

SIZING DIGITAL PROJECTED IMAGES FOR COMPETITIONS



1400 PIXELS WIDE - MAXIMUM

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MAXIMUM DIMENSIONS – LANDSCAPE FORMAT

These are the maximum dimensions. If the image size is below these dimensions a canvas can be added to bring the image to the maximum dimensions. The use of a canvas is optional.

Colour space sRGB

Max File Size 2MB.

1400 PIXELS WIDE

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840 PIXELS WIDE

CANVAS ADDED TO LANDSCAPE FORMAT

A canvas added to bring the image to the maximum dimensions.

Colour space sRGB

Max File Size 2MB.

<1400 PIXELS WIDE (ACTUAL 840)

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MAXIMUM DIMENSIONS – PORTRAIT FORMAT

These are the maximum dimensions. If the image size is below these dimensions a canvas can be added to bring the image to the maximum dimensions. The use of a canvas is optional.

Colour space sRGB

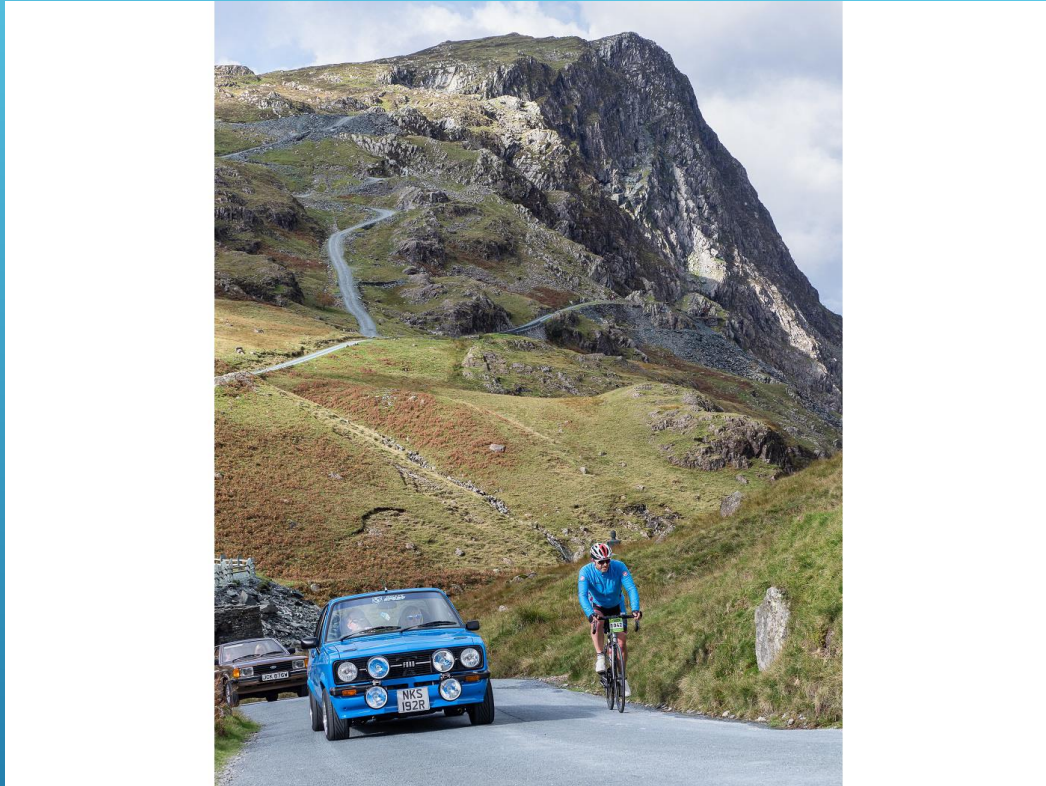
Max File Size 2MB.

1400 PIXELS WIDE

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840 PIXELS WIDE

CANVAS ADDED TO PORTRAIT FORMAT

A canvas added to bring the image to the maximum dimensions.

Colour space sRGB

Max File Size 2MB.

ADOBE LIGHTROOM EXPORT SCREEN

File Settings

Image Format: Quality: 100

Color Space: Limit File Size To: K

Image Sizing

Resize to Fit: Don't Enlarge

W: H: Resolution:

Output Sharpening

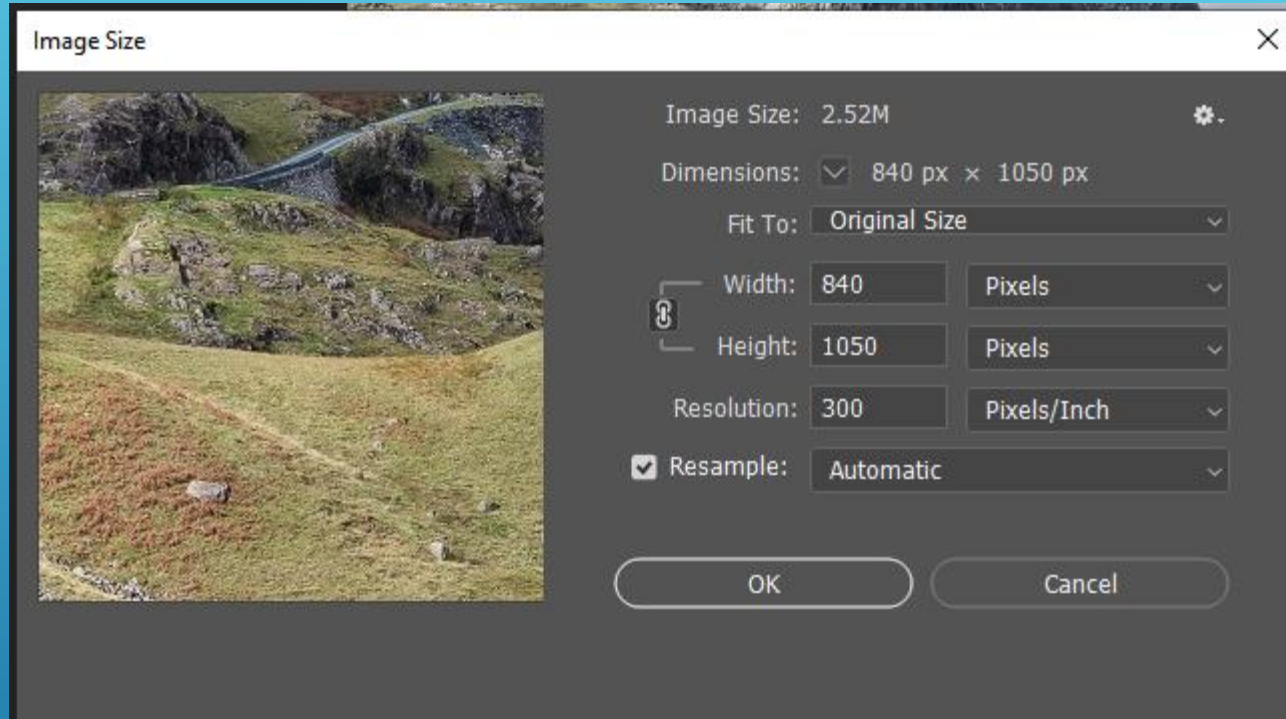
Sharpen For: Amount:

Metadata

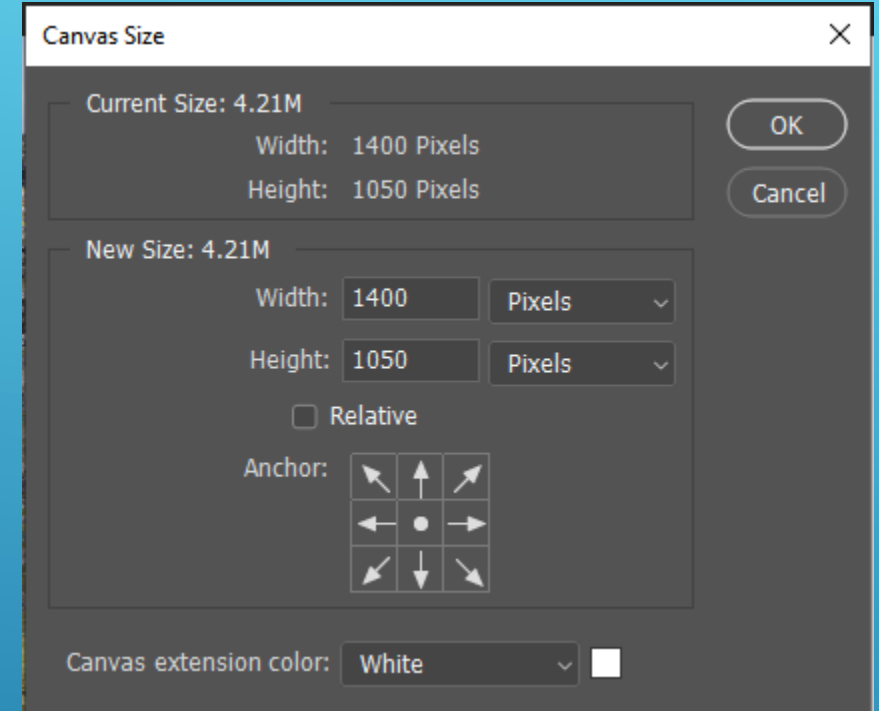
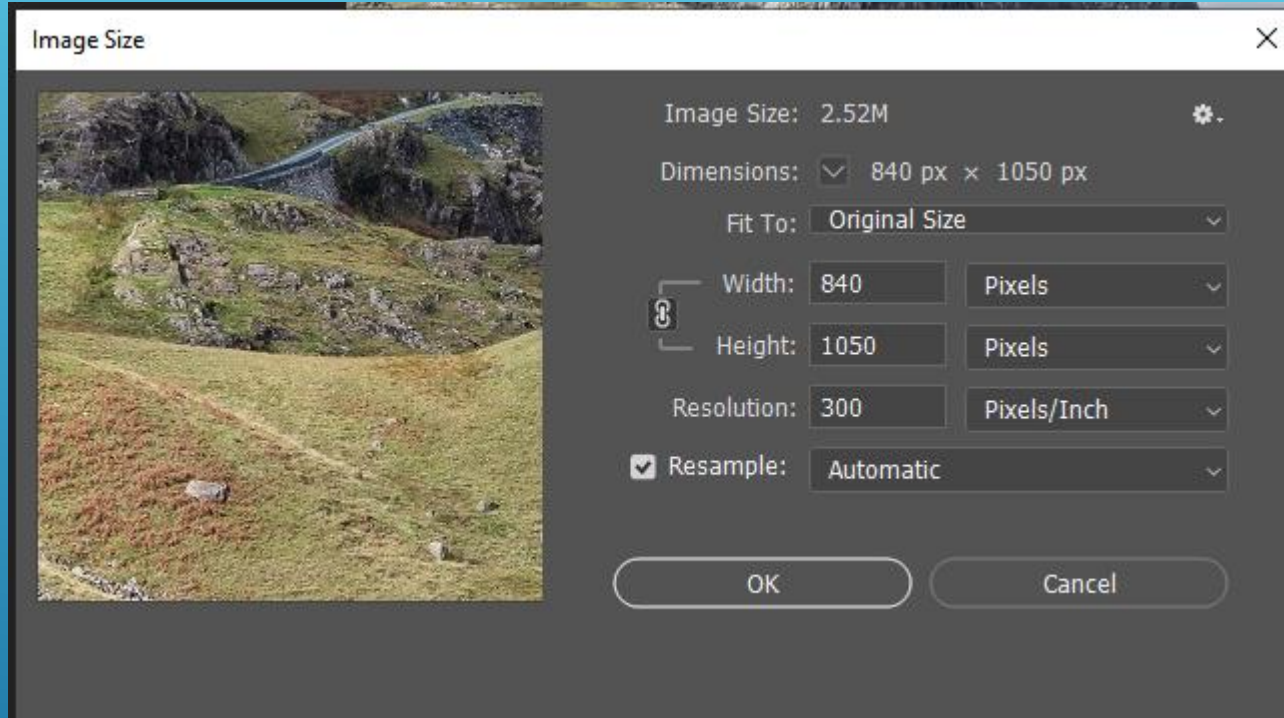
Include:

If portrait image exported with these parameters the 1050 pixel height will limit the width of the image

ADOBE PHOTOSHOP IMAGE – IMAGE SIZE SCREEN



ADOBE PHOTOSHOP IMAGE – CANVAS SIZE SCREEN



Portrait format image which is 840 pixels wide has a white canvas added to make it 1400 pixels wide

1400 PIXELS WIDE

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840 PIXELS WIDE

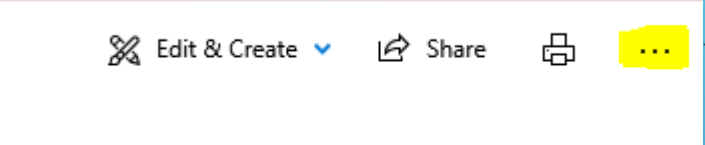
CANVAS ADDED TO PORTRAIT FORMAT

A canvas added to bring the image to the maximum dimensions.

Colour space sRGB

Max File Size 2MB.

MICROSOFT PHOTOS - IMAGE RESIZING



CLICK ON DOTS TO BRING UP SUB MENU

- Slideshow
- Save as
- Resize
- Copy
- Open with
- Set as >
- View actual size
- File information
- Send feedback
- Settings

Resize image

Current size: 13.1 MP

- S** Best for profile pictures and thumbnails
0.25 MP
- M** Best for emails and messages
2 MP
- L** Best for viewing
4 MP
- C** Define custom dimensions

Resize image

Current dimensions: 4785 x 2866

Width: Height:

Maintain aspect ratio

Quality: 80% (High)

Save resized copy

Resize image

Current dimensions: 4785 x 2866

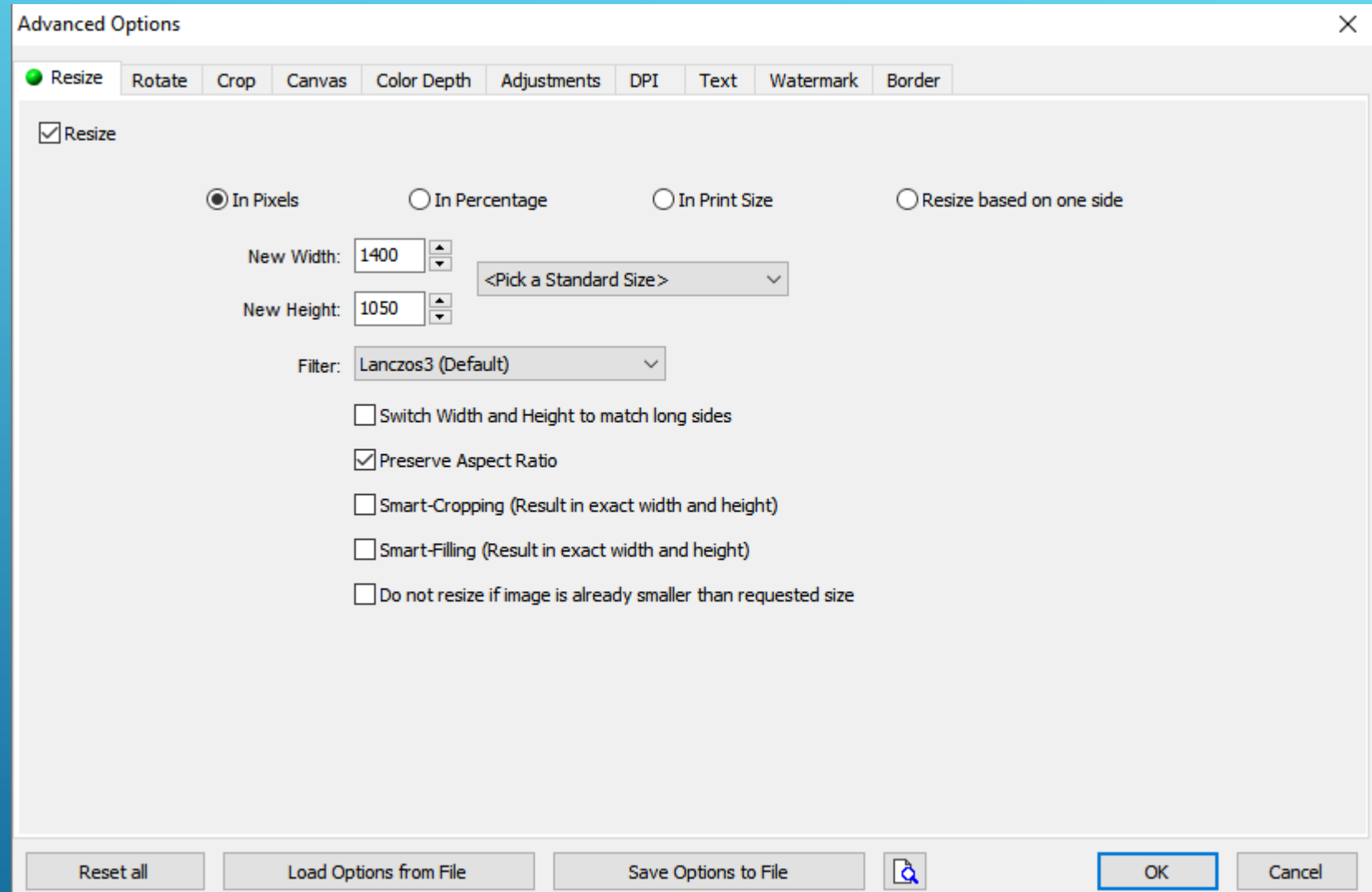
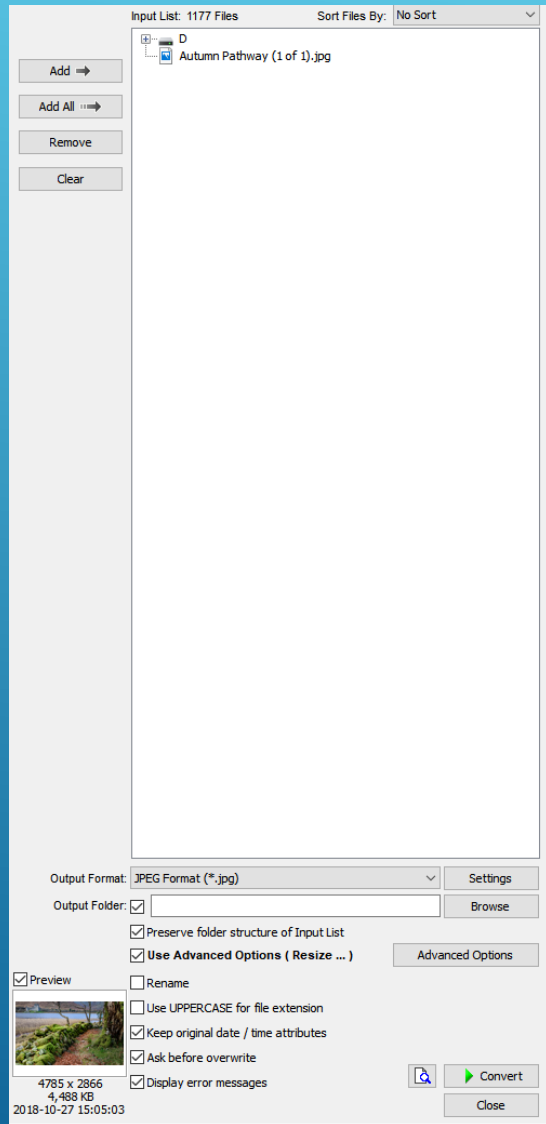
Width: × Height:

Maintain aspect ratio

Quality: 80% (High)

Save resized copy

FASTSTONE PHOTORESIZER 4.3



SIZING IMAGES FOR PRINTING



MAXIMUM MOUNT DIMENSIONS – LANDSCAPE FORMAT

50 cm WIDE - MAXIMUM

40 cm HIGH MAX

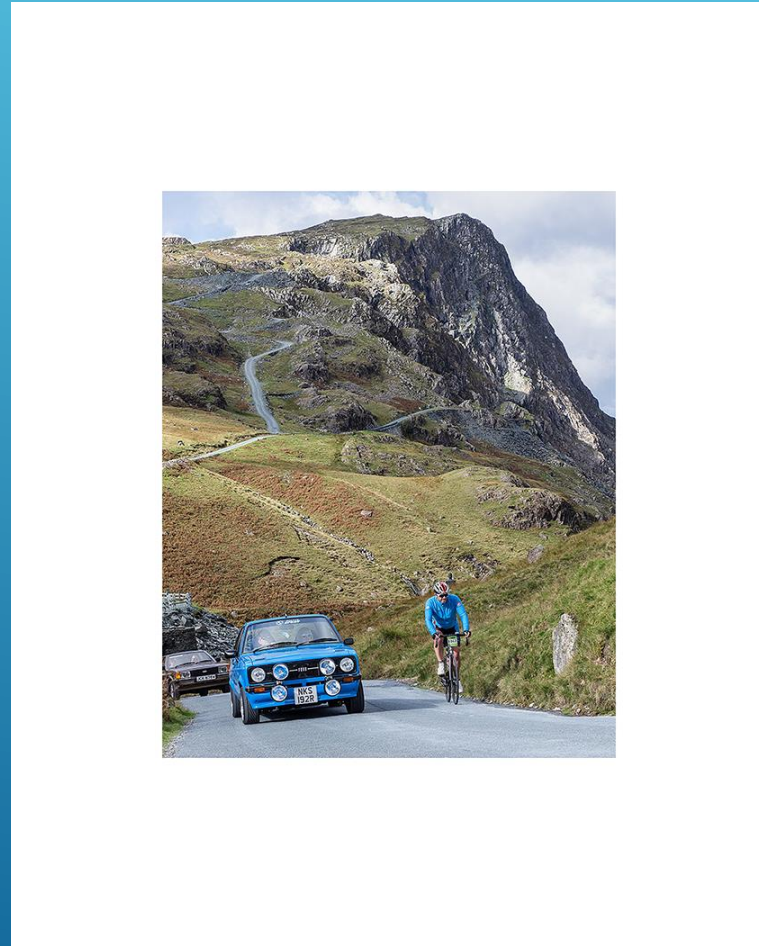


MAXIMUM MOUNT DIMENSIONS – PORTRAIT FORMAT

40 cm WIDE - MAX



50 cm HIGH MAX



What is PPI?

The word “pixel” means a picture element. Every photograph, in digital form, is made up of pixels. They are the smallest unit of information that makes up a picture. Usually round or square, they are typically arranged in a 2-dimensional grid

PPI stands for pixels per inch. PPI describes the resolution of a digital image, not a print. PPI is used to resize images in preparation for printing.

The size at which an image appears on your screen depends only on two things - the pixel dimensions of the image and the display resolution of your screen. As long as you've set your screen to its native display resolution then an image will be displayed pixel-for-pixel. In other words, each pixel in the image will take up exactly one pixel on your screen. For example, a 1400 x 1050 pixel image would fill a 1400 x 1050 pixel area of a 1920 x 1080 pixel screen (HD). No more, no less. And no matter what you set the image's resolution to in Photoshop, whether it's 72 ppi, 300 ppi or 3000 ppi, it will have no effect at all on how large or small the image appears on the screen

1400 x 1050 image @ 100% on 1920 x 1080 screen



PPI Print Standards

When setting an image to be printed, it's best to use the correct pixels per inch.

A number between 200 and 300 is generally accepted to represent "photographic quality" at an arm's length viewing distance.

If an image has a resolution of < 200 PPI, it just shouldn't ever hit a printer for club images which are viewed at arm's length.

The optimal printing resolution to get the most out of your printer is likely to fall within the range of 240-360ppi.

Most printing laboratories advise JPEG images at 300 PPI.

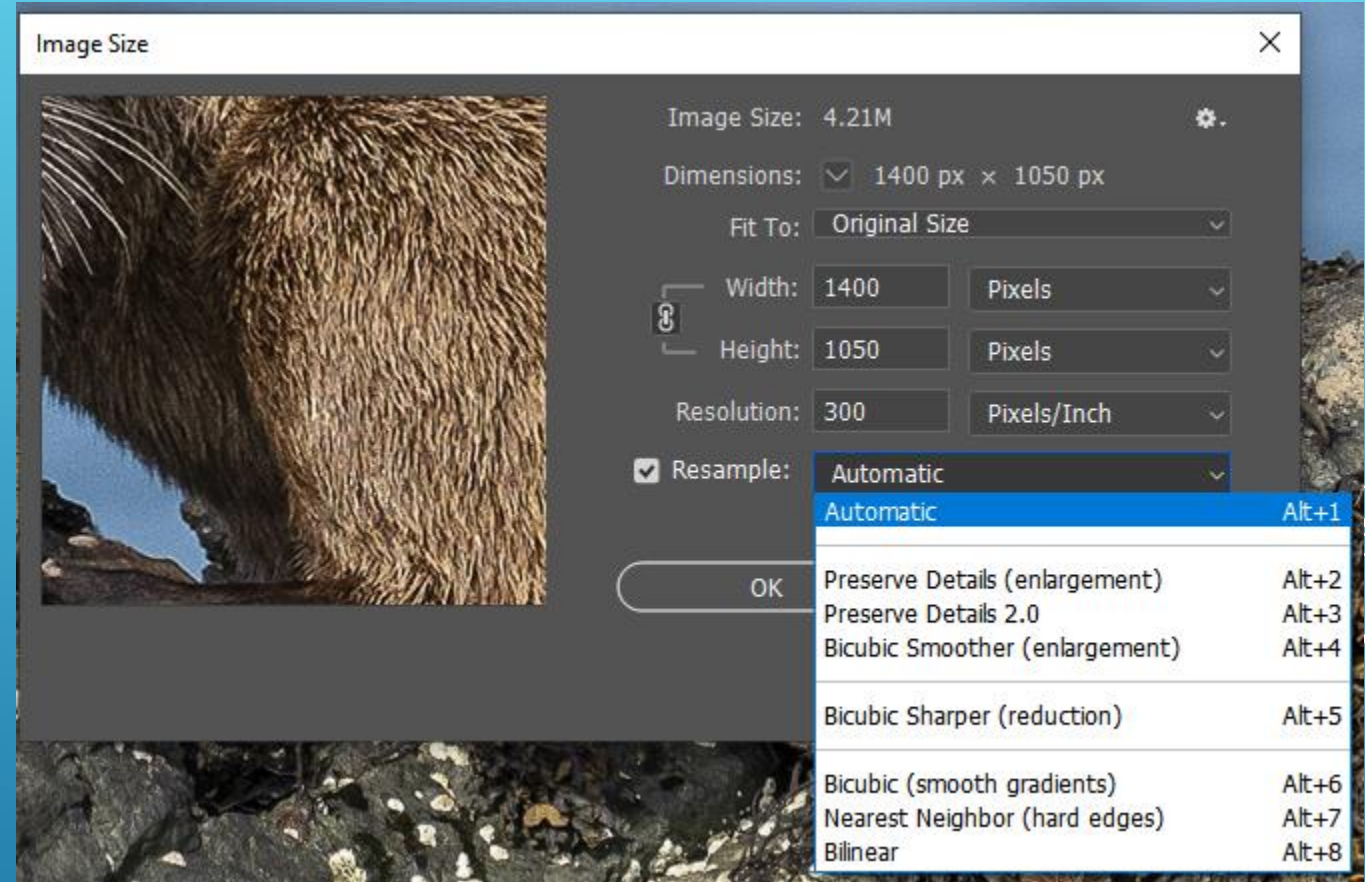
DPI Print Standards

In printing, DPI (dots per inch) refers to the output resolution of a printer.

Photographic printers such as the Canon Pixma Pro 100 offer a resolution of 4800 X 2400dpi

On the Canon printer you can change the DPI by selecting the Print Quality from High, Standard, Fast and Custom.

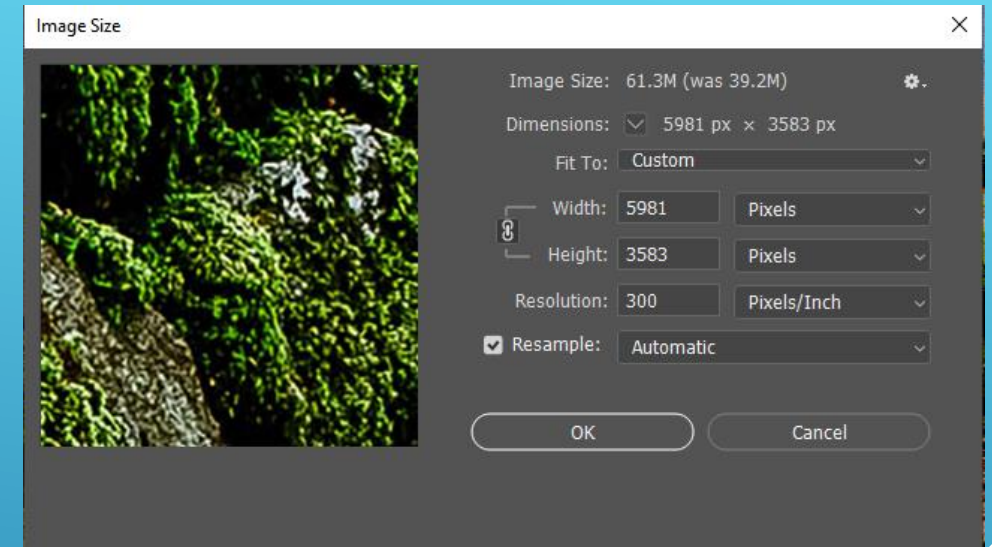
CALCULATION OF PRINTED IMAGE SIZE FROM PIXEL DIMENSIONS



$$\text{Picture size} = \frac{1400}{300} \times \frac{1050}{300} = 4.7 \times 3.5 \text{ inches}$$

$$\text{Picture size} = \frac{1400}{200} \times \frac{1050}{200} = 7.0 \times 5.25 \text{ inches}$$

CALCULATION OF PRINTED IMAGE SIZE FROM PIXEL DIMENSIONS



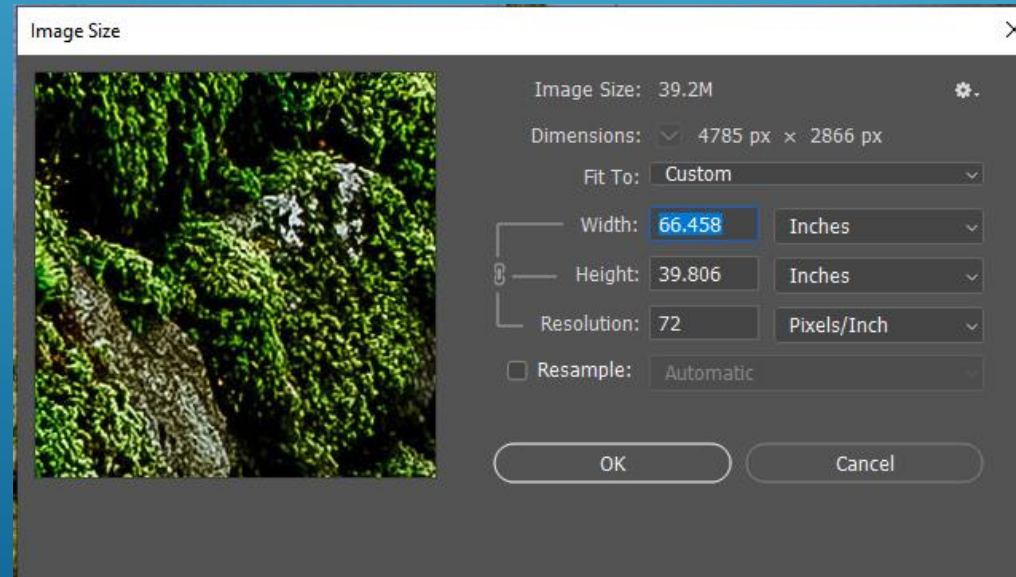
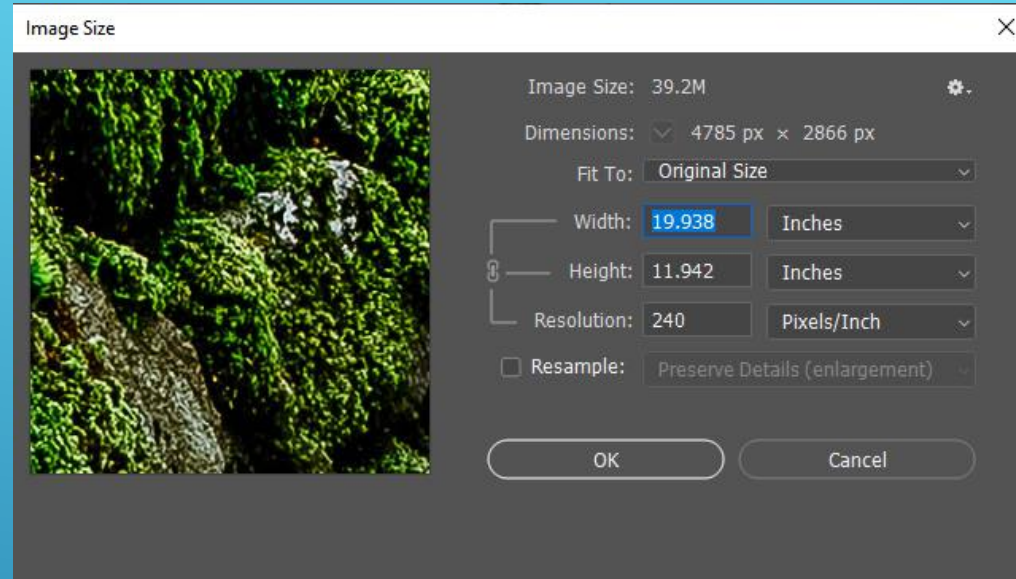
$$\text{Picture size} = \frac{5981}{300} \times \frac{3583}{300} = 19.9 \times 11.9 \text{ inches}$$

Common photo print sizes in inches	Photo print sizes in centimetres	Required Image size in pixels @ 300 PPI resolution
10x8	25.4 x 20.32	3000 x 2400
A4	29.7 x 21.0	3508 x 2480
12x8	30.48 x 20.32	3600 x 2400
12x10	30.48 x 25.4	3600 x 3000
14x10	35.56 x 25.4	4200 x 3000
15x10	38.1 x 25.4	4500 x 3000
16x12	40.64 x 30.48	4800 x 3600
A3	42.00 x 29.70	4961 x 3508
18x10	45.72 x 25.4	5400 x 3000
18x12	45.72 x 30.48	5400 x 3600

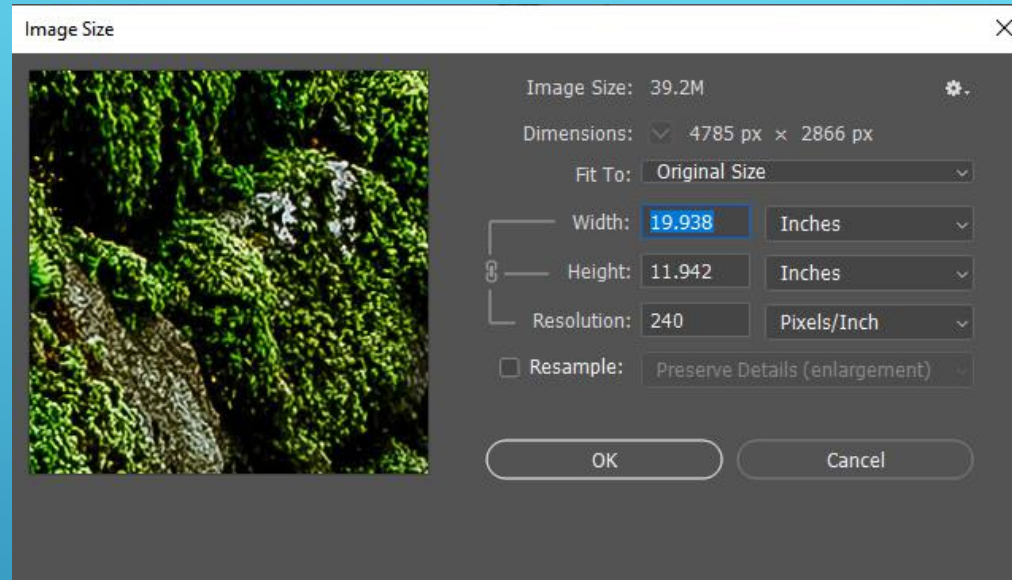
RESIZING IMAGES



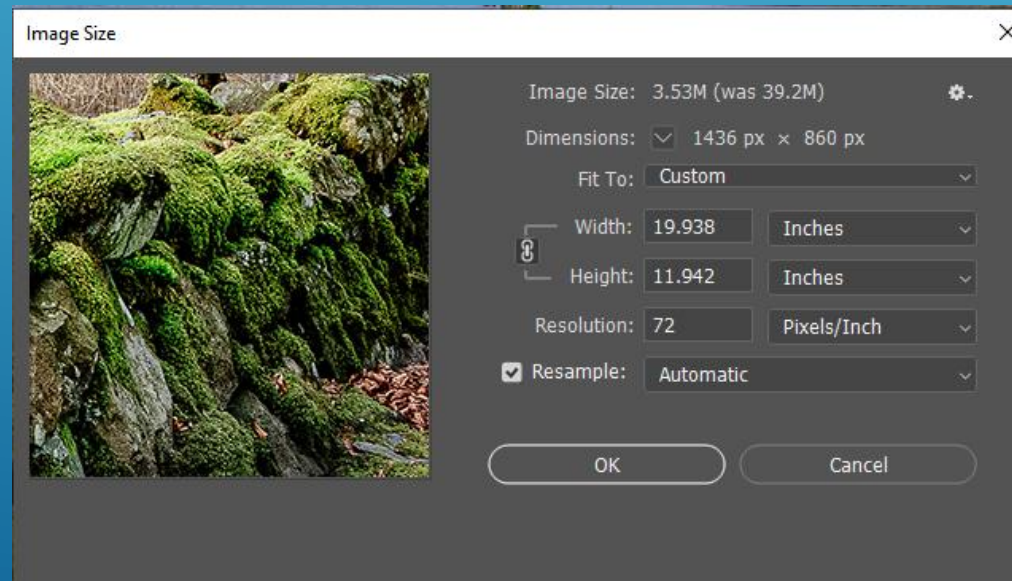
Resizing the image does not affect the number of pixels, but rather the print output. The image dimensions are 4785 pixels by 2866 pixels and at 240 PPI this measures 19.9 x 11.9 inch. When *resized* to 72 PPI the number of pixels are unchanged and image is resized to 66.5 x 39.8 inches



RESAMPLING (INTERPOLATION)



Resampling (Interpolation) an image refers to adjusting the amount of pixels in an image to retain the same printed height and width. The output size of this image is 19.9 x 11.9 inches. At 240 PPI the image dimensions are 4785 pixels by 2866 pixels and file size 39.2M, but when *resampled* to 72 PPI the number of pixels is reduced to 1436 pixels by 860 pixels and the file size is reduced to 3.5M.



THE END

