

# TUTORIAL

## RESIZING IMAGES

This tutorial has been compiled for those people who would like to submit photos to the Projected Images category in the NEPG monthly competitions, and who are unsure on how to resize their images.

The NEPG competition rules state that:

"Digital files submitted for the projected images section must be no longer than 1024 pixels along the horizontal axis or 762 pixels along the vertical axis and must not exceed 800kb".

Examples are given below on how to resize images using Photoshop (Elements and CS), Canon and Nikon software (usually shipped with the camera), Picasa (free Google download) and Microsoft Office Picture Manager (with Microsoft Office). There are probably many other programmes that can achieve the same (including e.g. JpegSizer, for a small fee from TangoTools).

No checks have been made on the quality of the results. Sometimes, resizing produces a colour cast in the resized image. In the trials, an original 4.1 Mb jpg image was reduced to between 450kb and 760kb by the various programmes.

The tutorials below assume a JPG start image, in Landscape format. For Portrait formats, use the 1024 pixels for Height, rather than Width. Images shot in RAW, and edited in Photoshop (Elements or CS) in e.g. TIFF or PSD format, can be resized in the same manner and saved in jpg format. See the comments at the end of the Photoshop section.

The same resizing methods can be used for emailing images. However, usually a smaller file size is required. This can be achieved by using a combination of reducing pixels and reducing quality. Most programmes have predetermined settings for emailing images.

Always make sure that you keep the original photo in the original size/resolution!

A bit of theory:

"*Image Size*" refers to the number of pixels. Generally, the more pixels, the sharper the image is ("better resolution");

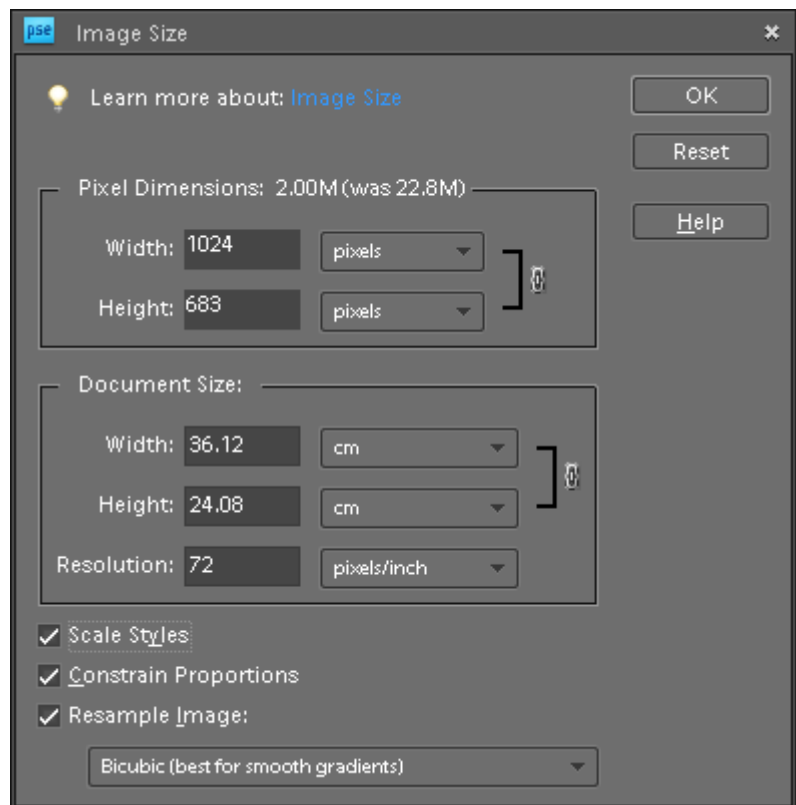
JPEG "*Quality*" refers to the compression: A higher level of compression (where JPEG omits information) results in lower image quality, and a smaller file size. Use "*Maximum*" quality wherever the image size allows.

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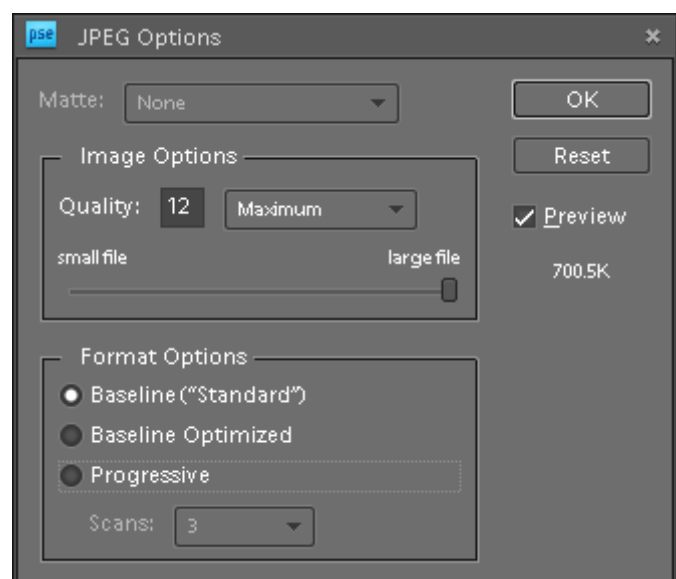
27 April 2010

## ADOBE PHOTOSHOP ELEMENTS and PHOTOSHOP CSx

- Open the jpg image you want to resize;
  - In Elements: **Image>Resize>Image Size**;
  - In CSx: **Image>Image size**;
- If not already set, set the resolution to *72 pixels/inch*;
- Make sure the *Resample Image* is ticked and set to “*Bicubic*” and that the other tick boxes are ticked;
- Set the Width to *1024 pixels* (for a Landscape format);
- **OK**;



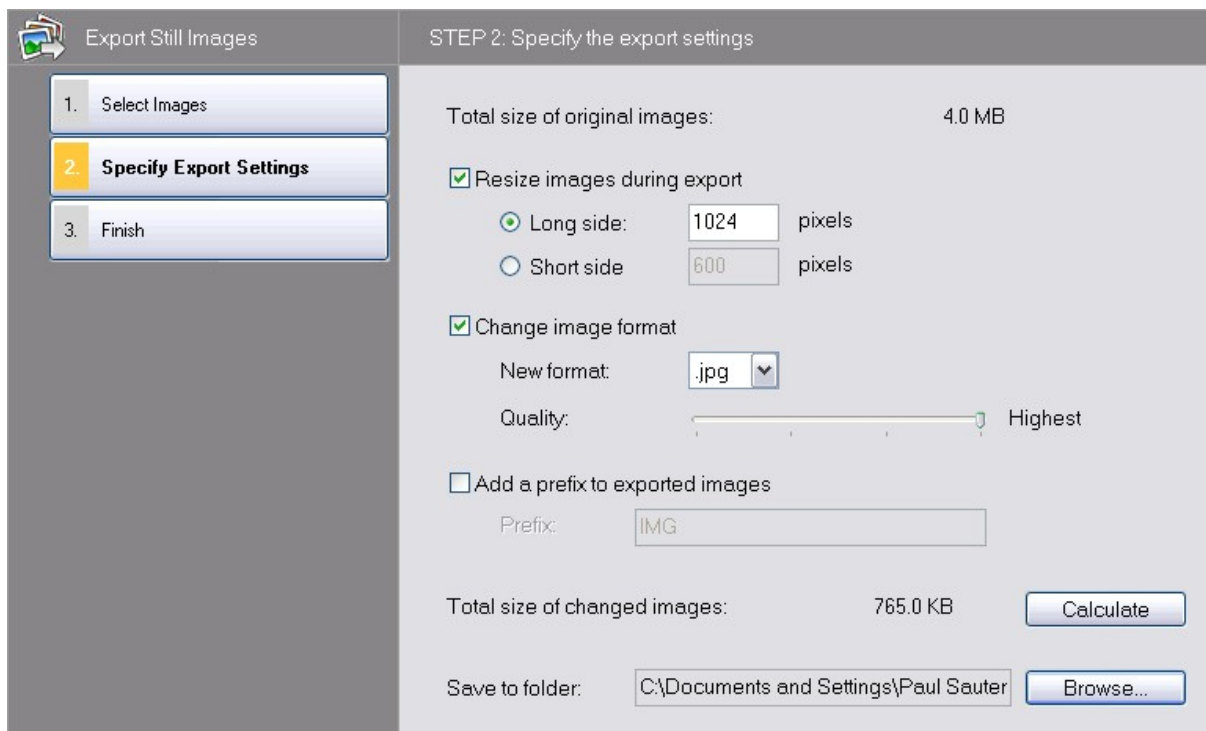
- The small, resized image will appear on your screen;
- Rename the file by **File>Save As**, and give the file a new name (stay in JPEG format), then: **Save**;
- On the next menu (JPEG Options), move the slider to “*large file*”, so that the Quality is *12* and *Maximum*, and check the size of the image on the right-hand side. For NEPG purposes, the size has to be below 800kb. Press **OK**;
- This will create the new resized file.
- Use unsharp mask only after you have completed the resizing, and examine the image for any anomalies on screen at 100% magnification.



- If you have converted from RAW, and have been editing in e.g. TIFF or PSD in Photoshop, do the same, but Save As in JPEG format:
  - resize the image as above (set to 72 pixels/inch, and 1024 width);
  - **File>Save As** in JPEG format;
  - Quality *Maximum*;
  - **OK**.

## CANON ZOOMBROWSER EX

- Highlight the jpg image you want to resize;
- Right-click **Export** > **Export Still Images**, or **File** > **Export** > **Export Still Images**;
- Select **Resize** and 1024 pixels for the Long Side (for Landscape);
- Change Image Format, choose *jpg* and *Highest Quality*;
- Select the folder;
- click **Finish**;
- The programme will create a new image with the same name plus suffix **\_1**.



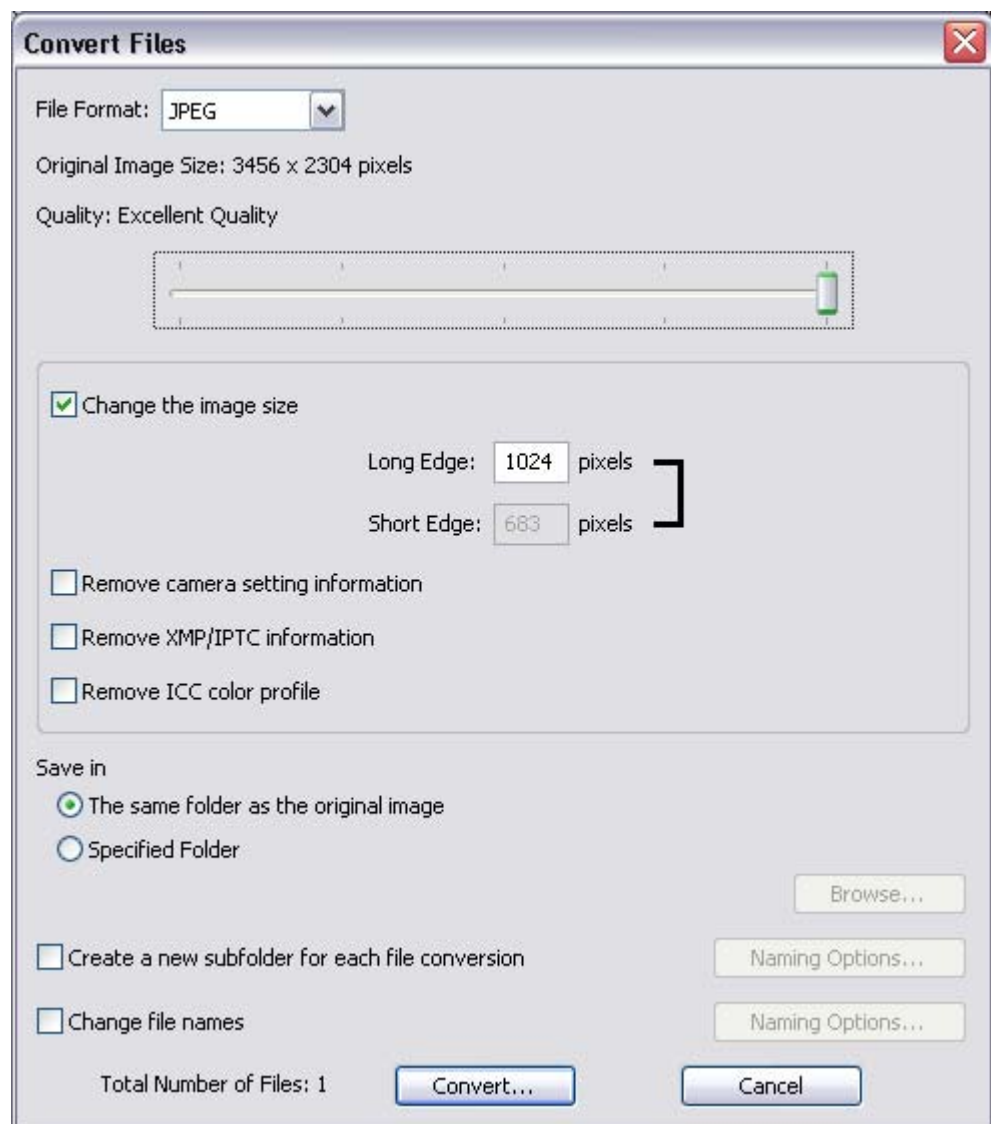
## NIKON VIEWNX

Nikon's Picture Project has been discontinued, it has been replaced by Nikon Transfer as the transfer utility for all of Nikon's digital camera products, and ViewNX as the image browser to easily view, catalogue, label, and organize your images.

Both can be downloaded from:

[http://support.nikontech.com/app/answers/detail/a\\_id/61/~/-/current-versions-of-nikon-software/session/L2F2LzEvc2lkL2RBMnINV1pq#Anchor-1](http://support.nikontech.com/app/answers/detail/a_id/61/~/-/current-versions-of-nikon-software/session/L2F2LzEvc2lkL2RBMnINV1pq#Anchor-1)

- Highlight the jpg image you want to resize;
- **Output>Convert Files**;
- Select *Excellent Quality*, and Change the image size to 1024 pixels (for Landscape);
- Choose a folder to put the new image in;
- **Convert**,
- The programme will create a new image with the same name plus suffix \_01.



## PICASA

- Highlight the jpg image you want to resize;
- **File>Export Picture to Folder,**



- In the next window, specify the exported folder, and the Resize to 1024 pixels;
- Select *Automatic* for Image Quality;

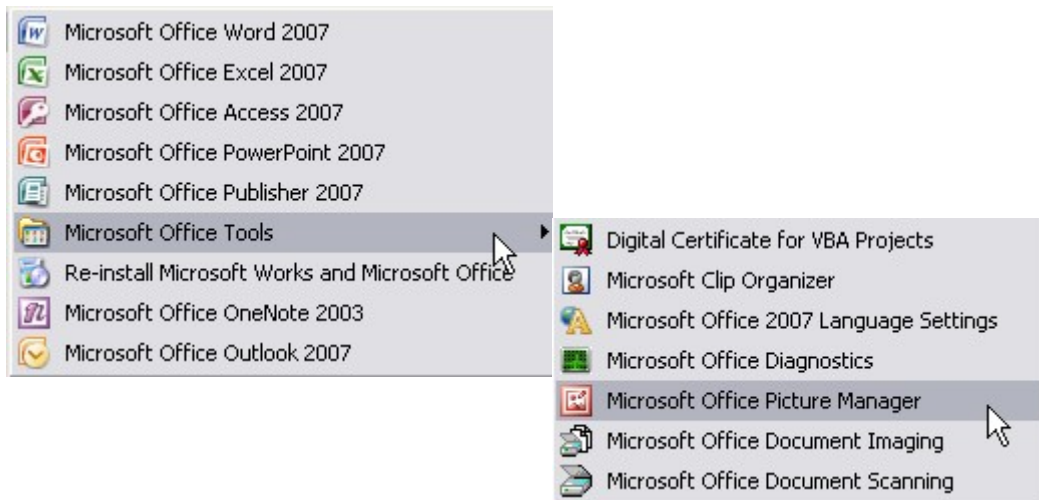


- **Export,**
- This will create the resized photo, with a suffix like -1, if it has been created in the same folder, or with the same filename if created in a new folder. In that case, rename to a new filename, using **File>Rename.**

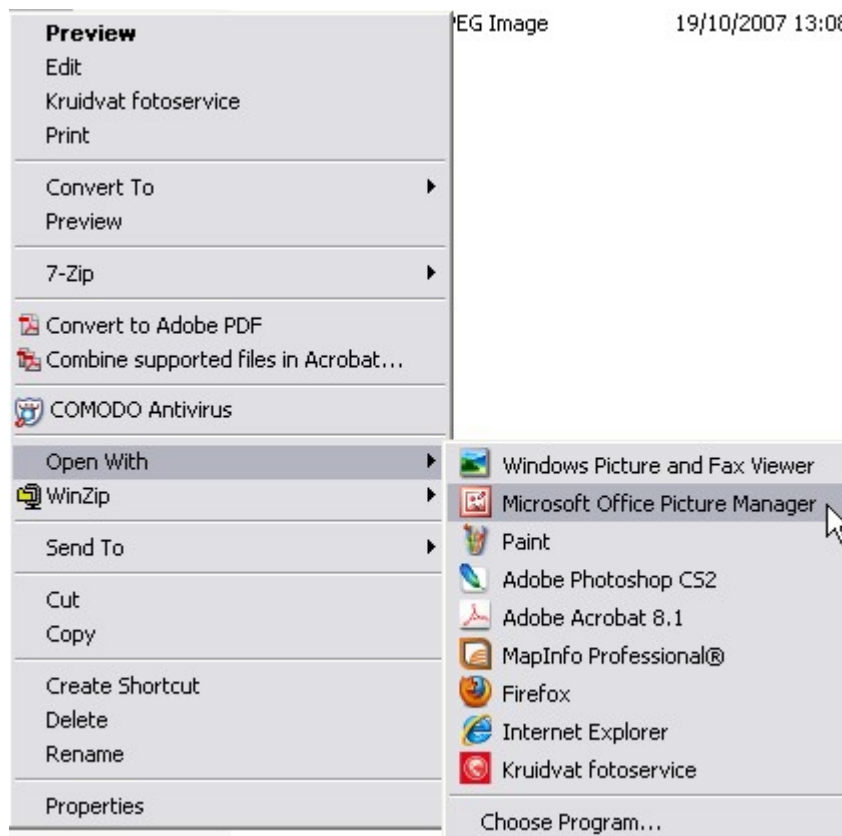
## MICROSOFT OFFICE PICTURE MANAGER

If you have Microsoft Office, you can use the Picture Manager, which is hidden under the Microsoft Office Tools.

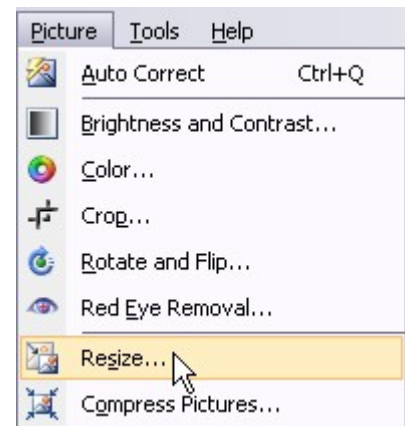
- Check if you have it under:
  - **Start>Programs>Microsoft Office>Microsoft Office Tools>Microsoft Office Picture Manager.**



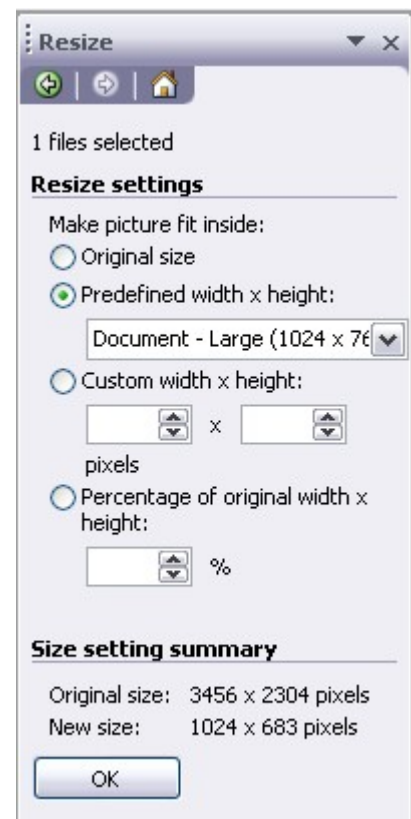
- The best way to open a photo with Picture Manager is to right-click on the filename in Windows Explorer (or My Computer etc), **Open With**, and choose Microsoft Office Picture Manager, if it is there, or otherwise try under **Choose Program**.



- This will open the photo in Picture Manager.
- **Picture>Resize**

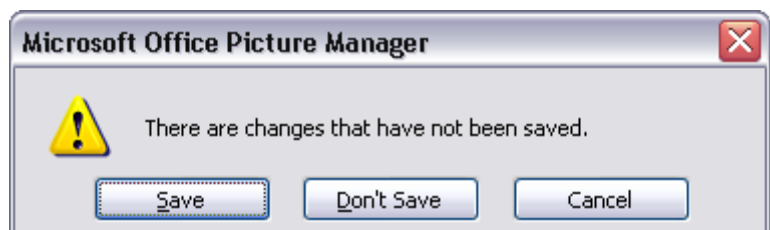


- In the Resize Window on the right-hand side, choose *Predefined width x height*, and select *Document – Large (1024 x 768 px)*



- **OK;**
- **File>Save As**, give the file a new filename; **Save;**
- **Exit;**

- The following message will come up:



- Press **Don't Save**, as you want to keep the original photo in the original size.