

Cachet™

Color Editor

File Types and Formats

| File Type | Supported Formats | Description |
|-------------------------------|--|--|
| Image Files | TIFF-RGB PICT Adobe Photoshop RAW-RGB | Files containing data that makes up a digital image. You can open image files for correction or for reference. |
| Color Separation Files | TIFF-CMYK EPS DCS Raw-RGB Raw-CMYK | Files created with the Save Separations command in the File menu. These files can be used to produce color composite proofs on a color printer or color separation films on an imagesetter. Generally, you import these files into a page layout or other application before printing or producing films |
| Script Files | N/A | Files you create with the Save Script command on the Playback menu. |
| Halftone Setup Files | N/A | Files you create when you click the Save button in the dialog box that appears when you click the Halftone button in the Print or Save Separations dialog box. |

Calculating Optimum Scanning Resolution

1. Determine:

Width of original slide or negative
Width at which you plan to print final image
Resolution you plan to use for final output

2. Calculate printing resolution:

Printing resolution = 2 x halftone screen size (for halftone devices)
Printing resolution = device resolution (for continuous tone devices)

3. Calculate scaling factor:

Scaling factor = $\frac{\text{Width when printed}}{\text{Width of slide}}$

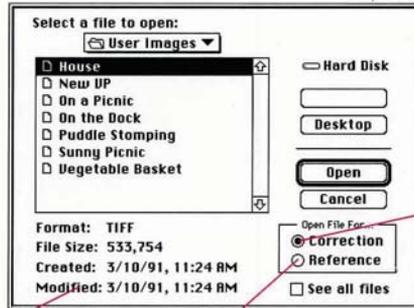
4. Calculate optimum scanning resolution

Optimum scanning resolution = Printing resolution x Scaling factor

Quick Reference card

Opening Files

Choose **Open** from the File menu to open an image in TIFF-RGB, PICT, Raw-RGB, or Adobe Photoshop format.

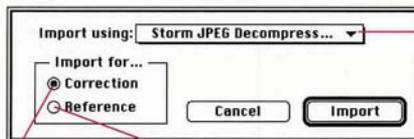


Cachet displays information about the selected file here.

To open the file as a reference image.

To open the file as the working image.

Choose **Import** from the File menu to open an image that has been compressed using a plug-in module.



To open the compressed image file as the working image.

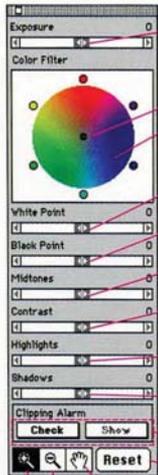
To open the compressed image as the reference image.

Choose the plug-in module with which the image file was originally compressed.

Exposure And Tone Palette

Use the Exposure & Tone palette to correct exposure problems and to adjust the overall tone of the working image.

| Image | |
|----------------------|----|
| ✓ Exposure & Tone ⌘1 | |
| Color | ⌘2 |
| Selective Color | ⌘3 |
| Orientation | ⌘4 |



Drag to correct exposure problems.

Drag the color indicator or click within the color map to correct color balance problems.

Drag to adjust the point where light tones become white.

Drag to adjust the point where dark tones become black.

Drag to adjust overall brightness in the midtones.

Drag to adjust the the brightness of light tones compared to the brightness of dark tones.

Drag to adjust overall brightness in the highlights.

Drag to adjust overall brightness in the shadows.

Click these buttons to check for tone clipping and show the results.

Click to reset all tools.

Click with one of these tools to zoom in or out.

Drag with the hand to move the image around in the window.

Keyboard Shortcuts

⌘ + click any tool

Resets the tool.

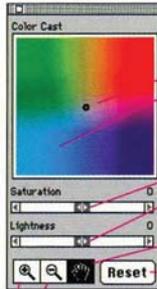
OPTION + zoom tool

Temporarily reverses the effect of the selected zoom tool.

Color Palette

Use the Color palette to change the overall color characteristics of the working image.

| Image | |
|----------------------|----|
| ✓ Exposure & Tone ⌘1 | |
| Color | ⌘2 |
| Selective Color | ⌘3 |
| Orientation | ⌘4 |



Drag the color indicator or click within the color map to change the color cast of the image.

Drag to change the saturation and lightness.

Drag with the hand to move the image around in the window.

Click to reset all tools.

Click with one of these tools to zoom in or out.

Keyboard Shortcuts

⌘ + click any tool

Resets the tool.

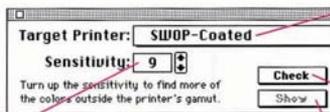
OPTION + zoom tool

Temporarily reverses the effect of the selected zoom tool.

Gamut Alarm

Use the gamut alarm to check for out-of-gamut colors that your printing method cannot reproduce.

| Tools | |
|-----------------|--|
| MultiChoice ⌘M | |
| Step | |
| Layout | |
| Gamut Alarm | |
| Color Meter | |
| PANTONE® Colors | |



Select the printer or printing method you plan to use.

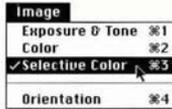
Click Check to analyze the colors in your image.

Adjust the sensitivity of the gamut alarm. At higher settings, the gamut alarm finds more out-of-gamut colors; at lower settings, it finds fewer.

Click Show to highlight the out-of-gamut colors.

Selective Color Palette

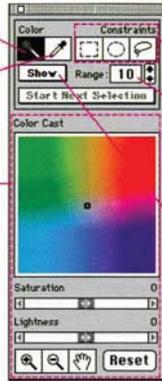
Use the Selective Color palette to change specific colors and to limit color changes to particular areas of the image.



Click and Shift-click with the **wand** to select colors you want to change.

Click with the **dropper** on the color you want to use in place of the colors you selected with the wand.

These tools work the way they do in the Color palette, except they affect only the colors you select and only within the areas you outline with the constraint tools.



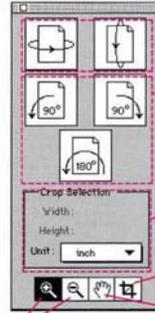
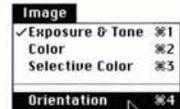
Drag with these tools to outline areas of the image where you want to make selective color changes.

Adjusts the sensitivity of the wand. The higher the setting, the more pixels you select each time you click with the wand.

Highlights the pixels you've selected with the wand.

Orientation Palette

Use the Orientation palette to flip, rotate, and crop the working image.



Click to flip the image.

Click to rotate the image.

Look here to see the dimensions of the area you are cropping with the Crop tool.

Drag with the crop tool to crop the image.

Click with one of these tools to zoom in or out.

Drag with the hand to move the image around in the window.

Keyboard Shortcuts

⌘ + click any tool

Resets the tool.

OPTION + zoom tool

Temporarily reverses the effect of the selected zoom tool.

SHIFT

Highlights pixels already selected with the wand.

SHIFT + click with wand

Adds colors to those already selected with the wand.

SHIFT + constraint tool

Adds to the areas already outlined with constraint tools.

⌘ + constraint tool

Subtracts an area from the areas already outlined with constraint tools.

Keyboard Shortcuts

⌘ + click any tool

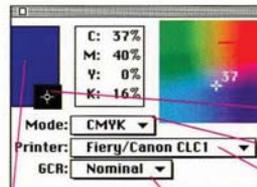
Resets the tool.

OPTION + zoom tool

Temporarily reverses the effect of the selected tool.

Color Meter

Use the color meter to measure precise RGB, CMYK, or CIELAB values for colors in the working image.



The **color map** gives you a picture of the position of the color within the CIELAB color space.

Click the color you want to measure with the color scope.

Click here to choose RGB, CMYK, or CIELAB values.

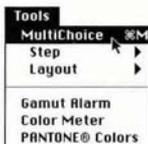
This swatch shows the color under the color scope.

You can set a GCR level if the target printer supports GCR.

For CMYK measurements, select the printer or printing method you plan to use.

MultiChoice

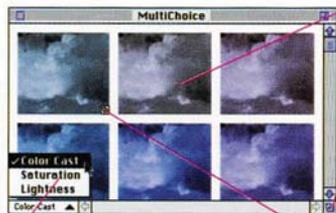
Use the MultiChoice tool to choose from multiple variations of the working image. MultiChoice is available whenever you have opened the Exposure & Tone or Color palettes.



Click one of the MultiChoice images. Cachet changes the working image to match your choice, and the MultiChoice window displays six new variations.

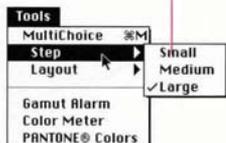
Click and drag here to change the size of the window.

Click and drag here to change the size of the images within the window.

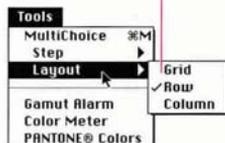


Choose a tool from this pop-up menu.

Changes the step size to increase or decrease the amount of variation among the MultiChoice images.



Changes the arrangement of images in the MultiChoice window.



Pantone Colors

Use the PANTONE Simulated Color Pages to search for specific PANTONE colors and, in combination with the Selective Color Palette, to specify PANTONE colors within an image.



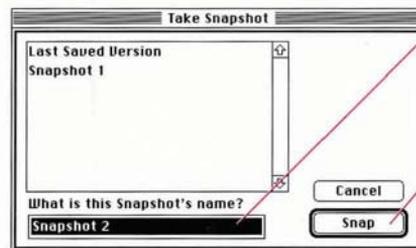
Clicking the image with the search tool to find a set of close PANTONE colors.

Enter a PANTONE color number here, then click the find button.

You can view PANTONE simulated color pages for coated or uncoated papers.

Snapshots

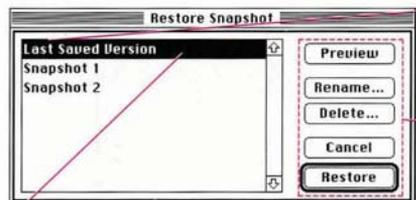
Use the Take Snapshots command to make a temporary record of the current state of the working image.



Cachet automatically numbers snapshots, but you can give them more meaningful names.

Click here to take a snapshot.

Use the Restore Snapshot command to display, rename, delete, or restore snapshots you have previously taken.



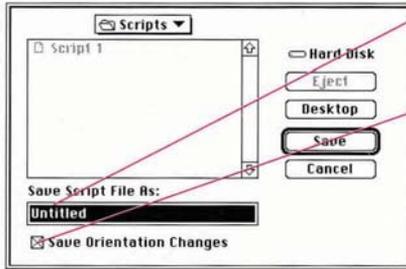
Select the snapshot you want to preview or restore.

Use these buttons to preview, rename, delete, or restore snapshots.

This is a snapshot of the working image when you last saved it.

Scripts

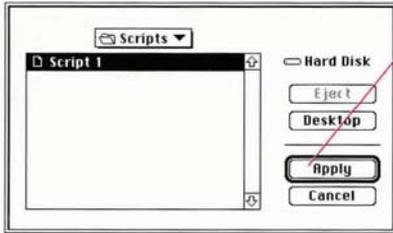
Use the Save Script command to save a script file that contains the changes you've made to the working image since you last saved the image.



Type name for your script file.

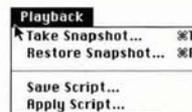
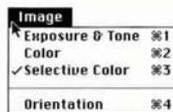
Appears only if the scripts you plan to save contain orientation or constrained selective color changes. Un-check (click) if you do not want these as part of the script you save.

Use the Apply Script command to apply to the working image changes you've previously saved in a script file.



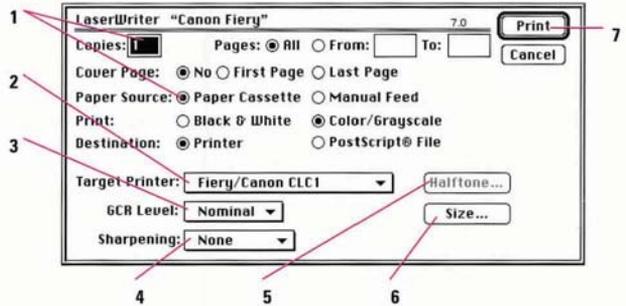
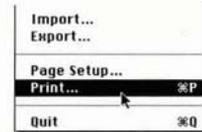
Click here to apply the script.

Menu Shortcuts



Printing: Step by Step

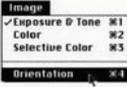
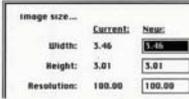
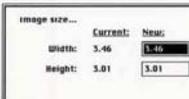
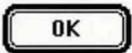
Be sure you have designated the printer you want with the Chooser. Then, choose Print from the File menu.



1. Specify the number of copies and the paper feed.
2. Choose your printer profile from the Target Printer pop-up menu.
3. Optionally, choose a GCR level from the GCR pop-up menu.
4. Optionally, choose a Sharpening level from the Sharpening pop-up menu.

5. Click the Halftone button if you're using a PostScript printer that supports halftoning and you want to change the line frequency, screen angles, or dot shape.
6. Click the Size button if you're using a PostScript printer and you want to change the image size and resolution before printing.
7. Click OK.

Resizing Images: Step by Step

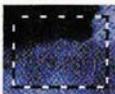
| Method | Step 1 | Step 2 | Step 3 | Step 4 |
|---|--|--|---|---|
| Crop images using the cropping tool | Open the orientation palette.  | Click the cropping tool.  | Outline the area to be cropped.  | Move scissors inside the area and click.  |
| Change dimensions or resolution of image, preserving file size | Choose Resize from the File menu.  | Check the Preserve File Size checkbox.  | Enter width, height, or resolution.  | Click OK.  |
| Resample the image | Choose Resize from the File menu.  | Un-check the Preserve File Size checkbox.  | Enter width or height.  | Click OK.  |



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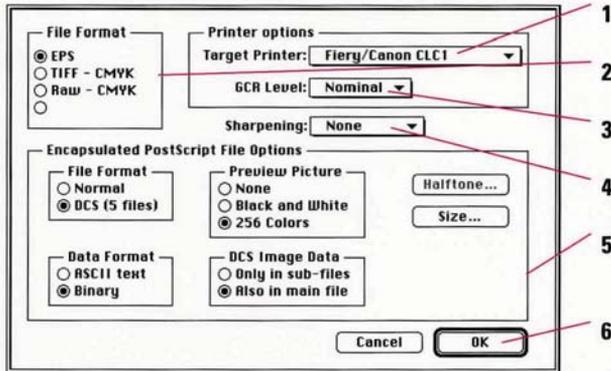
Part Number: 2 00 01 008

Selective Color Correction: Step by Step

| Method | Step 1 | Step 2 | Step 3 | Step 4 |
|---|--|--|---|--|
| Select colors with the wand | Click the wand to select it.  | Click on the first color you want to change.  | Shift-click on additional colors.  | As you select colors, use Show button or Shift key to highlight pixels you've already selected.  |
| Define masks with constraint tools | Click one of the constraint tools.  | Click and drag in the image to outline the area you want to change.  | Add to the area by Shift-dragging. Subtract from the area by ⌘ dragging.  | |
| Matching colors automatically | Select colors and define any marks you need. | Click the dropper tool to select it.  | Click the color you want to match. You can match colors in the reference image or in the working image.  | |
| Changing colors manually | Select colors and define any marks you need. | Use the Color Cast tool to change the color. | Drag the sliders to adjust the saturation or lightness. | |
| Finding a PANTONE color by number. | Choose PANTONE® Colors from the Tools menu.  | Choose Coated or Uncoated, and enter the PANTONE number.  | Click Find  | |
| Finding a PANTONE color visually | Choose PANTONE® Colors from the Tools menu.  | Choose Coated or Uncoated, and then click the Search tool.  | Click the image window, then click the color you want to search for.  | The PANTONE window displays a set of close PANTONE Colors, with the closest one outlined. |
| Specifying a PANTONE color | Select colors and define any marks you need. | Choose PANTONE® Colors from the Tools menu and locate the color you want.  | Click the dropper, then click the PANTONE color you want in the PANTONE window.  | Cachet applies the PANTONE color. |

Creating Color Separations: Step by Step

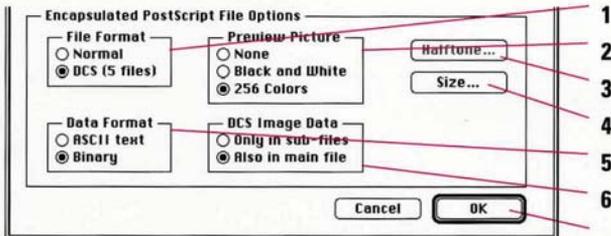
Choose Save Separations from the File menu.



1. Choose your printing method from the Target Printer pop-up menu.
2. Click the file format you want in the File Format box.
3. Optionally, choose a GCR level from the GCR pop-up menu.

4. Optionally, choose a Sharpening level from the Sharpening pop-up menu.
5. Choose the option you want in the bottom half of the dialog box. The options displayed depend on the File Format you choose.
6. Click OK.

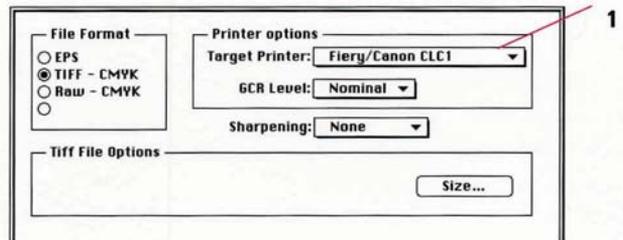
EPS/DCS File Options



1. Choose DCS or normal EPS format.
2. Choose the type of preview picture you want for your page layout application.
3. Click the HalfTone button if you want to change the line frequency, screen angles, or dot shape.

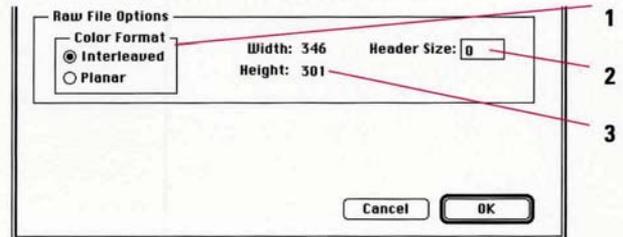
4. Click the size button if you want to change the size and resolution of the color separation files.
5. Choose ASCII for PageMaker® 4.0 or 3.02 Color Extension. Otherwise, choose Binary.
6. Choose "Also in main file" if you want to print color composite proofs on a color printer. Otherwise, choose "Only in sub-files."

TIFF-CMYK File Options



1. Click the size button if you want to change the size and resolution of the color separation file.

Raw-RGB and Raw-CMYK File Options



1. Specify interleaved or planar format.
2. Keep a record of these numbers if you want to open the saved file later.
3. Leave this set to zero unless you want to add a header using another application.