

**BME.EFF**

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<b>COLLABORATORS</b>
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## Chapter 1

# BME.EFF

### 1.1 Menus: Effects

Effects:

Convert...		Converts the picture to another type and depth.
Palette	»	
Edit...		Edit the palette of a palette picture.
Remap		Remap the palette of a palette picture.
Clone		Open a window with a copy of the selected area.
Crop		Crop the picture to the selected area.
Fill		Fill the selected area.
Flip	»	
Horizontal		Flip the selected area or picture horizontally.
Vertical		Flip the selected area or picture vertically.
Resize...		Change the size of the area or picture.
Rotate	»	
90\textdegree{} Clockwise		Rotate the area or picture 90\textdegree{} ↶
clockwise.		
90\textdegree{} Counterclockwise		Rotate the area or picture 90\textdegree{} ↷
counterclockwise.		
180\textdegree{} ↶		Rotate the area or picture 180\textdegree{}.
Brightness		Change the brightness of the area or picture.
Contrast		Change the contrast of the area or picture.
Emboss		Make an embossed version of the area or picture.
Negative		Make a negative of the area or picture.
Pixelize		Pixelize the area or picture.
Reduce Noise		Eliminate stray pixels in the area or picture.
Sharpen		Sharpen the area or picture.
Tiles		Just for fun.
Trace		Create an IFF DR2D drawing of the picture.

### 1.2 Effects/ Convert...

Effects/ Convert...

This command changes the picture type and depth. When you choose the Convert command, the Convert requester will open.

Convert	Description
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Type	Choose the picture type.
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Depth	Choose the bitplane depth.
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### 1.3 Effects/ Palette »

Effects/ Palette »

The commands in this submenu allow you to edit the colors of palette pictures, and to remap the colors.

CMYK and RGB pictures are true color systems, because you define each color used. Palette pictures are different because they use a specified number of colors selected from a true color system. Colors are referred to by number instead of by their color components.

Note: Black&white and grayscale pictures have fixed colors; you cannot redefine black and white or change the intensity of grayscales, so you cannot edit their colors like you can for other picture types.

Effects/ Palette » Edit...

When you choose the Palette » Edit command, the Edit Palette requester will open.

Edit Palette	Description
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P	Drag the slider to choose the color to edit.
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Color boxes	Click on the color to edit.
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Copy	Click to copy the selected color to another color. After clicking on Copy, click on the color box to copy to.
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Swap	Click to swap the selected color with another color. After clicking on Swap, click on the color box to swap with.
------	---

Load	Click to load a color palette file. BME can load color palettes from an IFF ILBM picture or palette file, such as those created by Deluxe Paint and Brilliance.
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Save	Click to save a color palette file.
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R	Drag to change the Red component of the color.
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G	Drag to change the Green component of the color.
---	--

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B                      Drag to change the Blue component of the color.

Effects/ Palette » Remap

If you change the colors of the palette with the Palette » Edit command, you may want to restore the appearance of your picture. The Remap option restores the colors used in the picture by examining the palette to find the colors that most closely match the original colors of the picture. When you choose the Palette » Remap command, the picture's pixels will be remapped to the colors in the current palette that best represent their original values.

## 1.4 Effects/ Clone

Effects/ Clone

This command copies the selected area to a new picture window.

## 1.5 Effects/ Crop

Effects/ Crop

This command crops the picture to the selected area; portions of the picture outside of the selected area will be deleted.

## 1.6 Effects/ Fill

Effects/ Fill

This command fills the selected area. This is similar to drawing a filled box in a paint program and is a good way to clear part of a picture.

When you choose the Fill command, the selected area will be filled with the foreground color. Hold down a Shift key when choosing the command to fill the area with the background color.

## 1.7 Effects/ Flip

Effects/ Flip

The commands in this submenu flip the selected area or picture horizontally or vertically, as applicable.

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## 1.8 Effects/ Resize

### Effects/ Resize

This command allows you to resize a picture or selected area. When you choose the Resize command, the Resize requester will open.

Resize	Description
Size	Enter the width and height of the picture or area in pixels into the first set of text gadgets. If an area is selected, the size of the area will be shown; otherwise, the size of the picture will be shown. The second set of text gadgets allows you to change the size as a percent of the current size. The non-editable gadgets at the right show the current size.
Existing Image	Choose Scale to Fit to scale the area or picture to fit the new size. Choose one of the other options to size the picture to the new size without scaling. When you enlarge a picture or area, you can choose whether to place the existing image in a corner of the new picture or area, or in its center. When you reduce the size of a picture or area, the same placement options will crop the existing picture or area.
Resolution	Enter the resolution of the picture in dots per inch. NTSC standard is 65x55; PAL standard is 65x70.

## 1.9 Effects/ Rotate

### Effects/ Rotate

The commands in this submenu rotate the selected area in 90\textdegree{} increments. ←

## 1.10 Effects/ Brightness

### Effects/ Brightness

This command brightens or darkens the picture or selected area. When you choose the Brightness command, the Effect Options requester will open.

Note: You cannot change the brightness of a black&white or palette picture.

Brightness Options	Description
Adjust	Drag the slider to set how much to change the brightness.



## 1.11 Effects/ Contrast

### Effects/ Contrast

This command increases or reduces the contrast of the picture or selected area. When you choose the Contrast command, the Effect Options requester will open.

Note: You cannot change the contrast of a black&white or palette picture.

Contrast Options	Description
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Adjust	Drag the slider to set how much to change the contrast.
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## 1.12 Effects/ Emboss

### Effects/ Emboss

When you choose this command, BME will make an embossed version of the selected area or picture. Embossing makes the subject of a picture stand out in relief against the background of the picture.

Note: You cannot emboss a palette or black&white picture. Embossing works best on RGB and grayscale pictures.

## 1.13 Effects/ Negative

### Effects/ Negative

When you choose this command, BME will invert the colors of the selected area or picture. This is most useful in grayscale and black&white pictures, although you can make any picture a negative except palette pictures.

## 1.14 Effects/ Pixelize

### Effects/ Pixelize

This command breaks up a picture into blocks of pixels to make the picture or selected area jaggier. When you choose the Pixelize command, the Effect Options requester will open.

Pixelizing is done by setting the number of pixels in a cell (block) to change to a single color. You can set how the color for the cell is chosen, and the size of the cell.

Pixelize Options	Description
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Color	Choose how the color of the cell is determined. Average
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uses the average of all the colors in the cell. Center uses the color of the pixel in the center of the cell. Maximum uses the maximum color value in the cell. Minimum uses the minimum color value in the cell. Random picks a random color from the cell's pixels. Upper left uses the color of the pixel at the upper left corner of the cell.

Cell Size                      Drag the slider to set the cell size.

## 1.15 Effects/ Reduce Noise

Effects/ Reduce Noise

This command eliminates stray pixels that are not part of the picture. It is most useful for cleaning up scanned pictures. Noise reduction removes clusters of pixels below a specified size.

Ensure that you do not set the number of pixels to eliminate larger than important picture data.

When you choose the Reduce Noise command, the Effect Options requester will open.

Reduce Noise    Description

Noise size                      Drag the slider to set the maximum number of pixels in a cluster to remove.

## 1.16 Effects/ Sharpen

Effects/ Sharpen

When you choose this command, BME will sharpen the selected area or picture. Sharpening increases the distinction between contrasting pixels.

Note: You cannot sharpen a palette or black&white picture.

## 1.17 Effects/ Tiles

Effects/ Tiles

This effect filter doesn't do anything very useful and is just for fun.

## 1.18 Effects/ Trace

## Effects/ Trace

This command converts the picture or selected area to a vector drawing. When you choose the Trace command, the Effect Options requester will open.

### Trace Options    Description

**Sample Rate**      Choose Find for pictures that use very few pixels to show a curve and Coarse for high resolution pictures. Choose Normal for most other pictures.

**Precision**        Choose Tight for fast tracing with many short curves. Choose Loose for slower tracing with fewer, longer curves. Choose Normal for most pictures.

**Lines only**        Check to create drawings composed of lines only. Use this option for drawings that shouldn't have curves to avoid tracing errors.

**Ignore detail**    Drag the slider to set the amount of detail to ignore. Unlike the Reduce Noise command, this option does not change the picture. It has no effect on pictures without small isolated objects and is most useful to skip small marks in scanned sketches.

**Ignore color**     Choose a color not to trace, if desired. You can choose to ignore the background, lightest, darkest or most common color.

When you click on Perform, the Trace effect filter will create an IFF DR2D drawing. A file requester will open to enter the filename and path of the drawing to save.

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