make color corrections to your image automatically

- 1 Open the image you want to color correct.
- 2 On the Main toolbar, click the Color Probe tool and click the MultiProbe tool.
- 3 Click the Advanced button on the ribbon.
- 4 Select which channels you want to probe automatically.

- 5 Click OK.
- 6 On the Map menu, click Modify Color Maps.
- 7 In the Channel box, select the channel on which you want to make corrections.
- 8 Click the MultiProbe Auto Probe button.



Tip

You may want to make corrections to more than one channel. Repeat steps 7–8 for each channel you want to correct.

- 9 Click OK.



Note

The mathematical method of color correction sets the highlights and shadows in an image by assigning the lightest and darkest CMYK ink values or RGB screen values to the lightest and darkest areas in an image.

Because setting highlights and shadows generally alters the midtone pixel values, the mathematical method also adjusts the brightness values of the midtones to produce a good gray balance.

To make up for ink deficiencies and achieve a proper gray balance in a CMYK image, Image removes a little magenta and yellow ink in all gray areas relative to the amount of cyan ink.

To achieve a proper gray balance in an RGB image, Image makes sure there are approximately equal amounts of red, green and blue in a midtone neutral.

Open

This command opens the Open dialog box to let you choose an image file to open.

You can open files of various formats including: iGrafx Image (PPF); Micrografx Image 5.0 (PP5); Tag Image File Format (TIFF); Adobe Illustrator (AI); Adobe PhotoShop with layers (PSD); CompuServe Bitmap (GIF); CompuServe PNG (PNG); Computer Graphics Metafile (CGM); CorelDRAW! (CDR); CorelDRAW! Clip Art (CMX); Encapsulated PostScript (EPS); Flash Pix (FPX); JPEG File Interchange (JPG); Kodak Photo CD (PCD); Macintosh PICT (PIC); Micrografx Designer 4.x (DS4); Micrografx Designer File (DSF); Micrografx Designer Clip Art (MGX); Micrografx Drawing (DRW); Micrografx Image 4.0 (PP4); Microsoft Video (AVI); PC Paintbrush (PCX); PostScript (PRN); PostScript (PS); Scitex CT (SCT); Sun Raster (RAS); Targa Bitmap (TGA); Windows Bitmap (BMP); Windows DIB (DIB); and Windows Metafile (WMF).



Tip

To display thumbnails, click the Show/Hide Thumbnails button in the Open dialog box.

If thumbnails are being created and you want stop this process, highlight a thumbnail and click the right mouse button. Image opens a right mouse menu. Deselect Update Thumbs Automatically to stop thumbnails from being created. You can select Update Selected Thumbs to create thumbnails for any highlighted files.

To open a file

- 1 On the File menu, click Open.
- 2 In the Files of Type box, select the file format you want.
- 3 In the Open Mode box, select the method of opening the file you want to use.
- 4 In the Look In box, select the drive you want to use.
- 5 Click the folder containing the file you want to open.

6 Click the file.

7 Click Open.



Tip

To display thumbnails, click the Show/Hide Thumbnails button in the Open dialog box.

If thumbnails are being created and you want stop this process, highlight a thumbnail and click the right mouse button. Image opens a right mouse menu. Deselect Update Thumbs Automatically to stop thumbnails from being created. You can select Update Selected Thumbs to create thumbnails for any highlighted files.

Save As

The Save As command lets you assign a new name to a file or make a copy of an existing file by giving it a new name. You can also change the file format or image type using the Save As command.

You can save files to various formats including: iGrafx Image (PPF); Micrografx Image 5.0 (PP5); Tag Image File Format (TIFF); Adobe PhotoShop with layers (PSD); Amiga (IFF); CompuServe Bitmap (GIF); CompuServe PNG (PNG); Encapsulated PostScript (EPS); JPEG File Interchange (JPG); Micrografx Image 4.0 (PP4); Microsoft Video (AVI); PC Paintbrush (PCX); Scitex CT (SCT); Sun Raster (RAS); Targa Bitmap (TGA); Windows Bitmap (BMP); and Windows DIB (DIB).



Note

A progressive JPEG is a file saved using the JPEG format with interleaving, similar to an interlaced GIF, for use on Web pages. To save a file as a progressive JPEG, on the File menu, click Save As. Click Options and select the Progressive JPEG option.

To save a file using a different format or name

- 1 On the File menu, click Save As.
- 2 In the Save as Type box, select the file format you want.
- 3 In the Save In box, select the drive you want to use.
- 4 Click the folder where you want to save the file.
- 5 In the File Name box, type a new filename for the image.
- 6 Click Save.



Note

A progressive JPEG is a file saved using the JPEG format with interleaving, similar to an interlaced GIF, for use on Web pages. To save a file as a progressive JPEG, on the File menu, click Save As. Click Options and select the Progressive JPEG option.

The Benefits of Saving a File in the PPF Format

The PPF format is Image's native file format. Unlike other file formats Image supports, PPF is the only format that lets you save command list information. Therefore, you can make changes to the image by using the Command Center command (on the Edit menu) at any point. You can save command list information in two ways:

- As the entire command list, including all commands before and after the Insertion Pointer.
- As a redo list, where all commands following the Insertion Pointer in the command list are saved.

In addition to saving command list information, the PPF format also saves:

- Objects (including their alpha information and any properties you assigned)

- Grids and guidelines
- Current mask
- Color probe points
- Measure tool points
- Color management information



Note

If you need to open a PPF file in a previous version of Image that was created and saved using Image 8, you must select the Save Prior Version PPF File option in the PPF Options dialog box. To open the PPF Options dialog box, click Save As on the File menu, then click Options in the Save As dialog box. If you select this option, only the Mask Channel and CMS settings are saved. The command list is not saved if you select this option.

Undo/ Redo

The Undo command lets you undo most operations and actions you have made to an image. You can set the maximum number of undos you can make to an image in the Options dialog box under the Undo tab. You can also choose if you want a separate mask undo under this tab. If you select the Separate Mask Undo option, to undo a mask you must use the Undo command on the Mask menu.

To undo an action, you can either click Undo on the Edit menu, or click the Command Center Undo button on the Standard toolbar. For instance, if you cropped an image and want to undo the crop, click Undo Crop on the Edit menu.

If you want to undo more than one change, you can click the arrow next to the Command Center Undo button to display a history list. Click on the command from where you want to undo the actions.

The Redo command on the Edit menu lets you redo any operations and actions you have undone. You can toggle between Undo and Redo to see an image before and after the latest change.

You can also undo a wizard or a macro using the Undo command.

To undo a change

- ▶ On the Edit menu, click Undo. The image appears as it did before the last edit.

To redo changes to an image

- ▶ On the Edit menu, click Redo. The image appears as it did before you chose the Undo command.

Snapshot

The Snapshot command on the Edit menu lets you make a temporary copy of an image in any state and then paint from it. For example, you can apply an effect to an image (Oil Painting) and then take a snapshot of the image. You can then apply another effect to the image (Charcoal) and use the Snapshot brush style to paint away the Charcoal effect to show the Snapshot of the image with the Oil Painting effect underneath.

To make a snapshot of an image

- ▶ On the Edit menu, click Snapshot.

To paint from a snapshot

- 1 Make any changes to the image.
- 2 On the Edit menu, click Snapshot.
- 3 Make further changes to the image.
- 4 On the Main toolbar, click Retouch tools and click the Paint tool.
- 5 Click the Brush Styles button on the ribbon.
- 6 Choose Snapshot from the list of Eraser brush styles.
- 7 Select the brush options on the ribbon, if required.
- 8 Paint on the image.

Purge

The Purge command on the Edit menu lets you permanently clear from memory the Undo list, the last Snapshot or the Clipboard. You cannot undo this command.

You want to use this command when information held in memory is so large, Image cannot perform the next operation.

If the menu item is dimmed, the buffer is already empty and does not need purging.

To free memory by purging the Undo list, the last Snapshot or the Clipboard

- ▶ On the Edit menu, point to Purge and click Undo, Snapshot or Clipboard.

Copy

The Copy command sends a duplicate copy of the image area defined by a mask to the Windows Clipboard. The working image is unaffected when using the Copy command. The contents of the Clipboard can be pasted back into an Image image or any other Windows program that accepts a bitmap format, such as a page layout or graphics presentation program.

Image preserves transparency, merge modes and image properties when you copy to the Clipboard.

The Clipboard retains the most recently cut or copied image. Each subsequent cut or copy from any Window program replaces the contents of the Clipboard.

To copy an area of an image to the Clipboard

- 1** Mask the area you want to copy to the Clipboard.
- 2** On the Edit menu, click Copy.

Object Manager



The Object Manager command lets you show or hide the Object Manager window, a moveable window that contains a graphical list of the objects that are floating on the active image and the individual color channels in the image. A check mark appears to the left of the Object Manager command when the window is shown.

You can also click the Show Object Manager button on the Image Tools toolbar to display the Object Manager window.

Objects Tab Window

The Objects tab contains image thumbnails for selecting or deselecting each object. The thumbnail for a selected object appears with a highlighted background. You can change the size of the thumbnail by clicking on the arrow on the Objects tab and selecting the thumbnail size from the menu. You can select multiple objects by clicking another object while holding **Shift**.

Using the Objects tab, you can hide, group, and delete and crop selected objects. Command buttons are provided in the Object Manager window.

Using the Objects tab, you can move selected objects forward or backward (in layers) on top of the base image. Image provides two methods to change the layer in which an object resides. Using the first method, you click a button to move an object up or down one layer. Using the second method, you drag the object to a different position on the Objects tab.

Objects can also be copied by dragging the selected thumbnail from the Objects tab to the image onto which the object is to be pasted.

Using the Objects tab, you can crop objects. Cropping lets you remove unwanted areas of the object by selecting a rectangular portion of the object that you want to keep and discarding the portion of the object outside the rectangle.

An object can also have its alpha channel edited. This lets you change the characteristics of the whole object or parts of it. Then, when you merge the edited alpha channel into the object, it changes the appearance of the object.



Note

Many of the commands presented in the Objects tab are available from the Object menu.

Channels Tab Window

The Channels tab of the Object Manager window lets you create and manage the color channels of your image. The window lists all channels in the image including the composite channel.

The thumbnail for a selected channel appears with a highlighted background. You can change the size of the thumbnail by clicking on the arrow on the Channels tab and selecting the thumbnail size from the menu. The thumbnail updates automatically as you edit the channel.

You can also view channels in color rather than in grayscale by clicking on the arrow on the Channels tab and selecting the Show Channels in Color option.

You can select multiple channels by clicking another channel while holding **Shift**.

Image lets you copy a selected channel into a mask channel, copy a channel to the Clipboard, paste a channel into another channel, import an image file into a channel, and save a selected channel to an image file.

To show or hide the Object Manager

- ▶ On the View menu, click Object Manager.


To show or hide objects in the Object Manager



Note

This feature lets you temporarily remove an object from floating over the base image. Hidden objects do not appear on the base image. They also cannot be selected for additional operations within the Objects tab window.

Do not confuse this command with the Hide Marquee command on the Object menu.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the object to select it.
- 3 Click the Object Shown button  for the object to hide it

or

Click the Object Hidden button  for the object to show it.

To select or deselect objects in the Object Manager



Note

To select an object floating on the base image, you can also simply click the object. Selected objects show a highlighted background in the Objects tab regardless of the selection method used. Deselected objects show a white background.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the object that you want to select or deselect.
- 3 For a multiple selection, press and hold down **Shift** and click any additional objects you want.

To lock or unlock objects using the Object Manager



Note

This feature lets you lock/unlock an object on the base image. Locking an object prevents any inadvertent editing of the object. Locked objects cannot be moved, deleted, or cut. This command is also available in the Object menu.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the object to select it.
- 3 Click the Object Unlocked button for the object to lock it

or

Click the Object Locked button for the object to unlock it.

To group objects using the Object Manager



Note

This feature lets you group two or more objects. After the objects are grouped, Image considers the objects to be one object. This command is also available in the Object menu.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the first object to select it, press and hold **Shift**, and click the additional objects to be grouped.
- 3 Click the Group button.

To ungroup objects in the Object Manager



Note

This feature lets you ungroup a previously grouped set of objects. This command is also available in the Object menu.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the group.
- 3 Click the Group button.

To delete objects in the Object Manager



Note

This feature lets you delete a selected object or group of objects.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the first object to select it, press and hold **Shift**, and click the additional objects to be deleted.
- 3 Click the Delete button.

To crop objects in the Object Manager



Note

This feature lets you crop a selected object or group of objects.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the first object to select it, press and hold **Shift**, and click the additional objects to be cropped.
- 3 Click the Crop button.
- 4 In the Method list box in the ribbon, select a cropping method.
- 5 If you choose Constrain Aspect, type values for the Width and Height.
- 6 If you choose Constrain Size, type values for the Width and Height and select a unit of measure, if necessary.
- 7 Click where you want to start the cropping rectangle. Press the left mouse button to move the rectangle while you are drawing it.
- 8 In Freeform and Constrain Aspect, you drag a rectangle; in Constrain Size, you position a box.
- 9 When the rectangle is the size and location you want, release the left mouse button to crop the image.

To edit the alpha channel of objects in the Object Manager



Note

This feature lets you edit the alpha channel of an object or group of objects. This lets you change the characteristics of the whole object or parts of it. In this example, you select an object and edit its alpha channel to include a gradient subtractive mask. This makes the object transparent.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click an object to select it.
- 3 Click the Alpha Channel button.
- 4 Click the Mask tool in the Main toolbar.
- 5 Click the Shape Mask tool.
- 6 Click Subtractive Mode in the ribbon.
- 7 In the Shape box in the ribbon, select the circle.
- 8 Draw a circular mask on the object.
- 9 Click the Fill tool in the Main toolbar.
- 10 Click the Gradient Fill tool.
- 11 In the Gradient Type box in the ribbon, select Radial.
- 12 Move the mouse pointer over the center of the object mask and then drag from the center to the outside edge.
- 13 Click the Alpha Channel button.

To move objects using the Object Manager



Note

This feature changes the layers in which objects float on the base image. You can also change the layer in which an object floats by dragging the object up or down within the Objects tab. Commands for this feature are also available in the Object menu.

- 1 If necessary, click the Objects tab in the Object Manager window.
- 2 Click the first object to select it, press and hold **Shift**, and click the additional objects to be moved.
- 3 Click the Bring Forward button to move the selected object up one layer

or


Click the Send Backward button to move the selected object down one layer.



Tip

To move the object to the front or back layer, press **Shift** while clicking the Up or Down button, respectively.

To show or hide channels in the Object Manager

- 1 If necessary, click the Channels tab in the Object Manager window.
- 2 Click the channel to select it.
- 3 Click the Channel Shown button  for the object to hide it

or

Click the Channel Hidden button  for the object to show it.

To select or deselect channels in the Object Manager

- 1 If necessary, click the Channels tab in the Object Manager window.
- 2 Click the channel that you want to select or deselect.
- 3 For a multiple selection, press and hold down **Shift** and click any additional channels you want.

To see individual channels in color

- 1 If necessary, click the Channels tab in the Object Manager window.
- 2 Click the arrow on the Channels tab.
- 3 Select the Show Channels In Color option.

To copy a channel into a mask channel

- 1 If necessary, click the Channels tab in the Object Manager window.
- 2 Click the channel that you want to copy.
- 3 Click the Send To Mask Channel button.

To copy a channel to the Clipboard

- 1 If necessary, click the Channels tab in the Object Manager window.
- 2 Click the channel that you want to copy.
- 3 Click the Copy Channel button.

To import an image file into a channel

- 1 If necessary, click the Channels tab in the Object Manager window.

- 2 Click the channel into which you want to import an image file.
- 3 Click the Import Channel button. The ImageBrowser dialog box shows.
- 4 Select the image file you want to import and click Open.

To save a channel as an image file

- 1 If necessary, click the Channels tab in the Object Manager window.
- 2 Click the channel that you want to save.
- 3 Click the Export Channel button. The ImageBrowser dialog box shows.
- 4 Name the file, choose a file type and click Save.

To edit a channel

- 1 If necessary, click the Channels tab in the Object Manager window.
- 2 Click the channel that you want to edit.
- 3 Use one of the Retouch tools to paint in the image.



Note

If you paint with white, you are adding to the channel; if you paint with black, you are removing from the channel. You can also paint with a color or a lower opacity to add to the channel with lower opacities.

Getting Started

The Image Window

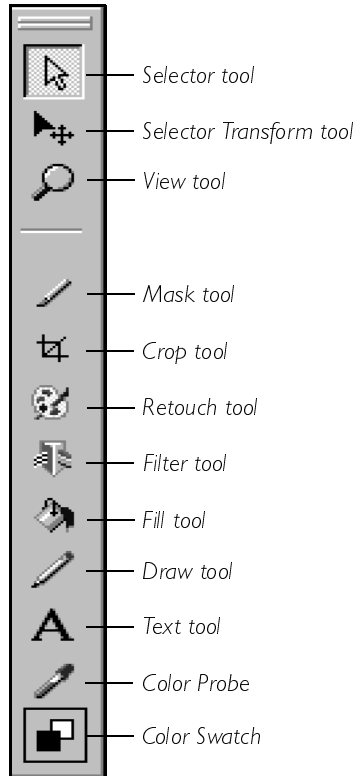
Think of the Image main window as an electronic art studio, darkroom, and pre-press lab. Certain areas of the window always display the same information. For example, the top of the window always shows the menus. The ribbon below the menus displays options for tools.

Open an image to access all of Image's menus and commands



.The Main Toolbar and Ribbon

The Main toolbar, found at the left of the main Image window, contains tools that let you edit images. There is also a View tool that lets you view an image at different sizes.



When you click a tool in the main toolbar, the ribbon at the top of the window changes to show options that let you specify how you want to use the tool.

Click to save preferences for the tool



For example, if you want to change the mode for freehand masking, click the Mask tool, then choose the Freehand Mask tool. The ribbon displays options for masking, including modes.

You can also create your own toolbar for use in addition to the main toolbar.

Menu Commands

The menus are in the menu bar at the top of the window (under the title bar). The menus are grouped by category. For example, the Mask menu contains commands that let you load, save, edit, and remove masks.

The Mouse Menu

Click the right mouse button to open the mouse menu for quick access to commands and tools related to the mode in which you are working. For example, if you draw a mask on an image and click the right mouse button, a mouse menu displays commands such as Remove Mask, Undo Mask, Mask Transform, etc. The commands available depend on what you are working with in Image.

Hint Line

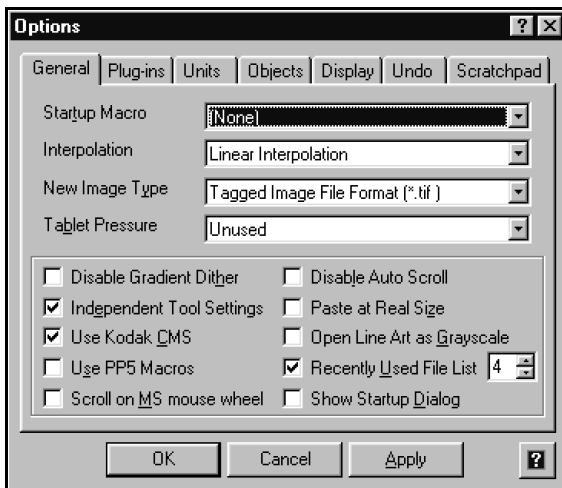
The hint line at the bottom of the main window gives a brief description of the object under the pointer. If the pointer is over a command or tool, the keyboard shortcut for that command or tool also appears.

Image Windows

Different images appear in separate windows within the Image main window. You can display more than one image at a time, but only the active window receives the action. For example, when you save an image, only the one in the active window is saved.

Setting Image Options

Image lets you customize how you work in many ways. You can set options with the Options command on the Tools menu. The Options dialog box contains seven categories, each in its own panel.



The categories include General, Plug-ins, Units, Objects, Display, Undo, and Scratchpad.

General

- The **Startup Macro** list lets you choose a macro that runs when you start Image.
- The **Interpolation** list lets you select the interpolation method Image uses when you resample an image. (Resampling means changing the pixel dimensions of an image.) Image determines how pixels are averaged using one of the following three interpolation methods:

- **Linear Interpolation** is the fastest interpolation method. If you want to preserve the visual impact of an image, this is the best method to use. You may want to use linear interpolation if you are placing text on an image.
- **Quadratic Interpolation** and **Bi Cubic Interpolation** are slower interpolation methods. However, if you want to preserve an image's brightness and sharpness, these are the best methods to use. Bi Cubic Interpolation is the best method to use if your main concern is preserving the edges of an image.
- The **New Image Type** list lets you choose the default file type for new images.
- The **Tablet Pressure** list lets you set miscellaneous options if you are using a tablet/digitizer. Image supports tablets/digitizers that provide a Wintab driver with their software.
- If you choose **Unused**, no pressure is available. If you choose **Transparency**, your brush strokes become less transparent as you apply more pressure to the tablet with the pen. The transparency decreases with pressure, up to the limit you specified in the ribbon. If you choose **Brush Size**, your brush size increases as you apply more pressure to the tablet with the pen. The brush size increases with pressure up to the limit you specified in the ribbon. If you choose **Brush Size and Transparency**, your brush strokes become less transparent and your brush size increases as you apply more pressure to the tablet with the pen. The transparency decreases and the brush size increases with pressure up to the limit you specified in the ribbon.
- The **Disable Gradient Dither** option lets you turn off gradient dithering. If you will not be printing the gradient, but only displaying it, you may want to disable gradient dithering. If you have a 24-bit monitor, you may not need to display gradient dithering.



Note

Gradient dithering does not display bands of color; it provides a nice, even blend from one color to another.

- The **Independent Tool Settings** option lets you choose how setting the preferences for one tool affects the preferences for other tools in the group.
- The **Use Kodak CMS** option lets you use the Kodak Precision Color Management System.
- The **Use PP5 Macros** options lets you use macros you created with Picture Publisher 5.0.
- The **Scroll on MS Mouse Wheel** option sets the mouse wheel to scroll up and down, rather than zoom.
- The **Disable Auto Scroll** option lets you turn off auto scrolling. For example, when you paint and the cursor meets the edge of the window, Image automatically scrolls. Select this option to turn off auto scrolling.
- The **Paste at Real Size** option lets you paste copied images at real size, regardless of resolution. For example, if you copy part of an image that has a resolution of 300 into an image that has a resolution of 150, the pasted image is scaled down.
- The **Open Line Art As Grayscale** option lets you edit line art images as 8-bit images. If the option is deselected and you edit a line art image as a 1-bit image, your image requires one-eighth the memory of the same image edited as a grayscale image. This could be important if you are editing a large image or if you have limited computer memory. When you edit an image as a 1-bit image, you can use only two colors: black and white.
- The **Recently Used File List** lets you enable or disable the recently used file list on the File menu. You can specify the number of recently used files up to 10.
- The **Show Startup Dialog** options lets you enable or disable the startup dialog box each time you open Image. This dialog box lets you create a new image, open an image, open a recently used file, or acquire an image using a scanner or digital camera. You can also read the current Tip of the Day.

Plug-ins

- The **Plug-in Paths** box set the paths for plug-ins. (Plug-ins are additional effects that you can buy from different software manufacturers, and “plug in” to an application.)
- Select the **Use Plug-ins** option if you are using plug-ins.

Units

- The **Use Percentages** option lets you display pixel values as percentages (0 to 100) or levels (0 to 255).
- The **Screen Width** box lets you specify the active display area on the monitor. You must enter the physical size (in inches) correctly so Image can display the actual size of an image.
- The **Rulers On** option lets you display a pair of rulers in the current image window. To show or hide the rulers, click Rulers on the View menu.
- The **Ruler Units** box lets you control the unit of measurement for rulers. You can choose from inches, millimeters, picas/points, centimeters, and pixels.
- The **Snap to Guides** option lets you snap to a guide in the active image window.
- The **Grid On** option lets you show or hide the a grid in the active image window.
- The **Snap to Grid** option lets you snap to the grid in the active image window.
- The **Grid Units** box lets you control the unit of measurement for grids. You can choose from inches, millimeters, centimeters, and pixels.
- The **Width** box lets you set the horizontal spacing between grid dots using the Grid Units.
- The **Height** box lets you set the vertical spacing between grid dots using the Grid Units.

Objects

- The **Allow Tooltips on Objects** option displays a “ToolTip” when you rest the mouse pointer over an object. The ToolTip displays the name of the object (if any), the object's distance from the top and left side of the image, and the width and height of the object.
- The **Enable Paste At Dialog** option lets you enable or disable the Paste At dialog box when you paste an object into an image. The Paste At dialog box lets you specify the X and Y positions of the pasted object.
- The **Object Rendering** option lets you see the object you are moving or dragging (and not just the object's outline).

Display

- The **Mask/Ruby Overlay Color** list lets you set the color used when displaying masks in ruby overlay mode.
- The **Sizeable Zoom Window** option lets Image automatically resize an image window depending on the current zoom percentage.
- The **Enable Direct Draw** option lets you use a Windows 95 function to speed up the screen redrawing process. If you notice some inconsistencies in your images, disable this option.
- The **Image Progressive Rendering** option lets you view the moving image as you drag a scroll bar left and right, up and down. This generally occurs when you have zoomed in on an image.

Undo

- The **Mode** list lets you choose No Undo, Auto Apply, or Manual Apply. Auto Apply lets every new change or edit be automatically applied to the working image. This is a convenient way to work through a session without stopping to apply changes manually.



Tip

If you choose the No Undo option in the Mode list, the Disable Mask Undo option is unavailable.

- If the **Manual Apply** option is selected, the Manual Apply command on the Edit menu applies all changes made since the last manual apply. This lets you evaluate changes in combination before making them part of the image. Regardless of which apply mode you use, only the Save and Save As commands permanently save changes to a file.
- In **Auto Apply** mode, the Undo command on the Edit menu and the Eraser tool remove only the last edit. Choosing the Auto Apply option means changes are automatically applied; you cannot undo them. It also frees up memory.
- The **Number** list box lets you choose whether you want one undo per image or per object. If you choose **One Per Image**, you can undo only the last change made, whether it was to an image or object. If you choose **One Per Object**, each object has its own undo. The base image is also considered an object.
- The **Disable Mask Undo** option lets you turn on and off undo for mask edits. If you choose this option, then you cannot undo mask edits, but you save memory.
- The **Command Center Versioning** list lets you decide how you want Image to keep track of the work done on an image. You can choose None, Author, Date, or Author and Date.

- The **Disable Prompt on New File** option lets you disable a prompt that displays when you scan an image. The prompt asks if you want to save the file so you can have a command list.
- The **Disable Command List** option lets you turn on and off the Command List. If you choose this option, Image will not create a Command List for the image. Deselect this option to access unlimited undo and redo capabilities.

Scratchpad

- The **Image Type** list lets you choose a color or a gray image for the scratchpad.
- The **Width** and **Height** boxes let you set the image size. The maximum size for the scratchpad is 500 pixels by 500 pixels. When you are working with very large image files, the repainting and preview of your image modifications can become time-consuming. By creating a scratchpad large enough to preview your edits, you can copy a smaller section of an image to it and experiment with your edits right on the scratchpad.
- Working with a scratchpad can be handy in helping you get the feel of a particular brush setting before applying it to an image. It is also a good place to create new colors or blends the same way a traditional artist uses a palette.
- If your edited section is what you want, you can use that as a reference and apply it to your image file, or simply cut and paste the edited section directly from the scratchpad.
- You can create an unlimited number of scratchpad windows of various sizes and color definitions using the Show Scratchpad command in the Options menu. You can also use the Duplicate command in the Window menu to open copies of your scratchpad window. To close a scratchpad, double-click the scratchpad Control menu box or choose the Close command in the File menu.

Color and Color Correction

What Is Color?

The color you see around you is electromagnetic energy, commonly known as light, which radiates at different electromagnetic frequencies. Just as your ear is sensitive to different audio frequencies that you hear as different “pitches,” your eye senses different electromagnetic frequencies as colors.

The eye is sensitive to only a narrow band of electromagnetic frequencies. The highest frequency color that we can see is violet. Above violet is the invisible ultraviolet spectrum. The lowest frequency color we can see is red. Below red is the invisible infrared spectrum. Night vision devices often work in this range proving that there is light around us that we cannot see.

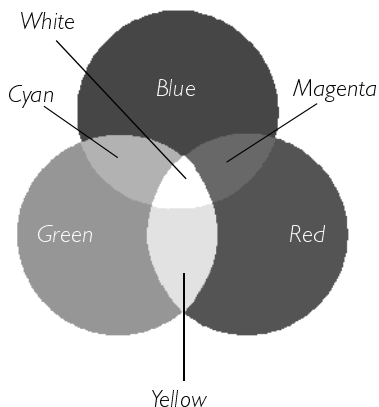
Even though our eyes can see only a narrow slice of the electromagnetic spectrum, this slice consists of millions of colors. Your monitor may be able to reproduce these colors, but if you look closely at your monitor you will see that it actually emits only three colors: red, green, and blue.

If you look closely at a color photograph in this manual, you will see that it is made up of tiny dots in three colors: cyan, magenta, and yellow. How is it possible that three colors can create millions of colors? The answer lies in the Additive and Subtractive color models that are described below.

Additive and Subtractive Color Models

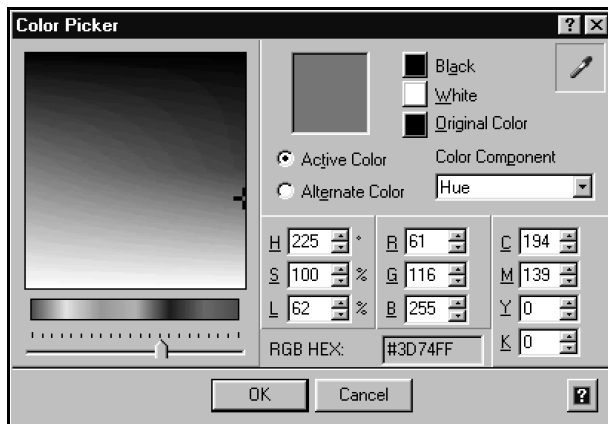
The Additive color model is built on three colors called the *additive primaries*. The additive primary colors are red (R), green (G), and blue (B). By mixing these colors in different percentages, any other color can be created. When blue and green are mixed, the resulting color is cyan. When blue and red are mixed, the resulting color is magenta. If all three primary colors are mixed together, the resulting color is white.

The Additive model is best depicted in computer monitors and television screens. Both are composed of tiny red, green, and blue illuminating dots.



Overlapping circles of blue, red, and green light create white at the center and three secondary colors: cyan, magenta, and yellow.

The Additive color model can be illustrated further by looking at Image's Color Picker. Double-click the Color Swatch or any color in the Color Palette to open the Color Picker.

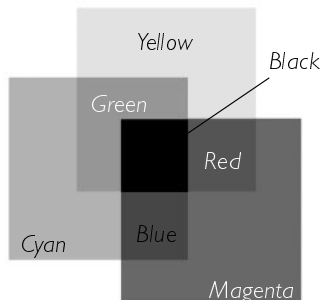


Color Picker dialog box

By changing the RGB values in the Color Picker, you can immediately see the resulting color. Set blue (B) and green (G) to 100% and the color is cyan. Set blue (B) and red (R) to 100% and the color is magenta. Notice that if all RGB values are the same, the resulting color is a shade of gray.

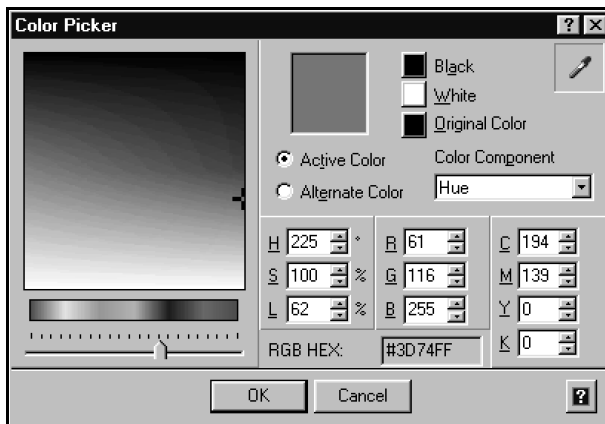
The Additive color model is sometimes known as the Emittive color model.

The Subtractive color model is similar to the Additive color model except that it is built on the *subtractive* primary colors. The subtractive primary colors are cyan, yellow, and magenta. Notice that the colors created by the mixing equal amounts of subtractive primary colors *create* the additive primary colors. The opposite is also true; the mixing of equal amounts of additive primary colors creates the subtractive primary colors.



The Subtractive color model is implemented in the printing industry. Cyan, yellow, and magenta are three of the four ink colors used in four-color, or process, printing. Printers combine these three colors to produce virtually every color in the spectrum. A fourth color, black, is usually added because ink impurities make it difficult to create a true "black."

To demonstrate the Subtractive color model using the Color Picker, change the values in the cyan (C), yellow (Y), magenta (M), and black (K) areas to see the results of mixing these colors together:



The Subtractive color model is sometimes known as the Reflective color model.

Image also supports another color model on the Color Picker. This is the Hue, Saturation, and Lightness (HSL) color model.

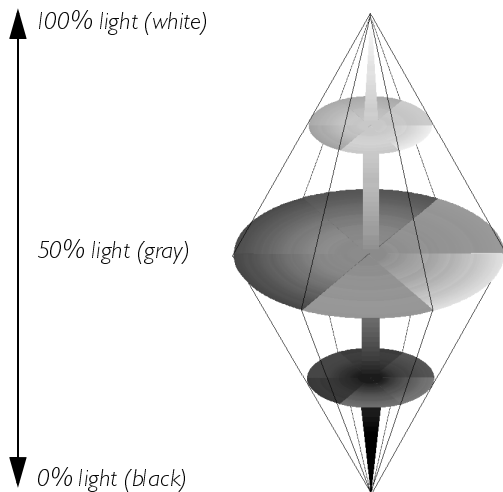
HSL Color Model

The Hue, Saturation, and Lightness (HSL) color model defines a color based on its hue (color), saturation (purity of the color), and lightness (brightness).

Hue

Hue is what we usually define as the *color* of an object. The hue of the sky is blue, the hue of a banana is yellow, and the hue of an apple is red.

The color wheel is a useful tool in understanding hue and the numeric values assigned to hues.



The lightness axis adds a third dimension to a color wheel, which produces the HSL color model

The hue of a color is assigned a number from 0° to 360°. Red is defined at the 0° point, blue is 120°, cyan is 180°, green is 240°, and so on. Change the hue (H) values on Image's Color Picker to see the hue change. Also, look at the Hue Shift slider in Image's Hue Map dialog box for another way to change the hue of an image. Open the Hue Map dialog box by opening the Map menu and choosing Hue Map.

Saturation

The saturation of a color describes the purity of a color. The range of saturation is defined in value percentages from 100% (full color intensity) to 0% (no color intensity). A black-and-white photograph has a color saturation value of 0%. Use the Saturation Shift slider in the Hue Map dialog box to see how changes in saturation affect an image.

Lightness

Lightness refers to the amount of white or black in a color and is defined in percentages from 100% (totally white) to 0% (totally black). Fifty percent lightness is the pure hue. Use the Lightness Shift slider in the Hue Map dialog box to see how changes in lightness affect an image.

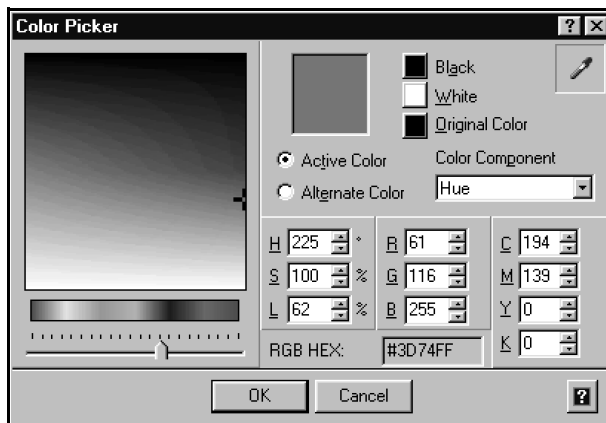
Using Color in Image

Image provides these tools for selecting and applying colors:

- Color Picker
- Color Palette
- Color Probe
- Color Swatch

Color Picker

The Image Color Picker lets you use any of the color models when selecting a color:



You access the Color Picker dialog box by double-clicking a color sample in either the Color Swatch or the Color Palette.

You can select a color in the Color Picker by pointing to it with the mouse or by entering values for the specific components of one or more models.

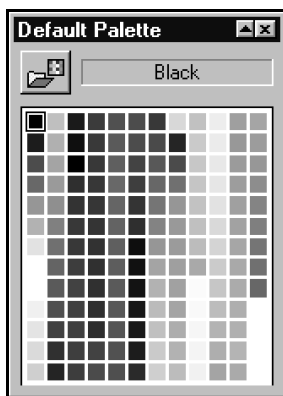
All of the color models are active at the same time. You can work with them simultaneously; if you change a value in one model, the corresponding values change in all other models. Image also displays the RGB hex value for any color you want to use on a Web page.

You can click the Color Probe tool in the dialog box to “probe” any image on screen for exact colors. In addition, you can use the Color Probe tool to probe Web pages for exact colors.

To do this, open the Web page you want to probe in your default Web browser. Reduce the Image window enough so you can see the Web page and the Color Picker dialog box at the same time. Click the Color Probe tool in the dialog box and probe the Web page.

Color Palette

The Color Palette is a collection of colors grouped together for easy access. Image comes with many different palettes. You can also create your own. The default palette contains many of the common colors such as red, green, blue, cyan, magenta, yellow, black, and white.



The Color Palette contains two menus: File and Edit. To access these menus, click the Palette Options button in the dialog box. The commands in the File menu let you choose another palette to open, save the current palette, merge the current palette with another, and reset the current palette to the way it was the last time it was saved. The Edit menu lets you perform various functions on the current palette, such as add or delete a color, label a color, or fill the palette with a range of colors.

Color Probe and Color Swatch Tool



The Color Probe tool lets you set the active color in the Color Swatch by choosing a color from an image. The Color Probe tool is useful when you want to select colors that exactly match those in the image.



The Color Swatch displays two colors: the active color (in front) and the alternate color (in back). You can switch between the active color and the alternate color by clicking the alternate color in the Color Swatch. To change the active color, either click a color in the Color Palette or use the Color Probe tool.

Understanding Color Correction

For many different reasons, the colors in a photograph may not be the ones you want. Perhaps the lighting was incorrect when the picture was taken, or maybe there was a problem during the development of the photograph. Many old photographs develop an

undesirable green hue as they age. Whatever the problem, Image can correct it.



Too flat (needs contrast)



Too light (needs darkening)



Has a color cast



Needs tonal adjustment



*Apply posterization
to create special effect*



Apply threshold to create special effect

To correct an image with color problems, you must first decide what is wrong with the image and then decide which Image feature to use to correct the problem.

Using the example of a photograph that is too green, you could remove some green color from the image. However, you could also add a contrasting color (magenta) to neutralize the excessive green. Color channels are useful when changing a primary color throughout the image.

Using Color Channels

Many Image dialog boxes, such as the Modify Color Maps dialog box and the Color Balance dialog box, offer color channel options. A color channel is an information layer of a color model. The RGB model has three channels: red, green, and blue. The CMYK model channels are cyan, yellow, magenta, and black (K). The HSL model channels are hue, saturation, and lightness.

Image lets you selectively work on each channel separately or you can use the Master channel to affect all channels equally. To use a color channel, decide which color channel you want to use, select the channel from the list box, and adjust the color until it is correct. You can also split channels into separate images, edit each image individually, and recombine the channels using the Channels command on the Image menu.

Using the Correct Feature

It's sometimes difficult to know which Image feature to use to correct a color problem. Many features seem to perform the same function. For example, you can reduce a specific color in an image by using either the Modify Color Maps command or the Color Balance command.

Generally, use the Modify Color Maps command if you want to change many attributes of an image at the same time, such as brightness and color balance. If you want to change just one attribute in an image, use a command other than the Modify Color Maps command, such as the Color Balance command.

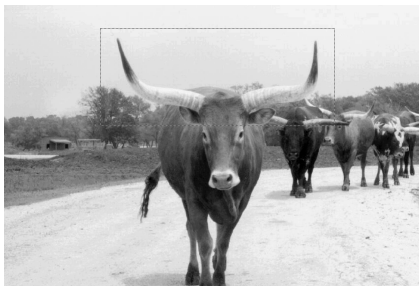
Working with Masks

What Is a Mask?

A mask is a border used to set off an area for changes or protection from changes. Masks also mark an area for copying or cutting to the Windows Clipboard or a named clipboard.

The Mask tools in Image are modeled after graphic design and photographic design tools. For example, an icon used for several of the Mask tools is a razor knife, a tool commonly used when manually creating cardboard or film masks.

A mask can be rectangular, elliptical, freehand-drawn, or painted. You can use the Smart Mask tool to trace the edges of obviously visible objects. After you create a mask, you can change its size, its shape, or both.



A mask is marked with a black and white marquee on a color image, and green and red on a grayscale image. You can hide the mask. Hiding a mask does not change any property or characteristic of the mask. A hidden mask can easily be shown on the image again.

You can draw multiple masks on a single image. The masks can be separate or overlapping. A new mask overlapping an existing mask can:

- Add to the area of the existing mask.
- Subtract from the area of the existing mask.
- Add to the area where the mask doesn't exist and subtract from the area where the masks overlap.



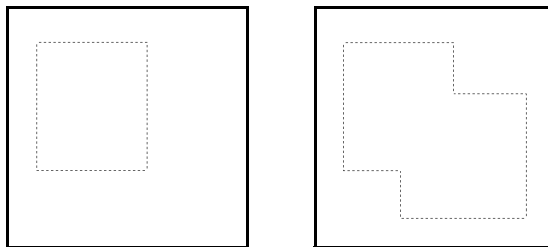
Tip

To stop drawing a mask, press **Esc** before you release the mouse button.

You also can convert masked areas into Image objects. See the section “Creating Objects” on page 62 for more information.

Adding to the Area of a Mask

An additive mask lets you create a new mask or add to an existing masked area.

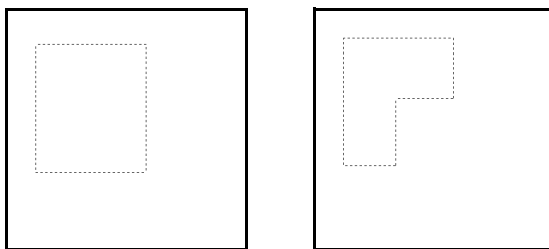




The Additive mode button controls what is included in the mask. For example, if you do not paint enough, you can add to the masked area using the Additive mode button in the ribbon. This way, you can get exactly what you want in the masked area.

Subtracting from the Area of a Mask

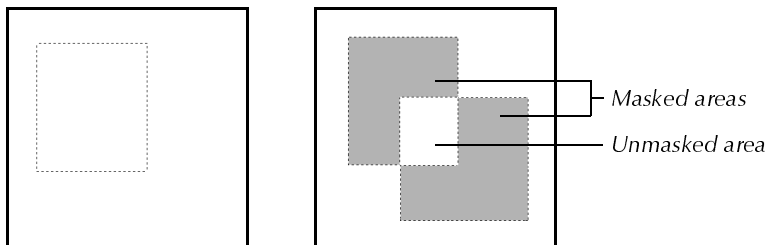
A subtractive mask lets you remove portions of an existing masked area



The Subtractive mode button controls what is included in the mask. For example, if you paint too much, you can subtract the unwanted area from the mask using the Subtractive mode button in the ribbon. This way, you can get exactly what you want in the masked area.

Adding an Inverse Mask

An inverse mask is special in that it adds to the area of existing masks where a mask doesn't exist, but subtracts from them where they overlap.



The Inverse mode button lets you choose the inverse mode to add to the area of existing masks where a mask does not exist, but subtract from existing masks where they overlap.

Creating Freehand Masks



Image lets you draw masks using several methods to create a freehand mask: Freehand, AutoMask, and Point Edit. The Freehand method is the simplest. You trace the outline of the area you want to mask. When creating a freehand mask, you can draw the mask with either line segments or Bézier curves.

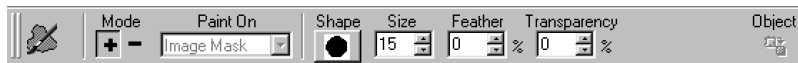
Using AutoMask, Image enhances the freehand method by automatically finely tracing from point to point along a rough path you create. The tracing is drawn between contrasting colors or by variations in HSL (Hue, Saturation, Lightness).

Point Edit lets you adjust the points as a mask is being created. You can use the Point Edit method to edit points as you are creating a mask. You may want to use this method if you have placed a point and are not happy with its placement.

Painting on a Mask



You can paint a mask on an image using the Paint On Mask tool in the Mask tool set. By painting directly on the image, you can create irregularly-shaped masks using the brush size and shape you want.



Use the Additive and Subtractive mode buttons to control what is included in the mask. For example, if you paint too much, you can subtract the unwanted area from the mask using the Subtractive mode button in the ribbon. This way, you can get exactly what you want in the masked area.

Set options for painting on a mask in the Paint On list box on the ribbon. Choose Image Mask to paint a mask directly on the image. Choose Object Alpha to paint on the object's alpha channel. This lets you change the characteristics of the whole object or parts of it. For example, select an object and choose Object Alpha in the Paint on Mask list box. Choose the Subtractive mode to paint away part of the object. Choose the Additive mode to add part of the object back.

Smart Masking



The Smart Mask tool draws a mask automatically based on color. You choose the range of colors to be masked by pointing the cursor to an area of the image you want masked and clicking. Smart Mask senses color breaks within the image and masks between them.

The Smart Mask tool is most effective when the contrast or color break is sharp at the edge of an area to be masked. For example, the Smart Mask tool is useful for masking black letters when they are displayed on a white background.

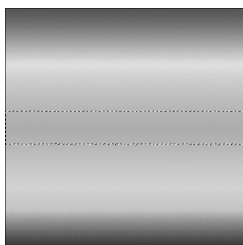
Use the Smart Mask tool ribbon to set masking options.



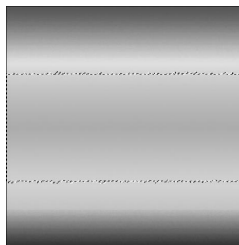
As with other masking tools, you can set the mode to Additive (to add to the mask) or Subtractive (to subtract from the mask).

You can set the Wand Range to determine sensitivity to color differences. As you increase the Wand Range percentage, the area of color included in the mask increases. For example, a 100% setting masks everything in the image; 0% masks a single color. If you choose a 10% setting, the mask surrounds colors that are within 10% of each other (for example, yellow plus or minus 10%).

You can choose the color model to be used in determining the mask. The default is Normal (RGB) if the image is an RGB image, and CMYK if the image is a CMYK image. In some cases where most hues in the image are similar but there is a wide range of lightness and darkness, you might want to use the HSL (Hue, Saturation, Lightness) model.



Normal (RGB)



HSL



Tip

The Color Model option is not available when the active image is grayscale.

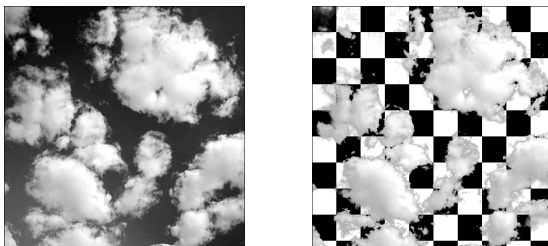
Set the Wand Fade to create smooth edges on masks as the mask is drawn. As you increase the Wand Fade percentage, the edges of the mask become softer. As you decrease the Wand Fade percentage, the edges of the mask become more defined.

Click the Similar button to mask similar colors throughout the image after you've created the first mask.

You also can use the Expand button in the ribbon to increase the size of the mask by a percentage.

Using the Chroma Mask Command

The Chroma Mask command on the Mask menu lets you easily create a mask for dropping out color. For example, if an image has a neutral background (blue, gray, green), you can use the Chroma Mask command to draw a mask around the background, and easily replace the background with a texture.



The Fade option in the Chroma Mask dialog box lets you set the Fade percentage. As you increase the Fade percentage, the edges of the mask become softer. As you decrease the Fade percentage, the edges of the mask become more defined.

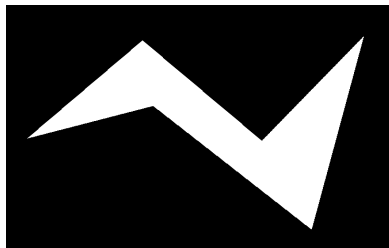
Creating a Mask from an Object

The Create Mask From Object command on the Mask menu lets you create a mask from a selected object or group of objects. It can be especially useful when you want to create a text mask, as shown.

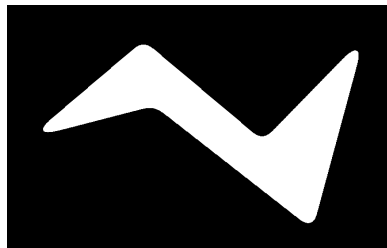


Smoothing a Mask

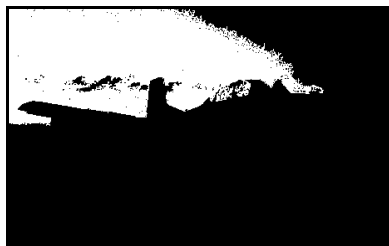
The Mask Smoother command on the Mask menu lets you smooth rough edges of masks.



Before



After



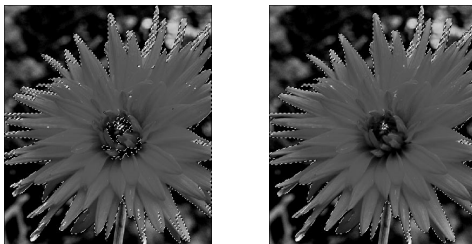
Before



After

Removing Holes in a Mask

The Remove Holes command on the Mask menu lets you remove holes from the inside of masks. For example, the Smart Mask tool may leave part of the image inside a mask unmasked. Use the Remove Holes command to include the areas inside the mask.



Stroking a Mask

The Stroke Mask command on the Mask menu draws a border outline under a mask. You can use this command to add any number of special effects, such as adding a neon border to a masked part of the image.



The feather amount is set from the current Retouch tool ribbon settings, which lets you set the smoothing transition between the line and surrounding image. You define the feather as a percent of the drawing tip size. Feathering applies to both sides of the line.

Using Ruby Overlay



The Ruby Overlay button simulates the thin plastic sheets used to cut overlays on artwork.

Click the Ruby Overlay button on the Image Tools toolbar to display the overlay on a base image. The color of the overlay is red by default. You can change the color with the Mask/Ruby Overlay Color option on the Display tab of the Options dialog box.

The color of the Ruby Overlay shows the areas of an image not masked. If you have a complex mask, the Ruby Overlay makes it easier to see what is masked and what is not.



When working with the mask channel, you can see how your mask fits on the image by turning on the ruby overlay. With the ruby overlay on, you can make sure the mask you are creating matches up with the image.

Working with the Mask Channel



Click the Mask Channel button in the Image Tools toolbar to display the mask channel. The Mask Channel contains a grayscale image of any mask you create with the Mask tools from the Main toolbar. You can work directly on the mask channel and edit the mask directly.

With the Mask Channel displayed, you can use any of the toolbar tools, plus most of the commands in the menus to create and manipulate a mask.

For example, you can paste images into the Mask Channel and use any of the Mask Transform tool options to manipulate the image.

When working with the Mask Channel, you cannot see the base image unless you click the Ruby Overlay button in the status toolbar to turn it on.

Whatever you draw or place into the Mask Channel will become a mask on the image. For example, if you were to fill the Mask Channel with a brick texture, the brick texture will be a brick texture mask on the image.

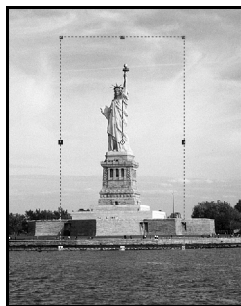
Saving and Loading Masks

Image lets you save masks and load them at a later time. You may want to save a mask if it is fairly complex; you can save time by using it later. The mask retains its original size and location. You can find both of these commands on the Mask menu.

Transforming a Masked Area



Using the Mask Transform tool, you can copy or move a mask or the mask and the image inside the mask. When you use the Mask Transform tool, you can click on the image to choose an entire masked area, or draw a bounding box with the Selector tool to select a portion of the masked area to transform. Image places a transform box around the masked area.



You can perform several operations using the Mask Transform tool, including:

- Moving a mask or a masked image.
- Rotating a mask or a masked image.
- Resizing a mask or a masked image.
- Flipping a mask or masked area.
- Copying a mask or a masked image.

When you have completed an operation, double-click the transform box (or image), or press **ENTER** to release the Mask Transform tool.



Tip

If you want to stop the transformation before it is completed, press **Esc**.

When you transform a masked image, it automatically changes into a floating object if the Allow Floating Objects option is on and Transform Mode is set to Move Image or Copy Image. See the chapter “Working with Objects” starting on page 61 for information about manipulation of floating objects.

Using the Mask Point Editing Tool



Image lets you edit an existing mask to change its shape point by point. You can edit points as line segments or Bézier curves, move existing points, add points, and remove points to redraw the mask any way you want.

To select multiple points for moving, draw a bounding box around the points. To move multiple points, click the left mouse button, then the right mouse button, and drag the points. To select multiple points for deleting, draw a bounding box around the points.

Loading and Saving Shapes

Image lets you load and save EPS shapes (paths) in AI (Adobe Illustrator) format using the Mask and Draw tools. For more information on loading and saving shapes, see the Image on-line help system. Search for Loading shapes and Saving shapes.

Undoing a Masking Action

The Undo command on the Mask menu is used to reverse or undo actions taken in creating or modifying masks. The Undo command varies according to the action previously taken. For example, if you used the Smart Mask tool, the Undo command reads "Undo Smart Mask." If you used the Invert Mask command in the Mask menu, the Undo command reads "Undo Invert Mask."



Tip

If a change cannot be reversed, the Undo command is unavailable.

Masking an Entire Image

The Mask All command on the Mask menu creates a mask around your entire image. This is a simple shortcut to mask off an image rather than doing it manually.

Removing a Mask

When you have finished editing a masked area, you can remove, or deselect, the mask using the Remove Mask command on the Mask menu. This lets you draw another mask to edit another portion of the image.

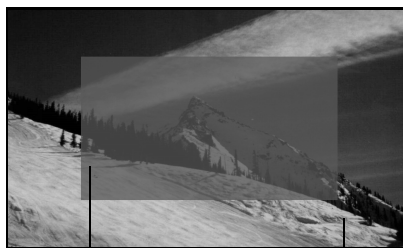
Removing a mask is not the same as hiding a mask.

Resizing a Mask

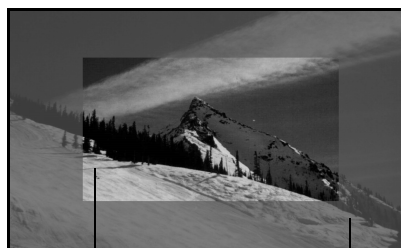
The Size Mask command on the Mask menu lets you resize a mask by changing the mask's width and height. You can choose the number of pixels by which you want to grow or shrink the mask. Image lets you change the Width and Height values independent of each other.

Inverting a Mask

After a mask has been drawn, you can invert it (reverse it) using the Invert Mask command on the Mask menu. Inverting a mask removes the mask from the area inside the border and masks the area outside the border. You can make various changes either to the masked or to the unmasked area. If you want the changes to apply to the unmasked area, invert the mask before making the changes.



Original masked area



Not masked

Not masked Masked area after inverting

Feathering a Mask

Images in masked areas often present sharp edges that, when moved or copied, easily identify them as added objects in an image. The Feather Mask command on the Mask menu lets you feather the edges of masks so that, when you move or copy the images, they blend smoothly into the surrounding base image.

You can choose the number of pixels to be used so that you control the amount of feathering. You also control the direction of the feathering: outside, center, or inside, and whether the edge should be hard, normal, or soft.

Hiding a Mask

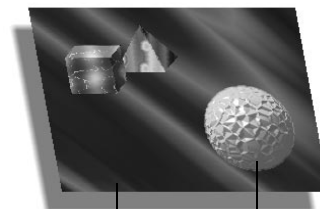
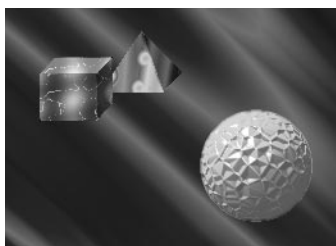
The Hide/Show Mask command on the Mask menu keeps all masks in place but hides or shows the mask borders. The mask border consists of a black and white animated line (red and green in grayscale images) denoting the edges of the mask. If the mask is blocking a detailed area of the image, you may want to hide it so you can better view any changes you make to the masked area.

Hiding a mask does not change any property or characteristic of the mask. A hidden mask can easily be shown on the image again.

Working with Objects

What Is an Object?

An object is an image that floats on the base image. For example, think of a base image as a pool and an object as a raft that floats on the pool. Usually an object is an image copied from another image file in Image or from another Windows application. An object can also be text that you type on the base image. An object is outlined using a black and cyan marquee (similar to that used to define masks).



Base image

Object

Objects can be manipulated in various ways to incorporate them into the base image. They include copying, adding, moving, and deleting the object from the base image. Any Image command that can be used to edit the base image can be used to edit an object, including drawing masks, retouching, and applying special effects.

Creating Objects

Objects can be created in four ways:

- By pasting onto an existing base image.
- By transforming a copy or moving a masked section on a base image.
- By using the Create Object from Mask command.
- By typing text onto an existing base image.

Creating an Object by Pasting

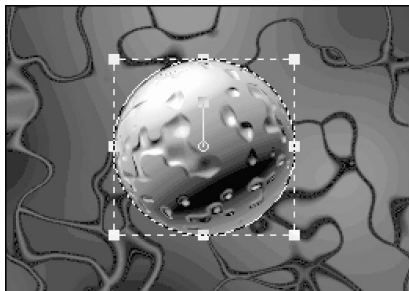
You can create an object in Image by pasting a copy of an image from the Windows Clipboard or the ClipboardBrowser. The image can be copied or cut from your current image, from a different Image | image, or from Windows applications with a compatible graphics format.



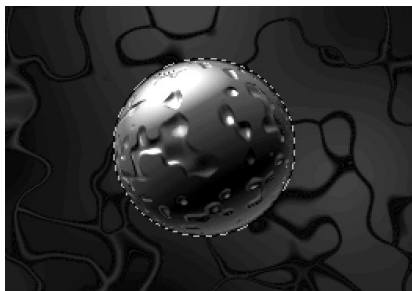
Note

You cannot create an object in Image by pasting text. Only images can be pasted as objects.

When you create an object by pasting, Image places a transformation box around the newly created object, letting you use any of the functions of the Mask Transform ribbon. See the section “Transforming a Masked Area” on page 55 for more information.



Double-clicking an object with a transform box around it or pressing Enter releases the object from the Transform tool and draws a black and cyan marquee around the object. This marquee defines the outer edges of the object.



Creating an Object by Transforming or Moving a Masked Area

You can create an object on a base image by masking an area of the image and either transforming or moving the masked area. You can also use the Create Object from Mask command on the Object menu to create an object from a masked area.

When you create an object by transforming or moving a masked area, Image places a transformation box around the newly created object, letting you use any of the options of the Mask Transform ribbon. See the section “Transforming a Masked Area” on page 55 for more information.

Double-clicking the object or pressing **ENTER** releases the object from the Transform tool and draws a black and cyan marquee around the object. The marquee defines the outer edges of the object.

Creating an Object by Typing Text

You can create an object on the base image by using the Image Text tool and typing text directly on the base image.



Tip

You cannot create an object in Image by pasting text from the Windows Clipboard. Text objects can be created only by typing.

Double-clicking the newly typed text changes the text into an object bound by a black and cyan marquee.

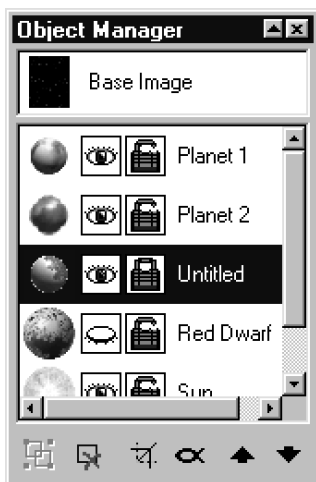
Saving an Image File with Objects

You can save files containing objects in two ways:

- Using PPF or PP5 file format (maintains floating objects and their properties in the file).
- Using other file formats (floating objects are not maintained; they are combined with the base image when saved).

Object Manager

All objects that have been created on a base image are listed in an Object List window that floats on the image window. You use the Object Manager command on the View menu to show the Object Manager.



The Object Manager contains small image buttons for selecting or deselecting each object. An object that is selected appears with a highlighted background.

You can use the Object Manager to hide, group, delete and move objects forward or backward (in layers) on top of the base image. You can also crop objects and edit their alpha channels.

Selecting and Deselecting Objects

To select an object floating on the base image, you can click the object in the Object Manager window. You can also click the object on the base image. Selected objects show a highlighted background in the Object Manager regardless of the selection method used.

To deselect an object, you can click the highlighted object in the Object Manager window.

To select multiple objects, press **SHIFT** and click the objects in the Object Manager window.

Showing and Hiding Objects

Image lets you temporarily hide an object from floating over the base image. Hidden objects do not appear on the base image. They cannot be selected for additional operations within the Object Manager window while they are hidden.



Click the Object Shown button in the Object Manager window to hide the object.



Click the Object Hidden button in the Object Manager window to show the object.

Locking and Unlocking Objects

Image lets you lock and unlock an object on the base image. Locking an object prevents any inadvertent editing of the object. Locked objects cannot be moved, deleted, or cut.



Click the Object Unlocked button in the Object Manager window to lock an object. You can also use the Lock command on the Arrange submenu of the Object menu.



Click the Object Locked button in the Object Manager window to unlock an object. You can also use the Unlock command on the Arrange submenu of the Object menu.

Grouping and Ungrouping Objects

Image lets you group two or more objects to maintain their relative order. When you group objects, they can be manipulated as if they were a single object. Grouped objects can be ungrouped.



Note

Do not confuse grouping objects with combining objects. When you combine objects, they become a single, inseparable object.



To group multiple objects, press **SHIFT** and click the objects in the Object Manager window you want to group, then click the Group button. You can also use the Group command on the Arrange submenu of the Object menu.

To ungroup multiple objects, click the group of objects, and click the Group button. You can also use the Ungroup command on the Arrange submenu of the Object menu.

Deleting Objects

You can use the Object Manager to delete a selected object or a group of objects.



To delete an object, click the object you want to delete, and click the Delete button. You can also use the Delete Objects command on the Object menu.

Cropping Objects

Image lets you crop a selected object using the Object Manager.



To crop an object, select the object you want to crop, then click the Crop button in the Object Manager window, or use the Crop command on the Object menu. Click where you want to start the cropping rectangle. Press the right mouse button to move the rectangle while you are drawing it. When the rectangle is the size and location you want, release the left mouse button to crop the object.

Editing an Object's Alpha Channel

The alpha channel contains a full color image of any object on the base image. You can work directly on the alpha channel and edit the object directly.

With the alpha channel displayed, you can use any of the toolbar tools, plus most of the commands on the menus to create and manipulate an object.

Whatever you draw or place into the alpha channel will become a mask on the object. For example, if you were to fill the alpha channel with a brick texture, the brick texture will be a brick texture cutout on the object.



To edit an object's alpha channel, click the Edit Object Alpha button on the Object Manager window, or use the Edit Object Alpha command on the Object menu.

Changing the Object Order

The objects in the Object Manager are shown in the reverse order in which they were created. The newest objects are on top of the list and the oldest objects are at the bottom of the list. Image lets you change the order of the objects so overlapping objects can be properly layered to create the image you want.

Objects at the top of the list of the Object Manager window are in front; objects at the bottom of the list are in back. It may be necessary to use the scroll bar to see all the objects on the base image.



Tip

To move an object to the front or back layer, press **SHIFT** while clicking the Bring Forward or Send Backward buttons.

There are four methods for changing the order of objects:



- Using the Bring Forward and Send Backward buttons on the Object Manager window.
- Using the Order command on the Object menu.
- Using the mouse to drag the object(s) up and down the Object Manager window.
- Using the **CTRL+SHIFT+ARROW** keys to move the object(s) up and down the Object Manager window.

Moving an Object

Image lets you move a floating object on a base image with two methods:

- Using the mouse.
- Using **SHIFT+ARROW** keys.

Transforming Objects

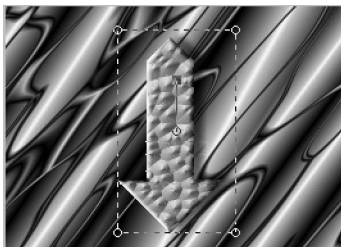
Image lets you transform objects using the Selector Transform tool options. These options let you change the size and shape of the selected object by dragging the handles on the transform box or by dragging the handles on the rotation tool.

You can choose a transformation mode from the Selector Transform tool ribbon. There are four transformation modes:

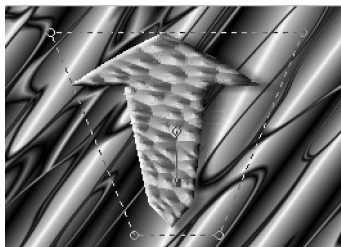
- Scale
- Skew
- Perspective
- Distort

In addition, you can rotate and flip the selected object.

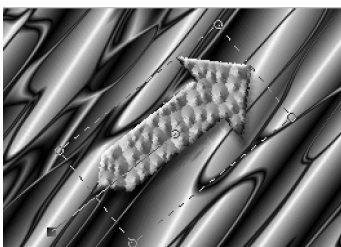
The following are examples of a transformed object.



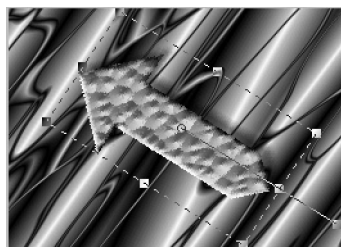
Flip



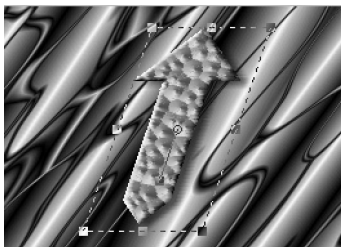
Perspective



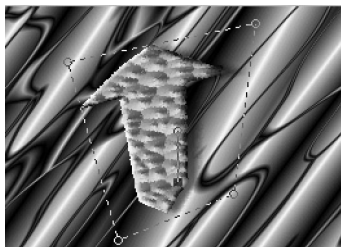
Rotate



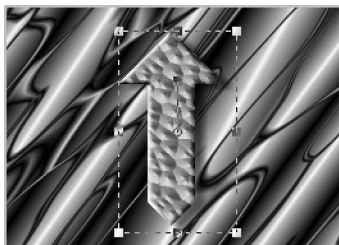
Scale



Skew



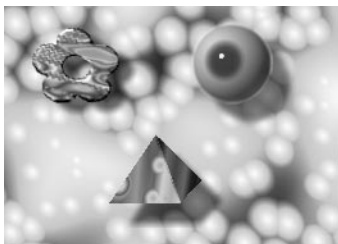
Distort



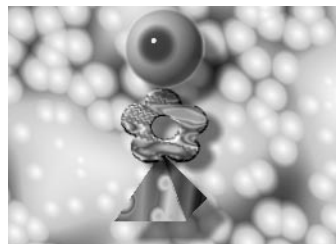
Original

Aligning Objects

Image lets you easily align objects on a base image using the Align command on the Object menu. You can align objects by left, right, middle, center, top, or bottom. You can position the aligned objects on the left of the base image, on its right, in the middle, centered on the base image, at the top of the base image, or at the bottom of the base image.



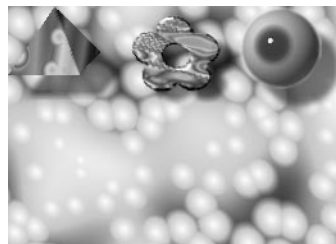
Original



Align center



Align left



Align top

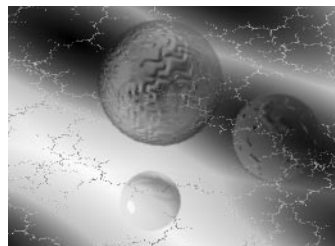
Changing Object Transparency and Merge Modes

You can change an object's transparency and use merge modes to control color relationships between objects using the options in the Selector tool ribbon.

The Transparency area on the ribbon lets you set the degree to which you can see through an object to the base image below. You set the value from 0 to 99. A setting of 0 means nothing shows through, and a setting of 99 means almost everything shows through.



0% transparency



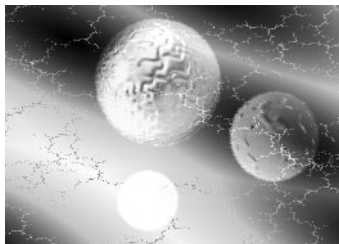
50% transparency

The Merge Mode box on the ribbon lets you choose options that define the way colors in an object relate to the colors in the base image and any overlapping objects. Merge modes always operate within the boundaries of other options, such as transparency. Merge modes include:

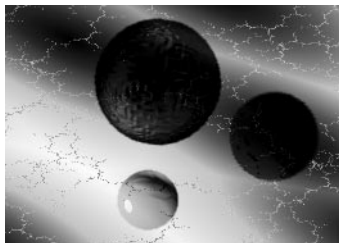
- Normal to replace the existing color



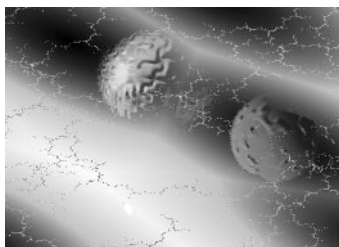
- Additive to mix colors according to the additive (RGB) color model



- Subtractive to mix colors according to the subtractive (CMYK) color model



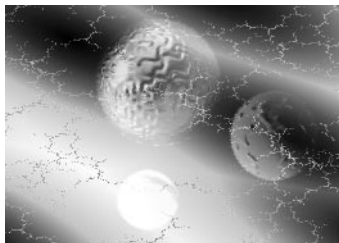
- If Lighter to add color if the object color is lighter than the existing color



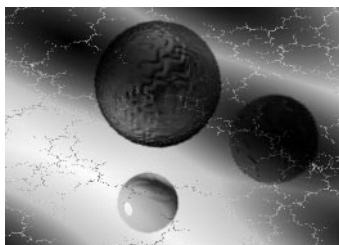
- If Darker to add color if the object color is darker than the existing color



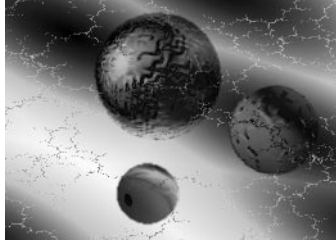
- Filter to combine Additive and Multiply to create a filtered effect



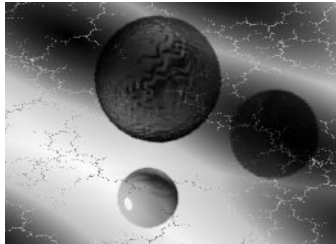
- Multiply to multiply the value of the image and the object colors



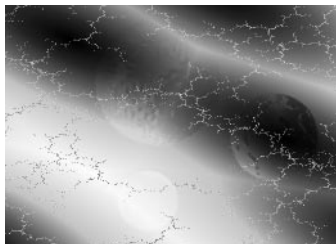
- Difference to subtract the value of the object from the value of the existing color to obtain a new color



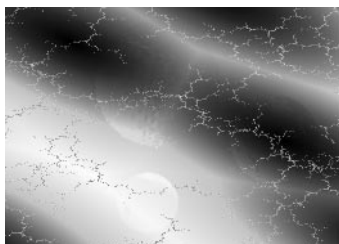
- Texturize to use the object as a texture surface on which the image is painted



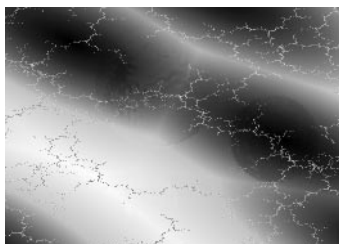
- Color to replace the hue and saturation of an image with the hue and saturation of the object



- Hue to replace the hue of the image color with the hue of the object



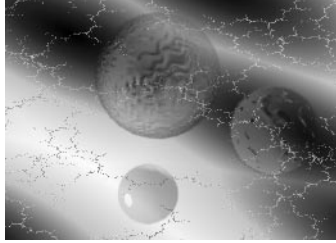
- Saturation to replace the saturation of the image color with the saturation of the object



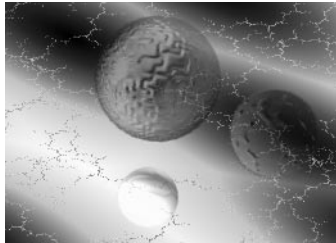
- Luminance to replace the lightness value of the image color with the lightness value of the object



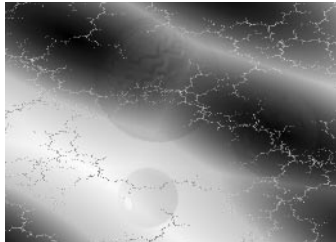
- Red to replace the red component of the image color with the red component of the object color



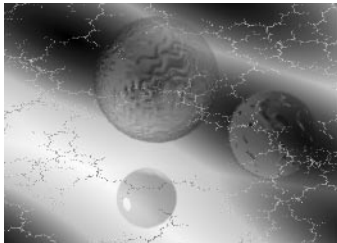
- Green to replace the green component of the image color with the green component of the object color



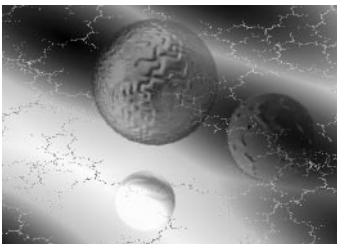
- Blue to replace the blue component of the image color with the blue component of the object color



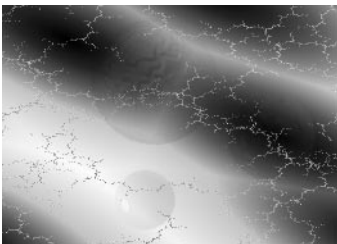
- Cyan to replace the cyan component of the image color with the cyan component of the object (image must be CMYK)



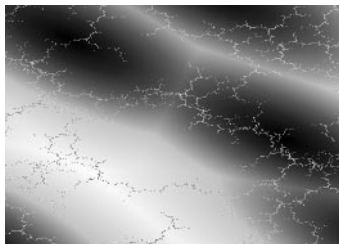
- Magenta to replace the magenta component of the image color with the magenta component of the object (image must be CMYK)



- Yellow to replace the yellow component of the image color with the yellow component of the object color (image must be CMYK)



- Black to replace the black component of the image color with the black component of the object color (image must be CMYK)

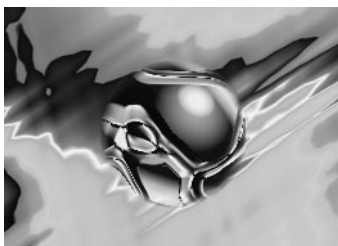


Hiding Object Marquees

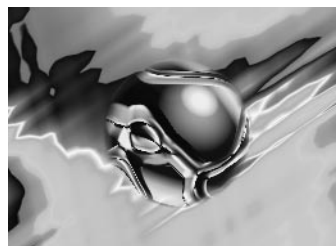
Image lets you hide the marquees for objects floating on a base image by using the Hide Marquee command on the Object menu. Hiding a marquee does not change any property or characteristic of the object. A hidden marquee can easily be shown on the base image again using the Show Marquee command on the Object menu.

Feathering Objects

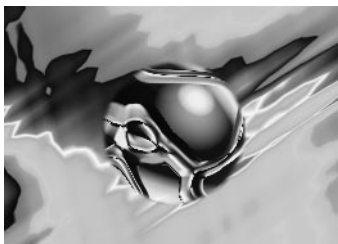
Objects often present sharp edges that easily identify them as added objects in an image. Image lets you feather the edges of floating objects so that they blend smoothly into the surrounding base image using the Feather Object command on the Object menu. You can choose the number of pixels to be used so that you control the amount of feathering. You also control whether the edge should be hard, normal, or soft.



Hard



Normal



Soft

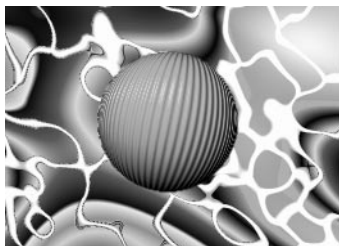
Merging Objects with Masks

The Merge Mask command on the Object menu is a powerful feature that makes a merged object take on the characteristics of the mask. For example, if a gradient is on the mask channel and you merge an object with the mask, the object will gradually blend, as does the gradient.

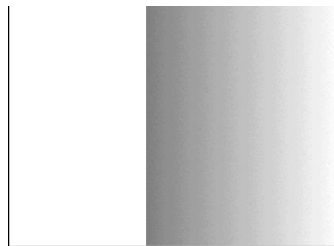
For more information on the mask channel, see the section “Working with the Mask Channel” on page 54.

After you merge an object with a mask, you can still select, move, and manipulate the merged object, which retains the properties of the mask.

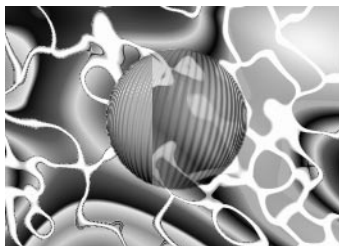
To use this command, you must choose both the Allow Floating Objects and the Allow Masks on Floating Objects options in the Preferences dialog box.



Object on image



Gradient mask on mask channel



Mask merged with object

Combining Objects

The Combine command on the Object menu opens a submenu that lets you choose one of three commands.

- Objects Together
- All Objects With Base
- Selected Objects With Base

The Objects Together command combines all selected objects with each other, but not with the base image. You can select, move, and manipulate the combined objects together on top of the base image.

The All Objects With Base command combines all objects on the image with the base image. The Selected Objects With Base command combines only selected objects with the base image. When floating objects are combined with the base image, the objects become a permanent part of the image and lose their status as separate objects. You can no longer select, move, or manipulate objects combined with the base image. You can undo a combined object immediately after a combine with the Undo command, or use the Command Center to undo a combine.

Changing the Position of an Object

You can change the position of an object precisely with the Position command on the Object menu. You may want to move an object to an exact location on an image. You can do so by specifying the X and Y position of the upper left corner of the object in the Object Position dialog box.

Rotating an Object

Occasionally you have an object you want to rotate or turn upside down (flip). Image lets you easily rotate an object using the Rotate command on the Object menu. You can rotate the object clockwise or counterclockwise by 90 degrees or you can rotate it by 180 degrees. You also can rotate an object by an arbitrary amount and direction.

Resizing an Object

Use the Size command on the Object menu to resize and scale an object to suit your needs without deleting any portion of the object. You can increase or decrease the size of an object by specifying the height, width, or the percentage you want to change the object.

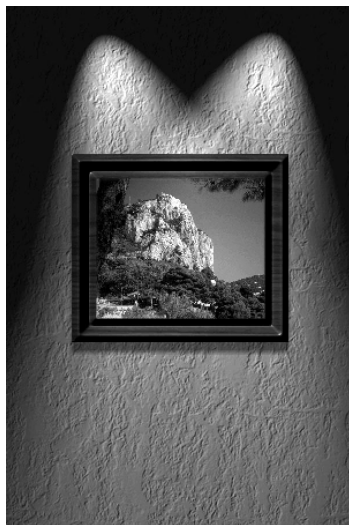
Image, by default, maintains the aspect ratio for an image. As you change either the width or the height, the size of the other changes proportionally to prevent distortions to the aspect ratio.

The Use SmartSizing option specifies that Image is to maintain the detail of an object when you change the size of the object. SmartSizing requires more image processing time, and may blur the object slightly.

Enhancing Images

Creating Lighting Effects

Image's Light Studio lets you apply special lighting effects to an RGB or grayscale image. You can choose from four different light sources (Directional, Flood, Spot, and Omni), and three different light modes (Normal, Embossed, and Special Effects).



You can add numerous lights to an image and assign different properties to each light for a myriad of lighting effects. Use your mouse to position lights anywhere in the preview area for the right effect. You can delete lights, and even duplicate lights and their associated values. You can also add bumping to an image to produce three dimensional-looking images.

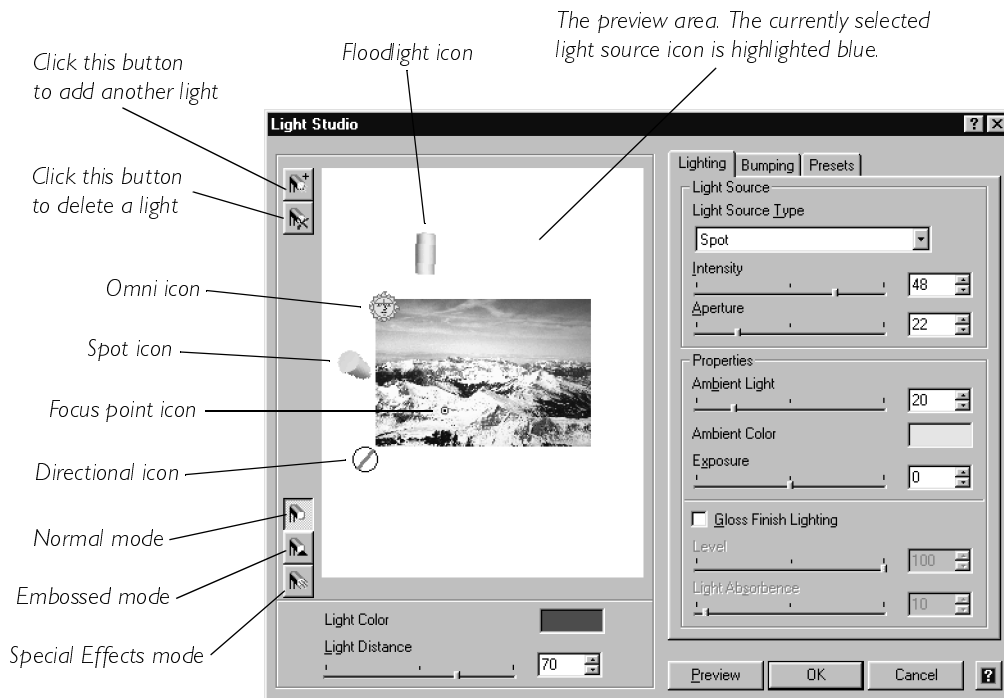
You can choose from one of Image's predefined light styles. You can also save your own styles for use in other images. Image remembers the last light style used, and defaults to this style when you open the Light Studio dialog box.

The Light Studio Dialog Box

To open the Light Studio, click Light Studio on the Effects menu.

This dialog box has three tabs: Lighting, Bumping, and Presets. The preview area remains constant regardless of the tab in which you are working.

The Lighting tab lets you apply special lighting effects to an RGB or grayscale image. The Bumping tab lets you create bump maps which add depth to a flat image. The Presets tab lets you choose one of Image's predefined light styles, or save your own style for use in other images.



Each of the four light source types (Directional, Flood, Spot and Omni) have a corresponding icon that displays in the preview area. The currently selected light source icon is highlighted blue. You can use the cursor to move these light source icons anywhere in the preview area.



Note

See the section “Choosing a Light Source” on page 88 for more information about light source types.

The Flood and Spot light sources have an associated focus point (a red and black bullseye) you can move in the preview area with your cursor. The focus point is where the light source is pointing.

Preview Area Shortcuts

- To duplicate a light and its values, **CTRL**-drag the light in the preview area.
- To move a light and its focus point together, **SHIFT**-drag the light in the preview area.
- To duplicate a light and its values, and move the light and its focus point, **CTRL+SHIFT**-drag the light in the preview area.
- To move the selected light's focus point, right-click in the preview area to where you want to move the focus point.

Choosing a Light Source

You can choose from four different light sources.

Directional

Directional shines light like the sun. The source is so far away, the light appears to have no single source; it only has a direction from where the light is shining. It always points toward the center of the image.



Flood

Flood shines just like a floodlight. You can focus the light on a specific point, and choose the light's position. The closer you bring the light to an image's surface, the tighter the focal point of the light.



Spot

Spot works like a spotlight. There is a constant stream of light across the ellipse, but the light diffuses at the edges. You can change the focal point of the spotlight.



Omni

Omni shines light in all directions, like a lightbulb. There is no focal point.



Note

The Directional light source moves light rays in the same direction. The Flood, Spot, and Omni lights shine rays in all directions.

Choosing a Light Mode

You can choose from three different light modes.

Normal



This mode works like everyday lights. Increasing the intensity of the light (positive values) adds overall brightness to an image. Decreasing the intensity of the light (negative values) sucks light out of an image, making it darker. For example, if your light is blue and you decrease the intensity, Light Studio pulls blues out of the image. If you increase the intensity, the image appears to have more blues.



Embossed



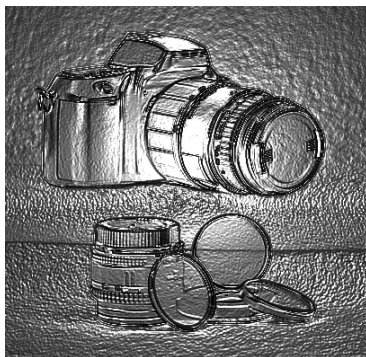
This mode uses lighting effects to emboss the image. You must select a bump map source (Gray, Mask, Red, Green, Blue, Hue, Saturation, or Luminance) if you use this mode. Decreasing the intensity of the light (negative values) creates a negative emboss.



Special Effects



This mode creates special lighting effects. You must select a bump map source (Gray, Mask, Red, Green, Blue, Hue, Saturation, or Luminance) if you use this mode. For example, if you decrease the intensity of light (negative values) with a gloss finish in this mode, Light Studio applies a “liquid metal” or “shrink wrap” effect.



Adjusting a Light's Values

You can adjust a light source's values to customize lighting effects:

Intensity

- A light's intensity is similar to a dimmer switch on a household light. As you increase intensity, you increase brightness. As you decrease intensity, you turn down the light source. Light Studio also lets you add negative intensity (negative values), decreasing light until an image is black (-100).

Aperture

- The aperture sets the size of the opening through which the light shines. You can only change the aperture of Floods and Spots. The smaller the value, the smaller the opening through which light can escape, and the more focused the light.

Ambient Light

- This is the surrounding, natural light in an image, such as sunlight or light from a fluorescent light. A value of 0 removes the ambient light source.

Ambient Color

- Click the color swatch to change the color of the ambient light. Image opens the Color Picker dialog box.

Exposure

- Exposure works exactly like in photography. Overexposing, or increasing the value, increases the light, creating a washed-out image. Underexposing, or decreasing the value, darkens the light.

Gloss Finish Lighting

- Check this box if you want a gloss finish on your image, just like the surface of photographic paper. If you leave this box unchecked, the image has a matte finish.

Level

- You can only adjust this value if you have checked the Gloss Finish Lighting box. This determines how shiny the surface of an image is.

Light Absorbance

- You can only adjust this value if you have checked the Gloss Finish Lighting box. Increase the value to make the surface of the image absorb more light. The more light the surface absorbs, the less shiny the surface is.

Light Color

- Click the color swatch to change the color of the selected light. Image opens the Color Picker dialog box.

Light Distance

- You can adjust how far the selected light is from the image. Decreasing the value brings the light closer to the image. Increasing the value moves the light further away from the image.

To use the Light Studio

- 1 On the Effects menu, click Light Studio.
- 2 In the Light Source Type box, select a source.
- 3 Choose the light mode (Normal, Embossed, Special Effects).
- 4 Move the selected light in the preview area until it is in the proper position.
- 5 If you are using a Flood or Spot light, you can also move the light's focus point in the preview area.
- 6 Set the light's values.
- 7 Click Preview to test the light on the image.



- 8 If the test is acceptable, click OK.

To add a light



- Click the Add Light button to the left of the preview area in the Light Studio dialog box.

To delete a light



- Click the Delete Light button to the left of the preview area in the Light Studio dialog box.

To save a light style

- 1 On the Effects menu, click Light Studio.
- 2 Create the light style.



Note

See the section “To use the Light Studio” on page 93 for more information about creating light styles.

- 3 Click the Presets tab.
- 4 Click Save.
- 5 In the Enter Name box, type a style name.
- 6 Click OK.
- 7 Click OK in the Light Studio dialog box.

To delete a light style

- 1** On the Effects menu, click Light Studio.
- 2** Click the Presets tab.
- 3** Highlight the style you want to delete.
- 4** Click Delete.

Bumping an Image

Bumping, or bump mapping, is a means of adding depth to a flat image. In essence, you are turning a two-dimensional image into a three-dimensional image.

You choose which information in an image you want “bumped.” The first image below is not bumped. The second image has been bumped.



Think of bumping as adding hills to an image. Light Studio lets you control the height of the bumps. As you increase the value of the bump, the hills turn into mountains. You can invert the bump map to turn “mountains” into “valleys.”

You can also choose the color that is reflected off the highlights of the bump for special lighting effects. You select the reflective color with the Color Picker.



Note

Bump maps are created by using a range of 256 levels of gray.

Choosing a Bump Map Source

You can choose from eight bump map sources in Light Studio. Each source affects the image in a different way:

Gray

- All the information in the image is used to create the bump map.

Mask

- You can choose to use the information inside the mask channel to create the bump map. For example, if you paste an object into the mask channel of an image, and then bump the mask channel, you get an image similar to the one below.



None

- No bump map is created.

Red, Green, Blue, Hue, Saturation, Luminance

- Only the selected information (for example, Red, Hue, etc.) in the image is used to create the bump map.

Choosing an External Bump Map Source

You can add a secondary bump map to an image to increase the three-dimensional look. This is similar to a canvas on which an artist paints. The canvas has a texture which you can see through the painting.

You can use one of Image's default textures, or you can add your own texture.

You can tile the texture, although if the texture is not tileable you will see seams. You can also center the texture on the image or stretch the texture on the image. If you stretch the texture, Light Studio shrinks and grows the texture to fit the entire image. This may cause the texture to distort.

You can also blend the external bump map source with the image bump map source. A value of 0 applies only your image bump map source. A value of 100 applies only your external bump map source.

To bump an image using a default bump map

- 1 On the Effects menu, click Light Studio.
- 2 Click the Bumping tab.
- 3 In the Bump Map Source box, select a source.
- 4 Set the bump map's values.
- 5 Click Preview to test the bump map on the image.
- 6 If the test is acceptable, click OK.

To bump an image using an external bump map

- 1 On the Effects menu, click Light Studio.
- 2 Click the Bumping tab.
- 3 In the Bump Map Source box, select a source.
- 4 Click Use External Bump Map Source.
- 5 Click the Bump Map Source button.
- 6 Select a texture.
- 7 Choose to tile, center, or stretch the texture on the image.
- 8 Set the bump map's values.
- 9 Click Preview to test the bump map on the image.
- 10 If the test is acceptable, click OK.



To add a texture to be used as an external bump map

- 1 On the Effects menu, click Light Studio.
- 2 Click the Bumping tab.
- 3 Click Use External Bump Map Source.
- 4 Click the Bump Map Source button.
- 5 Click Add. The Open dialog box opens.
- 6 Select the texture you want to add and click OK.
- 7 Enter a name for the new texture and click OK.



To delete a texture used as an external bump map

- 1 On the Effects menu, click Light Studio.
- 2 Click the Bumping tab.
- 3 Click Use External Bump Map Source.
- 4 Click the Bump Map Source button.
- 5 Select the texture you want to delete.
- 6 Click Delete.



Creating Lens Flare Effects

The Lens Flare command on the Effects menu produces refraction patterns that simulate light reflections in an image—lens flares, in other words. Since this effect simulates light striking a camera lens, the resulting flare is refracted into a series of smaller circles moving away from the flare point.

You can load one of Image's predefined lens flares, or use the Lens Flare dialog box controls to create your own lens flare. You can also save any flares you create for use in other images.

With this command, you can create numerous effects, from a traditional lens flare to sunlight glinting off a building to producing nebulas and galaxies in outer space.

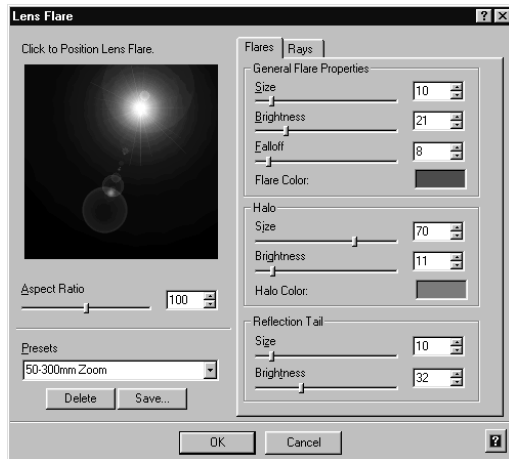


Note

You can create lens flares on RGB and CMYK images only.

The Lens Flare Dialog Box

The Lens Flare dialog box lets you apply lens flare lighting effects to an RGB or CMYK image. There are two tabs in the dialog box. The Flare tab lets you change the values of the flare. The Rays tab lets you change the values of any rays emanating from the flare.



Set the center of the flare by clicking in the preview area. Image remembers the last lens flare used, and defaults to this style when you open the Lens Flare dialog box.

Adjusting the Flare's Values

You can adjust a flare's values to customize lens flares:

Aspect Ratio

- The aspect ratio is the ratio of one dimension to another. In this case, the ratio is between the width and the height of the flare. A value from 0-99 decreases the width of the flare while increasing the height. A value from 101-200 increases the width of the flare while decreasing the height. A value of 100 sets the flare's width and height equally.

General Flare Properties

Size

- Increase the value to make the flare larger. Regardless of the size of the flare, the reflection tail (the series of smaller circles moving away from the flare point) remains the same size and in the same position.

Brightness

- Increase the value to brighten the flare.

Falloff

- Falloff is a decline in the quantity or quality of light intensity. This control lets you determine the dispersion of light from the flare throughout the image. Increase the value to constrain the light to the center of the flare.

Flare Color

- Click the Color Swatch to change the color of the flare. Image opens the Color Picker dialog box.

Halo

Size

- Increase the value to make the flare's halo larger. Regardless of the size of the halo, the flare remains the same size and in the same position.

Brightness

- Increase the value to brighten the flare's halo.

Halo Color

- Click the Color Swatch to change the color of the halo. Image opens the Color Picker dialog box.

Reflection Tail

The reflection tail is the series of smaller circles moving away from the flare point.

Size

- Increase the value to make the reflection tail larger. Regardless of the size of the reflection tail, the flare remains the same size and in the same position.

Brightness

- Increase the value to brighten the reflection tail.

Adjusting the Ray's Values

You can adjust a ray's values to customize lens flares:

Rays

Count

- Increase the value to add to the number of rays emanating from the flare.

Brightness

- Increase the value to brighten the flare's rays.

Rotation

- Lets you rotate the rays through a full 360 degrees.

Streaks

- Increase the value to add random streaks of white light that emanate from the flare.

Sharpness

- Increase the value to sharpen the rays. The lower the value, the more diffused the ray's light.

Ray Color

- Click the Color Swatch to change the color of the rays. Image opens the Color Picker dialog box.

RNoise

- RNoise is "radial" noise, or noise that is added to the rotation of the rays. Increase the value to add random "sunlight"-type streak effects.

SNoise

- SNoise is "size" noise, or noise that is added to the size of the rays. Increase the value to add this noise to the rays.

Anamorphic Light

Anamorphic light is intentional distortion created by unequal magnification along perpendicular axes.

Brightness

- Increase the value to brighten the distortion emanating from the center of the flare to either side.

Rotation

- You can rotate the distortion through a full 360 degrees.

Anamorphic Color

- Click the Color Swatch to change the color of the rays. Image opens the Color Picker dialog box.

To create a lens flare in an image

- 1 On the Effects menu, click Lens Flare.
- 2 Set the center of the flare by clicking in the preview area.
- 3 Drag the Aspect Ratio slider to squeeze or stretch the flare.
- 4 Click the Flares tab.
- 5 Adjust the flare's values using the General Flare Properties, Halo, and Reflection Tail controls.
- 6 Click the Rays tab.
- 7 Adjust the ray's values using the Rays and Anamorphic Light controls.
- 8 Click OK.

To save a custom lens flare

- 1 On the Effects menu, click Lens Flare.
- 2 Create the lens flare.



Note

See the section "To create a lens flare in an image" above for more information about creating lens flares.

- 3 In the Presets box, type a name for the flare.
- 4 Click Save.

To add a predefined lens flare to an image

- 1 On the Effects menu, click Lens Flare.
- 2 In the Presets box, select a predefined lens flare.
- 3 Set the center of the flare by clicking in the preview area.
- 4 Click the Flare tab.
- 5 Adjust the flare's values using the General Flare Properties, Halo, and Reflection Tail controls, if necessary.
- 6 Click the Rays tab.
- 7 Adjust the ray's values using the Rays and Anamorphic Light controls, if necessary.
- 8 Click OK.



Note

Lens flares you create are added to the Presets box. Load your custom lens flares the same way you load predefined lens flares.

Adjusting the Depth of Field in an Image

The Camera Aperture command on the Effects menu lets you control the depth of field in an image, much like the aperture on a camera lets a photographer control the depth of field in a given scene.

Depth of field is the area from near to far of sharpness within a given scene in a photograph. By changing the aperture size (the lens opening through which light enters the camera), the sharpness of the image is affected with regard to the different depths that exist in a photograph.

As the aperture is stopped down (f-stops) and the hole becomes smaller, objects in the scene that are farther away from the camera become sharper. Likewise, the larger the aperture, the fewer those same objects in the distance are in focus.

Therefore, a tree that is behind a person's head in a photograph will become sharper as the aperture number increases in size and the hole becomes smaller (for example, $f/22$). As the aperture number decreases in size and the hole becomes larger (for example, $f/8$), the tree that is behind the person's head becomes blurrier. Image lets you stop down from an $f/1$ (largest) to an $f/64$ (smallest) aperture.

As the aperture hole gets smaller, less light enters the camera, thus darkening the image. This is technically referred to as light falloff. Image lets you control the amount of light falloff, changing the brightness within a given scene.



Tip

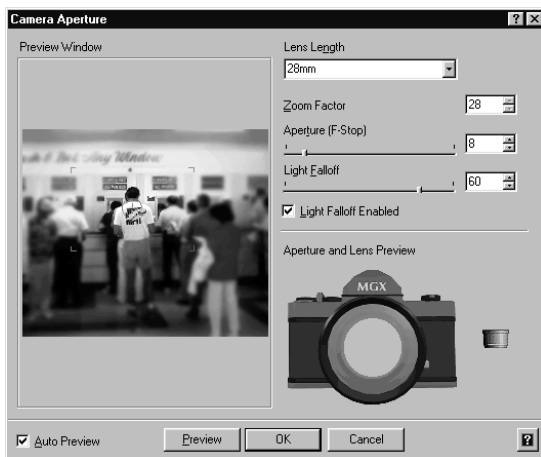
You can mask off the particular area you want to remain sharp in an image, then invert the mask before using the Camera Aperture command.

The image below on the left is the original image. The second image has had its depth of field changed. The focus is on the man wearing the white T-shirt and shorts in the middle of the photograph. Notice how the blur emanates outwards from this man in concentric circles.



The Camera Aperture Dialog Box

The Camera Aperture dialog box lets you control the depth of field, or sharpness, in an image. This command works like the aperture on a camera, letting you stop down from an $f/1$ aperture to an $f/64$ aperture. You can also control the amount of light entering the camera through the aperture.



Click in the preview area to display the View Finder. Center the View Finder's circle and crosshairs from where you want the depth of field blur to emanate. Select the Auto Preview option to view the image in real time. Any changes you make automatically display.

The Aperture and Lens Preview area displays different aperture openings and lenses according to the settings you choose.

To change the depth of field in an image

- 1 On the Effects menu, click Camera Aperture.

- 2** Click in the Preview Window and position the View Finder from where you want the blur to emanate. The area within the circle remains sharp.
- 3** In the Lens Length box, select the length of your lens. Each lens type has a default zoom factor and aperture size.
- 4** In the Zoom Factor box, enter a new zoom factor, if necessary.
- 5** Drag the Aperture slider to change the size of the aperture. The higher the value, the smaller the aperture hole, and the more the image becomes sharp.
- 6** Click the Light Falloff Enabled option if you want to control the amount of light entering the aperture.
- 7** Drag the Light Falloff slider to change the amount of light entering the aperture. A value of 0 produces no light falloff. A value of 100 produces maximum light falloff, decreasing the brightness of the image.
- 8** Click Preview to view your changes to the image.
- 9** Click OK to apply the changes.

Creating Bevels on Images

The Bevel Factory command on the Effects menu applies three-dimensional bevel effects to an image, a portion of an image, or even text. You can create buttons for use on Internet pages to elegant picture frames. You can either use the Bevel Factory's light controller, or you can use the Light Studio dialog box for greater control of the lighting.

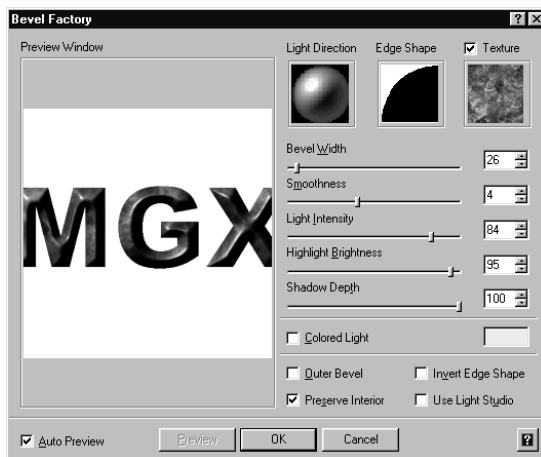


MGX

If a portion of your image is masked off, the Bevel Factory applies the bevel within the masked area. Likewise, if you have selected or created an object on your image, the Bevel Factory applies the bevel to the object. Otherwise, the Bevel Factory assumes you want to apply the bevel effect to the whole image.

The Bevel Factory Dialog Box

The Bevel Factory dialog box gives you complete control over the type of bevel you want to create.



If the entire image does not fit in the Preview Window, click and drag the image in the preview area so you can see your changes. Select the Auto Preview option to view the image in real time. Any changes you make automatically display.

In addition to changing the light's angle on the bevel's surface and choosing different bevel edges, you can also apply a texture to the bevel from one of Image's predefined textures. Any textures you create and add using the Copy To command on the Edit menu also display when you click the Texture button.

Adjusting a Bevel's Values

You can adjust a bevel's values to customize a bevel:

Light Direction

- Change the angle of the light by dragging the cursor over this area. The sphere shows all surface angles and how the light illuminates them.

Edge Shape

- Click this button to select a shape for the bevel edges. The preview shows a cross-section of the bevel.

Texture

- Check the Texture option to apply a texture to the bevel. Click the Texture button to choose from a list of predefined textures. Any textures you create and add using the Copy To command on the Edit menu also display when you click this button.

Bevel Width

- Increase the value to widen the bevel in relation to the image, the masked area, or the selected object.

Smoothness

- This slider lets you control the roundness of the bevel. Lowering the value increases the sharpness of the ridges.

Light Intensity

- A light's intensity is similar to a dimmer switch on a household light. As you increase intensity, you increase brightness. As you decrease intensity, you turn down the light source.

Highlight Brightness

- This slider lets you control the amount of highlights, or specularly.

Shadow Depth

- This slider lets you control how dark the shadows are. Decreasing the value darkens the shadows.

Colored Light

- Select this option to use a light color other than white. Then click the color swatch to change the color of the selected light. Image opens the Color Picker dialog box.

Outer Bevel

- This option only works if you are creating a bevel on a masked area. Select this option to create a bevel outside the masked area on the image.

Preserve Interior

- Select this option to preserve that portion of the image inside of the bevel. If you deselect this option, the Bevel Factory applies the current lighting presets to the interior. In addition, if you deselect this option and choose a texture for the bevel, the texture fills the interior.

Invert Edge Shape

- Select this option to invert the shape of the bevel edge. The Edge Shape preview at the top of the dialog box shows a cross-section of the bevel.

Use Light Studio

- This option lets you use the Light Studio dialog box for greater control of the lighting of the bevel. If you select this option, when you click OK in this dialog box, Image opens the Light Studio dialog box. Light Studio keeps the bevel you applied, but it ignores the lighting you applied in the Bevel Factory.

To create a bevel on an image

- 1** Mask off that portion of the image you want to bevel, or select the object to which you want to apply a bevel.

If you want to apply a bevel to the entire image, continue with the next step.

- 2** On the Effects menu, click Bevel Factory.
- 3** Click the Edge Shape button and select a shape for the bevel edges. The preview shows a cross-section of the bevel.
- 4** Drag the Bevel Width slider to increase or decrease the width of the bevel.
- 5** Change the angle of the light by dragging the cursor over the Light Direction area.
- 6** Click Texture if you want to apply a texture to the bevel.
- 7** Click the Texture button and select the texture you want to apply.
- 8** Click Colored Light if you want to choose a color for the light.
- 9** Click the color swatch to change the color of the selected light. Image opens the Color Picker dialog box.
- 10** Adjust the bevel's values, if necessary.
- 11** Click OK.



Note

You can either use the Bevel Factory's light controller, or you can use the Light Studio dialog box for greater control of the lighting. If you select the Light Studio option, when you click OK in the Bevel Factory dialog box, Image opens the Light Studio dialog box. Light Studio keeps the bevel you applied, but it ignores the lighting you applied in the Bevel Factory.

Using the EffectsBrowser

You can modify images with special effects that change images in many different ways. For example, the Watercolor effect transforms an image into the likeness of a watercolor painting. The Twirl effect makes an image appear “swirled” outward from the center of the image.

You apply effects using the EffectsBrowser dialog box. To open this dialog box, click EffectsBrowser on the Effects menu.

The EffectsBrowser lets you choose the effects and effects options you want and preview them before applying them to an image.

The effects apply only to the area inside or outside masked areas, as specified by the EffectsBrowser. If there are no masked areas in the image, the effects apply to the entire image.

Combining the supplied effects and the options available with each effect, you have unlimited techniques you can use to create the special effect you want.

To create a cool effect, apply an effect in the EffectsBrowser, then undo the effect. Use the Eraser tool brush style to erase on the image in the effect you chose in the EffectsBrowser.

The EffectsBrowser Dialog Box

The EffectsBrowser dialog box lets you choose effects, select effects options, preview effects on selected portions of an image, and apply the effects.

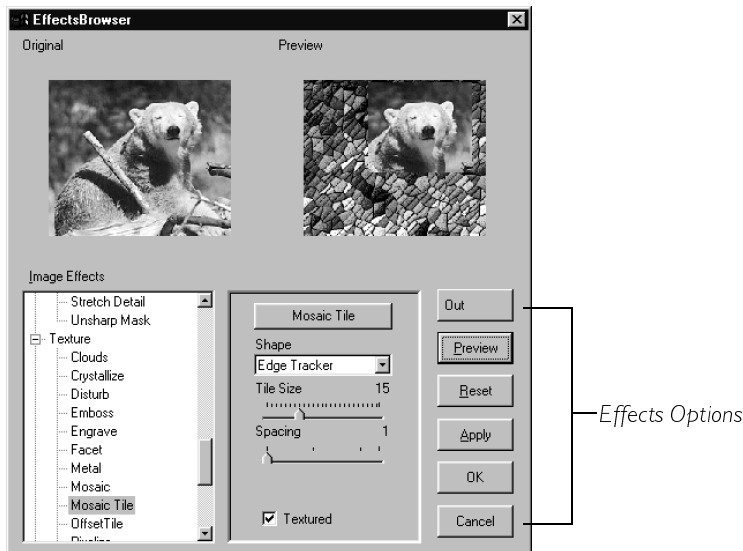


Image Effects

The bottom left side of the EffectsBrowser contains the Image Effects list, a scrollable choice of available image effects. To make the list easier to use, the effects are grouped into the following categories:

Artistic

- Used to simulate an artist's tools.

Color Adjust

- Used to alter various “mapping” functions such as color balance and hue.

Distortion

- Used to distort the image with custom effects such as Twirl and Wind.

Photographic

- Used to simulate effects used by photographers and photo processors.

Texture

- Used to apply a texture to an image.

Three Dimensional

- Used to give the image various three-dimensional effects.

Effects Options

When you click an effect in the Image Effects list, the Effects options area changes to accommodate the selected effect. Each effect has its own set of options.

At the top of the Effects options area is a button displaying the name of the effect. Click this button for a brief explanation of the effect. Click the Preview button to see the effect on your image.

Other buttons in this dialog box include:

In/Out

- If an image has masked areas, the In/Out button lets you specify whether the effect is applied to the inside or the outside of the masked area. If the In/Out button shows "In," the effect is applied inside the mask. If the In/Out button shows "Out," the effect is applied outside the mask. If you do not have masked areas, the effect is applied to the entire image, and the In/Out button is hidden.

Preview

- Click Preview to preview the effect on a portion of an image. Previewing the effect is much faster than applying the effect to an entire image. The effect is displayed in the Preview area on the right side of the EffectsBrowser. You can select which portion of an image is previewed by moving the window in the Preview area with the cursor.

Reset

- Click Reset to reset the image in the Preview area to its original state.

Apply

- Click Apply to apply the effect to an image without closing the EffectsBrowser. The effect is only visible in the Preview area. You can cumulatively apply multiple effects to an image before you click OK.

OK

- Click OK to accept all applied changes to the image.

Cancel

- Click Cancel to close the EffectsBrowser without making any changes to the image.

To use the EffectsBrowser

- 1** On the Effects menu, click EffectsBrowser.
- 2** Choose an effect from the Image Effects list.
- 3** Select the options you want to use.
- 4** Click Preview to view the effect.

- 5 Click Apply or OK to apply the effect. If you click Apply, the EffectsBrowser remains open so you can choose other effects. If you click OK, the effect is applied and the EffectsBrowser closes.

EffectsBrowser Sample Gallery

The following pages show examples of effects found in the EffectsBrowser.

Artistic



Original



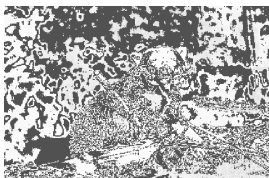
Charcoal



Oil Painting



Pastel



Pop Art



Watercolor

Color Adjust



Original



Color Balance



Color Saturation



Contrast/Brightness



Dither



Gamma Correction



Hue Adjustment



Posterize



Threshold

Distortion



Original



Add Noise



Blur



Circular Ripple



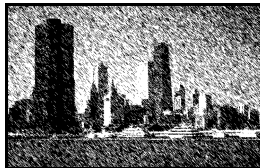
Color Noise



Edge Detection



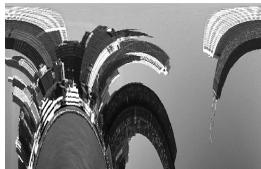
Gaussian Blur



Graphic Pen



Motion Blur



Polar to Rectangular



Prism



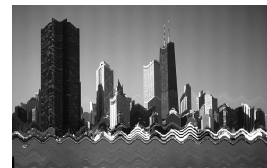
Tunnel



Twirl



User Defined



Wave



Texture



Original



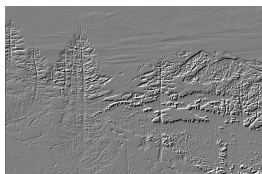
Clouds



Crystallize



Disturb



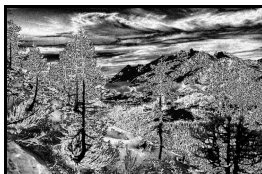
Emboss



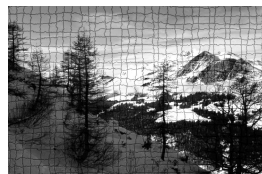
Engrave



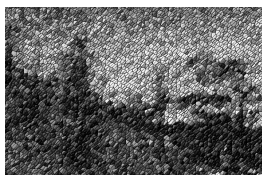
Facet



Metal



Mosaic



Mosaic Tile



Offset Tile



Pixelize



Ripple



Seamless Tile



Splatter



Stucco

Three Dimensional



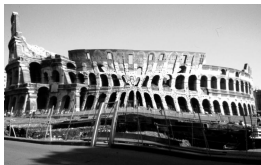
Original



Cylinder



Pillow



Pinch



Punch



Sphere

Warping Images



Image's Retouch tools on the Main toolbar provide a variety of tools that let you edit images. The Paint tool, for example, mimics the effects achieved when a conventional artist uses a paintbrush to stroke on oil-based paint.

Image also provide other tools that are not accessible to the traditional artist, such as the Clone, Texture, Image Spray, and Warp tools.



The Warp tool lets you distort portions of an image, or the entire image, to create special effects. There are three different warp modes:

- Push and Pull
- Bend Image
- Brush Warp

Push and Pull Mode

This mode lets you paint a warp on a portion of the image. You can control the amount of distortion by adjusting the brush size and the warp region.



Original



Push and Pull warp

Bend Image Mode

This mode lets you bend the entire image in one direction. You can control the amount of distortion by adjusting the sensitivity. You can create fun house-mirror effects using this mode.



Original



Bend Image warp

Brush Warp Mode

This mode lets you paint a warp with a grid. The grid you choose changes the warp distortion.



Original



Brush Warp

The Warp Tool Ribbon



When you click the Warp tool from the Retouch toolset on the Main toolbar, Image displays the Warp Tool ribbon. The ribbon displays options that let you specify how you want to use the tool.



Warp Mode

- Lets you select the warp mode to distort your image.
Push and Pull mode lets you paint a warp on a portion of the image. You can control the amount of distortion by adjusting the brush size and the warp region.

Bend Image mode lets you bend the entire image in one direction. You can control the amount of distortion by adjusting the sensitivity.

Brush Warp mode lets you paint a warp with a grid. The grid you choose changes the warp distortion.

Size

- This control lets you define the dimensions of the tool's tip. You can increase and decrease the values in small increments by clicking the spin control next to the edit box.

Outer Region

- This control lets you select the percentage of image outside the brush you want to affect. Selecting 100 means only the area within the brush tip is affected. The higher the value, the more image outside the brush tip is affected.

Spacing

- This control lets you set how far apart the points in the warp brush are laid down.

Tile Grid

- Click this button to select a predefined grid. You can only select a grid when you choose the Brush Warp mode. This mode lets you paint a warp with a grid.

Sensitivity

- This control lets you select the size of the area affected by dragging the cursor. The smaller the number, the less sensitive the brush, and the larger the affected area.

Image Warp

- Click this button to open the Image Warp dialog box. This dialog box lets you apply warp distortion on a grid automatically without painting on the image.

To warp a portion of an image



- 1** In the Main toolbar, click the Retouch tool and click the Warp tool.
- 2** In the Warp Mode box on the ribbon, click Push and Pull.
- 3** In the Size box, type the size of the brush tip.
- 4** In the Warp Region box, select the percentage of image outside the brush you want to affect.
- 5** In the Spacing box, type the amount of space you want between the points in the brush.
- 6** Click on the image where you want to begin the warp, and drag the cursor in the direction you want the warp.

To warp the entire image



- 1** In the Main toolbar, click the Retouch tool and click the Warp tool.
- 2** In the Warp Mode box on the ribbon, click Bend Image.
- 3** In the Sensitivity box, type the size of the area affected by dragging the cursor. The smaller the number, the less sensitive the brush, and the larger the affected area.
- 4** Click on the image where you want to begin the warp, and drag the cursor in the direction you want the warp.

To warp the image on a grid



- 1** In the Main toolbar, click the Retouch tool and click the Warp tool.
- 2** In the Warp Mode box on the ribbon, click Brush Warp.
- 3** In the Size box, type the size of the brush tip.
- 4** In the Spacing box, type the amount of space you want between the points in the brush.
- 5** Click the Tile Grid button, and select the desired grid.
- 6** Click on the image where you want to begin the warp, and drag the cursor in the direction you want the warp.

Increasing Web Appeal

Creating Internet Buttons

One of the most important elements on any Web page are buttons that users “click” to jump to a new Web page. You can use the EffectsBrowser and the Bevel Factory to create simple, but effective Web page buttons.



About the Tools

The Bevel Factory command on the Effects menu applies three-dimensional bevel effects to an image, a portion of an image, or even text.

If you mask off a portion of your image, the Bevel Factory applies the bevel within the masked area. If you select an object on your image, the bevel is applied to the object. If no portion of the image is masked or selected, the Bevel Factory applies the bevel effect to the whole image.

The EffectsBrowser lets you choose special effects and effects options you want, and preview them before applying them to an image. Effects apply to the area inside or outside masked areas, as specified by the EffectsBrowser. If there are no masks in the image, the effects apply to the entire image.

Creating a Round Button

Follow the steps below to create a round button for use on a Web page. You can apply the skills you learn here to create a number of different buttons.

To open an existing file

- 1 On the File menu, click Open. The ImageBrowser (Open) dialog box opens.
- 2 Click the Tutorial folder within the Image 1 folder.
- 3 Select Bridge.jpg.
- 4 Click Open. Image opens the file.

To create an object



- 1 In the Main toolbar, click the Mask tool and click the Shape Mask tool.
- 2 In the Shape box on the ribbon, click the circle.
- 3 Draw a circle around the rock jutting out of the water.
- 4 On the Object menu, click Create Object From Mask.

To apply the sphere effect to the object

- 1 On the Effects menu, click EffectsBrowser.
- 2 Select Sphere from the list of Three Dimensional effects.
- 3 Move the Power slider to 100.

- 4** Select the High Quality option.
- 5** Click Apply and then click OK.

To create a bevel on the object

- 1 On the Effects menu, click Bevel Factory.
- 2 Click the Edge Shape button and select the Round In shape for the bevel edges.
- 3 Change the angle of the light to the center of the object by dragging the cursor over the Light Direction area.
- 4 Move the Bevel Width slider to 145.
- 5 Move the Smoothness slider to 10.
- 6 Move the Light Intensity slider to 1.
- 7 Move the Highlight Brightness slider to 85.
- 8 Make sure the Preserve Interior option is selected.
- 9 Click OK.

**Tip**

You can also use the Button Maker wizard to automate the process of creating buttons. To access this wizard, click Wizard Browser on the Tools menu. Click the Button Maker wizard and click OK.

Creating Internet Background Textures

Most Web designers add textured backgrounds to an Internet site to increase the aesthetic appeal of the page. You want to be careful, though, when creating a background texture. You want to create a texture that will compliment, and not detract from, any other elements you add to the page.



About the Tools

The EffectsBrowser lets you choose special effects and effects options you want, and preview them before applying them to an image. Effects apply to the area inside or outside masked areas, as specified by the EffectsBrowser. If there are no masks in the image, the effects apply to the entire image.

Image's Light Studio lets you apply special lighting effects to an RGB image. You can add numerous lights to an image and assign different properties to each light for a myriad of lighting effects. Use your mouse to position lights anywhere in the preview area for the right effect. You can delete lights, and even duplicate lights and their associated values. You can also add bumping to an image to produce three dimensional-looking images.

The Tile Creator wizard creates a tileable texture from any area you mask off in an image. You must open an image and mask off an area before you can run this wizard. You can paste the texture as an object into your existing image, or you can create a new image from the masked area.

The Web Pattern Viewer command lets you view the tileable texture as it would appear on an Internet page as a background pattern.

Creating a Background Texture

Follow the steps below to create a background texture for use on a Web page. You can apply the skills you learn here to create a number of different textures.

To create a new file

- 1 On the File menu, click New. The New Image dialog box opens.
- 2 In the Image Type list, click RGB Color. Change the image size to 5 inches wide by 7 inches high, and set the resolution to 96 ppi.
- 3 Click Create. Image creates a blank image.

To apply the clouds effect to the image



- 1 Double-click the Color Swatch. The Color Picker dialog box opens.
- 2 Click Active Color in the Color Picker dialog box.
- 3 Enter the following RGB values: **R–255; G–0; B–0**.
- 4 Click Alternate Color in the Color Picker dialog box.
- 5 Click Black and click OK.
- 6 On the Effects menu, click EffectsBrowser.
- 7 Select Clouds from the list of Texture effects.
- 8 Click Apply and click OK.

To apply a bump map to the image

- 1 On the Effects menu, click Light Studio.
- 2 Select the Gloss Finish Lighting option on the Lighting tab.
- 3 Click the Bumping tab.
- 4 In the Bump Map Source list, select Gray.
- 5 Click OK.

To create a seamless tileable texture

- 1 In the Main toolbar, click the Mask tool and click the Shape Mask tool.
- 2 In the Shape list on the ribbon, select the square.
- 3 Mask off the area of the image from which you want to make a seamless tileable texture.
- 4 On the Tools menu, click Wizard Browser.
- 5 Click Tile Creator and click OK.
- 6 Click Next.
- 7 Click Mirrored Seams from the list of Tile Effects.
- 8 Click Next.
- 9 Click Create New Image.
- 10 Click Finish. Image creates a new image containing the tileable texture.

Viewing the Tileable Texture

- 1 On the View menu, click Web Pattern Viewer. Image opens the Web Pattern View Window.



- 2 Click the Close button to close the Web Pattern View Window.

Creating Transparent GIFs

You can specify a transparent color in any image you are going to save as a GIF file. This color displays as the same color as the background on which the image is displayed. Transparent GIFs are popular on Internet pages, letting the browser's background show through the transparent colors you chose.

About the Tool

The GIF Export command opens the GIF Options dialog box. You can choose any number of colors to make transparent using the Color Probe tool. You can choose a different background color to highlight transparency by clicking the Color Picker button.

The dialog box shows the original image on the left and the new image on the right. In addition, the estimated Internet download times for the file are displayed above the images.

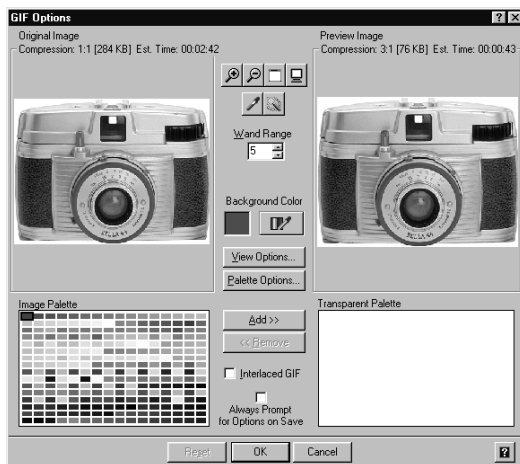
The dialog box also displays the current image palette and the transparent color palette. You can either use the Color Probe tool or the Add and Remove buttons to move colors from one palette to the other.

Creating a Transparent GIF

Creating a Transparent GIF is a simple case of picking the colors you want to make transparent, and then saving the image. Image lets you do this from one dialog box.

To select the transparent color

- 1 Close any open images.
- 2 On the Edit menu, click ClipboardBrowser.
- 3 Click on the thumbnail named Camera.
- 4 Press and hold the left mouse button and drag the image onto the Image workspace. Image creates a copy of the image.
- 5 On the File menu, point to Export, and click GIF Export.



- 6 Click the Color Probe tool.
- 7 Click in the white area of the Original Image on the left side of the dialog box. You have chosen to make the transparent color white. You should notice that the Preview Image on the right has changed, letting the Background Color (which defaults to red) display behind the image.

To view the transparency

- 1 Click View Options. The View Options dialog box opens.
- 2 Click Tiled Background.
- 3 Click Browse.
- 4 Double-click Brick3.tif from the Textures folder which is in the Image 1 folder.
- 5 Select the 28800 bps Modem Speed Option.
- 6 Click OK.



- 7 Click the Full Screen Preview View button. Image displays the camera against a brick background, letting the texture show through the white transparency.
- 8 Press **ESC** to leave the Full Screen Preview mode.

To save the transparent GIF

- 1 Click OK. The Save As dialog box opens.
- 2 In the File Name box, type a name for the GIF file.
- 3 Click Save. Image saves the image to the currently selected folder.

Saving Progressive JPEGs

A progressive JPEG is similar to an interlaced GIF, providing an image gradually coming into focus in your browser. A progressive JPEG is not interlaced, however. Instead, low-quality data is displayed first, followed by increasing levels of quality. There is no difference in file size between a progressive JPEG and a standard JPEG.

About the Tool

The JPEG Export command opens the JPEG Options dialog box. The dialog box shows the original image on the left and the new image on the right. In addition, the estimated Internet download times for the file are displayed above the images.

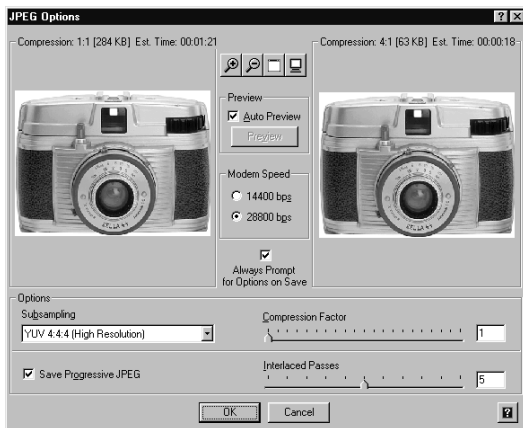
You can choose the subsampling (or compression) method and the compression factor in the dialog box. Depending on the method and factor you use, the estimated Internet download times changes. In addition, the quality of the image degrades as you change the compression method and factor.

You can also choose how many “interlaced” passes it takes for a progressive JPEG to display in full in the browser. You can select from one pass to 10 passes.

Saving a Progressive JPEG

- 1 On the Edit menu, click ClipboardBrowser.
- 2 Click on the thumbnail named Camera.
- 3 Press and hold the left mouse button and drag the image onto the Image workspace. Image creates a copy of the image.

- 4 On the File menu, point to Export, and click JPEG Export.



- 5 Select the Modem Speed for users downloading the image. This will change the estimated download time of the file.
- 6 Select the Subsampling method and the Compression Factor. This will change the estimated download time of the file.
- 7 Click Save Progressive JPEG.
- 8 Move the Interlaced Passes slider to determine the number of times it will take the image to display fully in the browser.
- 9 Click OK. The Save As dialog box opens.
- 10 In the File Name box, type a name for the JPEG file.
- 11 Click Save. Image saves the image to the currently selected folder.

Creating Animated GIFs

An animated GIF file stores multiple GIF images that are played sequentially, like frames in a strip of film. When you view an animated GIF in your Web browser, the stored GIF images play one at a time (frame by frame), creating the illusion of animation. You can create simple five- or 10-frame GIF animations, or more elaborate 20- or 30-frame animations.

About the Tool

The GIF Animator command lets you edit or create animated GIFs for use on Web pages. If you try to open an animated GIF, Image automatically opens the file in the GIF Animator dialog box.

Animated GIFs support color transparency and interlacing, just like standard GIF files. In addition, animated GIFs support looping delays, and global color palettes.

Creating an Animated GIF

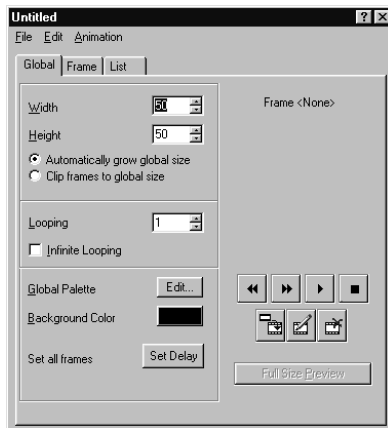
Follow the steps below to create an animated GIF for use on a Web page. You can apply the skills you learn here to create your own animated GIFs.

To open an existing file

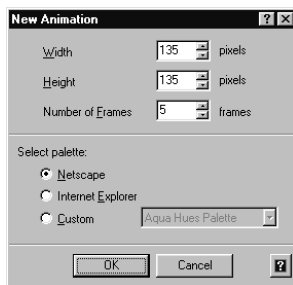
- 1 On the File menu, click Open. The ImageBrowser dialog box opens.
- 2 Click the Tutorial folder within the Image 1 folder.
- 3 Select Space.ppf.
- 4 Click Open. Image opens the file.

To create a new animated file

- 1 On the View menu, click Gif Animator.



- 2 On the GIF Animator File menu, click New. The New Animation dialog box opens.



- 3 In the Width and Height boxes, type **135**.
- 4 In the Number of Frames box, type **5**.
- 5 Select the Netscape palette.
- 6 Click OK.

To add images to the frames

- 1 Click the List tab.
- 2 Make sure Frame: 0: is selected.
- 3 Select the red and yellow object in the upper right corner of the Space.ppf file.
- 4 On the Image Edit menu, click Copy.
- 5 On the GIF Animator Edit menu, click Paste. The GIF Frame Needs a Palette dialog box opens.
- 6 Click the Remap to Global button. Image pastes the object in the Frame 0 window.



Note

The Global palette defines the colors that all frames in an animated GIF can use. You can reduce the file size of an animated GIF by using the Global palette for all the frames. If, however, a frame contains colors not found in the Global palette, you can choose to use its Local palette by checking the Use Local Palette option on the Frame tab in the GIF Animator dialog box.

To center the frame in the animation window

- 1 Click the Frame tab.
- 2 In the X Offset and Y Offset boxes, type **12**.



Note

Offsetting lets you set the distance of a frame from the upper-left corner of the workspace the animation frames occupy. This distance is measured in pixels along the X- and Y-axes.

To add the remaining images to the frames

- 1 Click the List tab.
- 2 Make sure the next frame is highlighted.
- 3 Select another object in the Space.ppf file.
- 4 On the Image Edit menu, click Copy.
- 5 On the GIF Animator Edit menu, click Paste.
- 6 Click the Remap to Global button. Image pastes the object in the highlighted frame window.
- 7 Click the Frame tab.
- 8 In the X Offset and Y Offset boxes, enter the number of pixels it will take to center the image in the frame.

**Note**

As you enter numbers in the Offset boxes, the Frame preview shows the location of the object in the frame.

- 9 Repeat steps 1–8 for the remaining three objects.

To set the number of times the animation plays

- 1 Click the Global tab.

- 2** In the Looping box, type **6**.



— **Note** —

This option lets you enter the number of times you want an animation to repeat when it is played in a browser. If you check the Infinite Looping option, the animation repeats endlessly.

To set the global delay for each animation frame

- 1 Click Set Delay. The Set Delay for All Frames dialog box opens.
- 2 In the Global Delay box, type **25** and click OK.

**Note**

This option lets you enter the length of time in hundredths of a second increments that a frame is displayed during animation. The clock starts ticking immediately after the graphic is rendered.

To preview the animated GIF

- 1 Click Full Size Preview from any tab. The Animation Preview dialog box opens.
- 2 Click Stop to stop the animation.
- 3 Click Close to close the Animation Preview dialog box.

To save the animated GIF

- 1 On the GIF Animator File menu, click Save As. The Save As dialog box opens.
- 2 In the File Name box, type the name of the JPEG file.
- 3 Click Save. Image saves the image to the currently selected folder.

Creating Web Page Elements

Image simplifies and automates the Web page creation process with the Web Styles wizard. This wizard helps you create contemporary Web page elements you can further customize easily.

A second, corresponding wizard—the Web Output wizard—outputs the active Web page image you created with the Web Styles wizard to HTML. For the neophyte Web page designer, these wizards make the complicated task of Web page creation simple and straightforward.

Creating a Web Page

This wizard assumes you do not want to create your own Web page elements from scratch. You can customize the various elements to personalize your homepage, however.

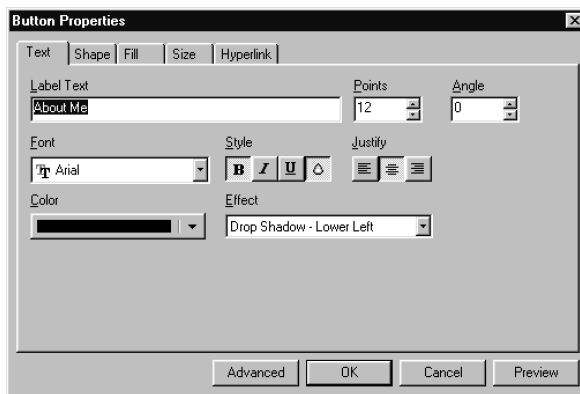
To choose a Web style

- 1** On the File menu, click New Web Style. The Web Styles wizard dialog box opens.
- 2** In the Target Screen Resolution box, choose the optimal screen resolution for your Web page.
- 3** Click Next.
- 4** In the Web Style box, select a predefined Web page design. The Sample window previews the highlighted style.
- 5** Click Finish. Image creates the Web style elements and displays them in a new window.

To customize the Web elements

Image displays a help message after creating the Web style elements. Before going on, read the message and click OK.

- 1 Select any element you want to customize (for example, add text, change color, add a hyperlink), and double-click. The Button Properties dialog box opens.



- 2 Click the tab corresponding to that part of the element you want to change:
 - The Text tab lets you add text to the highlighted element. You can change the font, the point size, and the color of the text. In addition, you can add drop shadows to the text to make the element even more interesting graphically.
 - The Shape tab lets you change the shape of the highlighted element. You can choose from different collections of shapes, and from different elements (banners, buttons, placeholders, and separators).
 - The Fill tab lets you change the fill color of the highlighted element. You can also choose to fill the element with a texture from a series of collections.
 - The Size tab lets you resize the highlighted element. You can choose to size the element fit any text you have added, or you can specify an exact size.

- The Hyperlink tab lets you specify a URL link to the highlighted element. You can also add alternate identification for text-only browsers.
- 3** Make the necessary changes. You can switch between tabs to make changes without clicking OK.
 - 4** When you are finished making your changes to the highlighted element, click OK. Image alters the element according to your specifications.

Below is an example of the Knobs Web style after being customized.



To convert the elements to HTML

- 1** On the Tools menu, click Wizard Browser.
- 2** Click Web Output Wizard and click OK. The Web Styles Output dialog box opens.
- 3** Click Next.
- 4** In the Target Folder box, type the name of the folder you want to save your Web images.
- 5** Check the Generate HTML option if you want Image to create the HTML code needed to display your Web page in a browser.

- 6** In the Filename box, enter the name of the HTML file.
- 7** Select either to output your images as true color JPEGs or palette color GIFs. You can choose the Netscape or the Internet Explorer palette.
- 8** Click Next.
- 9** Highlight any object whose name you want to change. Image defaults to obj1, obj2, etc., for any objects to be output.
- 10** Click Modify Options if you want to change the name or change the output format (saving your images as true color JPEGs or palette color GIFs).



Note

Although JPEG images that are compressed tend to be smaller (in file size) than GIFs, some browsers take longer to decompress and display a JPEG image than a larger GIF image.

- 11** Click Finish. Image saves your Web styles information and generates an HTML file, if requested.



Note

After outputting your Web styles information, Image asks if you want to view the Web page in your default browser. Click Yes to continue.

Tutorials

Getting Started

If you're new to iGrafx Image, this section is designed to give you hands-on training by working through a project-based tutorial. The project contains several "mini" tutorials that you can work through at your own pace.

Before starting the tutorials, you should know how to open menus, choose commands, and select objects using a mouse.

You can follow the tutorials from first to last, or you can skip to the ones that interest you the most. Although the project-based tutorial assumes you have worked through the other tutorials, we have supplied files you can open instead of finishing the previous tutorials.

The individual tutorials are presented in order of sophistication. If you're a new user, it's best to start at the beginning and work through the first few tutorials in order.



Tip

The tutorial files are in a folder called TUTORIAL in the IMAGE 1 folder, and in a folder called TUTORIAL on the root of the Application CD.

The techniques and examples used in this section should be stepping stones for your creativity. We have attempted to show that there is more than one way to achieve certain tasks, and that each technique offers its own unique advantages.

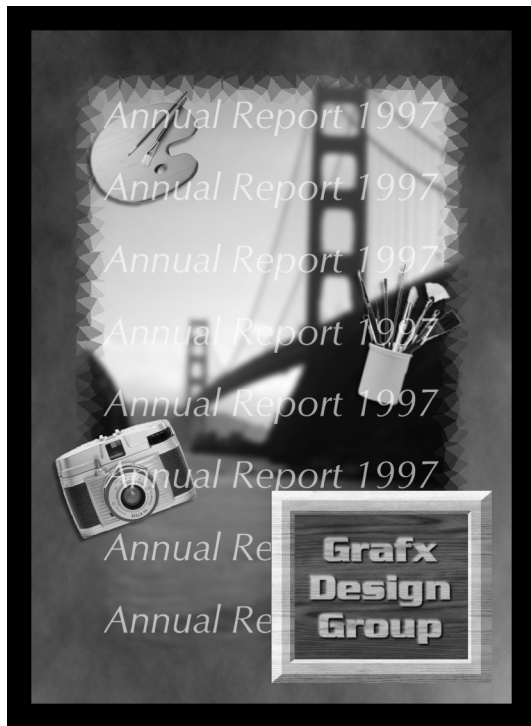
If you're ready to begin, open Image and let your imagination run free.

Creating an Annual Report Cover

Our project is to create an annual report cover for the San Francisco-based GrafX Design Group. This project incorporates many of Image's features including masking, working with objects, picking colors, text manipulation, and applying effects.

Throughout the project, you will learn to use the Command Center to organize your work. The Command Center allows you to exercise considerable control over the command information in your image file. You can revisit the changes you made previously, determine the exact commands that were used to make a change to the image, and edit those commands.

At the end of this project, you will be given the opportunity to make changes to the finished image through the Command Center. You will change the background color and the fonts used without having to redo all your work.



The finished annual report

This project is composed of seven tutorials:

- Creating the Background
- Adding an Image to the Background
- Creating a Border for the Background
- Adding Text to the Image
- Adding Graphic Elements to the Image
- Creating the Company Logo
- Making Changes Using the Command Center

Remember, you can follow the tutorials from first to last, or you can skip to the ones that interest you the most.

Creating the Background

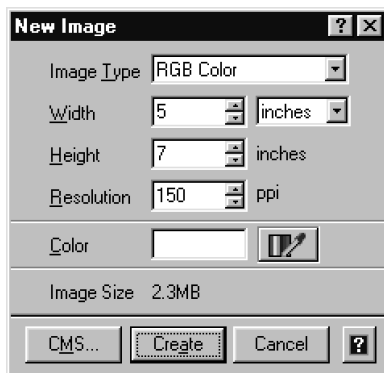
The first step in producing the annual report is to create the background for the image. This tutorial introduces you to the process of creating a new image and supplying a custom background.

In this tutorial you will learn to:

- Create a new image
- Use the Gradient Fill tool
- Draw a mask
- Create an object from a mask
- Apply an effect
- Save an image
- Use the Command Center

Creating a New File

- 1 On the File menu, click New. The New Image dialog box opens.
- 2 In the Image Type list, click RGB Color. Change the image size to 5 inches wide by 7 inches high, and set the resolution at 150 ppi.



- 3 Click Create. Image creates a blank image.

Applying a Gradient Fill

Gradients, also known as blends, are graduated color or gray sweeps that can be used to create a background or add shading. The gradient types are linear, radial, circular, elliptical, square, and rectangular.

You can use the Color Swatch's active and alternate colors as the start and end colors, respectively. The active color is where the gradient begins; the alternate color is where the gradient ends.



- 1 Double-click the Color Swatch. The Color Picker dialog box opens.

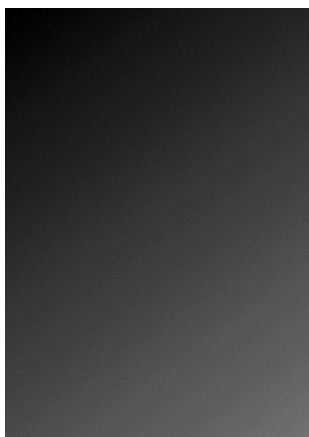
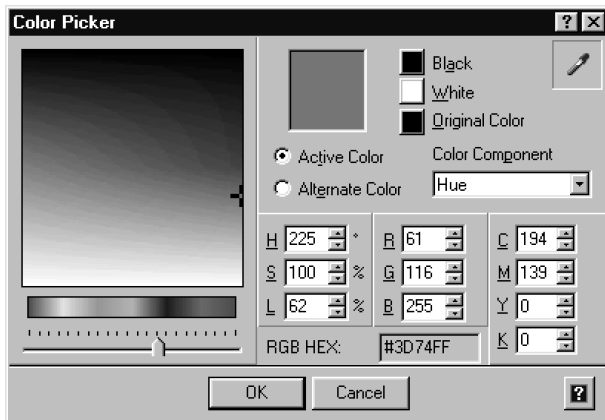


Note

The Color Swatch displays two colors: the active color (in front) and the alternate color (in back). You can switch between the active and the alternate color by clicking the alternate color in the Color Swatch.



- 2 Click Active Color in the Color Picker dialog box and click Black.
- 3 Click Alternate Color in the Color Picker dialog box.
- 4 Enter the following RGB values: **R-61; G-116; B-255**.
- 5 Click OK.
- 6 In the Main toolbar, click the Fill tool and click the Gradient Fill tool.
- 7 On the Gradient Ribbon, click the Gradient Gallery button.
- 8 Check the Active to Alternate preset from the Gradient Gallery.
- 9 Move the pointer to the upper left corner of the image, then press and hold the left mouse button. Drag the pointer to the bottom right corner of the image.
- 10 Release the left mouse button. The gradient appears on the screen. The image area beyond the starting point redraws with the starting color, and the image area adjacent to the ending point redraws with the ending color.



The image filled with a gradient fill

Applying the Clouds Effect

To give the gradient fill a “textured” look, you are going to apply one of Image's special effects. You can modify any image with special effects that change images in many different ways.

Before applying the effect, you must mask off the entire image and create an object from the mask. This lets you add transparency to the effect so the gradient fill mixes with the clouds to create the “textured” look.

The mask tools are modeled after graphic and photographic tools. For example, an icon used for several of the Mask tools is a razor knife, a tool commonly used when manually creating cardboard or film masks.



- 1 In the Main toolbar, click the Mask tool and click the Shape Mask tool.



Note

A mask is a border used to set off an area for changes or protection from changes. Masks also mark an area for copying or cutting to the Windows Clipboard or a named clipboard.

- 2 Click in the upper left corner (where you want to start the mask), and drag to the bottom right corner to create the mask.



Tip

Press and hold the right mouse button and move the mouse to reposition the mask while you are drawing it.

- 3 When the mask covers the entire image, release the left mouse button to display the mask.



Note

A mask is marked with a black and white marquee on a color image, and green and red on a grayscale image.

- 4 On the Object menu, click Create Object From Mask. Image creates an object of the area inside the mask.



- 5 Double-click the Color Swatch, choose White as the Active Color, Black as the Alternate Color, and click OK.
- 6 On the Effects menu, click EffectsBrowser.
- 7 Select Clouds from the list of Texture effects.
- 8 Click Apply and then click OK.
- 9 On the Selector ribbon, move the Transparency slider to 70%. The graduated blue background shows through the clouds effect.



The clouds effect applied to the blue gradient

- 10 On the Object menu, point to Combine, and click All Objects With Base.



Note

This command combines all objects on the image with the base image. When floating objects are combined with the base image, the objects become a permanent part of the image and lose their status as separate objects.

Saving Your Image

- 1 On the File menu, click Save As.
- 2 In the File Name box, type **Annual Report**.
- 3 In the Save As Type list, click iGrafX Image (*.ppf).
- 4 Choose Image \Tutorial as the destination folder.
- 5 Click Options. The PPF Options dialog box opens.
- 6 Make sure the Save Work in Progress, Save Command List, Save Redo List, Compress Image, Save Mask Channel and Always Prompt for Options on Save options are selected.
- 7 Click OK. The PPF Options dialog box closes.
- 8 Click Save. Image saves the image.



Note

The PPF Options dialog box opens again because the Always Prompt for Options on Save option is selected. Click OK to close the dialog box and save the image.

Organizing Your Work with the Command Center

Often the changes that you make to an image are tentative. You may make several changes today, save the image, and then change your mind tomorrow as to one of the many changes you made. If you have saved the image file using the PPF format and included the command list when you saved the file, you can return to previous work and make changes to it.

When you need to edit the changes that have been made to an image, you first must isolate and identify the command or commands that were used originally to make those changes.

The Command Center can be used as the work is done to make the image file “maintainable.” As changes are made to the image, commands that are used to perform a specific task are grouped. Each group is labeled so that it can be located without having to isolate commands individually.

When you have located the command or commands of interest, you can edit the command list. You can rearrange commands by dragging them to different positions, delete unwanted commands, enable or disable commands, change the properties of commands, insert new commands, organize commands in folders, nest folders of commands in other folders, and create branches to alternative commands or folders of commands.

You will now group the commands you used to create the background for the annual report. At the end of the project, you will be able to identify exactly where you chose blue for your background color and change it.

- 1** On the Edit menu, click Command Center. The Command Center dialog box opens.

- 2 In the Commands area, highlight the first commands up to and including the Combine Objects command and then click Group. The commands are placed inside a new untitled folder.

**Tip**

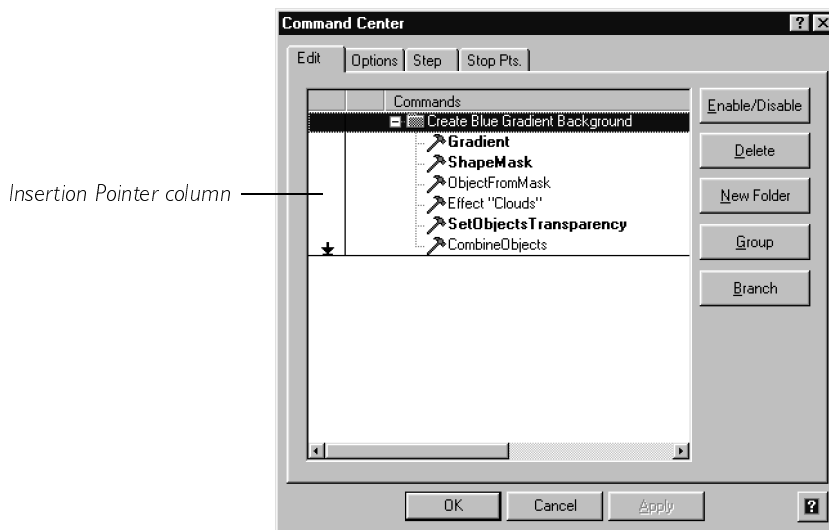
You can select multiple commands by highlighting the first command, and pressing and holding **SHIFT**. Then click the last command you want to select. The commands between the first and last are automatically selected.

- 3 Click the folder to select it.
- 4 Click the name of the folder. The name editing box appears.

**Tip**

You can highlight the folder you want to rename, and click the right mouse button to open a shortcut menu. Select Rename from the menu to rename the folder.

- 5 Type **Create Blue Gradient Background**, and press **ENTER**.



The Command Center dialog box with the commands grouped under the folder



- 6 Click in the Insertion Pointer column on the same line as the Create Blue Gradient Background folder to move the Insertion Pointer next to the open folder. Any new commands added are automatically listed below this folder.



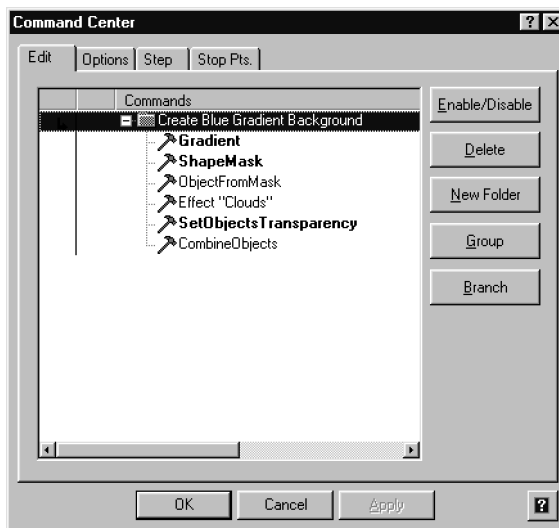
Note

The Insertion Pointer sets the location where new commands will be added to the command list. In order for new commands to be added following the Create Blue Gradient Background folder (or any folder), you must place the Insertion Pointer next to the folder, and then close the folder.



Note

You cannot drag the Insertion Pointer. You must click in the Insertion Pointer column next to the command from where you want new commands to be added.



The Command Center dialog box with the Insertion Pointer next to the folder

- 7 Close the folder.



Tip

Closed folders are marked with a + in the box to the left of the folder icon. Open folders have a - in the box. Click the + to open a folder; click the - to close the folder.

- 8** Click OK. The Command Center closes and Image rebuilds the image up to the last command.
- 9** On the File menu, click Save. The PPF Options dialog box opens.
- 10** Click OK.

Adding an Image to the Background

Now you've created the background for the annual report, the next step is to add an image to the background. This tutorial introduces you to the process of opening an image and adding it to your original image as a floating object.

In this tutorial you will learn to:

- Open an image file
- Crop an image
- Cut and paste using the Clipboard
- Scale an object
- Apply an effect

Before you begin...

Make sure the file Annual Report.ppf is opened in Image. If you are starting the annual report project from this section, copy the file Ar1.ppf from the Tutorial folder on the root of the Application CD to your local drive.

Opening an Existing File

- 1 On the File menu, click Open. The ImageBrowser dialog box opens.



Tip

You can also press **CTRL+O** to open a file.

- 2 Click the Tutorial folder within the Image 1 folder.
- 3 Select Bridge.jpg.
- 4 Click Open. Image opens the file.

Cropping the Image

The Crop tool lets you reduce the size of an image by selecting a rectangular part you want to keep and discarding the rest.



- 1 Click the Crop tool in the Main toolbar.
- 2 In the Method box on the ribbon, click Constrain Size.



Note

Constrain Size lets you choose the size of the cropping rectangle.

- 3 In the Width box, type **2**.
- 4 In the Height box, type **3**.
- 5 In the Units box, select Inches.
- 6 Point to the image.

- 7 Press and hold the left mouse button to display the cropping rectangle.
- 8 Position the cropping rectangle so the left side of the rectangle intersects the rock just before the highest point of the rock.



Tip

If you are unhappy with the crop, click Undo Crop on the Edit menu. You can also press **CTRL+Z** to undo your last action.

- 9 When the rectangle is in the location you want, release the left mouse button to crop the image.



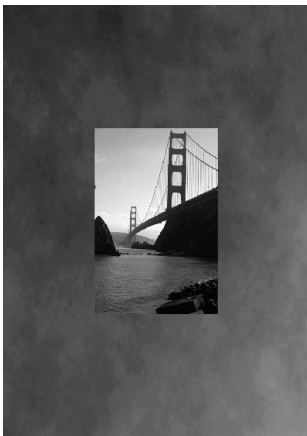
Bridge.jpg after being cropped

Copying and Pasting the Image

The Copy command sends a duplicate copy of the image area defined by a mask to the Windows Clipboard. The working image is unaffected when using the Copy command. The contents of the Clipboard can be pasted back into an Image picture.

The Clipboard retains the most recently cut or copied image. Each subsequent cut or copy replaces the contents of the Clipboard.

- 1 On the Mask menu, click Mask All.
- 2 On the Edit menu, click Copy.
- 3 Select the annual report image window to make it active.
- 4 On the Edit menu, click Paste. Image pastes the cropped file onto the background you created previously.



The cropped bridge image pasted onto the background as a floating object

- 5 Select the bridge image window to make it active.
- 6 Click the Close button.
- 7 Click No when prompted to save changes to the image.

Scaling the Object

When you pasted the image onto the background, Image made the image a floating object. An object is an image that floats on the base image. For example, think of a base image as a pool and an object as a raft that floats on the pool.

Usually an object is an image copied from another image file in Image or from another Windows program. An object can also be text that you type on the base image. An object is outlined using black and cyan marquee marks (similar to those used to define masks). When you create an object by pasting, Image places a transform box around the newly created object.

Since the object is not the correct size for the annual report cover, you must scale the object using the Selector Transform Tool.



- 1 Click the Selector Transform tool in the Main toolbar.
- 2 Position the pointer over the floating object.
- 3 Press and hold the left mouse button and move the object to the upper left corner of the background image.
- 4 Position the pointer over the lower right handle of the floating object. The pointer should display as a two-headed arrow.
- 5 Press and hold the left mouse button and drag the handle toward the bottom right corner. The Status bar displays the percentage at which you are scaling the object. Scale to approximately 205%.
- 6 Center the floating object on the background using the Selector Transform tool.



The floating object after being scaled and centered on the background

- 7 Double-click the object to leave the transform mode.

Applying a Gaussian Blur

The Gaussian Blur effect blurs an image by an adjustable amount. This is a photographic technique used by image editing professionals to simulate equalized blur or diffusion.

In the next tutorial, the bridge object will be combined with the base image to form the background of the annual report. Since the bridge object is going to be part of the background, applying a Gaussian Blur will soften this object so any other floating objects you add to the image later will stand out.

- 1 On the Effects menu, click EffectsBrowser.
- 2 Select Gaussian Blur from the list of Distortion effects.
- 3 Move the Power slider to 10.



Note


The higher the power, the stronger the blur.

- 4 Click Apply, and click OK.



Gaussian Blur applied to the image of the bridge

Organizing Your Work with the Command Center

- 1 On the Edit menu, click Command Center. The Command Center dialog box opens.
- 2 In the Commands area, highlight the new commands that have been added after the first folder, and then click Group. The commands are placed inside a new untitled folder.
- 3 Click the folder to select it.
- 4 Click the name of the folder. The name editing box appears.
- 5 Type **Add Bridge Image**, and press **ENTER**.
- 6  Click in the Insertion Point column on the same line as the Add Bridge Image folder to move the Insertion Point next to the open folder. Any new commands added are automatically listed below this folder.
- 7 Close the folder.

- 8** Click OK. The Command Center closes and Image rebuilds the image up to the last command.
- 9** On the File menu, click Save. The PPF Options dialog box opens.
- 10** Click OK.

Creating a Border for the Background

The next step in creating the annual report cover is to make a border for the background (which now consists of the textured gradient fill and the blurred image of the bridge). This tutorial introduces you to the mask channel which contains a grayscale image of any mask you create with the Mask tools. You can work directly on the mask channel and edit the mask directly.

In this tutorial you will learn to:

- Create a mask from an object
- Feather a mask
- Use the mask channel
- Merge a mask

Before you begin...

Make sure the file Annual Report.ppf is opened in Image. If you are starting the annual report project from this section, copy the file Ar2.ppf from the Tutorial folder on the root of the Application CD to your local drive.

Creating a Mask from an Object

You can create a mask from a selected object or a group of objects in Image. Although you are creating a mask from the object, the object still remains.



Tip

You can press **CTRL+SHIFT+X** to create a mask from an object. You can also click the Create Mask from Object button on the ribbon.

After creating a mask from the object, you need to feather the mask. Images in masked areas often present sharp edges that, when moved or copied, easily identify them as added objects in an image. Image lets you feather the edges of masks so that when you move or copy the images, they blend smoothly into the surrounding base image.

- 1 On the Mask menu, click Create Mask From Object.
- 2 On the Mask menu, click Feather Mask.



Note

You can choose the number of pixels to be used so you can control the amount of feathering. You also control the direction of feathering: outside, center, or inside, and whether the edge should be hard, normal, or soft.

- 3 In the Amount box, type **50**.
- 4 In the Edge box, click Soft.
- 5 In the Direction box, click Inside.
- 6 Click Feather. Image feathers the mask.



Tip

You can also press **CTRL+SHIFT+B** to feather a mask. You can feather a mask up to 250 pixels.

Working in the Mask Channel

With the mask channel displayed, you can use any of the toolbar tools, plus most of the menu commands, to create and manipulate a mask. When working with the mask channel, you cannot see the base image unless you click the Ruby Overlay button in the Image Tools toolbar. Whatever you draw or place into the mask channel becomes a mask on the image.



- 1 Click the Mask Channel button in the Image Tools toolbar.



The Mask Channel of the annual report cover

- 2 On Effects menu, click EffectsBrowser.
- 3 Select Crystallize from the list of Texture effects.



Note

The Crystallize effect creates the appearance of breaking the image into a collection of crystals with random shapes and a consistent color.

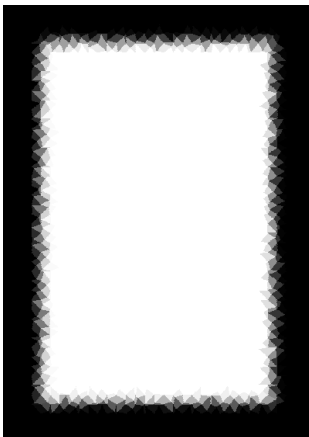
- 4 Move the Crystal Size slider to 23.



Note

The higher the number, the larger the size of the crystal.

- 5 Click Apply, and click OK.



The Crystallized effect applied to the Mask Channel

- 6 Click the Mask Channel button in the Image Tools toolbar to return to the image channel.

Merging a Mask

For the object (the image of the bridge) to take on the characteristics of masks created in the Mask Channel, use the Merge Mask command.



Tip

You can also press **CTRL+SHIFT+M** to merge a mask.

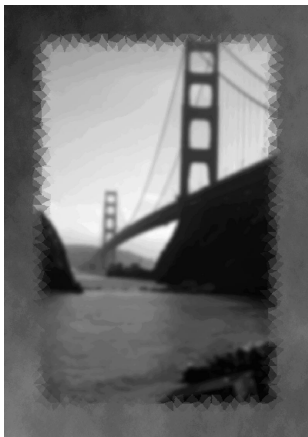
- 1 On the Object menu, click Merge Mask. Image merges the mask onto the object.
- 2 On the Object menu, point to Combine, and click All Objects With Base.



Note


Now the image of the bridge is a permanent part of the background.

- 3 On the Mask menu, click Remove Mask.



The crystallized border after merging the mask

Organizing Your Work with the Command Center

- 1 On the Edit menu, click Command Center. The Command Center dialog box opens.
- 2 In the Commands area, highlight the new commands that have been added after the second folder, and then click Group. The commands are placed inside a new untitled folder.
- 3 Click the folder to select it.
- 4 Click the name of the folder. The name editing box appears.
- 5 Type **Create Border for Bridge Image**, and press **ENTER**.
- 6  Click in the Insertion Point column on the same line as the Create Border for Bridge Image folder to move the Insertion Point next to the open folder. Any new commands added are automatically listed below this folder.
- 7 Close the folder.
- 8 Click OK. The Command Center closes and Image rebuilds the image up to the last command.
- 9 On the File menu, click Save. The PPF Options dialog box opens.
- 10 Click OK.

Adding Text to the Image

Now that the annual report's background is finished, you can concentrate on adding new graphic elements to the image. The next step in creating the annual report is to add text to the image.

This tutorial introduces you to the Text tool, which lets you add text to an image, select typefaces and point sizes, and choose text attributes. When you apply the text, it becomes a floating object that you can move, edit, and transform.



Tip

Text added to an image takes on the resolution of the image. Because images almost always have a lower resolution than your printer, you may want to replace Image's text with high-resolution vector-based fonts (from Micrograft Designer) when an image is offset printed or used for presentation graphics.

In this tutorial you will learn to:

- Use the Text tool
- Set up a grid
- Duplicate objects with keyboard shortcuts
- Select all objects
- Move objects with keyboard shortcuts

Before you begin...

Make sure the file Annual Report.ppf is opened in Image. If you are starting the annual report project from this section, copy the file Ar3.ppf from the Tutorial folder on the root of the Application CD to your local drive.

Creating the Text



1 Make sure White is the Active Color in the Color Swatch.



2 Click the Text tool in the Main toolbar.

3 In the Font list on the ribbon, click Optimum.

4 In the Points box, type **30**.

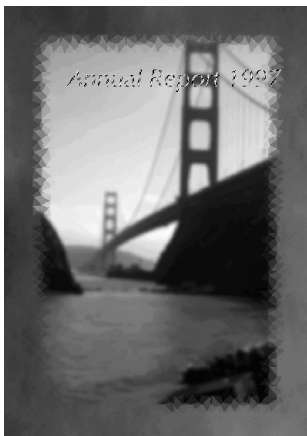


5 Click the Italic button in the ribbon.

6 Point to the image and click once. Image gives you an insertion point where you can start typing. It does not matter where you place the insertion point; you can manipulate the text after typing it.

7 Type **Annual Report 1997**.

8 Double-click the mouse to create a floating object from the text.



The text floating on top of the image

Setting up a Grid

To align your text correctly on the image, you need to set up a grid. A grid is a series of horizontal and vertical dots that criss-cross the image area. You can snap to the grid for more exact placement.

- 1 On the View menu, point to Grids, and click Grid Setup. The Grid Setup dialog box opens.
- 2 In the Grid Units list, click Inches.
- 3 In the Width box, type **.75**, and in the Height box, type **.75**.
- 4 Click Show Grids. The Show Grids option lets you show and hide the grid in the active image window.
- 5 Click Snap On. The Snap On option lets you snap to the grid in the active image window.
- 6 Click OK. The Grid Setup dialog box closes, and a grid appears.

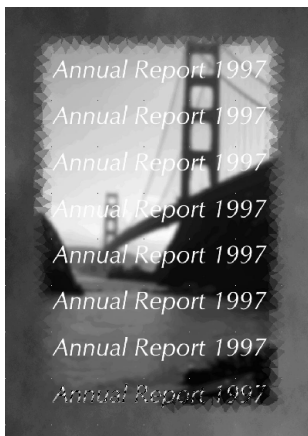
Duplicating the Text Object

You will now create a copy of an object using a keyboard shortcut and the mouse, and dragging a duplicate of the object onto the image.



- 1 Click the Selector tool in the Main toolbar.
- 2 Move the pointer over the text until the pointer changes shape.
- 3 Press and hold the **CTRL** key, and press and hold the left mouse button.
- 4 Drag the text object below the original text object. Image duplicates the text object and snaps it onto the grid.
- 5 Repeat this procedure until you have eight separate text objects on the image.

- 6** Using the Selector tool, position the text objects so they align according to the graphic below. As you move an object, it will snap onto the grid. This makes aligning the objects easier:



The text positioned on the image after duplication

- 7** On the View menu, point to Grids, and click Show Grid. Image hides the grid in the active image window.
- 8** On the View menu, point to Grids, and click Snap To Grid. Image stops snapping objects to the grid in the active image window.

Grouping the Text Objects

To apply transparency to all the text objects at once, rather than individually, group the objects together. The Select All command selects all objects on all layers. When all objects are selected, you can work on them as a group.

- 1 On the Edit menu, click Select All. Image selects all objects, outlining them with a black and cyan marquee.



Tip

You can also press **CTRL+A** to select all objects on an image.

- 2 On the Object menu, point to Combine, and click Objects Together.



Note

The Objects Together command combines all selected objects with each other, but not with the base image. You can select, move, and manipulate the combined objects together on top of the base image.

- 3 On the Selector ribbon, move the Transparency slider to 37%.



Note

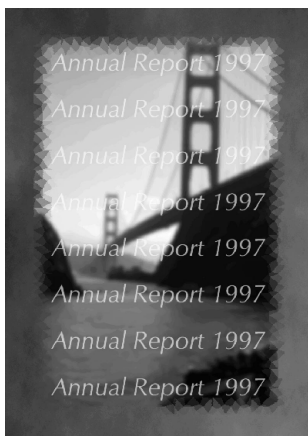
You can also type the number in the Transparency box, or click the arrows to select the amount of transparency.

- 4 Click on the title bar of the image.

Moving the Text Object


The text object is not currently centered on the image. Because you combined the eight text objects into one, it is a simple process to align the object using keyboard shortcuts.

- 1 Press and hold the **SHIFT** key and use the arrow keys to center the text on the image.
- 2 Click the base image to remove the marquee. Your image should look like the one below.



The annual report with correctly aligned text

Organizing Your Work with the Command Center

- 1 On the Edit menu, click Command Center. The Command Center dialog box opens.
- 2 In the Commands area, highlight the new commands that have been added after the third folder, and then click Group. The commands are placed inside a new untitled folder.
- 3 Click the folder to select it.
- 4 Click the name of the folder. The name editing box appears.
- 5 Type **Add Annual Report 1997 Text**, and press **ENTER**.
- 6  Click in the Insertion Point column on the same line as the Add Annual Report 1997 Text folder to move the Insertion Point next to the open folder. Any new commands added are automatically listed below this folder.
- 7 Close the folder.
- 8 Click OK. The Command Center closes and Image rebuilds the image up to the last command.
- 9 On the File menu, click Save. The PPF Options dialog box opens.
- 10 Click OK.

Adding Graphic Elements to the Image

Now you have added the text to the annual report cover, you need to add other graphic elements to the image. These elements are metaphors for a graphics-oriented business. If the company were a software publisher, you would add different graphics to use as metaphors.

This tutorial introduces you to the ClipboardBrowser which lets you manage and paste saved Clipboard images. You can create a saved Clipboard image by masking an area and using the Copy To command on the Edit menu.

In this tutorial you will learn to:

- Use the Object Manager
- Use the Clipboard Browser
- Rotate an object
- Create a drop shadow for an object
- Work with object layers

Before you begin...

Make sure the file Annual Report.ppf is opened in Image. If you are starting the annual report project from this section, copy the file Ar4.ppf from the Tutorial folder on the root of the Application CD to your local drive.

Opening the Object Manager

As you've been creating the annual report cover, you may have noticed the Object Manager window displayed on the right side of the screen.

If you have closed the Object Manager, you need to open it now.

- On the View menu, click Object Manager.



Tip

You can press **F12** to open the Object Manager. You can also click the Show Object Manager button in the Image Tools toolbar.

The Object Manager is a moveable window containing a graphical list of the objects floating on the active image.

The Object Manager contains small images (thumbnails) for selecting or deselecting each object. A selected object appears with a highlighted background. You can select multiple objects by holding **SHIFT** and clicking another object.

Using the Object Manager, selected objects can be hidden, grouped, deleted, and moved forward or backward (in layers) on top of the base image. Objects can also be cropped and you can edit their alpha channels.

Opening the ClipboardBrowser

The ClipboardBrowser dialog box lets you view thumbnails or names of clip art images that have been added to the ClipboardBrowser. You can scroll through the Preview area using the scroll bars. You can select a ClipboardBrowser object and click Paste to paste it into your active image or you can simply drag a ClipboardBrowser object from the Preview area to your base image.

- On the Edit menu, click ClipboardBrowser.

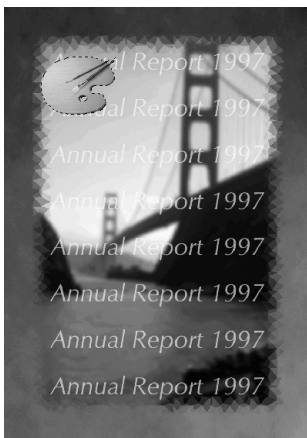


Tip

You can also press **CTRL+SHIFT+V** to open the ClipboardBrowser.

Dragging an Object from the Clipboard Browser

- 1 Click on the thumbnail named Palette.
- 2 Press and hold the left mouse button and drag the image onto the annual report cover.
- 3 Move the object onto the upper left corner of the annual report, so the bounding box covers about half of the top two lines of text.
- 4 Release the mouse button. Image displays the object.
- 5 Double-click to leave the transform mode.



The palette image correctly placed on the annual report cover

Rotating an Object

You could leave the palette object where it is, but by rotating the object, you give the overall image a better graphical look.

Image lets you rotate an object clockwise or counterclockwise by 90 degrees, or you can rotate it by 180 degrees. You can also rotate an object by an arbitrary amount and direction.

- 1 On the Object menu, point to Rotate and click Arbitrary Angle.



Tip

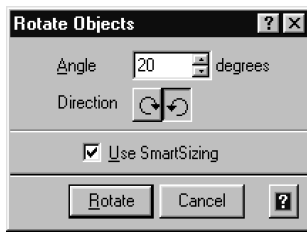
You can also press **CTRL+ALT+F7** to rotate an object by an arbitrary angle.

- 2 In the Angle box, type **20**.
- 3 Click the Counterclockwise button.
- 4 Make sure the Use SmartSizing check box is selected.

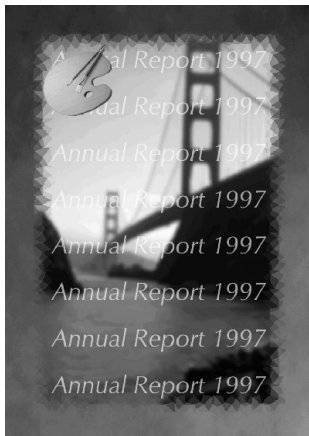


Note

If you select the Use SmartSizing option, the pixels are calculated from neighboring pixels to eliminate jagged edges (aliasing).



- 5 Click Rotate. Image rotates the palette object 20 degrees in a counterclockwise direction.



The palette rotated on the image

Creating a Drop Shadow

To give the palette depth, and to add yet another graphical element, you need to create a drop shadow. Image automates this process by creating a shadow from any floating object or masked area. After creating the drop shadow, Image groups the object and shadow.

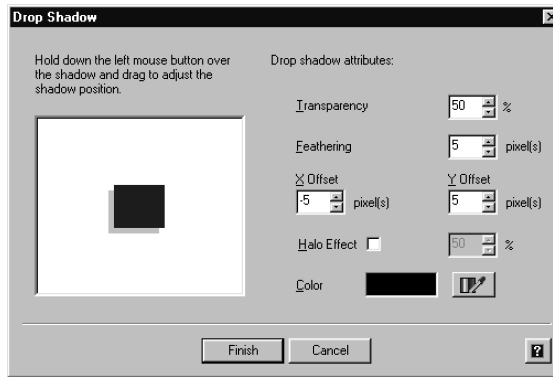


Tip

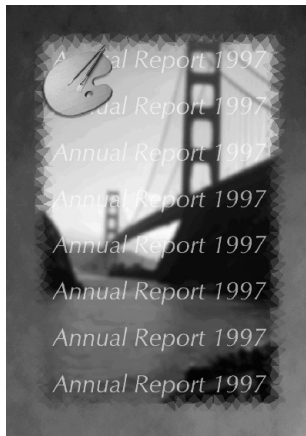
You can also create a drop shadow by using the Drop Shadow wizard. On the Tools menu, click Wizard Browser. Select the Drop Shadow wizard and click OK.

- 1 On the Object menu, click Drop Shadow. The Drop Shadow dialog box opens.
- 2 In the X Offset box, type **-5**.

- 3** In the Y Offset box, type **5**.



- 4** Click Finish. Image creates the drop shadow, and groups the object and the shadow.



The drop shadow added to the palette object

Moving the Palette behind the Text Object

You need to send the palette behind the Annual Report 1997 text using the Object Manager's layering functions.

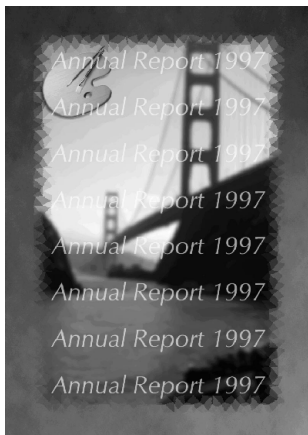


Tip

You can also layer objects using the Object menu. On the Object menu, point to Order, and click on the layering function you want.



- Click the Send Backward button on the Object Manager dialog box.



The palette object on a layer behind the text object

Adding the Camera to the Image


You will now add the camera object to the image using the same tools and functions you used to add the palette. You will also scale the object using the transform tool.

To add the camera to the image

- 1 Click the thumbnail named Camera in the ClipboardBrowser.
- 2 Press and hold the left mouse button and drag the object onto the annual report cover.
- 3 Move the object to the lower left corner of the annual report, so the bounding box covers the sixth and seventh lines of text starting after the capital As.
- 4 Release the mouse button. Image displays the object.
- 5 Point to the lower right handle of the floating object. The pointer should display as a two-headed arrow.
- 6 Press and hold the left mouse button and drag the handle toward the top left corner. The Status bar displays the percentage at which you are scaling the object. Scale to approximately 55%.
- 7 Double-click to leave the transform mode.

To rotate the camera and add a drop shadow

- 1 On the Object menu, point to Rotate, and click Arbitrary Angle.
- 2 In the Angle box, type **20**.
- 3 Click the Counterclockwise button.
- 4 Select the Use SmartSizing check box.
- 5 Click Rotate. Image rotates the camera object 20 degrees in a counterclockwise direction.

- 6** On the Object menu, click Drop Shadow. The Drop Shadow dialog box opens.
- 7** In the X Offset box, type **-5**.
- 8** In the Y Offset box, type **5**.
- 9** Click Finish. Image creates the drop shadow, and groups the object and the shadow.
-  **10** Click the Send Backward button on the Object Manager dialog box to position the camera object behind the text object.



The camera object on a layer behind the text object

Adding the Paint Can to the Image

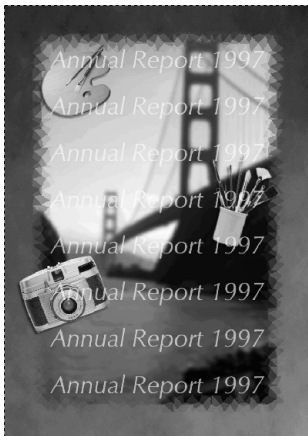
You are now going to add a paint can object to the image using the same tools and functions you used to add the palette and the camera.

To add the paint can to the image

- 1 Click the thumbnail named Paint Can in the ClipboardBrowser.
- 2 Press and hold the left mouse button and drag the object onto the annual report cover.
- 3 Move the object to the middle right side of the annual report, so the bounding box covers the 1997 on the fourth line of text.
- 4 Release the mouse button. Image displays the object.
- 5 Double-click to leave the transform mode.
- 6 On the Object menu, point to Rotate, and click Arbitrary Angle.
- 7 In the Angle box, type **15**.
- 8 Click the Clockwise button.
- 9 Select the Use SmartSizing check box.
- 10 Click Rotate. Image rotates the paint can object 15 degrees in a clockwise direction.
- 11 On the Object menu, click Drop Shadow. The Drop Shadow dialog box opens.
- 12 In the X Offset box, type **-5**.
- 13 In the Y Offset box, type **5**.
- 14 Click Finish. Image creates the drop shadow, and groups the object and the shadow.




- 15** Click the Send Backward button on the Object Manager dialog box to position the paint can object behind the text object.



The paint can object on a layer behind the text object.

- 16** Close the ClipboardBrowser.
- 17** Click the base image in the Object Manager.

Organizing Your Work with the Command Center

- 1 On the Edit menu, click Command Center. The Command Center dialog box opens.
- 2 In the Commands area, highlight the new commands that have been added after the fourth folder, and then click Group.
- 3 Click the folder to select it.
- 4 Click the name of the folder. The name editing box appears.
- 5 Type **Add Graphic Elements**, and press **ENTER**.
- 6  Click in the Insertion Point column on the same line as the Add Graphic Elements folder to move the Insertion Point next to the open folder. Any new commands added are automatically listed below this folder.
- 7 Close the folder.
- 8 Click OK. The Command Center closes and Image rebuilds the image up to the last command.
- 9 On the File menu, click Save. The PPF Options dialog box opens.
- 10 Click OK.

Creating the Company Logo

The final step in completing the annual report cover is to create the company logo for the GrafX Design Group. Once you have created the company logo, you can add it to the annual report image to finish the report cover.

This tutorial introduces some very sophisticated techniques you can use to help make Image your only high-end image editing application. Although it may take you longer to complete this tutorial, it is well worth spending the time to realize Image's power.

In this tutorial you will learn to:

- Use the Texture Fill tool
- Create complex masks
- Load and save masks
- Change contrast and brightness
- Create embossed text
- Use the Button Maker wizard

Before you begin...

You can close the file Annual Report.ppf before beginning this tutorial. You will open the file later in this section. If you are starting the annual report project from this section, you will need to copy the file Ar5.ppf from the Tutorial folder on the root of the Application CD to your local drive at the end of this tutorial.

Creating a New File

- 1** On the File menu, click New. The New Image dialog box opens.
- 2** In the Image Type list, click RGB Color. Change the image size to 2.3 inches wide by 2 inches high, and set the resolution to 150 ppi.
- 3** Click Create. Image creates a blank image.

Applying a Texture Fill

The first step in creating the company logo is to fill the new image with a texture. Use the Texture Fill tool to apply a pattern to your image. Textures can be selected from a texture library, or you can add your own.

Textures are bitmap images that can be added to your image. Textures can improve your image by adding depth or variety. A common use of textures is background effects. In this example, you will add a wood texture for the background.

Each texture is stored and used as a square tile. These tiles are laid side by side as you add the texture. In some textures, like velvet or crushed paper, the “seam” between the tiles may not be noticeable; other textures, like a mountain scene, may produce detectable seams.



- 1 In the Main toolbar, click the Fill tool and click the Texture Fill tool.
- 2 Click the Texture button in the ribbon.
- 3 Drag the scroll box and choose Lite Wood from the list of textures.
- 4 Point to the blank image and click. Image fills the image with the Lite Wood texture.



The Lite Wood texture applied to the new image

Applying a Dark Wood Texture to the Image

You need to add a second texture to the Lite Wood background. However, before you add this new texture, you must mask off the area to which you will add the texture fill.

To mask off the area



- 1 In the Main toolbar, click the Mask tool and click the Shape Mask tool.
- 2 In the Method list on the ribbon, click Constrain Size.



Note

Constrain Size lets you choose the size of the mask rectangle.

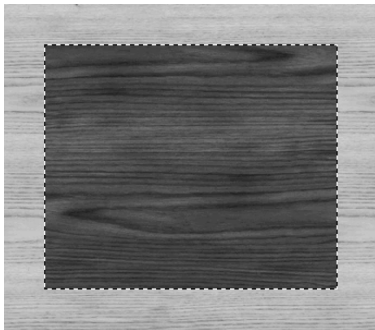
- 3 In the Width box, type **1.8**.
- 4 In the Height box, type **1.5**.
- 5 In the Units box, select Inches.
- 6 Move the pointer over the image.
- 7 Press and hold the left mouse button to display the mask rectangle.
- 8 Center the mask rectangle in the image.
- 9 When the rectangle is in the location you want, release the left mouse button to draw the rectangular mask.

To add the texture fill



- 1 In the Main toolbar, click the Fill tool and click the Texture Fill tool.
- 2 Click the Texture button in the ribbon.
- 3 Drag the scroll box and choose Dark Wood from the list of textures.

- 4 Point to the rectangular mask and click. Image fills the masked area with the Dark Wood texture.



The Dark Wood texture applied to the masked area

Simulating Light Sources—Creating the Mask

The next step is to create a beveled edge between the Lite Wood texture and the Dark Wood texture. To create the beveled edge, you first mask off an area between the Dark Wood and the Lite Wood.

To mask off the area



- 1 In the Main toolbar, click the Mask tool and click the Shape Mask tool.
- 2 In the Method list on the ribbon, click Constrain Size.



Note

Constrain Size lets you choose the size of the mask rectangle.

- 3 In the Width box, type **1.88**.
- 4 In the Height box, type **1.58**.

- 5 In the Units box, select Inches.
- 6 Move the pointer over the image.
- 7 Press and hold the left mouse button to display the mask rectangle.
- 8 Center the mask rectangle so it is equidistant from all sides of the Dark Wood texture.
- 9 When the rectangle is in the location you want, release the left mouse button to draw the rectangular mask.

To subtract an area from the mask

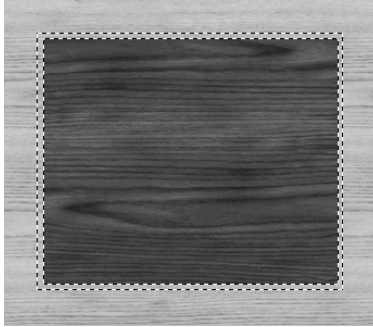
- 1 In the Method list on the ribbon, click Freeform.
- 2 Click Subtractive Mode on the ribbon.



Note

You can draw multiple masks on a single image. The masks can be separate or overlapping. Using the Subtractive mode, a new mask overlapping an existing mask can subtract from the area of the existing mask.

- 3** Mask off the Dark Wood texture. Image creates a narrow masked area between the Dark Wood and the Lite Wood textures.



The mask drawn between the two textures

- 4 On the Mask menu, click Save Mask.



Note

Image lets you save masks and load them at a later time. You may want to save a mask if it is fairly complex; you can save time by using it later. The mask retains its original size and location.

- 5 In the Enter Mask Name box, type **Darkwood/Litewood Texture**.
- 6 Click Save.

Simulating Light Sources—Masking the Shadow Bevel

Now you have masked off the area between the two textures, you need to divide the mask into two masks. You must perform this operation one mask at a time. Once the first mask has been created, you need to use the Contrast/Brightness map to simulate a light source. The simulated light source creates the illusion of beveled edges between the two textures.

To mask the shadow bevel



- 1 In the Main toolbar, click the Mask tool and click the Freehand Mask tool.



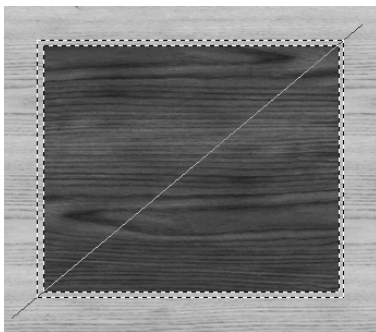
Note

The Freehand Mask tool lets you create a custom mask by manually or automatically tracing an area's outline you want to mask. You can draw a freehand mask one point at a time (by clicking the left mouse button), or you can press and hold the left mouse button while dragging the pointer (as if you were drawing with a pencil).



- 2 Click Subtractive Mode on the ribbon.

- 3 Click in the lower left corner of the image and point to the upper right corner so the first mask segment diagonally divides the mask and the Dark Wood texture. See the illustration below as a guide.



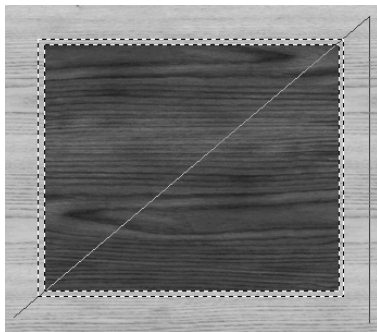
The first mask segment dividing the mask and the Dark Wood texture.



Tip

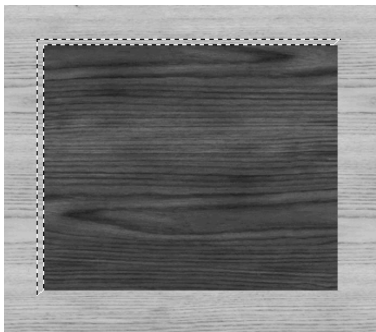
If you make a mistake, remove the mask and then load the Darkwood/Litewood Texture mask again.

- 4 Click in the upper right corner after drawing the first mask segment and move point to the lower right corner.



The second mask segment

- 5 Click in the lower right corner after drawing the second mask segment and point back to the starting point.
- 6 Double-click to create the mask.



The mask divided to create shadows

Simulating Light Sources—Creating the Shadow Bevel

Now you have created the first mask, you will use the Contrast/Brightness map to simulate a shadow. This shadow creates the first two beveled edges (the top and left).

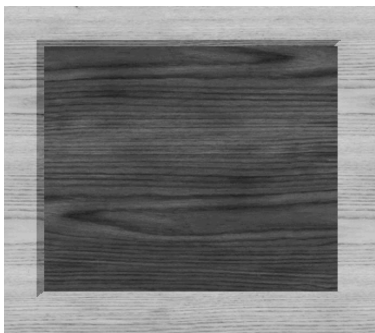
The Contrast/Brightness command lets you control the contrast and brightness of an image. You can either enter values directly or move a joystick. As you move the joystick, the contrast and brightness numeric values change automatically.

Contrast is the difference between the lightest and darkest areas of an image. When you increase or decrease contrast, you raise or lower the differences between light and dark colors in an image. For light colors, you add or subtract the amount of white in the color. For dark colors, you add or subtract black.

Brightness is the overall amount of lightness and darkness of an image. When you increase or decrease brightness, you raise or lower the overall tone of the image. This means you add lightness or darkness to all colors in the image.

To create the shadow bevel

- 1 On the Map menu, point to Contrast/Brightness and click Joystick.
- 2 In the Contrast box, type **23**.
- 3 In the Brightness box, type **-33**.
- 4 Click OK. Image darkens the masked area.
- 5 On the Mask menu, click Remove Mask.



The first two “beveled edges” on the top and left

**Tip**

You can also press **CTRL+R** to remove a mask.

Simulating Light Sources—Masking the Highlight Bevel

You create the remaining two beveled edges by loading the previously saved mask and then using the Contrast/Brightness map to simulate highlights.

To mask the highlight bevel

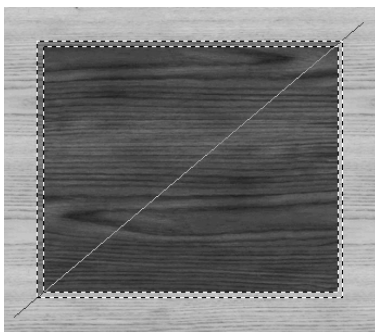
- 1 On the Mask menu, click Load Mask.



— Tip —

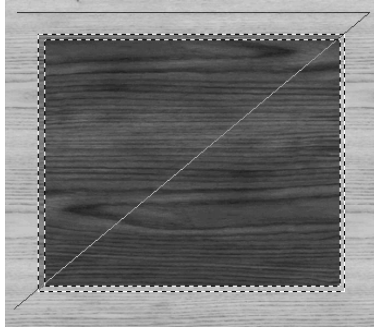
You can also press **CTRL+SHIFT+L** to load a mask.

- 2 In the Select Mask Name list, click Darkwood/Litewood Texture.
- 3 Click Load.
- 4 In the Main toolbar, click the Mask tool and click the Freehand Mask tool.
- 5 Click Subtractive Mode on the ribbon.
- 6 Click in the lower left corner of the image and point to the upper right corner so the first mask segment diagonally divides the mask and the Dark Wood texture. See the illustration below as a guide.



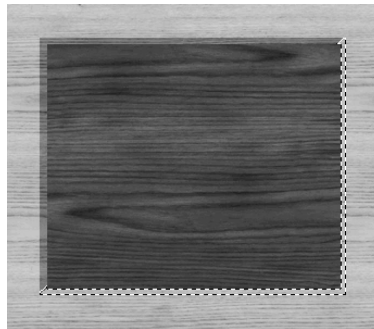
The first mask segment dividing the mask and the Dark Wood texture.

- 7 Click in the upper right corner after drawing the first mask segment and point to the upper left corner.



The second mask segment

- 8 Click in the upper left corner after drawing the second mask segment and point back to the starting point.
- 9 Double-click to create the mask.



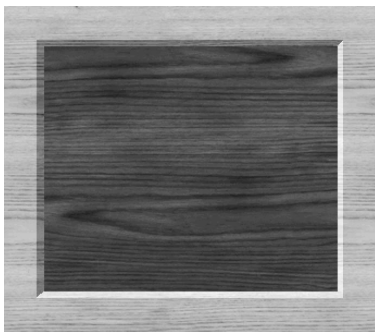
The mask divided to create highlights

Simulating Light Sources—Creating the Highlight Bevel

Now you have created the second mask, you will use the Contrast/Brightness map to simulate a highlight. This highlight creates the second two beveled edges (the bottom and right), and completes the beveled edges.

To create the highlight bevel

- 1 On the Map menu, point to Contrast/Brightness, and click Joystick.
- 2 In the Contrast box, type **-21**.
- 3 In the Brightness box, type **23**.
- 4 Click OK. Image lightens the masked area.
- 5 On the Mask menu, click Remove Mask.



The second two “beveled edges” on the bottom and right

Adding the Logo Text



- 1 In the Main toolbar, click the Text tool.
- 2 In the Font list on the ribbon, click Serpentine.
- 3 In the Points box, type **26**.



- 4 Click the Italic button in the ribbon to deselect the italic option, if necessary.
- 5 Click the Center Justify button in the ribbon.

6 Move the pointer over the image and click once. Image gives you an insertion point where you can start typing. It does not matter where you place the insertion point; you can manipulate the text after typing it.

7 Type **Grafx**, press **ENTER**, type **Design**, press **ENTER**, and type **Group**.

8 Double-click the mouse to create a floating object from the text.



- 9 Click the Selector tool in the Main toolbar.
- 10 Center the text in the Dark Wood texture.



The text properly centered on the image

Creating Embossed Text

The next step in creating the company logo is to make the text appear to be embossed. Although this is a detailed procedure, the finished results are well worth the effort.

During this procedure, you will spend the majority of your time in the mask channel. When you are working in the mask channel, the black area is fully protected, and the white area is not protected. Changes you make in the mask channel only affect the white areas. The black area protects the base image from changes you make to the floating object.

When working with the mask channel, you cannot see the base image unless you click the Ruby Overlay button in the Image Tools toolbar. Whatever you draw or place into the mask channel becomes a mask on the image.



To create a mask from the text object

- 1 On the Mask menu, click Create Mask from Object.



Note

You can create a mask from a selected object or a group of objects. Although you are creating a mask from the object, the object still remains. In this case, you will need to delete the object after creating the mask.



- 2 Click the Delete Objects button on the Object Manager dialog box.
- 3 On the Mask menu, click Save Mask.
- 4 In the Enter Mask Name box, type **Logo**.
- 5 Click Save.



- 6 Click the Mask Channel button in the Image Tools toolbar.



The Mask Channel of the image

To apply effects to the mask channel

- 1 On the Effects menu, click EffectsBrowser.
- 2 Select Gaussian Blur from the list of Distortion effects.



Note

The Gaussian Blur effect blurs an image by an adjustable amount. This is a photographic technique used by image editing professionals to simulate equalized blur or diffusion.

- 3 Move the Power slider to 4.



Note

The higher the power, the stronger the blur.

- 4 Click Apply.

- 5 Select Emboss from the list of Texture effects.



Note

The Emboss effect creates the impression of stamping the contours of the image into a flat surface. You can accept the default setting for the Emboss effect.

- 6 Click Apply.
- 7 Click OK.



The Gaussian Blur and Emboss effects applied on the Mask Channel

To adjust the tone balance for lightness

- 1 On the Edit menu, click Copy.

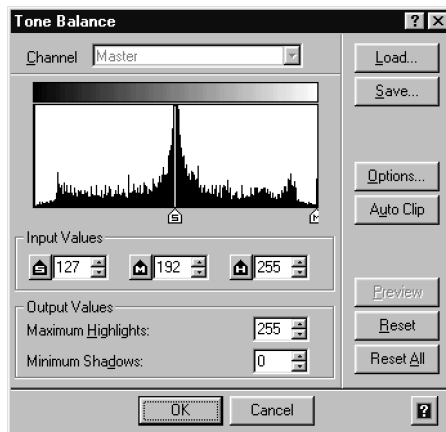
- 2 On the Map menu, click Tone Balance.



Note

The Tone Balance command lets you balance the tonal range of an image. This usually improves contrast and midtone detail. For example, suppose the darkest tone of an image is 79 percent black, and that is where your darkest shadow should be. You can use this command to make that tonal area 100 percent black.

- 3 Change the Input Values so the shadow value is **127**; the midtone value is **192**; and the highlight value is **255**.



- 4 Click OK.
- 5 Click the Mask Channel button in the Image Tools toolbar.
- 6 Make sure White is the Active Color in the Color Swatch.
- 7 In the Main toolbar, click the Fill tool and click the Tint Fill tool.



- 8 Point to the center of the image and click to fill the masked area.



Note

Because you adjusted the tone balance, the mask doesn't appear in image channel. If your image does not look like the graphic below, adjust the pointer and click again.



The logo after filling the mask with pure white



- 9 Click the Mask Channel button in the Image Tools toolbar to return to the mask channel.
- 10 On the Edit menu, click Paste. Image pastes the copy of the image you made before adjusting the tone balance.

To adjust the tone balance for darkness

- 1 On the Map menu, click Tone Balance.
- 2 Change the Input Values so the shadow value is **0**; the midtone value is **64**; and the highlight value is **127**.
- 3 Click OK.

- 4 On the Image menu, click Invert.



Note

Image lets you invert colors in an image to their complimentary or opposite colors. You can use this as a special effect to change images. The inverted image resembles a negative of a photocopy.



- 5 Click the Mask Channel button in the Image Tools toolbar to return to the Image Channel.
- 6 Make sure Black is the Active Color in the Color Swatch.
- 7 In the Main toolbar, click the Fill tool and click the Tint Fill tool.
- 8 Point to the center of the image and click to fill the masked area.
- 9 On the Mask menu, click Remove Mask.



The logo after filling the mask with Pure Black

To add the Litewood texture to the text

- 1 On the Mask menu, click Load Mask.
- 2 In the Select Mask Name list, click Logo.
- 3 Click Load. Image loads the previously saved mask of the logo.



- 4 In the Main toolbar, click the Fill tool and click the Texture Fill tool.
- 5 Click the Texture button in the ribbon.
- 6 Choose Litewood from the list of textures.
- 7 Point to the masked area and click the left mouse button. Image fills the mask with the Litewood texture.
- 8 On the Mask menu, click Remove Mask.



The embossed logo text

Creating Beveled Edges on the Image

The final step in making the corporate logo is also the easiest. You have already created beveled edges manually. This next step automates that process using Image's Button Maker.

- 1 On the Tools menu, click Wizard Browser.

- 2 Double-click the Button Maker wizard icon.



Note

The Button Maker wizard creates square or round buttons to be used primarily on Internet Web pages. However, you can use this wizard for non-Internet purposes. In this case, you are going to use the wizard to finish off the logo with a 3D look.

- 3 Click Next.
- 4 Click Square Image from the list.
- 5 Click Next.
- 6 Accept the defaults by clicking Next.
- 7 Click Original image resolution.
- 8 Click to clear the Create New Image check box.
- 9 Click Finish. Image creates the beveled edges for the entire image.



The finished company logo

Adding the Logo to the Annual Report Cover

Now you're ready to finish the annual report cover by adding the logo to the image.

- 1 On the File menu, click Annual Report.ppf from the recent file list.



Note

If you are starting the annual report project from this section, you can copy the file Ar5.ppf from the Tutorial folder on the root of the Application CD to your local drive.

- 2 Select the company logo image, and on the Edit menu, click Copy.
- 3 Select the annual report image, and on the Edit menu, click Paste.
- 4 Position the company logo in the lower right corner of the image.
- 5 Double-click to leave the Transform mode.
- 6 On the Object menu, point to Combine, and click All Objects With Base.
- 7 On the Image menu, click Expand. The Expand Image dialog box opens.

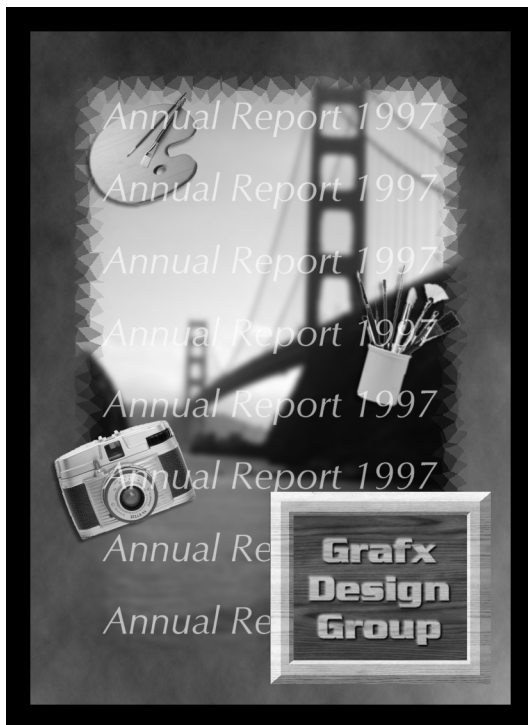


Note

Image lets you create an expanded copy of an image without changing the original image. For example, if you want to draw a black border around an image, you select a black background color, then expand the image area.

- 8 In the Left, Right, Top, and Bottom boxes, type **.25**.
- 9 Click the Color button. The Color Picker dialog box displays.
- 10 Click Black.
- 11 Click OK.

12 Click Expand.



The finished annual report cover

Organizing Your Work with the Command Center

- 1** On the Edit menu, click Command Center. The Command Center dialog box opens.
- 2** In the Commands area, highlight the new commands that have been added after the fifth folder, and then click Group.
- 3** Click the folder to select it.

4 Click the name of the folder. The name editing box appears.

5 Type **Add Company Logo**, and press **ENTER**.



6 Click in the Insertion Point column on the same line as the Add Company Logo folder to move the Insertion Point next to the open folder. Any new commands added are automatically listed below this folder.

7 Close the folder.

8 Click OK. The Command Center closes and Image rebuilds the image up to the last command.

9 On the File menu, click Save. The PPF Options dialog box opens.

10 Click OK.

Making Changes Using the Command Center

Although you have finished the annual report cover, there is still the chance that someone (your client, your boss, your co-workers) will offer advice on how to change the image to make it look better. In some cases, you won't have to make any changes, but in the case of a client not liking the finished product, you won't have much choice. You'll have to make the change.

This tutorial introduces you to making changes using the Command Center. When you need to make a change, you must first identify the command or commands that were used originally. When you have located the command or commands of interest, you can edit the command list. You can rearrange commands, delete unwanted commands, enable or disable commands, change the properties of commands, insert new commands, organize commands in folders, nest folders of commands in other folders, and create branches to alternative commands or folders of commands.

This tutorial will show you how to change the color of the background gradient fill and change fonts without having to start the image from the beginning.

In this tutorial you will learn to:

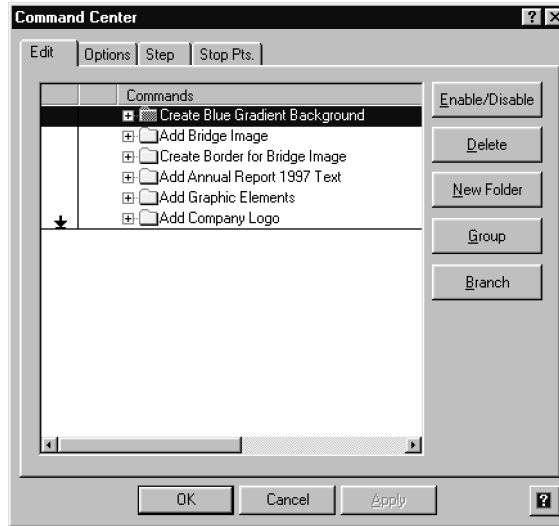
- Identify commands in the Command Center
- Modify a command
- Rebuild the command list

Before you begin...

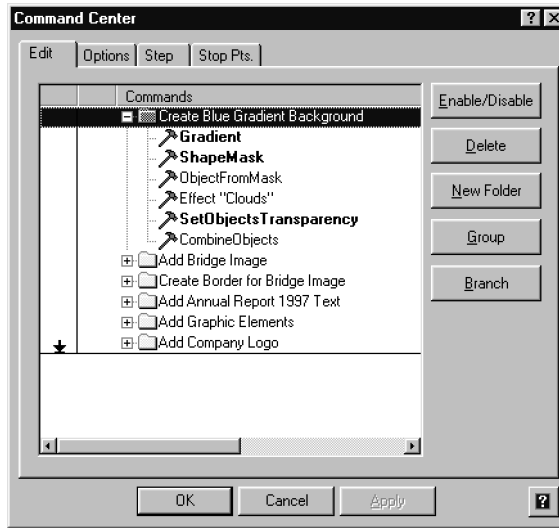
Make sure the file Annual Report.ppf is opened in Image. If you are starting the annual report project from this section, copy the file Arfinal.ppf from the Tutorial folder on the Application CD to your local drive.

Identifying the Commands in the Command Center

- 1 On the Edit menu, click Command Center. The Command Center dialog box opens.



- 2 Open the Create Blue Gradient Background folder.



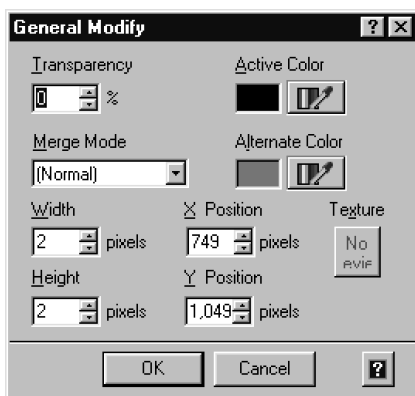
Modifying the Command

- 1 Double-click the Gradient command. The General Modify dialog box opens.



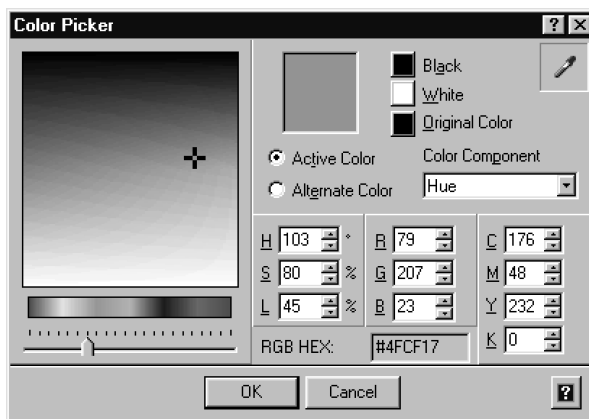
Note

This command contains the starting and ending colors for the gradient.



- 2 Click the Alternate Color button. The Color Picker dialog box opens.

- 3 Enter the following RGB values: **R-79**; **G-207**; **B-23**.

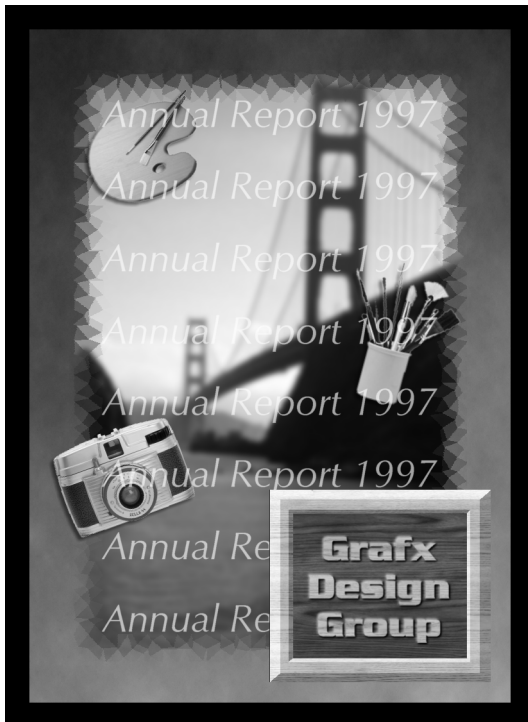


- 4 Click OK. The Color Picker dialog box closes, and the new Alternate Color displays in the General Modify dialog box.

Rebuilding the Command List

- 1 Click OK. The General Modify dialog box closes.

- 2 Click OK. The Command Center closes and Image rebuilds the image up to the last command.

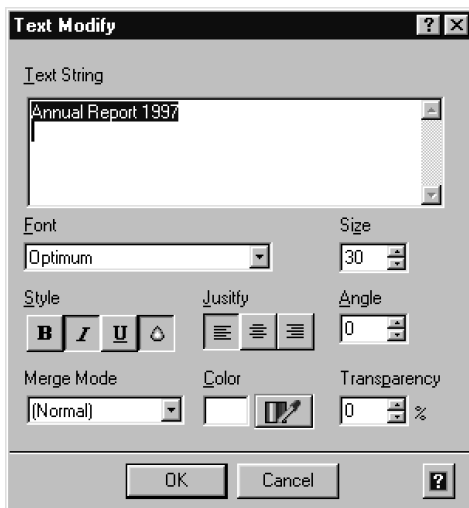


The modified annual report cover

Changing Font Information

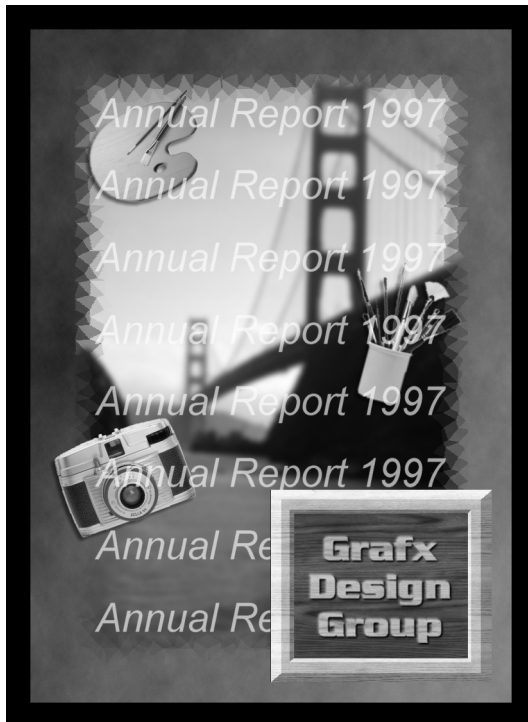
If you are pleased with the new gradient fill color, you can change the font for the Annual Report 1997 text. The steps for changing font information are essentially the same as for changing the gradient fill color.

- 1 On the Edit menu, click Command Center. The Command Center dialog box opens.
- 2 Open the Add Annual Report 1997 Text folder.
- 3 Double-click the Text "Optimum" command. The Text Modify dialog box opens.



- 4 In the Font list, click Arial.
- 5 Click OK. The Text Modify dialog box closes.

- 6 Click OK. The Command Center closes and Image rebuilds the image up to the last command.



The modified annual report cover

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iGrafx Image 1

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