

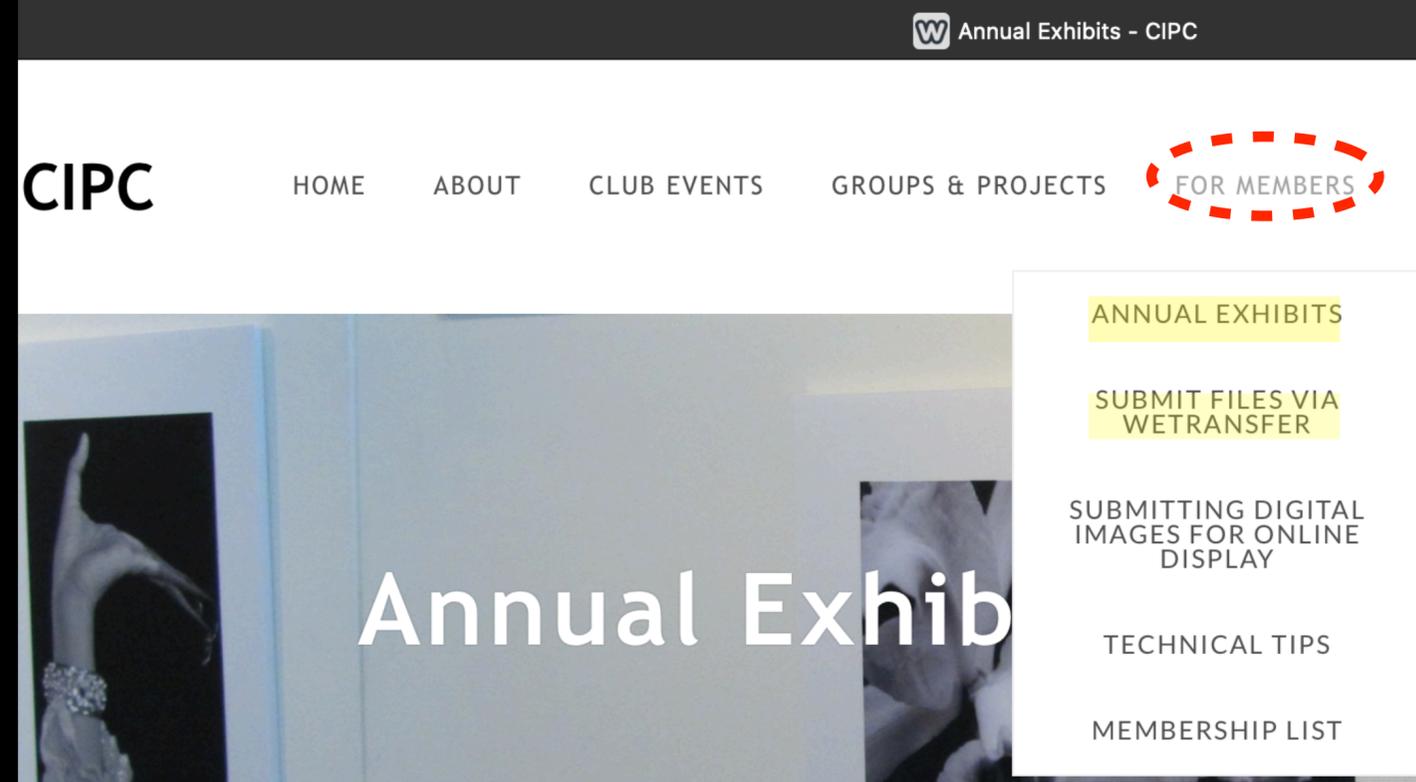


# Preparing Photos for Printing

Submitting Photos for a Callawassie Island Photo Club Exhibition

Roderic Don / 10 October 2023

## *Oh, the Places You'll Go!*



The Annual Exhibits page (under FOR MEMBERS) on the CIPC web site has further information and relevant links

- General guidelines and pricing (first print is free)
- Link to WeTransfer for file transfer
- Link to online Entry Form for photo info (title, description, etc.) for displaying
- Payment instructions

Please submit your photos as soon as possible, but no later than October 29

# Preparing photos for printing

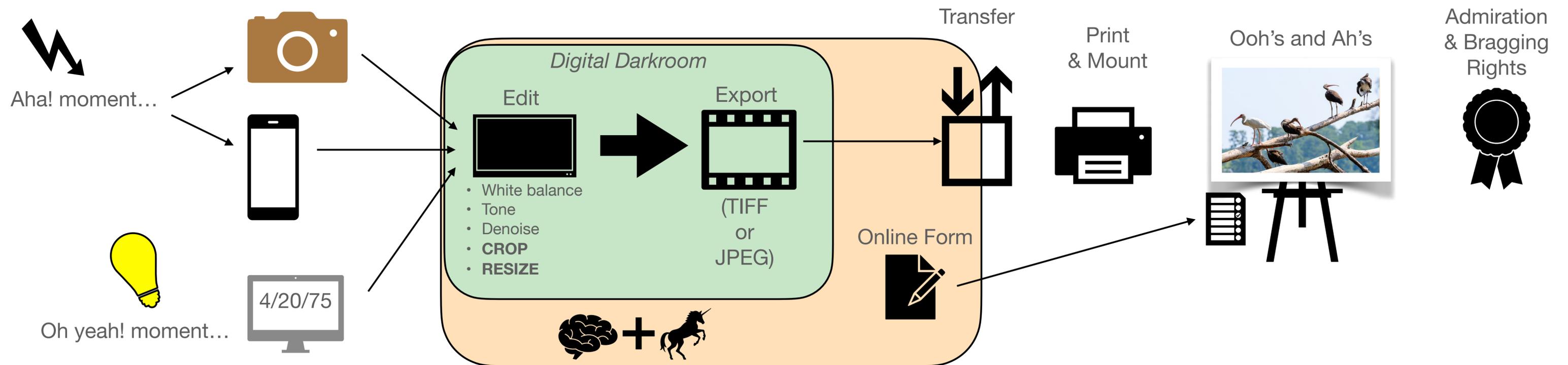
## Displaying your images at their best at the CIPC Photo Exhibit

Things to know:

- **NEW:** Exhibit photos can be printed on several different sizes of paper
- The *aspect ratio* of submitted images has to match one of those sizes (with the exception of panoramic photos); most will require *cropping*
- For optimum print quality, the *resolution* of submitted images must be 300 pixels (dots) per inch; most images will require *resizing*

**Not to worry!** Very capable help is available to assist you through the entire preparation process

# The process in a nutshell...



**Easy, right?**

# Printer paper sizes

## New options for this exhibit!

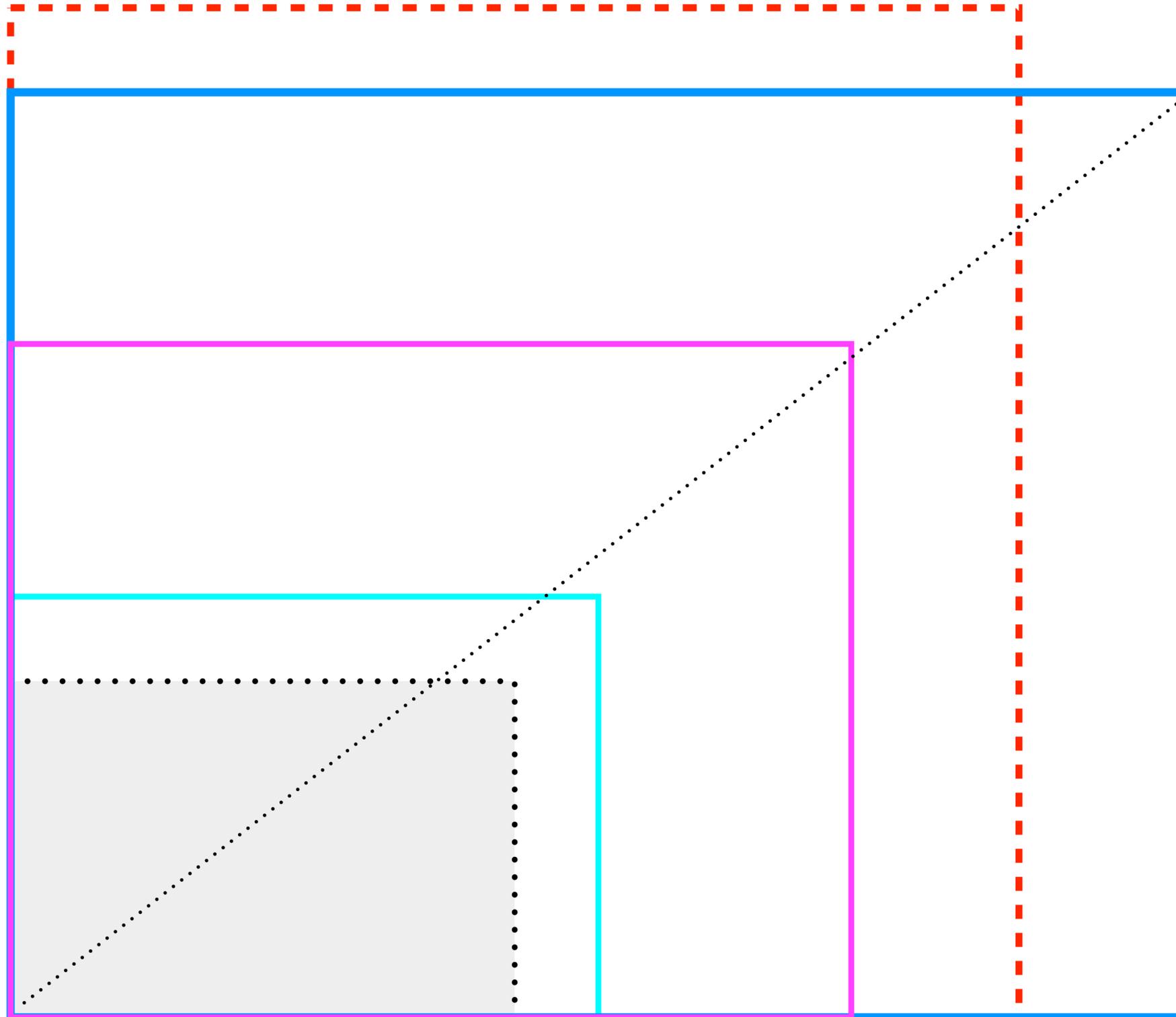
Available paper sizes for entries in the Fall 2023 exhibit:

- 5" x 7"
- 8" x 10"
- 11" x 14"

**Note: the sizes above can be oriented "tall" (portrait) or "wide" (landscape format) to suit your photo**

- 12" x 12"
- All choices are printed on luster finish (aka satin or pearl) paper
- Smaller 4"x 6" 'proof' prints are offered at a very reasonable price to check colors, etc. before committing to a full-sized print - get these in early
- If you're thinking of submitting a panoramic photo, please contact Susan Halter to make sure we can support mounting it

# Comparison of offered paper sizes



Size	Pixels at 300 dpi		Total Pixels
5" x 7"	1500	2100	3.2 MP
8" x 10"	2400	3000	7.2 MP
11" x 14"	3300	4200	13.9 MP
12" x 12"	3600	3600	13.0 MP

4" x 6" Proof

**All submitted files must be one of these sizes (pixels on each side), +/- 1 or 2**

# Cropping

## Basic ideas

- We have to crop our photos, whatever the source, to get the desired *aspect ratio* (relationship of height to width) for the final exhibition print
- Most dedicated cameras have a 2 by 3 aspect ratio, and many phone cameras are 4 by 3
- Cropping removes content from at least one edge of a photo; typically used to reframe an image to highlight a subject, for example
- However, cropping out too much of an image (zooming in a lot) can result in too few remaining pixels for a sharp print at the desired paper size
- Editing software like Photoshop can ‘upscale’ an image very well and you can immediately see the result, but there are practical limits

# Photo sizes from various cameras

- Table lists image sizes and aspect ratios for a few cameras
- 12 MP is about the lower limit for ideally sharp images printed at 11" by 14" (3300 by 4200); some upsizing needed
- Even with higher pixel count cameras, tight crops can result in less than what is desirable for larger sizes
- Fortunately, 'minor' upsizing is handled well in software
- For cropping photos from phone, maybe use 8 by 10 at first before deciding on a suitable size

Camera	Image size (MP)	Dimensions (pixels)	Aspect Ratio
iPhone 6	8	3264 x 2448	4 x 3
iPhone 6s	12	4032 x 3024	4 x 3
Nikon D500	21	5568 x 3712	3 x 2
Nikon D3500	24	6000 x 4000	3 x 2
Nikon Z6 ii	24.5	6048 x 4024	3 x 2

Size	Pixels at 300 dpi		Total Pixels
5" x 7"	1500	2100	3.2 MP
8" x 10"	2400	3000	7.2 MP
11" x 14"	3300	4200	13.9 MP
12" x 12"	3600	3600	13.0 MP

# Steps for selecting a paper size

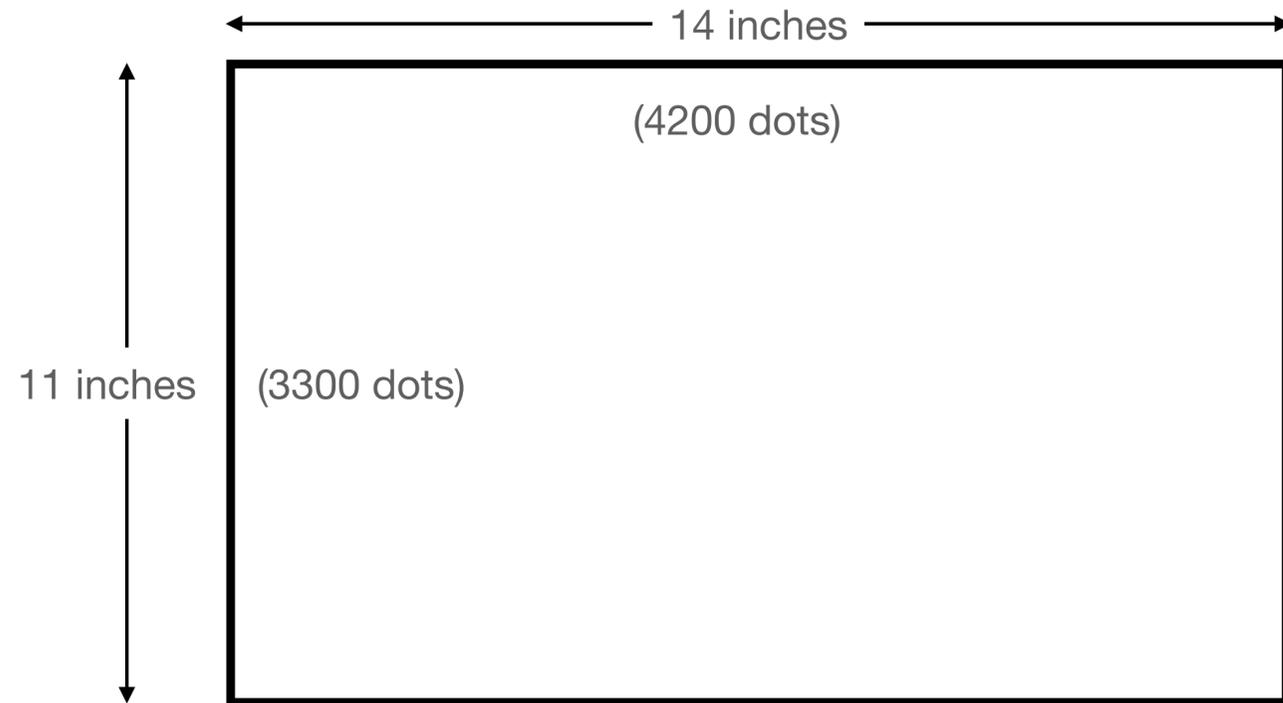
## Choose the size that's appropriate to your cropped image

Settling on a print size may be a multi-step process:

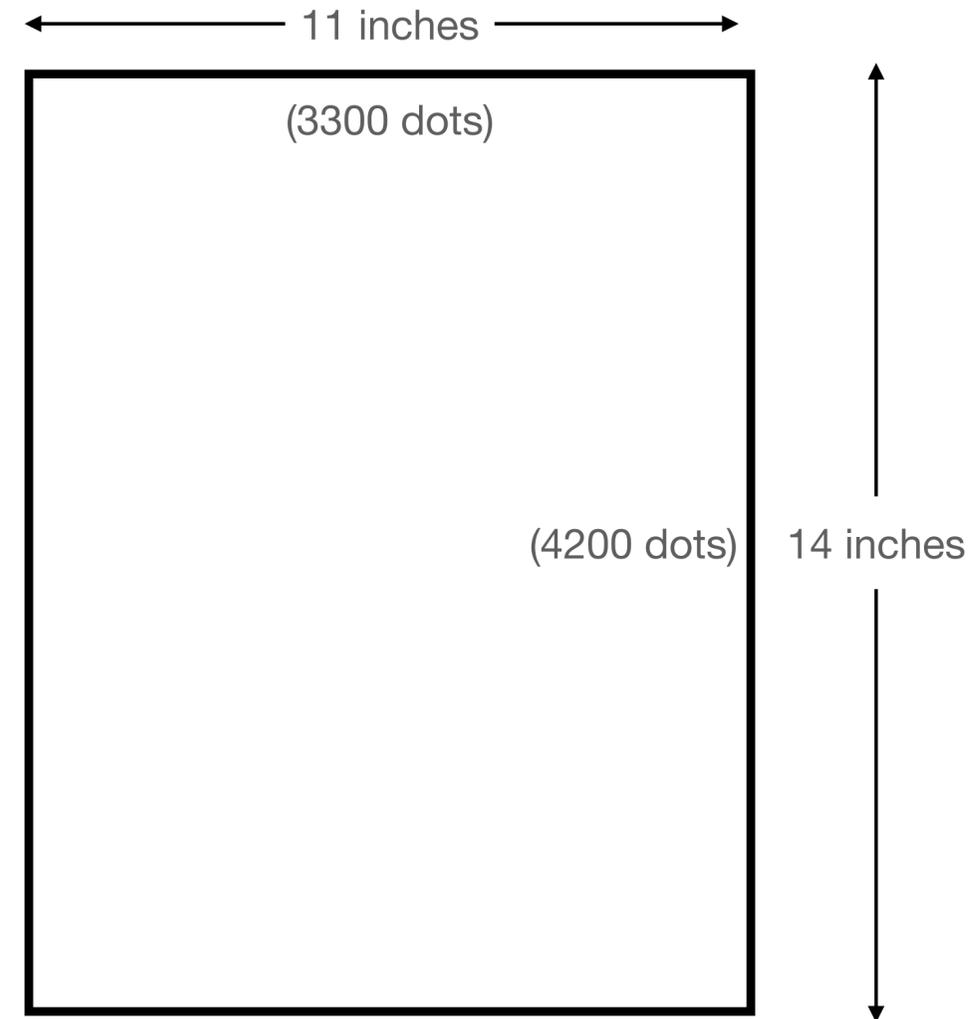
1. If desired, crop and/or straighten using the original aspect, to eliminate distracting features and highlight the desired elements
2. Choose the appropriate paper size based on the remaining pixels in the resulting image, realizing that some upsizing to get the desired pixel count may be needed and is acceptable; downsizing is always possible
3. Crop (again) to the ratio of the selected paper
4. Resize to the exact pixel count on each side to match that paper before or during export of the file, depending on software used

# Example: Final Image Dimensions

for 11" by 14" paper



**'Landscape' format**

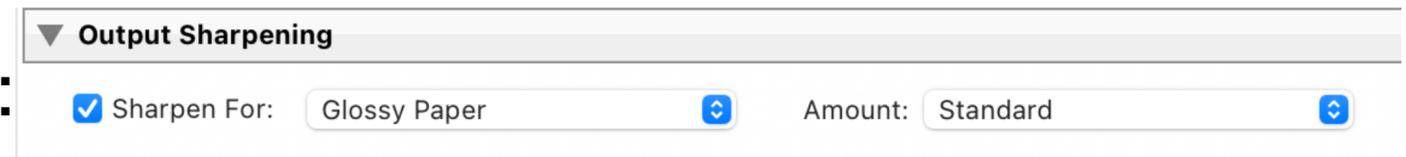


**'Portrait' format**

# Summary: File format for Printing

## for display at the CIPC Exhibition

- Crop to an available aspect ratio
- Size (up or down) to 300 dpi (dots per inch) for the selected paper size
- Specify sRGB color space
- Export file type: JPEG (8 bit) or TIFF (8 or 16 bit)
- For Lightroom export, Output Sharpening, select:
- If you use one, place a watermark away from the edge, as some slight cutoff occurs for marginless prints, and choose a size and color carefully



NOTE: for an 11” by 14” size, the resulting JPEG file is around 8 MB; a 16 bit TIFF file is much larger at around 85 MB. The TIFF file can be further edited if needed without loss of quality

# Finishing up: actually submitting files

## Transferring your file and providing related information

- Please do not email files (they can be quite large, and are sometimes automatically reformatted by the email application)
- The club is using WeTransfer (<https://wetransfer.com>), which is free and doesn't require signup; a link to a page with instructions is on the club's Annual Exhibit Information page
- There is also a link to the online entry form; please fill out one form per photo after transferring the file, and be sure to include the actual title and other text you want displayed with the photo

# Software for cropping, resizing, and saving

## Apple (MacOS)

- Apple Photos (free): see <https://support.apple.com/en-ie/guide/photos/welcome/mac> (search for “Crop and straighten photos in Photos on Mac”)
- Adobe Lightroom Classic (subscription): see existing “Instructions for Preparing Print Photo” on CIPC web site
- Adobe Photoshop (subscription): top choice for these operations; ask a fellow club member for help!

(NOTE: Lightroom and Photoshop are \$10/month in the Photography bundle)

# Software for cropping, resizing, and saving Windows

- Microsoft Photos (free) and others: see <https://www.makeuseof.com/crop-images-windows-11/>
- Adobe Lightroom Classic (subscription): see existing “Instructions for Preparing Print Photo” on CIPC web site
- Adobe Photoshop (subscription): top choice for these operations; ask a fellow club member for help!

(NOTE: Lightroom and Photoshop are \$10/month in the Photography bundle)



**2023  
PHOTO EXHIBIT**

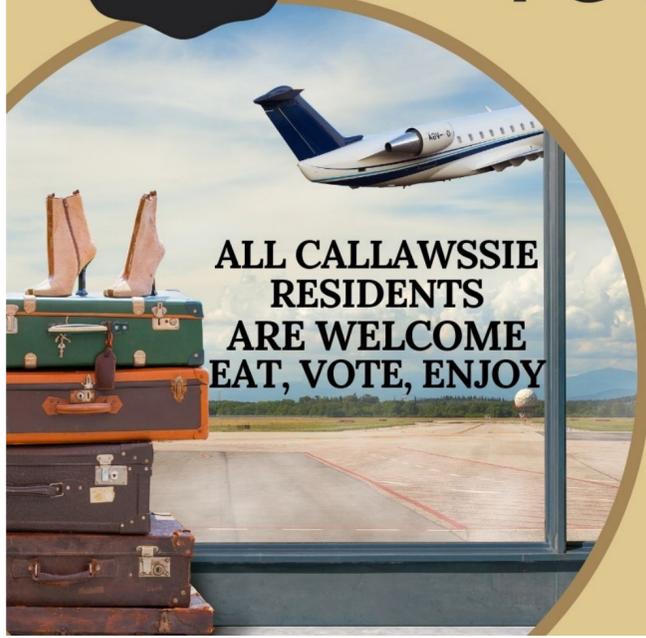
**COME SEE THE ISLAND TALENT**

**VOTE FOR YOUR  
FAVORITE IMAGE**

**NOVEMBER 10TH- 12TH**

**BISTRO  
NIGHT  
NOV 11TH**

*OH, THE PLACES  
YOU'LL GO!*



**BIN ART SALE  
(CASH OR CHECK)**