

# How To Resize & Crop Images to 1024 x 768 Pixels For Projection

## SCOPE

This document covers the process cropping and resizing an image to a suitable size in pixels for digital projection.

This process assumes the use of XnView (see Appendix), a free image editor from <http://www.xnview.com>

## PURPOSE

To ensure that images used for projection have the most suitable aspect ratio, i.e. 4:3.

To ensure that the images are downsized to a pixel size that is appropriate for projection, i.e. 1024x768 pixels.

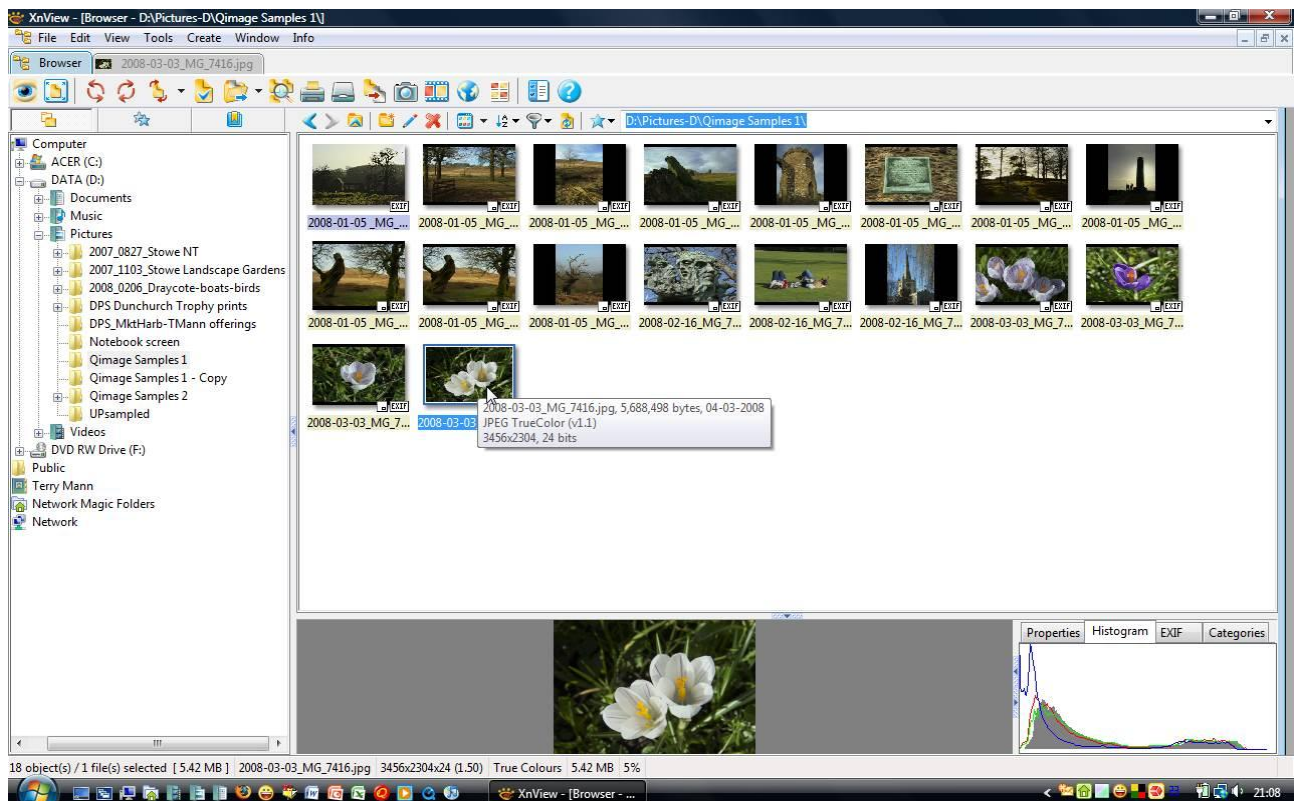
To ensure the PC and program resources required are minimised without adversely affecting the quality of projected images.

## APPENDIX: XnView Information

### HOW-TO STEPS

#### OPEN IMAGE

1. Open XnView
2. Browse to the folder containing the image.  
*The browser & folder tree is shown on the left hand side of the window.*
3. Double click the image thumbnail to open it in a new tab.

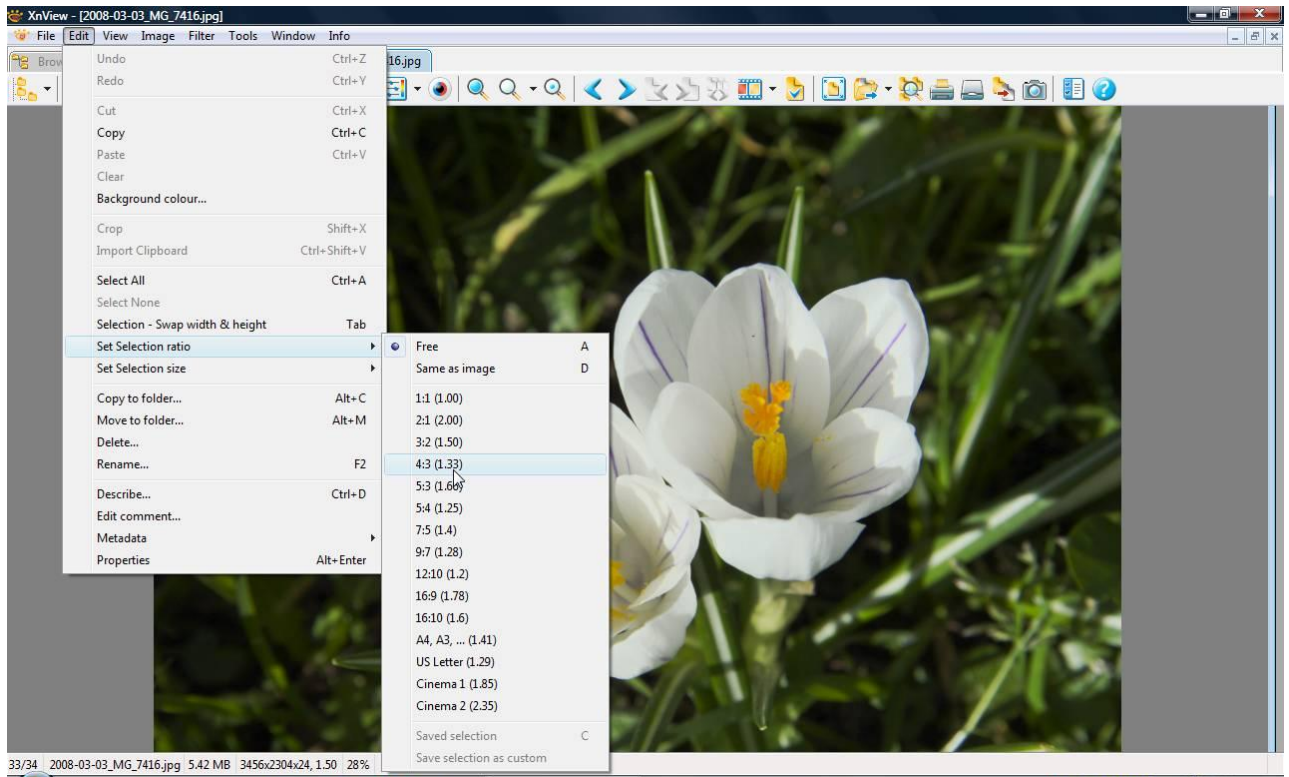


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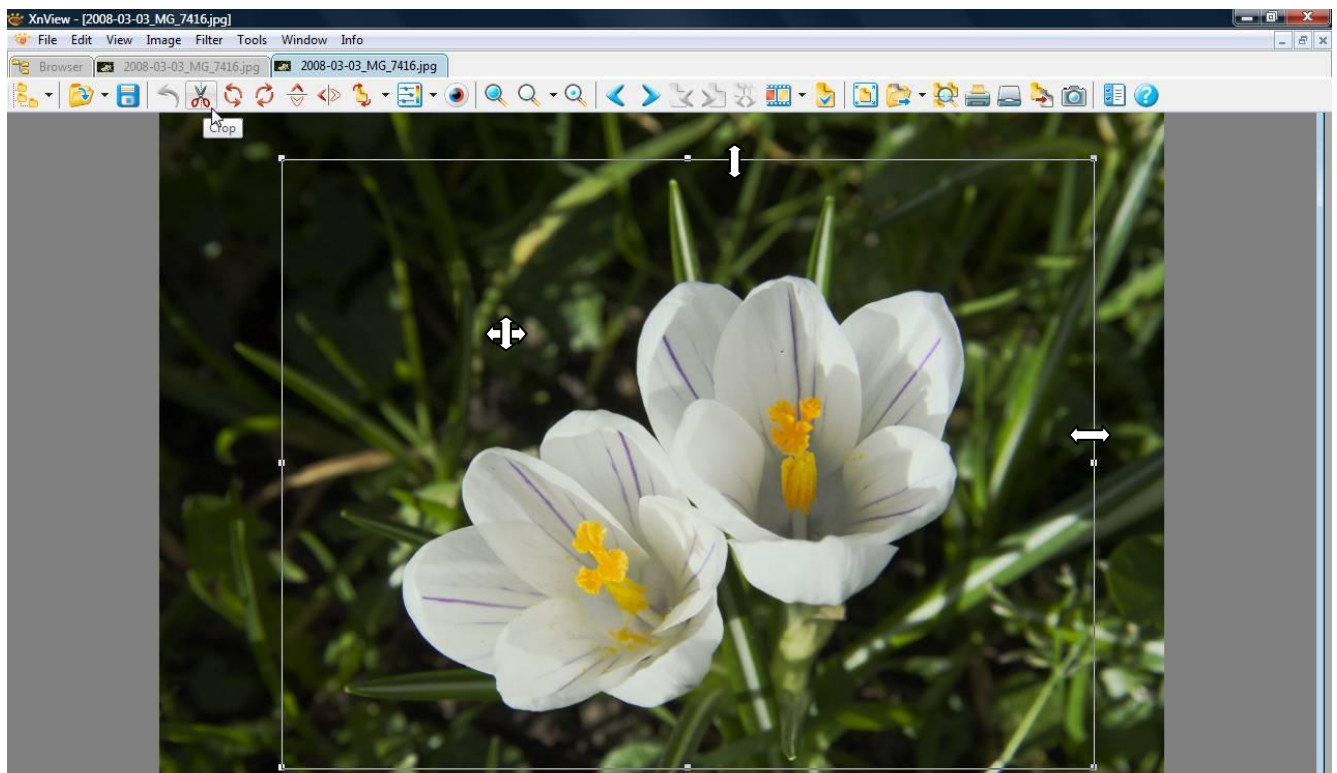
## CROP

This step is optional, go to resize if not cropping.

4. Select Edit/Set Selection Ratio  
*Choose 4:3 (1.33) for a horizontal image to fill the projection screen*



5. Create a crop rectangle by dragging the mouse on the image.  
*The rectangle will stay in the set ratio.*  
*Drag a corner or side to change size.*  
*Click and drag inside the rectangle to move the position of the crop.*  
*The example is horizontal format, it is similar for vertical format images.*

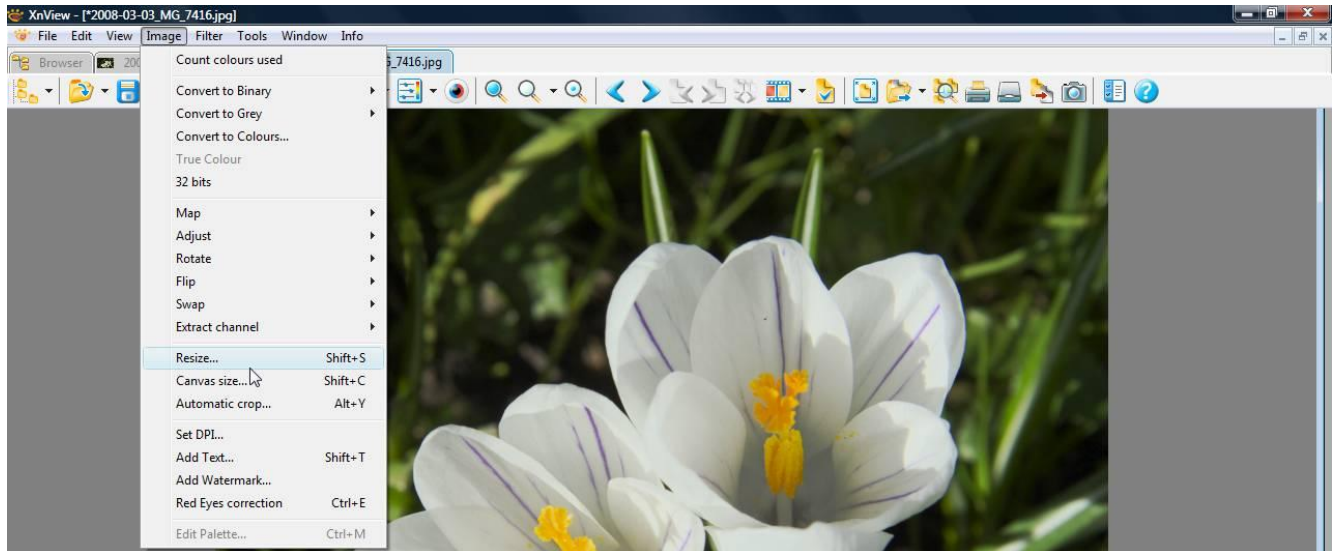


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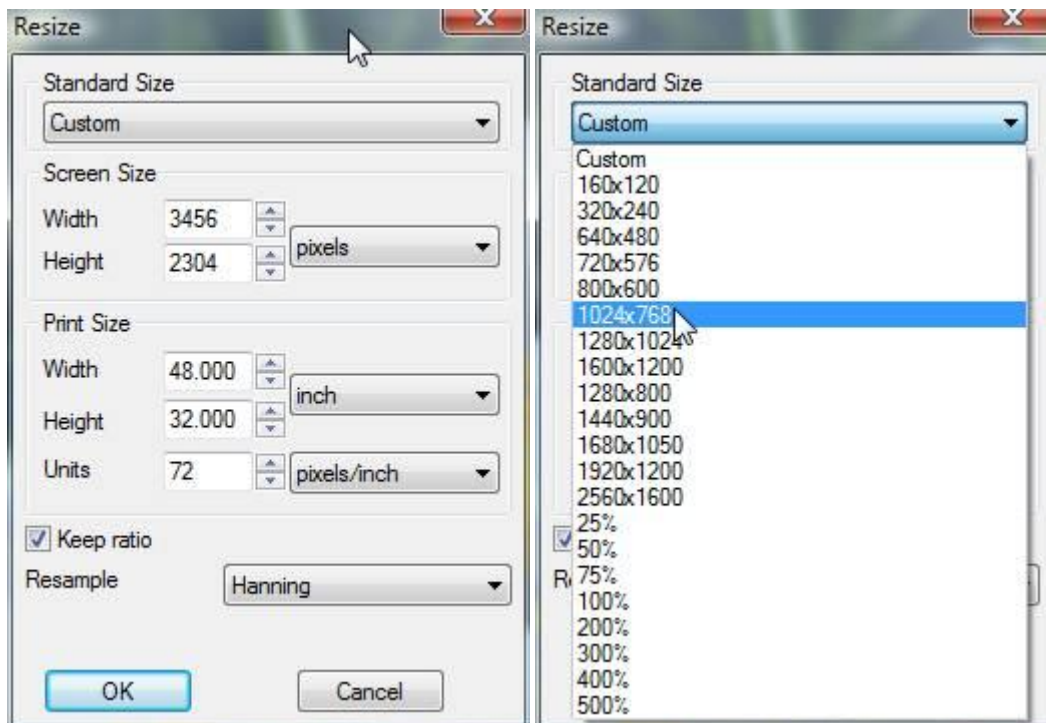
- Adjust size and position and of crop.  
*Drag corner or side of crop to change size; ration will not change.*  
*Select within crop box and drag to position.*
- Click Crop Scissors icon to apply crop.

## RESIZE

- Select Image\Resize



- Click Custom and enter the pixel size directly.  
*Horizontal format enter: W=1024. Vertical Format H=768. The other size will set automatically.*



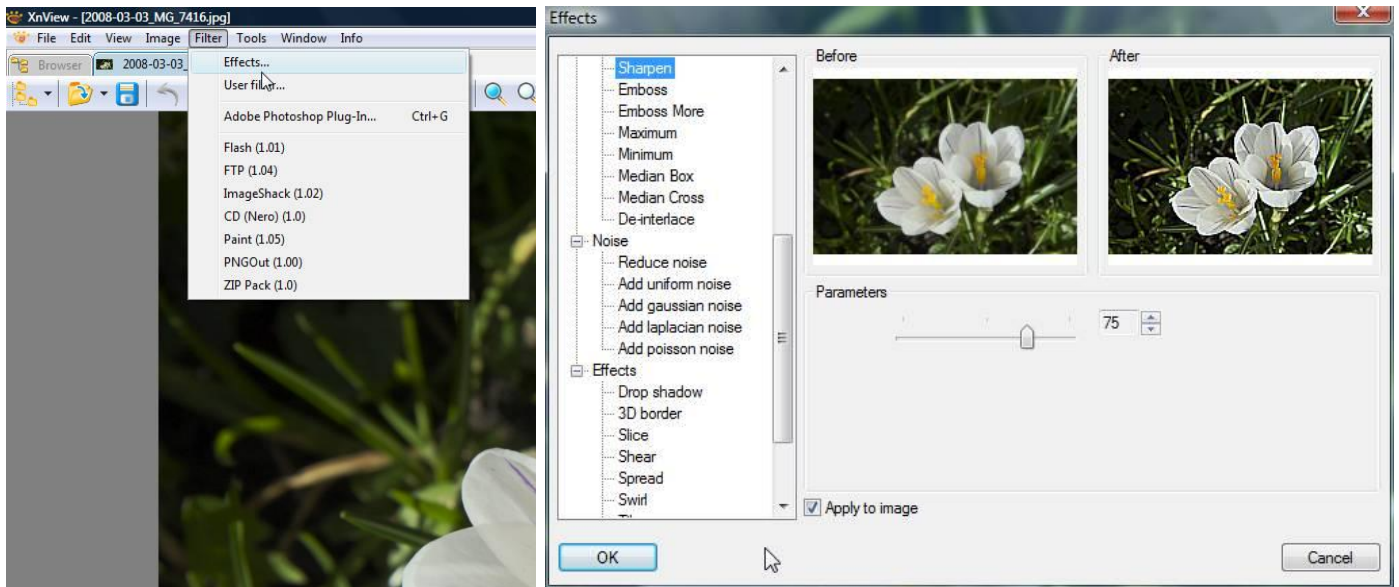
- Select Resample method and OK  
*Choose Lanzas or Hanning*

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## SHARPEN (Optional)

Resizing will soften the image so this step is to counteract this effect.

### 11. Select Filter\Effects



### 12. Select Sharpen and adjust as required.

*A parameter value of between 20 and 50 seems to give a satisfactory result.*

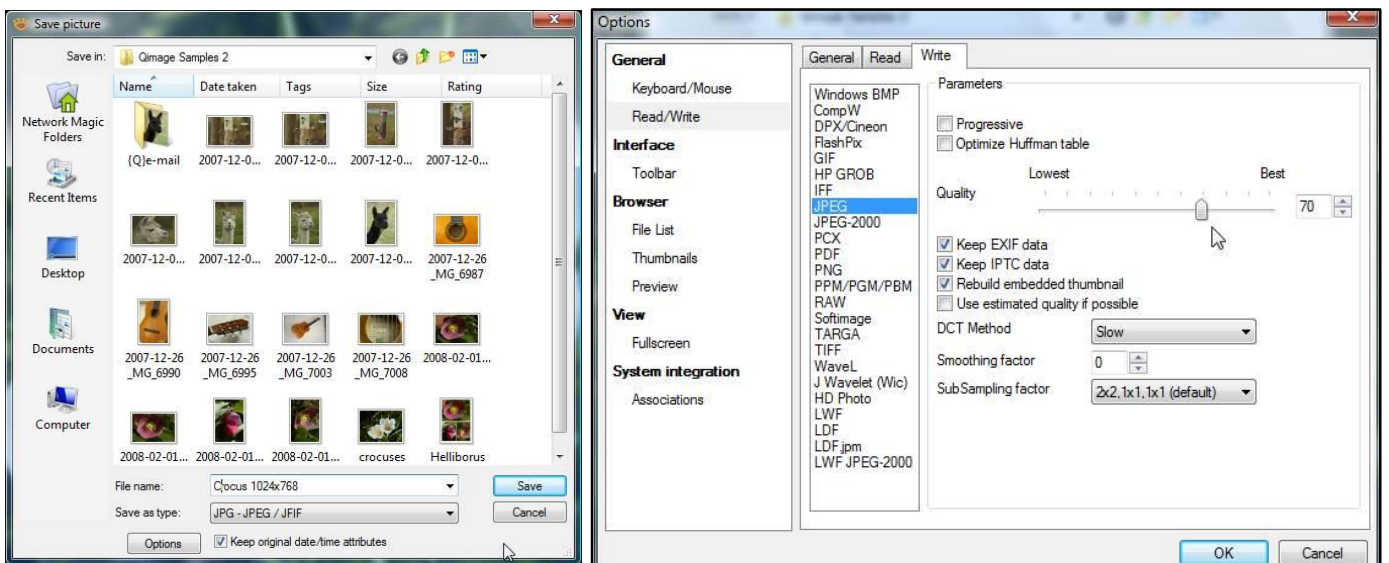
### 13. Tick Apply to Image and OK

## SAVE AS

### 14. Select File\Save As

### 15. Select the folder to save to.

### 16. Enter a new File Name and select jpeg



### 17. Click options and select and select a suitable Quality; 100 for best, OK.

*Note the other ticks on screen shot above.*

### 18. Click Save.

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## APPENDIX

### XnView Image Editor Software

**XnView** is a utility for viewing and converting graphic files.

**XnView** is provided as **FREEWARE** for private non-commercial or educational use, including non-profit organizations.

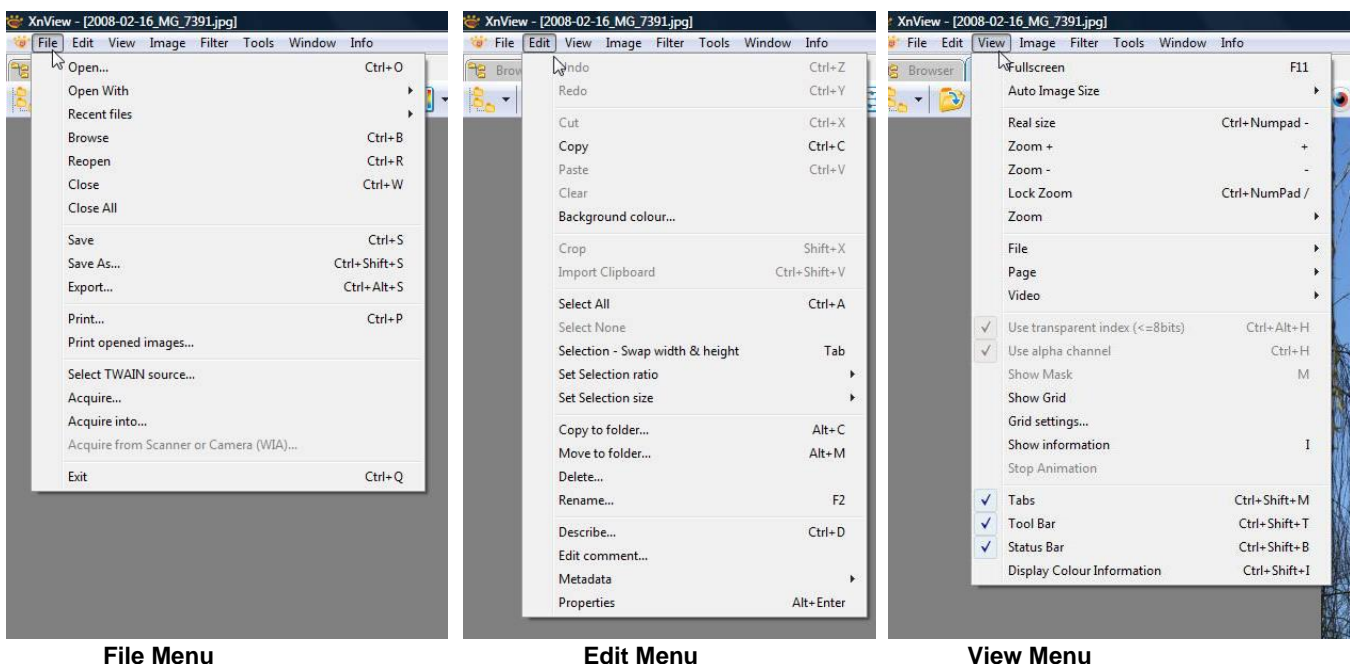
Web site (English): <http://pagesperso-orange.fr/pierre.g/xnview/enhome.html>

### Features

Import about **400** [graphic file formats](#)

- ❖ Export about **50** [graphic file formats](#)
- ❖ Multipage TIFF, Animated GIF, Animated ICO support
- ❖ Image IPTC, EXIF metadata support
- ❖ EXIF auto rotation support
- ❖ IPTC editing
- ❖ Resize, rotate, crop support
- ❖ Lossless rotate & crop (jpeg) support
- ❖ Adjust brightness, contrast...
- ❖ Auto levels, contrast
- ❖ Modify number of colours
- ❖ Apply filters (blur, average, emboss, ...)
- ❖ Apply effects (lens, wave, ...)
- ❖ Full-screen mode
- ❖ Slide show with effects
- ❖ Batch convert, batch rename
- ❖ Create WEB page easily
- ❖ Screen capture
- ❖ Create contact Sheet
- ❖ Create or edit Multi-page file (TIFF, DCX, LDF)
- ❖ TWAIN & WIA support (Windows only)
- ❖ Print support (Windows only)
- ❖ Drag & Drop support (Windows only)
- ❖ Compare image side by side
- ❖ Filmstrip layout
- ❖ 44 languages support (Windows only)
- ❖ And many other things...
- ❖ **No Adware, No Spyware**

## MENUS – Screen Shots



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Appendix continued ...

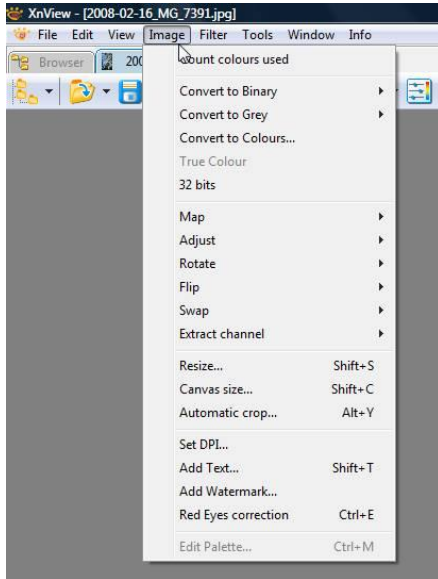
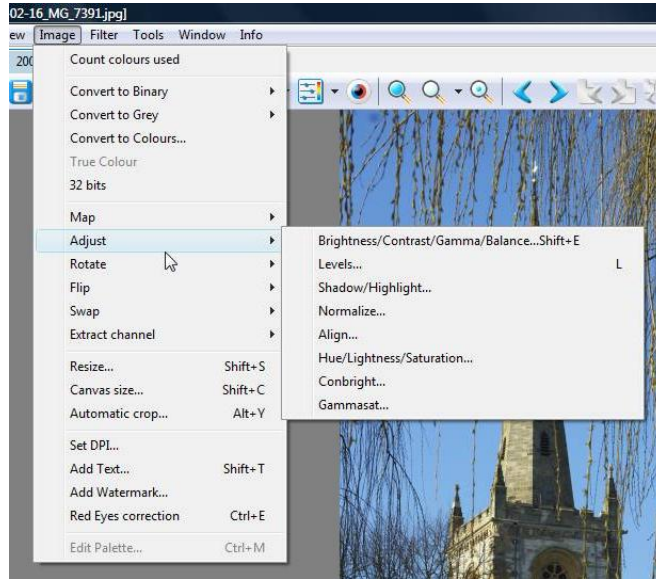
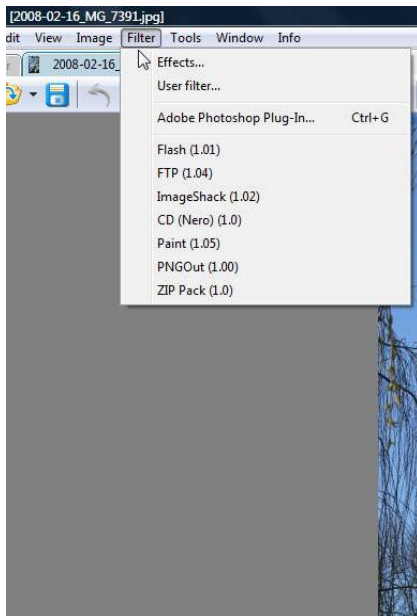


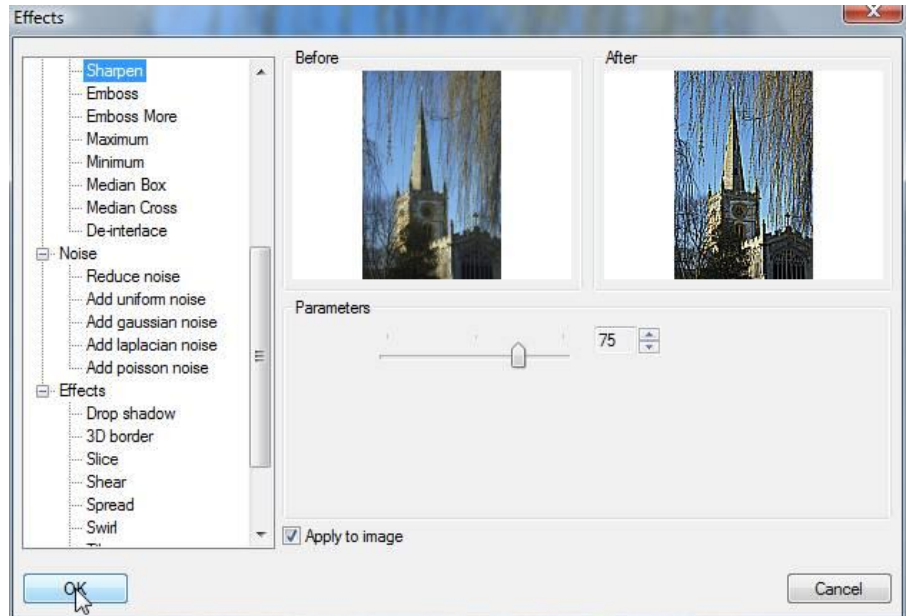
Image Menu



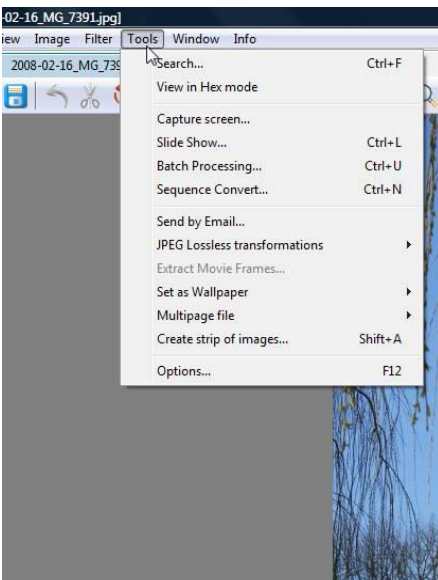
Adjustments Sub Menu



Filter Menu



Effects Sub Menu



Tools Menu