

Resizing Images for PDI Competitions

This document explains how to resize your images for submission to competitions.

This document will explain the steps to create a PDI with the following characteristics:

- 1400x1050 pixels
- Colour space sRGB
- PPI/DPI (pixels per inch/dots per inch) resolution of 72

This is what is required for our projected images using our current projector, which has a resolution of 1400x1050 pixels.

Many photographers use the Adobe colour space (or others) when processing their images. It is important that the colour space is converted to sRGB for projection to ensure the truest colours possible.

For many exhibitions we are using a wide screen TV which requires the following:

- 1920x1080 pixels
- Colour space sRGB

Many exhibitions, including our own, like to print some or all of the entries in the catalogue. To ensure we get an image density suitable for printing high quality (but small images) we like the PPI/DPI to be set to 300, which is normally the minimum figure used for printing, whereas 72 PPI used to be a sort of standard for screens. ***It should be noted that the PPI figure has no effect on the projected image quality, this is only relevant for printing.***

We are also seeing many changes in technology with higher specifications coming through (more pixels) for projectors and TVs (e.g. 4K and 8K), so you can expect things to be different for each competition and exhibition you enter (especially external ones).

So although this document uses 1400x1050 and 72 PPI you need to check the actual requirements for the competition or exhibition and ensure you apply the correct settings at the relevant point. E.g. if you are being asked for 300 PPI, then use 300 instead of 72 at that point.

There are many different programs available to do this task, this document covers:

- Photoshop CS5
- Photoshop Elements
- Lightroom 4/5

If you do not have these exact versions you will probably find your version is very similar, there is also plenty of information on the web.

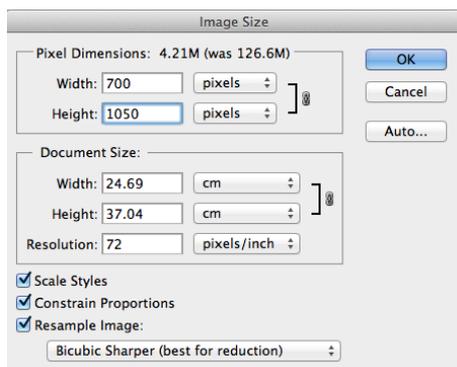
The important thing is to make sure that the final dimensions (in pixels) are correct and the colour space (sRGB) is correct. Also take care to save the jpeg image using Save As and do not overwrite your precious master image after you have reduced it.

Using Photoshop CS5

1. Open image in **Photoshop CS5**
2. Choose **Image > Image Size**

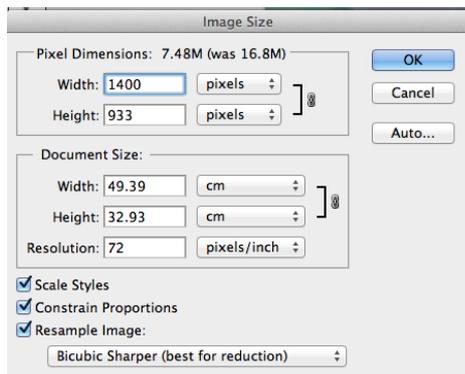


3. New Window named **Image Size**
 - 3.1. Check box **Constrain Proportions** and **Resample Image**
 - 3.2. Choose **Bicubic Sharper** (best for reduction)
4. In **Document Box** change **Resolution to 72 pixels/inch**
5. In **Pixel Dimensions**
 - 5.1. For **Portrait** images
 - 5.1.1. Set **Height to 1050 pixels**



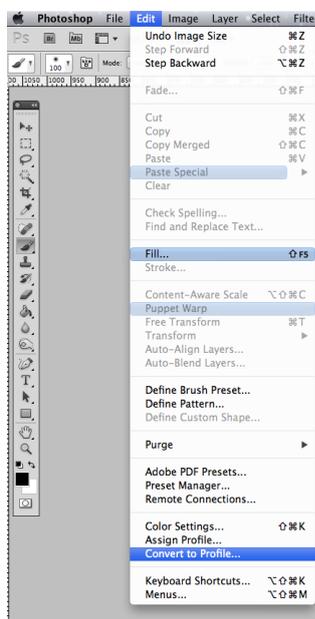
5.2. For Landscape images

5.2.1. Set Width to 1400 pixels



5.3. Click OK

6. In Menu Bar Choose Edit > Convert to Profile



7. New window named Convert to Profile

7.1. Source Space

7.1.1. Profile; example ProPhoto RGB

7.2. Destination Space

7.2.1. Profile. Choose sRGB IEC61966-2.1

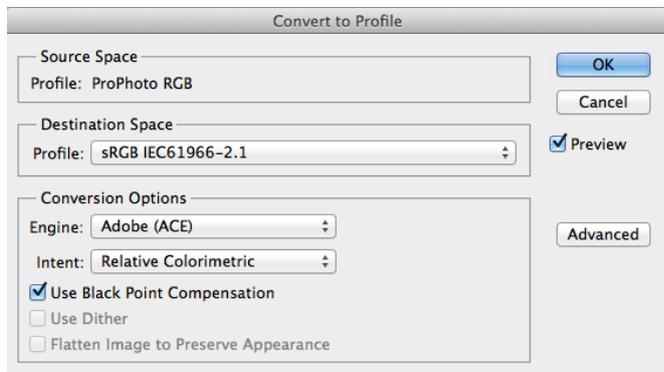
7.3. Conversion Options

7.3.1.Engine: Adobe (ACE)

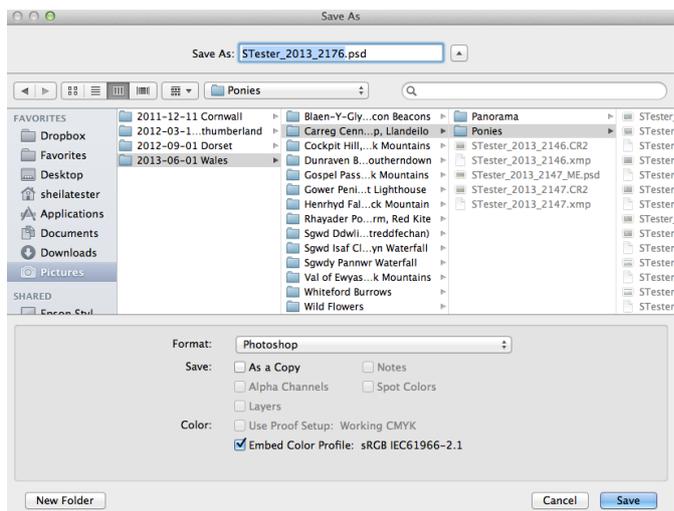
7.3.2.Intent: Relative Colorimetric

7.3.3.Check box Use Black Point Compensation.

7.3.4.Press OK



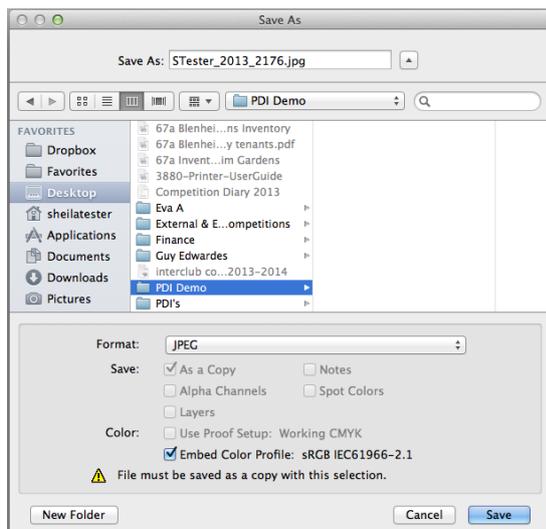
8. In menu bar choose **File > Save As**



8.1. Click Desktop

8.2. Click PDI's folder

8.3. Format: JPEG > Save



8.4. Set quality to **12**

8.5. Choose **Maximum**

8.6. Click OK

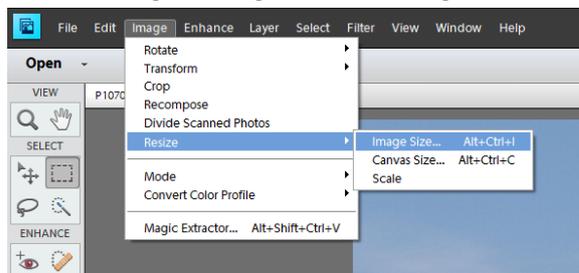
9. To resize other images follow 2 to 8 above

10. Your image should be no larger than 2MB

Using Photoshop Elements

1. Open image in Photoshop Elements (this example uses Elements 11)

2. Choose **Image > Image Resize > Image Size**



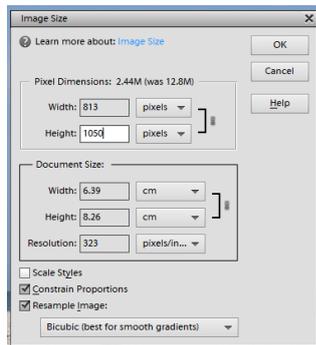
3. New Window named Image Size

3.1. Check boxes **Constrain Proportions** and **Resample Image**

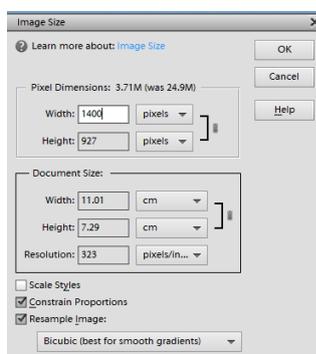
3.2. Choose **Bicubic (best for smooth gradients)**

4. In Pixel Dimensions

4.1. For Portrait images set Height to 1050 pixels

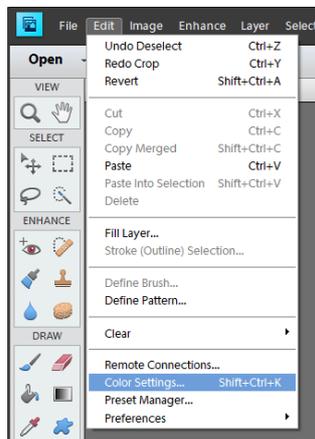


4.2. For Landscape images set Width to 1400 pixels



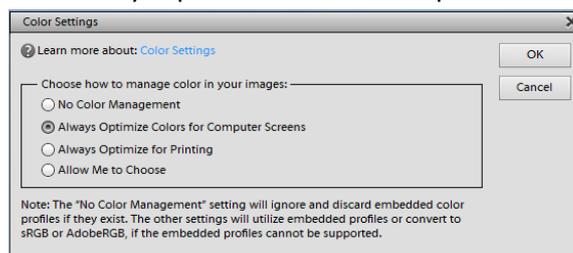
4.3. Click OK

5. In Menu Bar Choose Edit > Color Settings



6. New Window named Color Settings

6.1. Click Always optimize color for Computer Screen



6.2. Click OK

7. In Menu Bar Choose File > Save As
 - 7.1. In Save As Window
 - 7.1.1. Save As: Wild Horses.jpg.
 - 7.1.2. Highlight Desk Top
 - 7.1.3. Highlight PDI's
 - 7.1.4. Check Embedded Color Profile sRGB IEC 61966-2.1
 - 7.1.5. Click on Save
8. New Window **JPEG Options**
 - 8.1. Image Options
 - 8.1.1. Quality **12**
 - 8.1.2. Maximum
 - 8.1.3. Large file (File size should be between 500k and 2MB)
 - 8.2. Format Options
 - 8.2.1. Baseline Optimized
 - 8.3. Click OK
9. In Menu Bar Choose **File>Close**
10. Your image should be no larger than 2MB

Using Light Room 4/5

1. Launch **Light Room**
2. Select **Library**
 - 2.1. Select **Grid View**
 - 2.2. Choose image
 - 2.3. Right click to view drop down menu
 - 2.4. Choose **Export > Export**
3. New Window named **Export 1 File**
 - 3.1. Export to Hard Drive (top left of new window)
 - 3.2. Export location
 - 3.2.1. Export to Specific Folder
 - 3.2.2. Click on the word **Choose**
4. File Settings
 - 4.1. Image Format **JPEG**
 - 4.2. Quality **100**
 - 4.3. Color Space **sRGB**
 - 4.4. Uncheck **Limit File Size To**
 - 4.5. Leave greyed out 100k
5. Image Sizing
 - 5.1. Check box Resize to Fit
 - 5.2. Choose Width & Height
 - 5.3. Check box Don't Enlarge
 - 5.4. Insert **W: 1400 Pixels** and **H: 1050 pixels**
 - 5.5. Resolution 72 pixels per inch
6. Output Sharpening
 - 6.1. Check box **Sharpen for Screen**

- 6.2. Amount Standard
7. Post Processing
 - 7.1. After export Show in Finder
8. Preset
 - 8.1. Click **User Presets**
 - 8.2. Click **Add**
 - 8.3. Name preset (example; PDI's for competition)
 - 8.4. Click **Create**
9. Click Export
10. Exit Light Room to Desk Top
 - 10.1. Open PDI's for competition folder
11. File Re-Naming
 - 11.1. E.g.: Ponies Standing Still.jpg
12. Your image should be no larger than 2MB

