

Image Editing

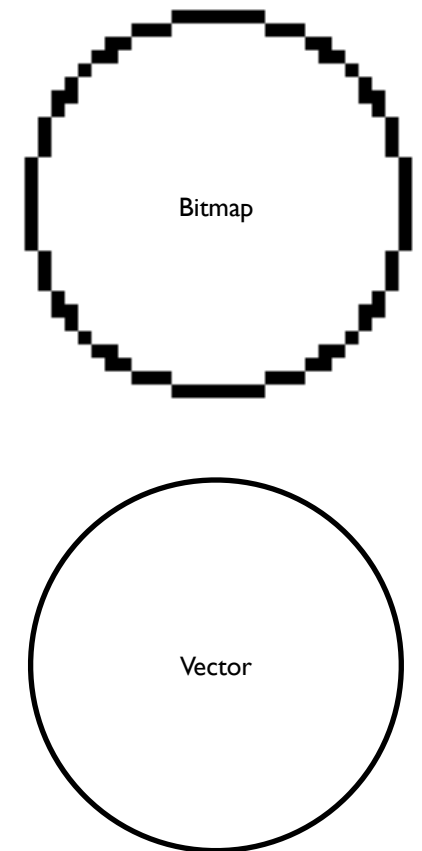
in general and GraphicConverter in particular

From the viewpoint of a self-taught amateur

Bitmap & Vector Images

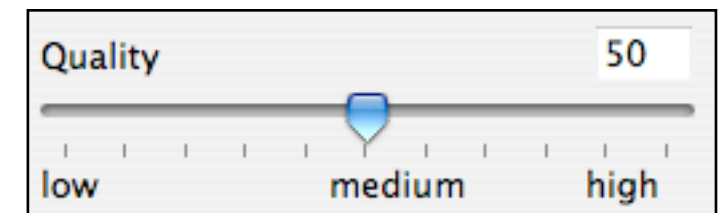
Our focus is **bitmap** - digital cameras & scanners

- Bitmap Images are made of tiny colored pixels
- Vector images (drawings) comprise groups of “mathematical” objects
 - No jaggies when magnified
 - Illustrator, Intaglio, EazyDraw, AWW
 - Fonts are vector objects



Bitmap Formats

- Photoshop (PSD) — supports layers
- TIFF, PICT, BMP — uncompressed, large files
- JPEG, GIF, PNG — compressed, lossy
 - file size versus image quality
- Many less common formats



JPEG Compression



High compression, 4.3 K



Medium compression, 8.2 K



Uncompressed TIFF, 370 K

Where do they come from?

- Digital cameras
- Scanners
- The Internet
- Screen capture (Shift-Cmd-4)
- Painting programs

Common Operations

and some programs

- Download from camera Image Capture, iPhoto, GraphicConverter
- Organize, Rename, Tag, Find iPhoto, GraphicConverter
- Edit iPhoto, Photoshop, GraphicConverter,
- Slide show iPhoto, GraphicConverter, Galerie (HTML)
- Email, upload to web iPhoto, GraphicConverter
- Print iPhoto, Photoshop, GraphicConverter,

Software for serious users \$\$

- Photoshop CS3 (PSD) — \$626 (Amazon)
Comprehensive set of features

- Aperture 1.5 — \$300

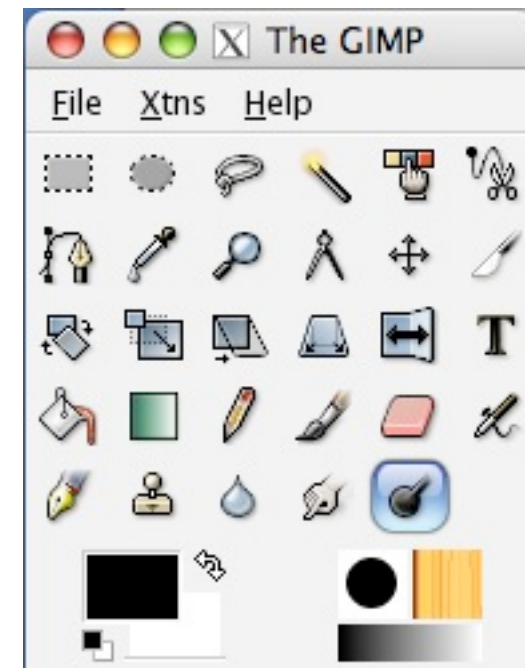
- Adobe Lightroom — \$300

Image management and processing for professional photographers — High-end iPhoto

- Gimp — Free, requires X11

- Supports PSD layers

- Not Mac-like



Software for the casual user

More affordable

- iPhoto — \$80 (iLife bundle) or free
- Preview (limited; Leopard will offer more) — free
- Photoshop Elements 4 — \$79 (Amazon)
- GraphicConverter 6 — \$35 shareware

Photoshop Clones?

I'm underwhelmed

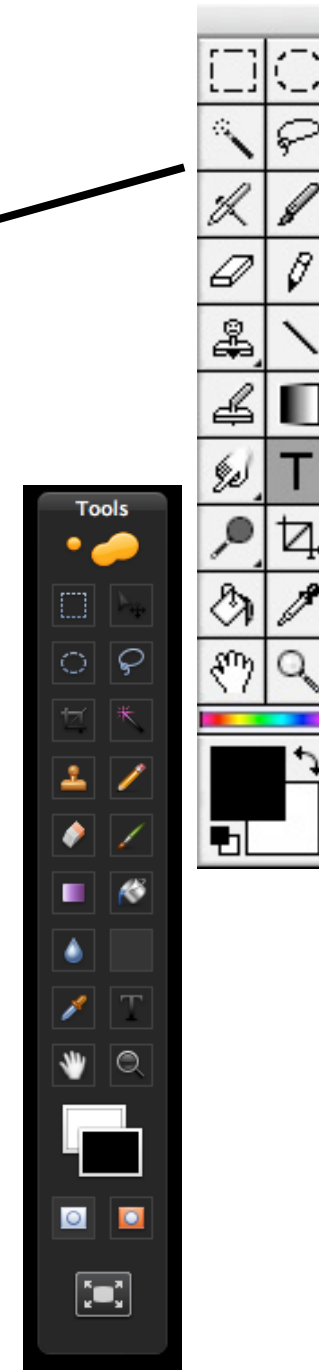
- Compositor — \$35

free trials available

- Pixelmator — \$59

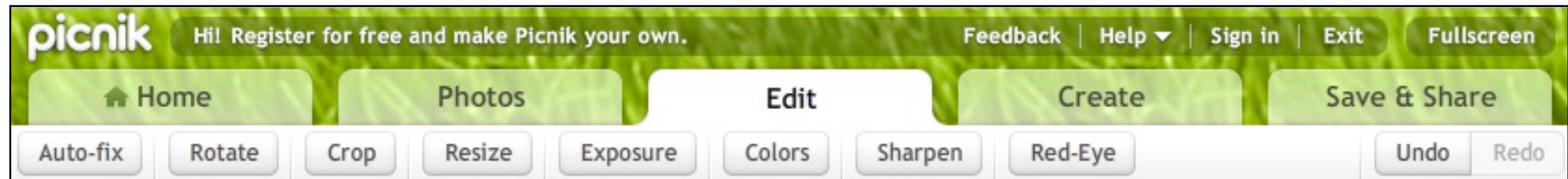
- Live Quartz — Free

Supports PSD Layers; Lots of effects



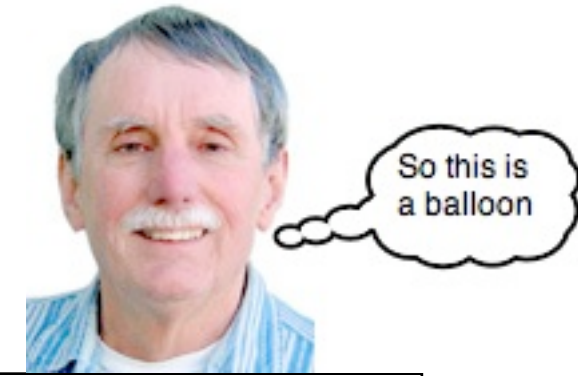
Online Editing — Picnik

A growing trend is on-line applications, e.g. Google spreadsheet, word



- www.picnik.com — edit photos on-line
 - Free. A premium account is \$25/yr
 - Open, edit and save to disk.
 - Open and save to Flickr (photo sharing).
 - Save to many commercial photo sites, Costco, Snapfish etc.

Mini Programs



Quick editing without hauling out the heavy artillery

- EasyCrop & SnapNDrag; free/\$12
- Drag-N-Scale; free — resize files/folders
- ImageWell — Crop, rotate, balloons; free/\$15
- ThumbsUp — make thumbnails; free
- Galerie — HTML slideshows; free
- QuickImage contextual menu; free →



Typical Editing Tasks

- Crop, rotate, unskew, levels
- Resize, change resolution, file type, color depth, quality/compression
- Brightness, contrast, gamma, hue, saturation, sharpness
- Save for web or email

Workflow – Speed

Important when plowing through a lot of pictures

- iPhoto archives and catalogs.
Editing is quick, but limited.
- Aperture and Lightroom archive, catalog & edit images quickly.
- GraphicConverter
 - Express Image Enhancement
 - Image Browser
 - Batch Converter

GraphicConverter



- It's been around for many years
 - Started life as a file converter
 - Opens, saves, converts hundreds of formats
 - It's regularly updated
 - Many image editing functions have been added
 - Supports PSD & other plug-ins



✓ All available

- .D
- 8BIM - Photoshop (2.0)
- AFP (TIFF Variant)
- ALIAS pix
- AMBER ARR
- Analyze .hdr+.img
- ANI - Animated NeoChrome
- Animated Cursor
- Apple Preferred (Ilgs)
- ART - First Publisher
- ASCII
- Atari Portfolio Bitmap
- B3D - Maxon
- BioRad
- BLD (MegaPaint)
- BLP
- BMP/RLE - Windows-, OS/2-Bitmap
- BSB/KAP
- BUM (Poser)
- CALS/CCITT4
- CAM - Casio QV-10/100
- Canon CRW
- CGM - Computer Graphics Metafile
- Chyron Liberty Paint
- CLP - Windows Clipboard
- csource
- CT - Scitex
- CUR
- CVG - Calamus
- CVP
- DCX - Some PCXs
- DDS

GraphicConverter

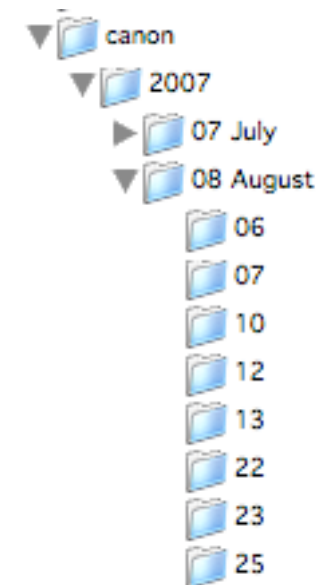


- Compliments Photoshop/Elements
- Does many things extremely well
 - Opens/Saves in hundreds of formats
 - Transparency (GIF, PNG)
 - Versatile file browser and slide show
 - Fast, batch operations
- Doesn't do other things at all, e.g. spot edit

Common Tasks

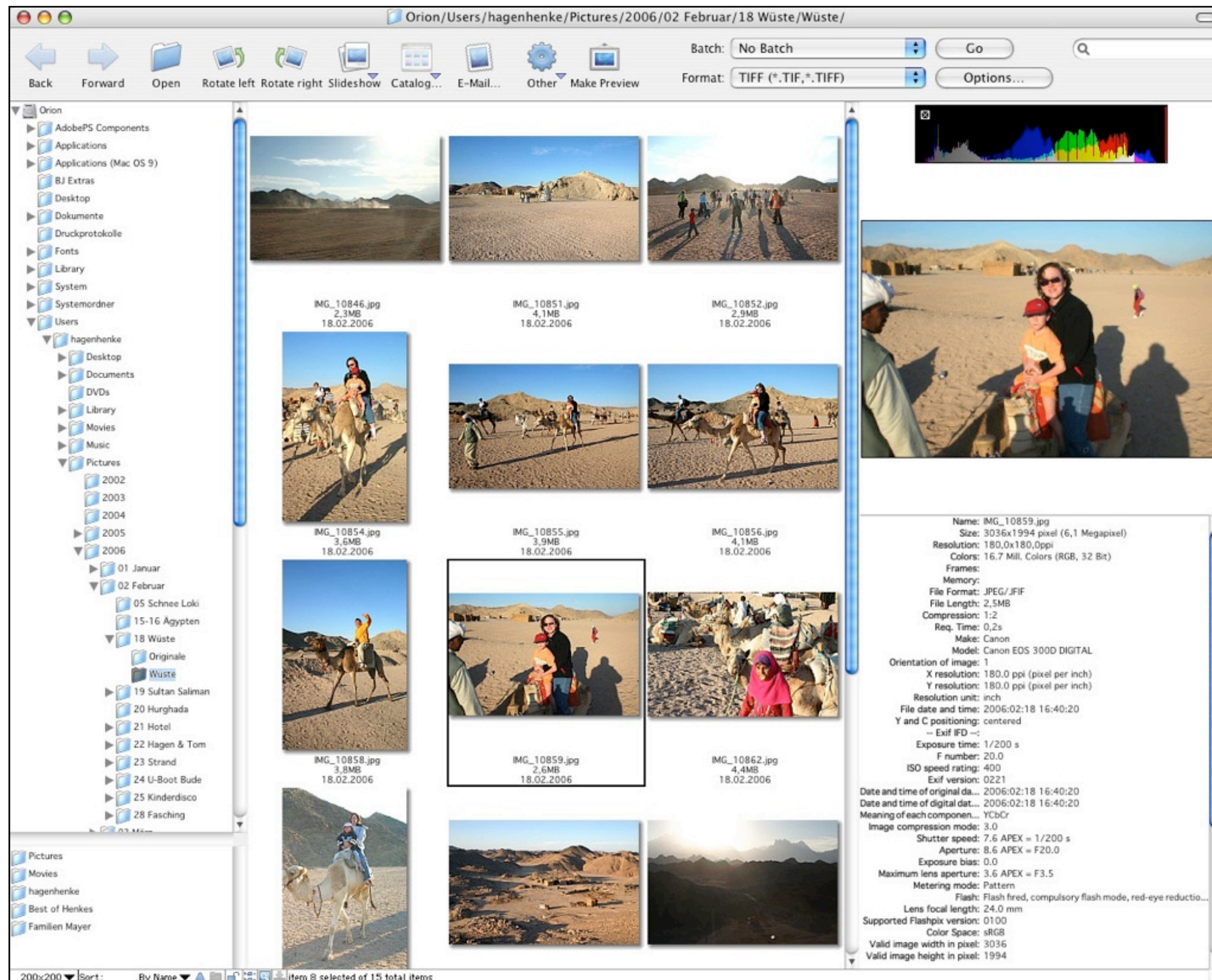


- Download from camera or scanner
- Catalog & organize images
- Quickly browse photo collections
 - Drag a folder onto GC icon
- Slide shows on the Mac & for the web

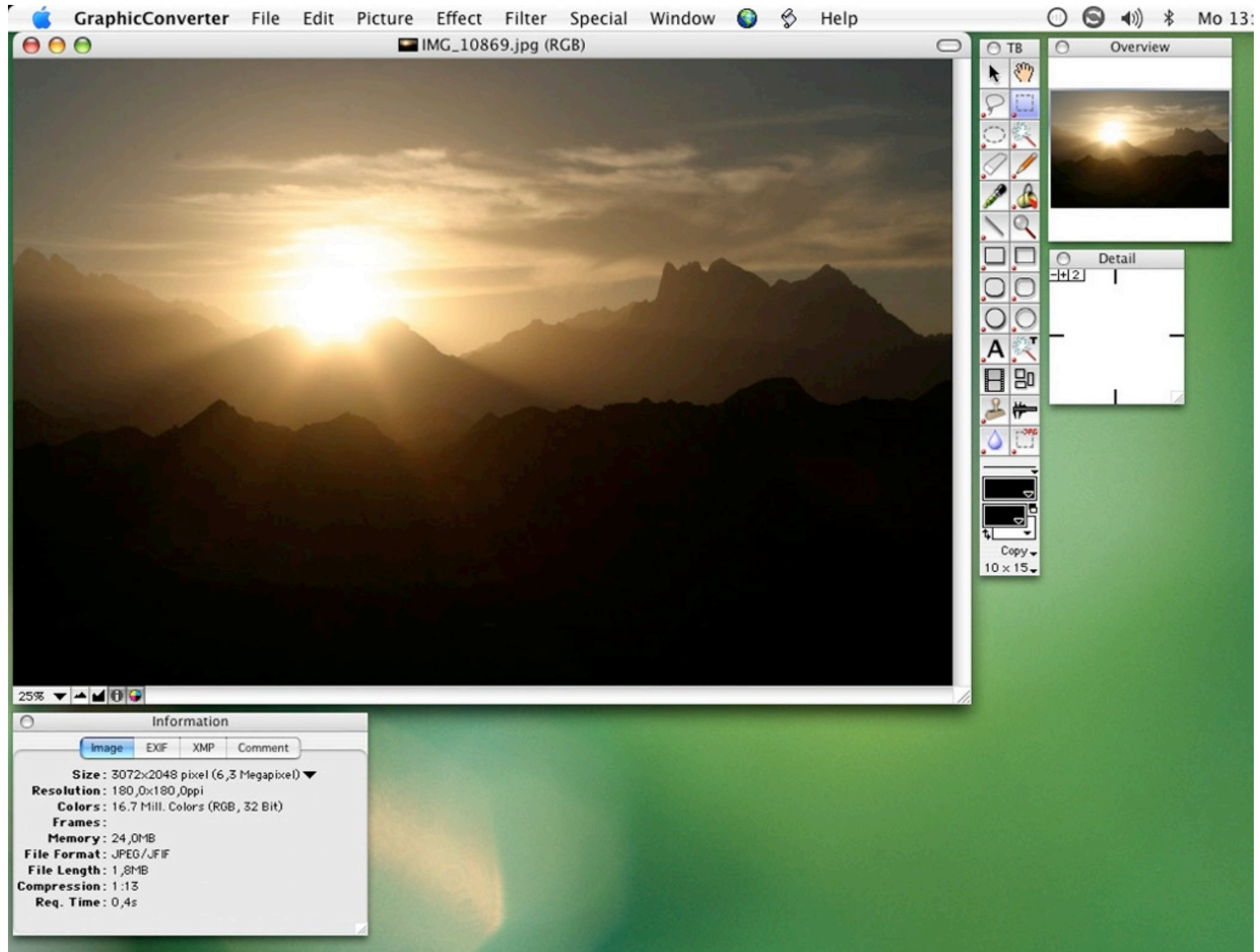


Browse

Drag a photo folder onto the GC icon

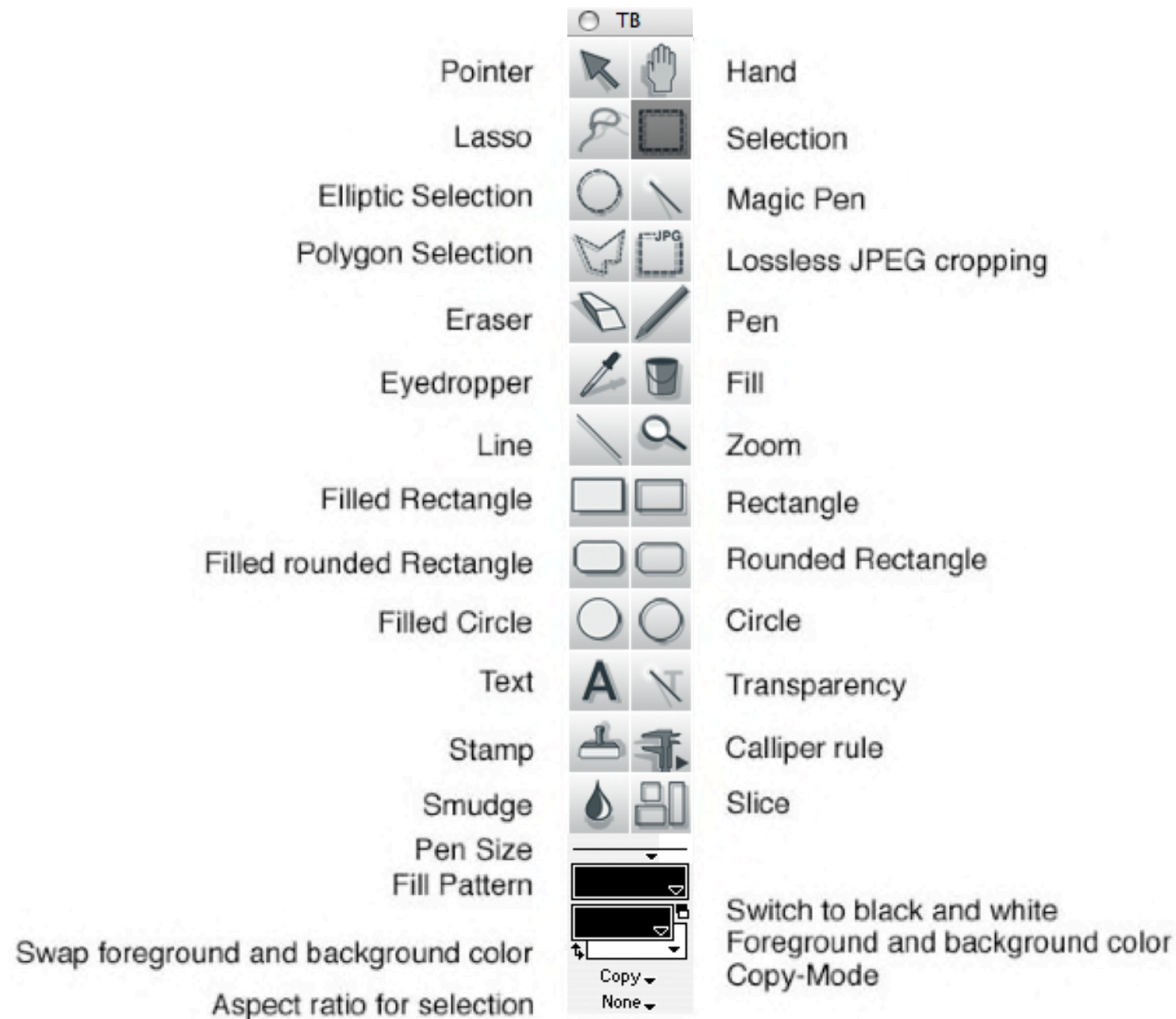


Basic Editing

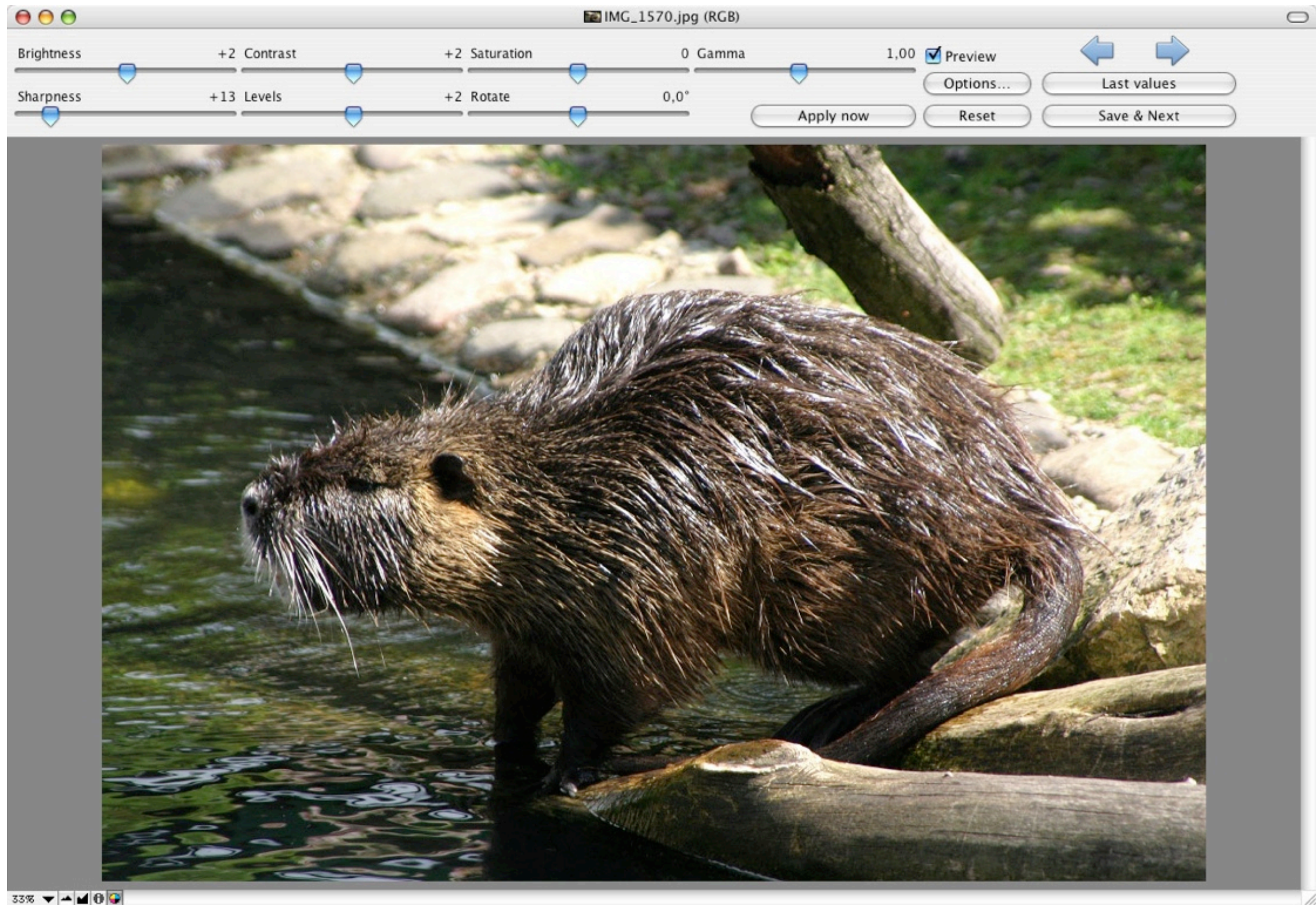


Information			
Image	EXIF	XMP	Comment
Size: 3072x2048 pixel (6,3 Megapixel) ▼			
Resolution: 180,0x180,0ppi			
Colors: 16.7 Mill. Colors (RGB, 32 Bit)			
Frames:			
Memory: 24,0MB			
File Format: JPEG/JFIF			
File Length: 1,8MB			
Compression: 1:13			
Req. Time: 0,4s			

GC Editing Tools



Express Image Enhancement

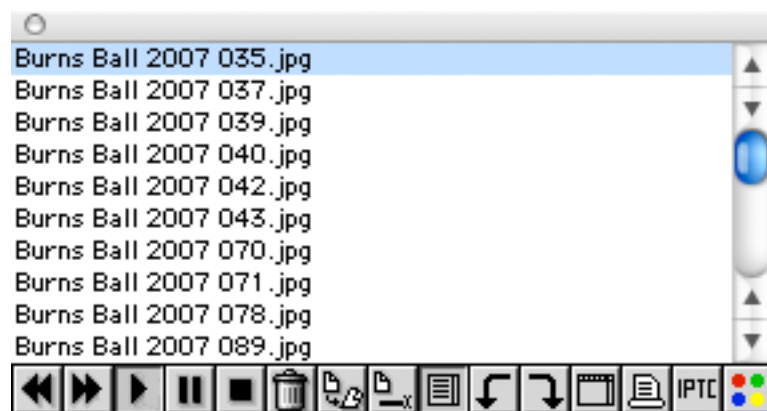


Slide Show

Title and/or path →



Slide List



Tools



Forward
Backward

Start/Stop

End

Make
Alias

Re-
name

Show
List

Rotate

Open

Enter
Data

File
Color

Batch Processing Example

- 2000 pictures on a CD for family/friends.

- Scale width from ³⁵⁻ⁱⁿ2500 to ⁹⁻ⁱⁿ640 pixels

Landscape-Portrait done separately

- Apply auto-levels
- Sharpen 14%
- Save as JPEG, Quality = 50



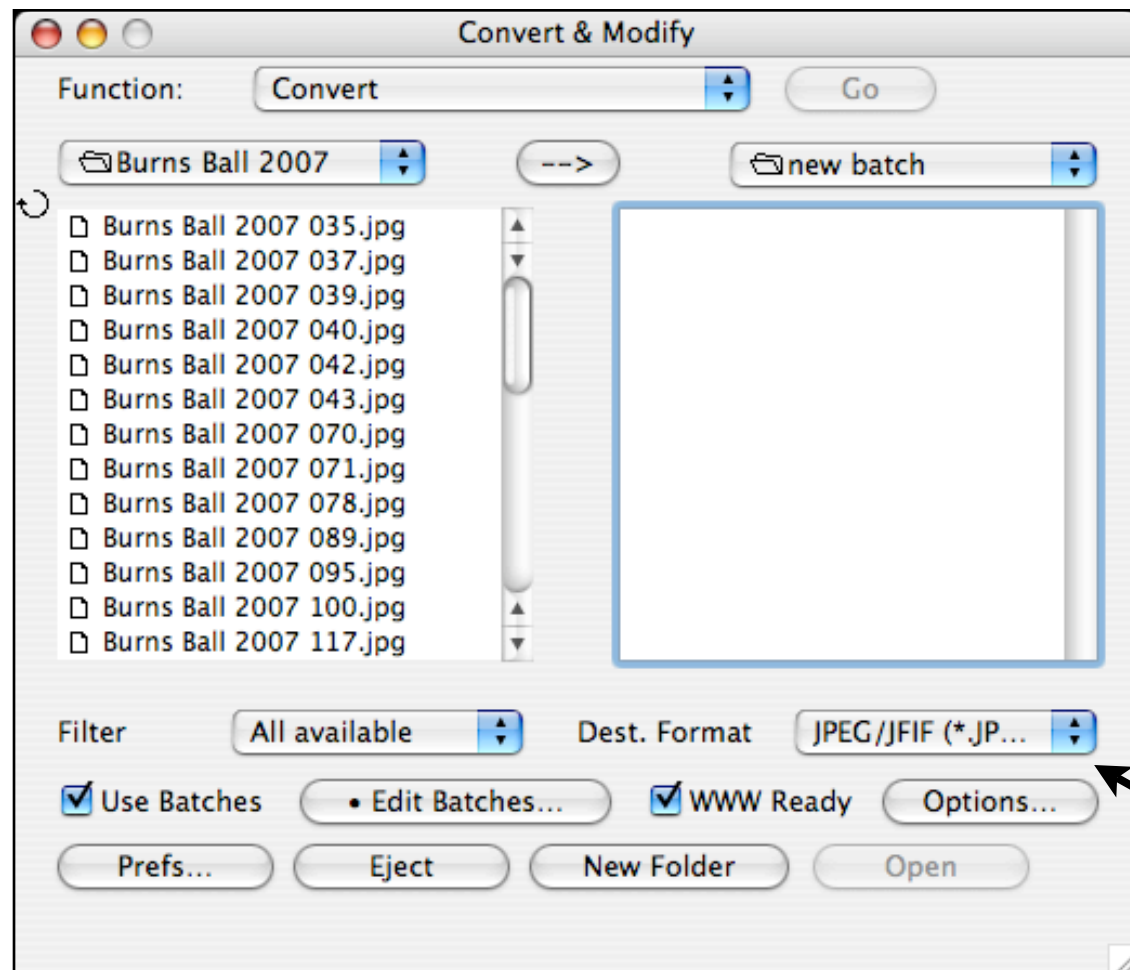
2:45 PM; 1/21/07

Burns Ball 2007 037

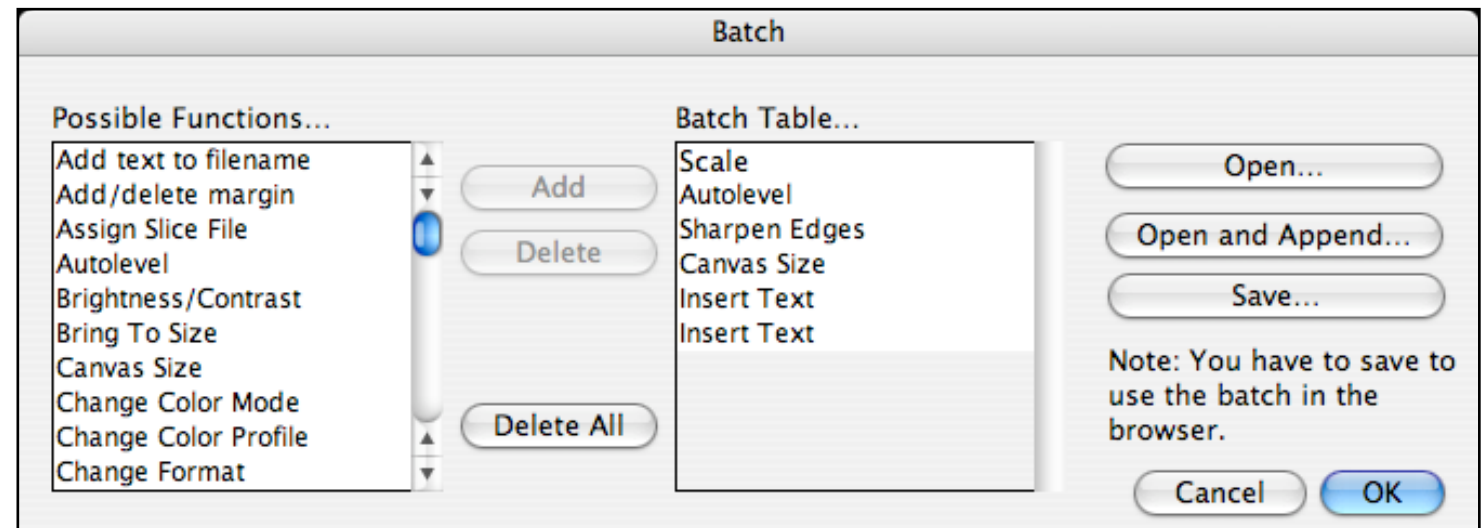
- Add 25 pixels of white to the bottom
Insert creation date/time bottom left
Insert file name bottom right

Batch Operation in GC

Files to be modified



How they are modified



- Scale to 640 wide
- Auto level and sharpen
- Add white strip at bottom
- Insert Data/Time left & file name right
- Save for web as JPEG with quality 50

On to the Demos