Techniques workshops

Basic guide to printing including Printshop at Chi Uni



Subjects



- Printing challenges
- What makes a good "club print"
- Workflow
- Image sizing for printing
- Readying your digital work for the Print Shop
- Mounting your work

Commercial Printing or DIY – you need this!



- Most of this presentation applies equally to printing yourself or using a commercial printer such as Chichester Uni Print Shop
 - Aspect ratios
 - Final sizing
 - Paper choice (or not)
 - Mounting your masterpiece
- They also apply to Projected Digital Images (PDI's)

What makes a good Club Standard print?



- Communicates your vision, Why take it, why share it.
- Fits the subject matter of the competition clearly, or tongue in cheek?
- Shows what you want to show unambiguously
- Has immediate impact, but keeps the viewer interested
- Tells a story, ask questions of the viewer, creates an emotional response in the viewer.
- Should be simple, rather than busy and complicated with lots of different points of interest.

Preparing an image for a Print Competition – Top Tips



- The rule of thirds is one of the most commonly used "rules".
 - Sometimes breaking the rules works too ...
- It is often said that odd numbers of objects are more satisfying than even numbered.
- Red coloured objects attract our attention,
 - so add impact to an object or location in an image.
- Avoid things that distract from your message
- Horizons should be level and verticals vertical or obviously angled.

Preparing a print for a Club competition – Top Tips



- Avoid losing key features at the edges.
 - However, a deliberate crop of much of a face draws attention to what you want to show.
- The eye is drawn to light and lighter areas in an image,
 - so the part you want the viewer to concentrate on should be a little lighter than the rest.
 - Bright areas away from your point of interest will draw the eye away, even more so at the edges.
- The important part of the image needs to be sharp.
 - Generally, the foreground needs to be sharp.
 - A landscape usually all needs to be sharp.
- Some photographs need blur to indicate movement or a dreamy atmosphere, this is different from being out of focus.

Come to the Basic Image Processing workshop Sat 10th Dec

Preparing a print for a Club competition – Top Tips



 The way it is presented (mounted) should enhance and not detract from the print.

See Rob's ideas about mounts later in this section

Maximising quality in printing



- Image needs to be properly tuned in Photoshop/Lightroom or Affinity beforehand
 - Correct brightness
 - No colour castes
 - Suitably sharpened

Come to the Basic Image Processing workshop Sat 10th
 Dec

What you have to do to print



- Choose aspect ratio (Crop) for print (may be different to paper size)
- Choose colour space/profile for printer/paper combination
- Select output format (TIFF or PDF)
- Size to ensure Output density is 300ppi
- For Bognor Regis Camera Club competitions:
 - Prints need to be a minimum of 226 sq cm mounted on a card with a maximum size of 50cm x 40cm.

The Ricoh 7100 at PrintShop Chichester Uni



Sizing for printing



- As with PDIs it's better to resize an image to meet the final print size using some principles:
- Printing looks pixelated if the density is less than 200ppi
 - So a 10"x8" print needs (10"x200ppi)x(8"x200ppi)=2000x1600 pixels
 - The RICOH machine at the Chi PrintShop prints at 300ppi so that would be (10x300)x(8x300)=3000x2400 pixels (for a 10"x8" print).
 - If you want to "go Large!" then an SRA3 image (45cm x 32cm) needs 5315px x 3780px to print properly

Page set-up for RICOH C7100



- Paper size eg Anything up to SRA3 (450mmx320mm)
- Paper is always same size (SRA3)
- Printer expects to see 300 pixels per inch (PPI) density
- Printer expects Adobe RGB (ARGB) colour space
- Printer takes JPEGs or TIFFS or PDFs
- Printer much prefers PDFs as they are assured that the image is the correct size (@300PPI)
- Printshop paper recommendations (all are 300gsm)
 and SRA3 in size with as many images on as you want!
 - Gloss white "Finess 300gsm Gloss" £0.48 per sheet
 - Silk white "Finess 300gsm Silk" £0.48 per sheet
 - Uncoated (matt) "Elements Fire 300gsm £0.60 per sheet

LR "Export" converts eg RAW file to something to Print

- File Settings
 - TIFF, Color Space = Adobe RGB, Bit Depth = 8 bits

Image Sizing

- Resize to fit -> Use the "Long Edge" (L or W) and make that what you want your print to be, eg 28cm (A4) or 38cm (A3)
- Resolution -> 300 pixels per inch (What the printer needs)
 - Equates to 118 pixels per cm
- These parameters will export and enlarge image to meet size and density requirements if necessary

Output Sharpening

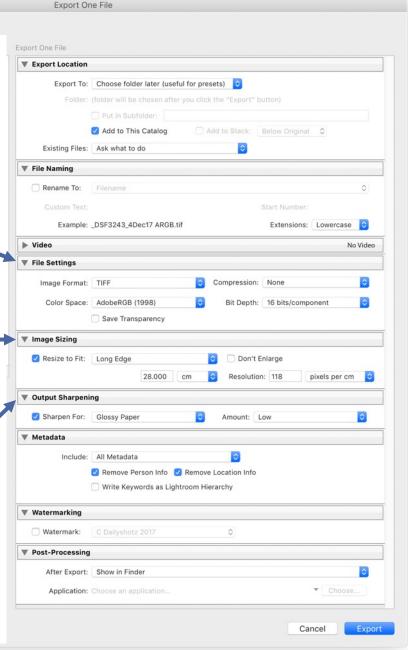
- Sharpen for -> Glossy Paper
- Amount -> Low or Standard (don't oversharpen!)

Complete Export parameters for Lightroom

Export To: Hard Drive



- Add to catalog (to see what you have done)
- File Settings:
 - Image format -> TIFF
 - Color Space -> AdobeRGB
 - Bit Depth 8 bits
- Image sizing:
 - Resize to fit -> Long Edge
 - Units are cm or in (not pixels)
 - Resolution 118 ->Pixels per cm
 - Gives equiv of 300PPI
- Output Sharpening?
 - Sharpen for -> Glossy Paper
 - Amount -> Low

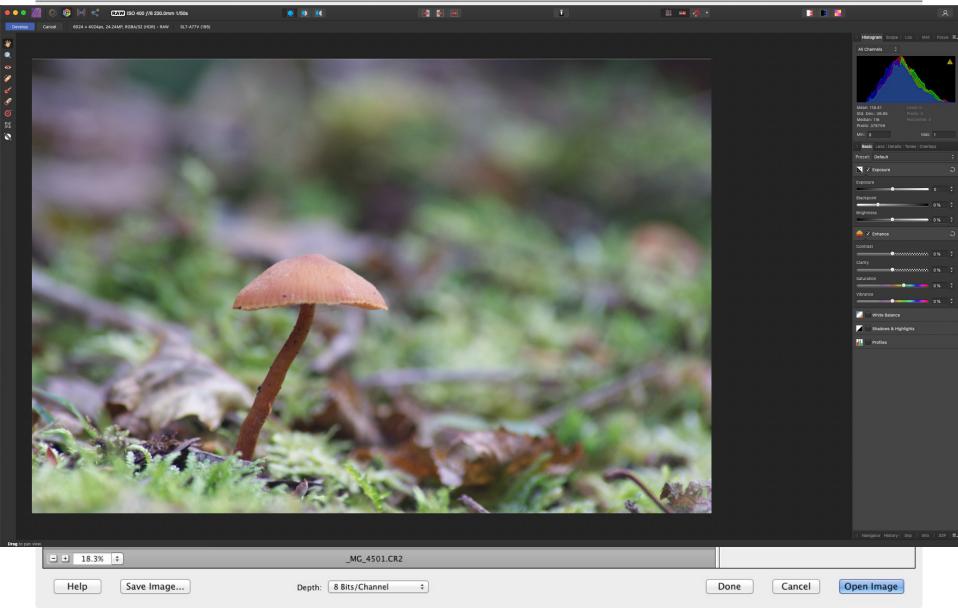


Using Affinity Photo to prepare & print your image

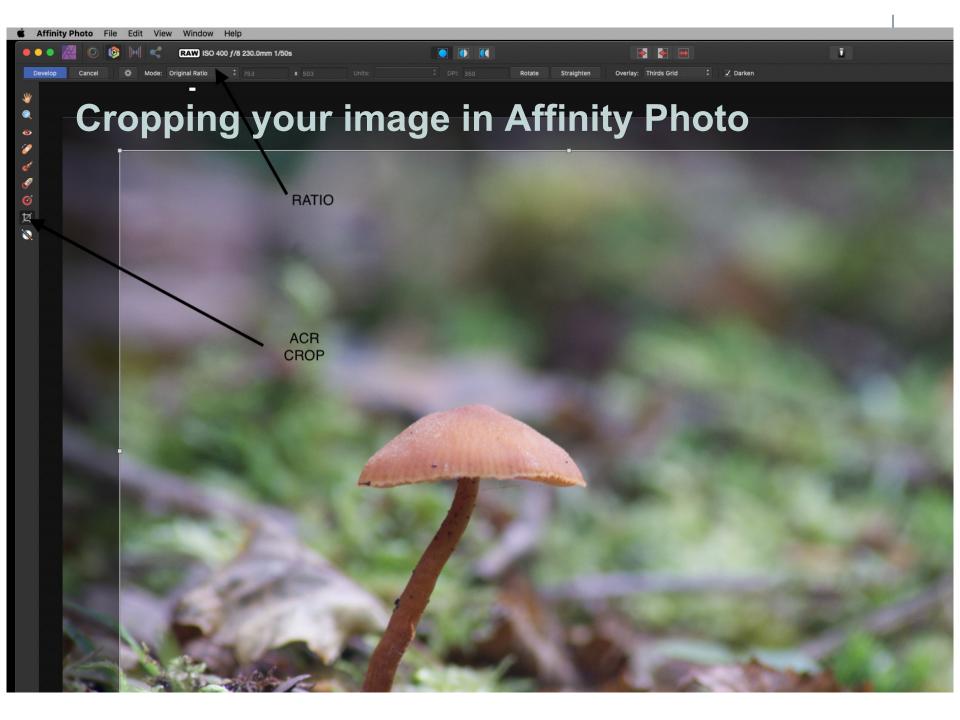
- Similar to Photoshop needs doing in three stages
- After image is finalised:
 - Crop image to appropriate aspect ratio (to fit in the aperture)
 - Resize image to correct dimensions in mm (or inches) at 300dpi (see later)
 - Export image as a PDF

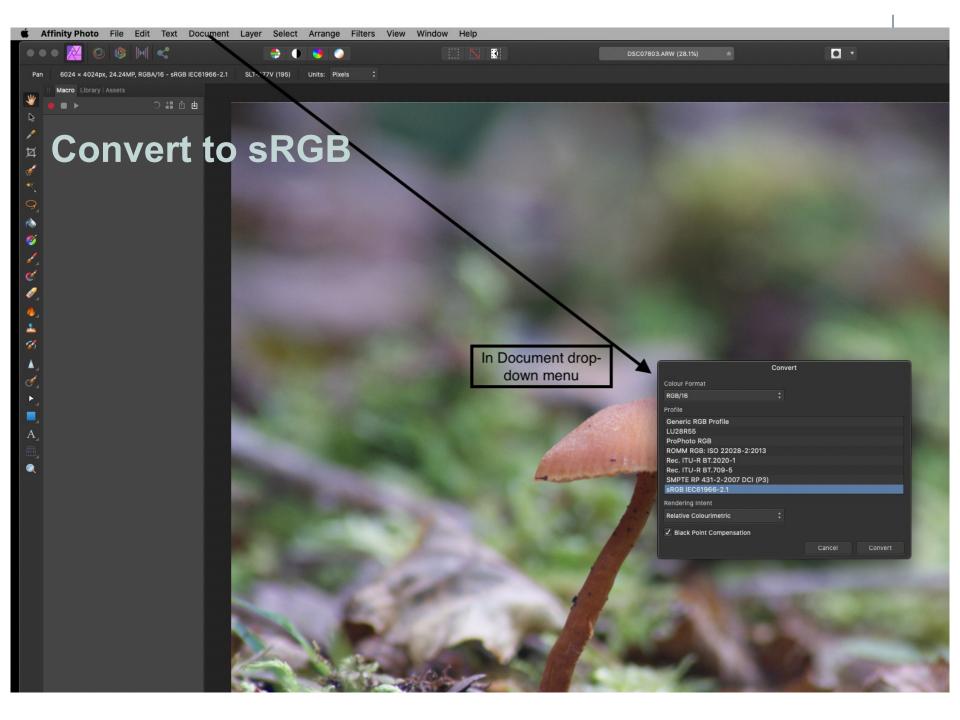
Affinity Photo in Develop Persona





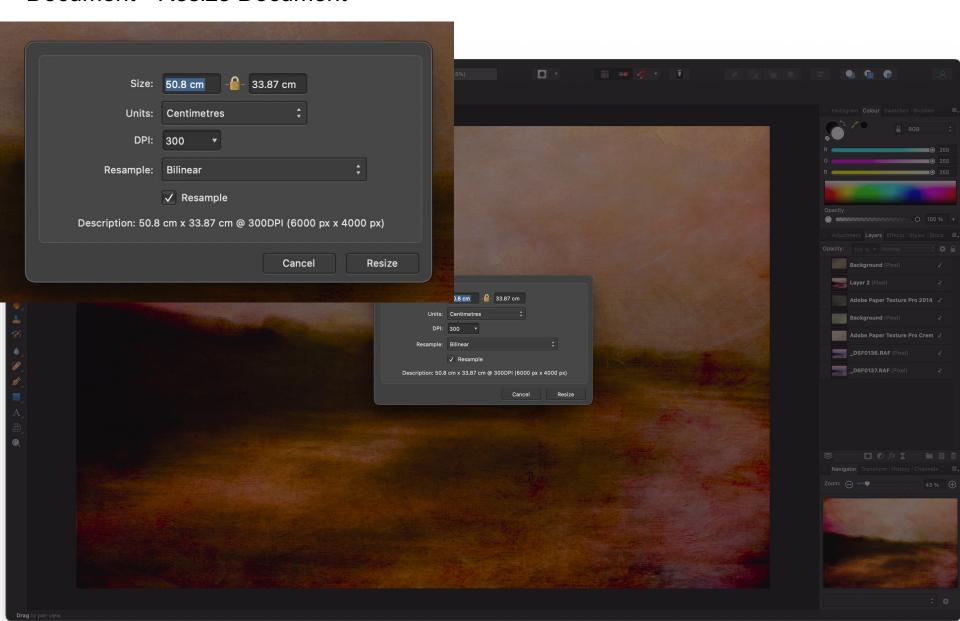
Camera Raw 7.4 - Canon EOS 5D Mark II





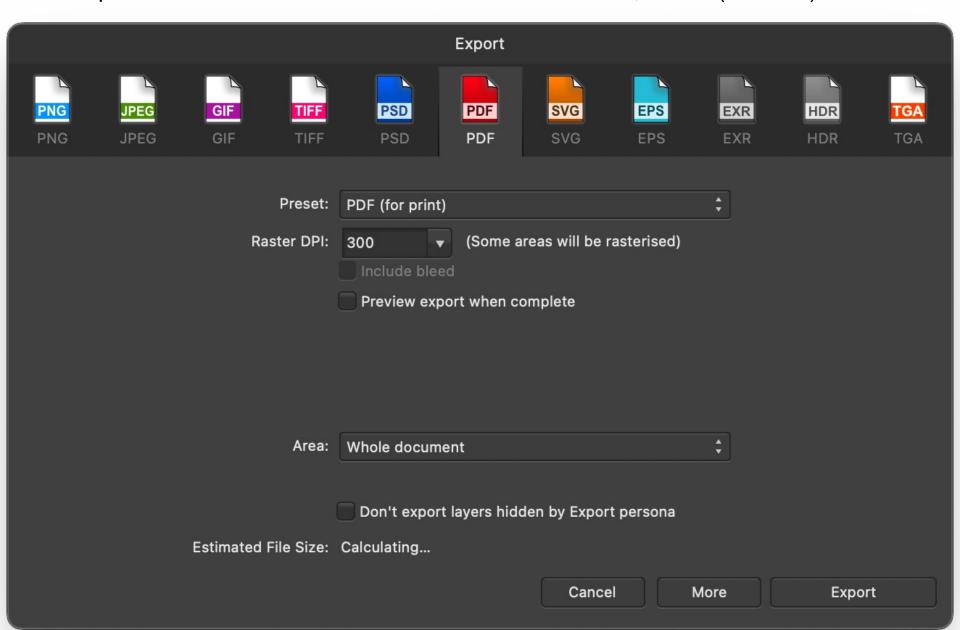
Affinity Photo Resize image to final size and DP

Document->Resize Document



Export as a PDF (ensures size and DPI etc)

File->Export and choose PDF. Make sure Tab is set to PDF,->PDF (for Print) 300DPI



Ordering a print



- When you "export" do it to a new folder with a sensible name eg "R Crocombe Print ddmmyy"
- Things you must specify to PrintShop or results are not guaranteed
 - What Paper to print on eg Finesse 300gsm Gloss
 - Paper used is always SRA3 (450mm x 320mm) whatever size print is
 - Do Not Resize (Export at 118ppcm or 300dpi creates correct size)
 - Centred (image on paper) This gives the white space round the image
 - Below is what I send to Printshop in the body of the email:

Would you kindly print the following image centred on a sheet of Finesse 300gsm Gloss Image is prepared at 300 ppi so please do not resize,

Or use Wetransfer with this message associated with the image

Sending prints off to Printshop



- After checking your "exported" image
 - ARGB, less than 45cm x 32cm, at least 300ppi
- Log onto WeTransfer.com
- Enter name of the printshop at Chi Uni as recipient
 - printshop@chi.ac.uk
 - Enter your email address
 - In the body of the email being prepared:
 - Specify which paper to be used, what size paper you want the images printed on, centred, do not resize
 - How many images there are to print
 - Upload the image file (if one) or folder (if several)
- Wait 48 hours for a response (under normal conditions)



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Cycle Store

Pavillion Bungalow

Bus Stop

Bognor Regis Campus map





Printshop also print canvas

- For larger pictures (than SRA3) Canvas can be a good way to get images printed by Print shop.
- 20" x 16" printed and mounted £40 inc vat (commercial around £44)
- 40" x 20" printed £18 (commercial around £50)



Apertures



- How big a hole in the mountboard do you want/need?
- Too big?
 - Surround is too thin to separate image from edge
- Too small?
 - Image is lost in mount
- Artistic decision but here are some pointers:
 - Some images are square by nature
 - Some images are panoramic
 - Better to crop image (with frame) than to leave dead space
- Making mounts reusable lowers cost of entire process
- I use four different aperture sizes and can always fit my images within one of them!
- I print images 1cm larger than mount aperture

I now use Cotswold Mounts



I have 4 different aspect ratios (to match 3 different apertures)

- "7x5" (-> 1.362:1)
 "16x9" (-> 1.73:1)
 Prints to 32cm x 23.5cm
 Prints to 32cm x 18.5cm
 Prints to 32cm x 15.9cm
- Square (1:1) Prints to 20cm/x 20cm
- These parameters are stored as presets in Lightroom
- I purchase A3+ paper and always print 2 images to the same sheet (2cm bigger than A4) (could use SRA3 equally)
- Aperture size is 1cm smaller than print to ensure overlap
 Cotwold Mounts order Double white mount Snow white, White core 50 x 40 cm

Picture								
ratio	LR crop	Apertui	re	x pertu	ıre			
(rough)	ratio	lgth	/{	hght	\angle	Print Lgth	Print h	ght
5x7	1.362x1		/ 31 [\]	\	22.5	3	2	23.5
16x9	1.7297x1		31)	17.5	3	2	18.5
Panoramic	2.013x1		31	/	14.9	3	2	15.9
1x1	1x1		19		19	2	0	20

Using this re-use approach with Printshop



- Max paper size is 32cm x 45cm
- My max print size ("aspect ration 5x7") is 32cm x
 23.5cm (aperture is 1cm smaller)
- Next one is ("Aspect Ratio 16x9") 32cm x 18.5cm
- Next one is ("Aspect Ratio 16x10") 32cm x 15.9cm
- Last is 20cm square image

This summary is expanded in other workshops

- Affinity Photo intro 8th Oct
- From Camera to Competition 26th Nov
- Printing from Smart Phones 18th Feb 2023
- Affinity Photo Printing 18th March 2023
- I will also also running an Intro to Lightroom printing (6 workshops) for the RPS

13-Aug-22 Field trip to explore the Basics of Composition	On Location Bosham
24-Sep-22 Getting to Grips with Your Camera	St Mary's small hall
08-Oct-22 Affinity photo intro	On Zoom
12-Nov-22 Photoshop to Affinity Photo migration	On Zoom
26-Nov-22 Basic Post processing	St Mary's small hall
03-Dec-22 Creating your own Christmas cards	On Zoom
14-Jan-22 Getting to grips with your camera: part 2	St Mary's small hall
28-Jan-23 Bubbles, Balloons, Drippers and dripping	St Mary's small hall
18-Feb-23 Smart Phone photography and printing from smart phones	St Mary's small hall
18-Mar-23 Affinity photo printing	St Mary's small hall
15-Apr-23 Introduction to Infrared	St Mary's small hall
13-May-23 Affinity photo advanced	On Zoom
10-Jun-23 Blend and layers morning	On Zoom



ANY QUESTIONS? COME AND CHAT AFTER THE BREAK