

## YATELEY CAMERA CLUB

### IMAGE RE-SIZING FOR DIGITAL PROJECTION

Rev 4 - 19<sup>th</sup> May 2020

Notes about Rev 4

Some irrelevant info deleted and Resizing in Affinity added

Steve Banks, 19<sup>th</sup> May 2020

Digital Images for entry into Yateley Camera Club projected image competitions are required to be a maximum of 1600 pixels wide x 1200 pixels high, to suit the requirements for external competitions. This is straightforward for a landscape image, but note that **for a portrait image the height can only be 1200 pixels high**, not 1600. This means that for a portrait image of the same aspect ratio (3:4) the width would only be 900 pixels wide.

The important thing is to ensure you keep *within* the maximum dimensions of 1600 pixels wide and 1200 pixels high, the aspect ratio does not have to be 3:4.

So, an acceptable landscape image could be 1600 pixels wide x 900 or 1100 pixels high and an acceptable portrait image could be 1200 pixels high x 800 or 900 pixels wide. A square image should ideally be 1200 x 1200 pixels. It makes sense to maximise the pixel dimensions of your image as far as you can, so in practice I ensure that a landscape image has a width of 1600 pixels and a portrait image has a height of 1200 pixels. The other dimension is determined by the aspect ratio I choose to crop at, but I just check that it does not exceed the maxima of 1600 pixels wide or 1200 pixels high.

**All images must be in JPEG (.jpg) format and sRGB Colour Space.**

Don't forget the naming convention for digital images submitted to YCC competitions.

The filename should be in the form:

*Title of Image by Your Name (Div 2)(O).jpg*

Div 2 = Division 2 and O = Open Competition. These would be replaced with Div 1, for Division 1 and T, for a Theme Competition.

Use the highest number setting (= largest file size or lowest compression) when saving as a .jpg

Please keep your image titles concise, because over-long titles might not show completely in the Lightroom library as the thumbnails are not that big.

Also think about your audience, they were not there when the image was taken so any emphasis you try to put into the title may be lost in translation.

Keep it simple. Nothing wrong with humorous titles.

Please send your images by email to: [yateleycameraclub@googlemail.com](mailto:yateleycameraclub@googlemail.com) at least 7 days before the competition *if you can*. However, entries will be accepted up to the **Saturday** before the **Wednesday** competition. **Cut-off point will be midnight on Saturday**. Please be careful **not** to select the Yahoo address, as your images may not be picked up and may miss the competition deadline.

#### Resizing in Picasa (v3.9)

Picasa is Google's free photo organiser/viewer/editor and works very well. Although not as powerful as Lightroom, it has some similar features and is a good starting point if you don't want to purchase Lightroom. The photo viewer is simple and effective.

If using the basic resizing feature in Picasa, you need to take care if you are resizing a portrait (as opposed to a landscape) picture. The resizing feature is accessed via the EXPORT function as follows:

1. Select the picture to resize
2. On the main toolbar, select the FILE dropdown, then EXPORT PICTURE TO FOLDER
3. Select or browse to the folder you wish to export the picture to
4. Hit the button to RESIZE TO and enter the pixel dimension in the box. Note that Picasa only allows you to enter one dimension. This is the *larger* of the two dimensions of your picture. So, if you are resizing a *landscape* picture, the dimension should be **1600** pixels. However, if you are resizing a *portrait* picture, the dimension should be **1200** pixels. Picasa will maintain the aspect ratio of your original picture, adjusting the smaller dimension of your picture automatically.
5. Set the image quality to maximum (100%) and hit the EXPORT button to complete the process. Picasa will export a resized *copy* of the original picture to the folder you specify, in JPEG format. The original picture is untouched.

### Resizing in Photoshop (CS5, v12.0)

Don't forget to work on a Duplicate *before* you start to resize your picture, otherwise you will forget (I always do) and **overwrite the original!**

1. Open the picture to resize in Photoshop
2. Immediately, go to IMAGE, DUPLICATE and Click OK. You will see that the filename now includes the word 'copy', so you are safe to proceed. (You can close the original window, if you like)
3. Go to IMAGE, IMAGE SIZE and the Image Size box will appear. You can ignore the 'Document Size' part – we are interested in the 'Pixel Dimensions' part. The original Pixel dimensions of your image are given in the boxes
4. Make sure the 'Scale Styles', 'Constrain Proportions' and 'Resample Image' boxes are ticked
5. Enter the pixel dimensions you want in the relevant box. Note that the first box is the width and the second box is the height. So, for a *landscape* picture you need to enter **1600** in the *first* box and for a *portrait* picture you need to enter **1200** in the *second* box. Because you have ticked the 'Constrain Proportions' box, the other dimension will be adjusted automatically.
6. Select the 'Bicubic Sharper' (best for reductions) option from the pull-down.
7. Click OK to carry out the resize.
8. Click SAVE AS, select JPEG format and re-name the file if you wish. Hit SAVE.
9. The JPEG Options box will appear and you should drag the slider to the far right, for a large file, minimum compression and maximum quality. The default 'Baseline' format option is fine. Click OK.

You can also crop and resize at the same time in Photoshop, which saves doing the 2 operations separately.

1. Open the picture to resize in Photoshop
2. Immediately, go to IMAGE, DUPLICATE and Click OK. You will see that the filename now includes the word 'copy', so you are safe to proceed. (You can close the original window, if you like)
3. On the side menu, click on the Crop Tool and the crop Toolbar will appear. Enter the pixel width and height you require, i.e. **1600 px** wide x **1200 px** high, for a *landscape* picture, or **1200 px** high x **900 px** wide, for a *portrait* picture. Because you have indicated pixels (px) in the boxes, the Resolution box is not relevant and can be ignored
4. When you apply the cursor to the picture, you create a cropping box that is constrained to the above proportions. Pull the box about until you are satisfied with the crop, then Click on the 'Tick mark' to complete the crop. Your new picture will be at the required pixel dimensions
5. Click SAVE AS and continue as above.

## Resizing in Affinity (v1.8)

I tend to work in Lightroom on the full-resolution image and export the final image from there, as a jpeg for PDI competitions – see below. I generally only open an image in Affinity if I am creating a composite, or have some serious cloning to do. I will edit the image in Affinity by opening it from LR, using the 'Edit in' option. Then save it back to LR for final re-sizing. However, if you wish to work in Affinity alone, you will find it very similar to Photoshop. Don't forget to work on a Duplicate *before* you start to resize your picture, otherwise you will forget (I always do) and **overwrite the original!**

1. Open the picture to resize in Affinity.
2. If it is a RAW file, you will have to develop the image (just make any adjustments to the image and hit the 'Develop' button. If the image is a JPEG, this is not necessary)
3. Immediately, go to FILE, SAVE AS, which opens a dialogue box. Choose where you want to save the image and click SAVE
4. Go to DOCUMENT, RESIZE DOCUMENT and the Resize Document box will appear. The original Pixel dimensions of your image are given in the boxes
5. The closed padlock symbol between the Pixel size boxes indicates the original aspect ratio of the image will be retained.
6. Make sure the 'Resample Image' box is ticked and that 'Bicubic' is selected from the dropdown.
7. The DPI box is not relevant, because we are working in Pixels, so this can be ignored.
8. Enter the pixel dimensions you want in the relevant box. Note that the first box is the width and the second box is the height. So, for a *landscape* picture you need to enter **1600** in the *first* box and for a *portrait* picture you need to enter **1200** in the *second* box. Because the closed padlock symbol is showing, the other dimension will be adjusted automatically.
9. Click RESIZE to carry out the resize.
10. To export the image as a JPEG for competitions, go to FILE, EXPORT to bring up the Export Settings Dialogue box.
11. You will see that the correct pixel sizes are already in the boxes, in fact, you could carry out the resize using this box. Make sure the 'Bicubic' option is selected.
12. Select JPEG from the options along the top of the Dialogue box.
13. Select 100% Quality for the JPEG export and select 'Whole Document'
14. Click EXPORT and enter the new file name, then hit SAVE.

## Resizing in Lightroom (v5.2)

Resizing in Lightroom is done via EXPORT, similar to Picasa.

1. Select the Picture to resize
2. Hit the EXPORT Button to open the Export dialogue box
3. Here you can select where you want to export the picture to, what you want to call the new file, the file type and the size of the picture
4. In 'File Settings' select JPEG and move the Quality slider to the far right (100)
5. In 'Image Sizing', tick the 'Resize to fit' box and here Lightroom differs from Picasa, in that you have more options. In the pull-down, select the 'Width & Height' option and enter **1600** in the 'W' box and **1200** in the 'H' box. This constrains the width and height to the *maximum* values allowed regardless of whether your image is portrait or landscape. The aspect ratio of the image will remain unchanged. Don't use the 'Dimensions' option, as this will give you 1600 high images if they are portrait.
6. Select 'Pixels' from the pull-down.
7. Note that because we are working with the pixel dimensions of the picture, the Resolution box is irrelevant, and can be ignored.
8. Click on the EXPORT button to complete the operation.

If using Lightroom, it would be a great help if you could enter the following information in the **metadata** fields:

**Title Box:** The Image Title (as you would like it read out, without your name and class)

**Creator Box:** Your name – in the format: **Smith, John**

This task has to be done on the YCC laptop, when compiling the images for competition and it's quite time consuming when you have 60 or so images to deal with. This will make life a lot easier for the Projected Image Co-ordinator.

### **Microsoft Office Picture Manager**

This programme can also be used for resizing, but care needs to be taken to ensure you don't fall into the 1600 pixels *high* trap.

If anyone needs to use this programme, or any other programme for that matter, please let me know and I will add detailed instructions to this document.

I hope you find the above helpful, but if I have made any errors, or you know of a better way to resize a picture in Picasa, Photoshop or Lightroom, please let me know and I will update this document.

Finally, if anyone would like a bit more help, or clarification of any of the above, please do not hesitate to give me a call or email, or contact the club Projected Image Co-ordinator.

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