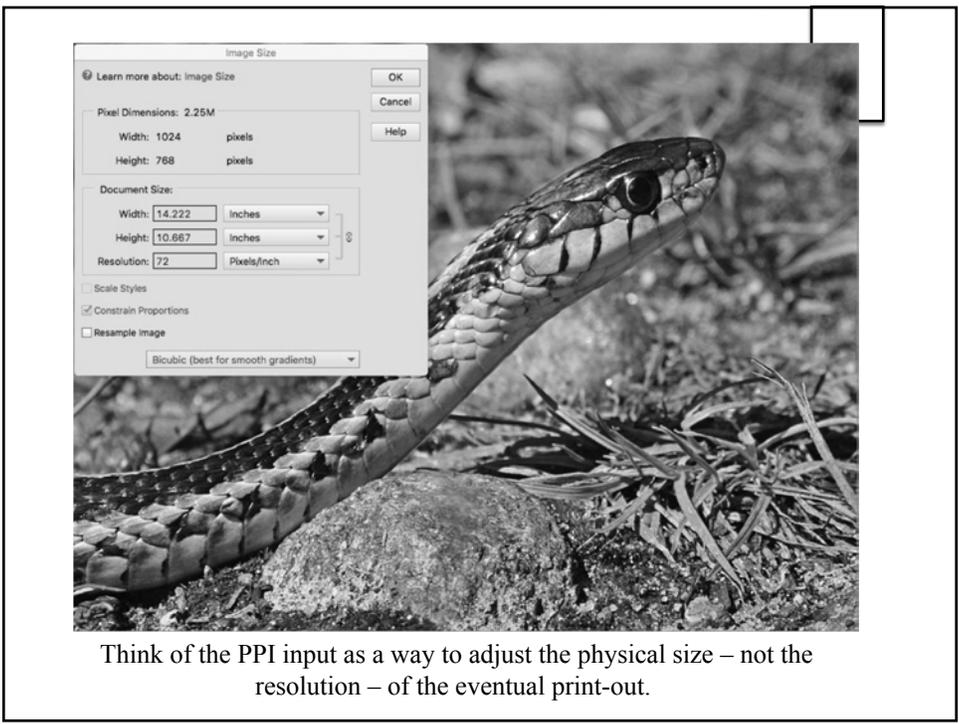
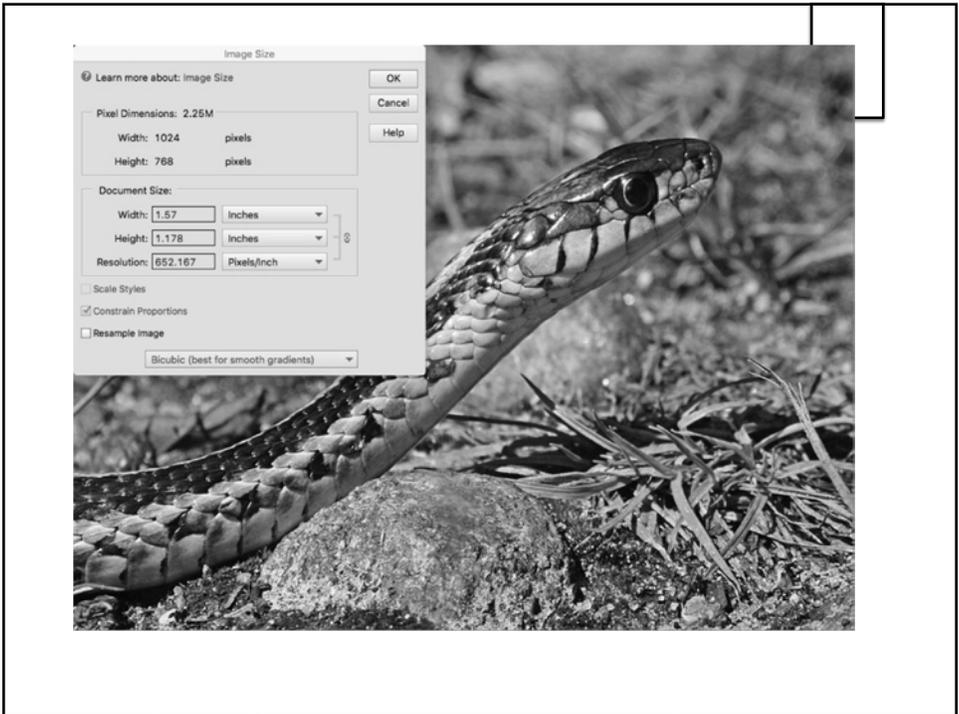


What are Pixels? The word Pixel is a shortened and combined version of the words Picture and Element. Every digital camera contains a device called the image sensor which has millions of light capturing cells. The light captured at each cell location is called a digital camera pixel. For the record, there are one million pixels in a megapixel.

When it comes to making prints from your images, you will often see the term DPI (Dots Per Inch) used rather than PPI. DPI refers to the number of dots of ink per inch used by a printing device to produce a picture on photo paper.

Though the terms DPI (dots per inch) and PPI (pixels per inch) both describe the resolution (or clarity) of an image, they're not the same thing. PPI describes the number of square pixels that show up in an inch of digital screen (usually between 67-300). DPI, on the other hand, is a printing term referring to the number of physical dots of ink in a printed document.



Think of the PPI input as a way to adjust the physical size – not the resolution – of the eventual print-out.

Image Sizing in Camera

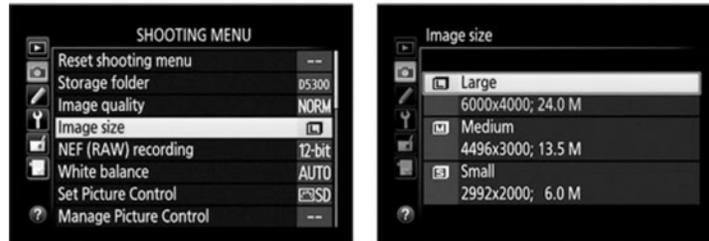


Image Sizing shown in the EXIF information from your Camera

▼ TIFF (12 Items) Artist Frank Zaremba Copyright Frank Zaremba DateTime 2017:11:03 12:07:13 Make NIKON CORPORATION Model NIKON D7100 Orientation 1 Landscape, normal PrimaryChromaticities (0.64, 0.33, 0.21, 0.71, 0.15, 0.06) ResolutionUnit 2 Software Ver.1.03 WhitePoint (0.313, 0.329) XResolution 300 YResolution 300 DPIHeight 300 DPIWidth 300 Orientation 1 Landscape, normal PixelHeight 4,000 PixelWidth 6,000		<p>Camera DPI</p> <table border="0"> <tr><td>Nikon</td><td>300</td></tr> <tr><td>Canon</td><td>240</td></tr> <tr><td>Sony</td><td>350</td></tr> <tr><td>Olympus</td><td>350</td></tr> <tr><td>Panasonic</td><td>180</td></tr> </table>	Nikon	300	Canon	240	Sony	350	Olympus	350	Panasonic	180
Nikon	300											
Canon	240											
Sony	350											
Olympus	350											
Panasonic	180											

EXchangeable Image File

Out of the Camera Image size is 20"X13.33"

Nikon 24mp camera with 300 PPI



Size for a Print

It is actually pretty easy to determine the maximum print size you can make from your digital images. First you need to determine how many DPI (dots per inch) will be used when the file is being printed. To keep it simple, let's say the printer output resolution will be 200 DPI. If your image file size is 2,000 X 1,600 you will be able to get a quality print size up to about 10 X 8.

The math involved in coming up with that size print is to first divide the number of pixels in the width of the file by the 200 DPI. ($2,000/200=10$). Next, divide the number of pixels in the height of the file by 200. ($1600/200=8$). So there you have it. A file size of 2,000 pixels X 1600 pixels can be printed to make a good quality 10 X 8 photo when printed at 200 DPI.

If you decide to make a print at 300DPI from the same image file, you will have a print with better resolution. However, the maximum size for a quality print will be smaller. Let's do the math.... $2,000/300=6.6$. Next, $1,600/300=5.3$. So, if you round the numbers out, the maximum standard size for that print will be about 5 X 7.

Size for a Print Chart

Width	Height	Mega Pixel	72	72	150	150	220	220	300	300	600	600
800	600	0.5	11.1	8.3	5.3	4.0	3.6	2.7	2.7	2.0	1.3	1.0
1024	768	0.8	14.2	10.7	6.8	5.1	4.7	3.5	3.4	2.6	1.7	1.3
1400	1050	1.5	19.4	14.6	9.3	7.0	6.4	4.8	4.7	3.5	2.3	1.8
1600	1200	2	22.2	16.7	10.7	8.0	7.3	5.5	5.3	4.0	2.7	2.0
2048	1536	3	28.4	21.3	13.7	10.2	9.3	7.0	6.8	5.1	3.4	2.6
2592	1944	5	36.0	27.0	17.3	13.0	11.8	8.8	8.6	6.5	4.3	3.2
3072	2304	7	42.7	32.0	20.5	15.4	14.0	10.5	10.2	7.7	5.1	3.8
3264	2736	9	45.3	38.0	21.8	18.2	14.8	12.4	10.9	9.1	5.4	4.6
4000	3000	12	55.6	41.7	26.7	20.0	18.2	13.6	13.3	10.0	6.7	5.0
4288	3216	14	59.6	44.7	28.6	21.4	19.5	14.6	14.3	10.7	7.1	5.4
4930	3624	18	68.5	50.3	32.9	24.2	22.4	16.5	16.4	12.1	8.2	6.0
5380	3620	19	74.7	50.3	35.9	24.1	24.5	16.5	17.9	12.1	9.0	6.0
6000	4000	24	83.3	55.6	40.0	26.7	27.3	18.2	20.0	13.3	10.0	6.7
7360	4912	36	102.2	68.2	49.1	32.7	33.5	22.3	24.5	16.4	12.3	8.2

Size for a Print

4x6, 8x12, 12x18,
16x24, 20x30



2.5x3.5, 5x7



4x5, 8x10, 16x20



3.5x5



5x5, 8x8,
10x10, 12x12, 20x20



11x14



10x13



20x24



		Minimum	Optimal	Maximum
Facebook	Cover Photo	400 x 150	1200 x 675	
	Group Cover		1640 x 859	
	Profile Picture	170 x 170	340 x 340	
	Link Image	600 x 314	1200 x 628	
	Photo Post	476 x varies	940 x 788	2048 x 2048
Twitter	Header		1500 x 500	
	Profile Photo	400 x 400	400 x 400	
	Tweeted Image	600 x 335	1200 x 675	
	Twitter Card	600 x 314	1200 x 628	
Google	Cover Photo	480 x 270	1080 x 608	2120 x 1192
	Profile Photo	250 x 250		
LinkedIn	Profile Banner		1584 x 396	
	Profile Avatar		400 x 400	
	Blog Post	600 x 314	1200 x 628	
	Company Cover	1192 x 220	1536 x 768	
	Company Logo	300 x 300	300 x 300	
Pinterest	Profile	180 x 180	600 x 600	600 x 600
	Pins	600 x 600	600 x 900	600 x 1260
	Cover	340 x 340	600 x 600	
Instagram	Profile	110 x 110	180 x 180	
	Post	1080 x 566	1080 x 1080	1080 x 1350
You Tube	Channel	1546 x 423	2560 x 1440	
	Thumbnail	640 x 360	1280 x 720	
	Icon		800 x 800	

Size
For the
WEB
Chart

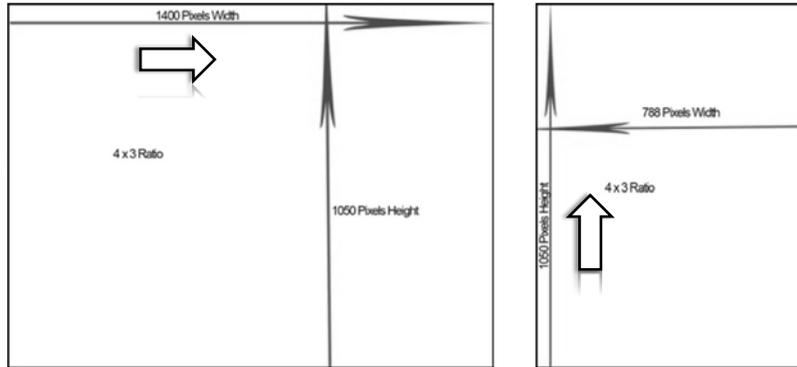
Image Size for the Simsbury Camera Club

For the 2018 – 2019 Season the Simsbury Camera Club will use the **proposed** PSA sizing guidelines. The sizing for PSA & NECCC may adopt this standard for the 2019 – 2020 Season. The Simsbury Camera club will downsize the images submitted to NECCC and PSA this year.

From the PSA Projected Image Division August 2018

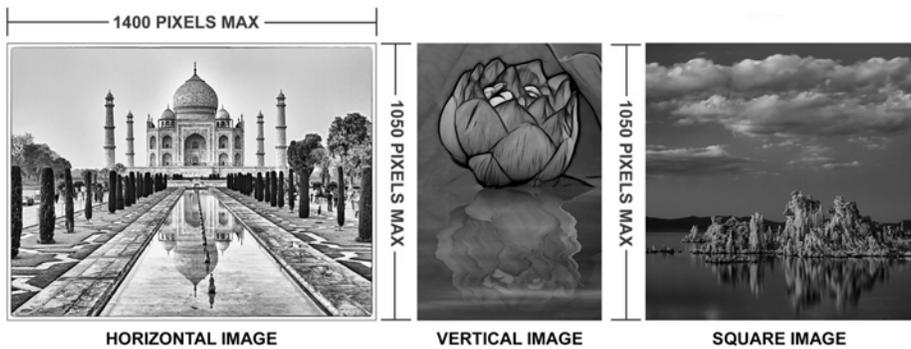
Maximum digital image width (horizontal) is 1400 pixels. Maximum digital image height (vertical) is 1050 pixels. The images will be displayed at the actual pixel dimensions submitted.

NEW Image Size for the Simsbury Camera Club



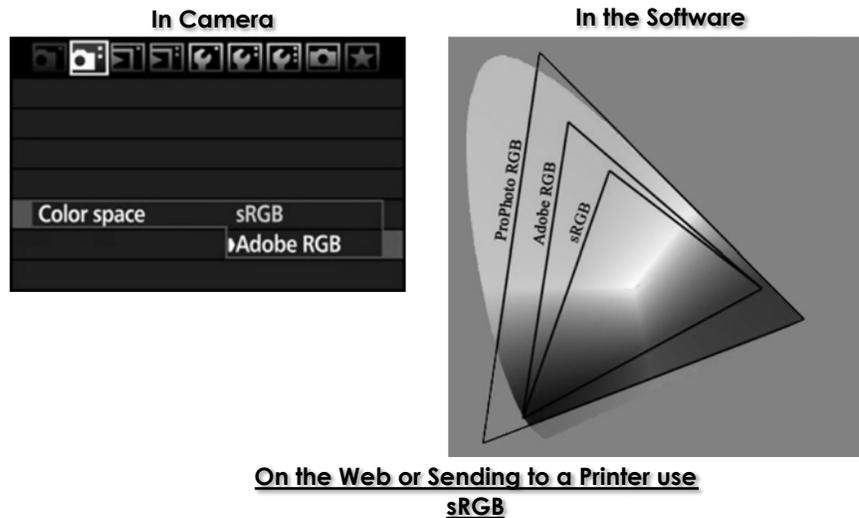
1,200KB file size Maximum

NEW Image Size for the Simsbury Camera Club



1,200KB file size Maximum

Color Space



Color Space

To better understand which one to use, you must first understand the difference between the two. AdobeRGB, by all accounts is better, as it represents a wider range of colors. How much better? They say that AdobeRGB is able to represent about 35% more color ranges than sRGB is able to. But does that make it the best for photography? Not exactly, as the world works with sRGB far more than it does with AdobeRGB.

sRGB came first, and almost everything on a computer is built around sRGB. The internet, video games, applications, personal devices, and most everything else has adapted sRGB as their standard for color space. Even the monitor you're using likely cannot display all the colors of AdobeRGB. That's right, most traditional computer monitors can only display about 97% of the sRGB color space, and only about 76% of the AdobeRGB color space.

DO NOT WATERMARK OR PLACE A LOGO ON YOUR IMAGE, if you submit to the Simsbury Camera Club

Your Image will be disqualified from any competition

When you upload your images for a competition, the club will watermark them when they are displayed on the Clubs Website

Resize Image Yes, I allow to resize this image to fit 1400x1050 1200kb

Tags PSAN
 PSAT
 Creative
 Portrait

Ribbon Yes, I would like to receive a ribbon

Watermark Add watermark, when displaying on the website – 2018 © Frank Zaremba

Size for the Simsbury Camera Club

LIGHTROOM



Settings:

- Image Format – JPEG
- Color Space - sRGB
- Quality – 100
- Limit File Size To – 1,200k
- Resize to Fit – Width & Height
- W – 1400(Maximum)
- H – 1050(Maximum)
- Resolution -72
- Metadata – Copyright & contact info Only

To export and resize the image do the following after you have finished any adjustments:

1. While in the Library module of Lightroom, select the image you want to export.
2. Click the Export button on the lower left side.
3. The Export dialog box should now appear.
4. Click export and your image will be saved as you selected in the Export Location.

Size for the Simsbury Camera Club

Photoshop Elements



Save for the Web settings as follows (Highlighted in Drawing):

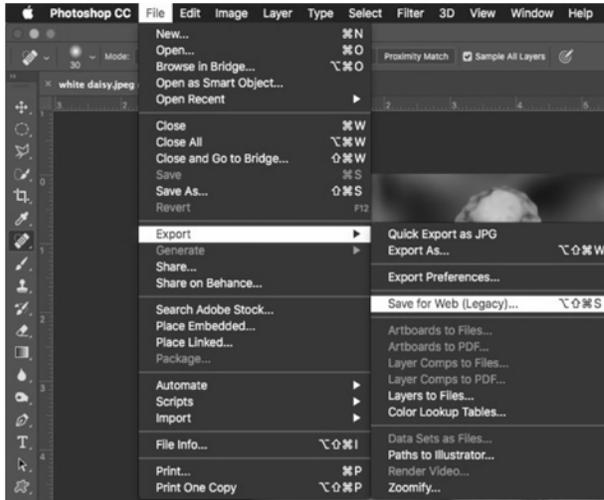
- JPEG
- Quality 100 (or less if maximum file size is exceeded)
- Check Optimized
- **NEW Size**
 - **For a vertical image**
 - Set height (H) to a maximum of 1050, make sure that the calculated width is less than or equals 1400 (in the W field)
 - **For a horizontal or square image**
 - Set width (W) to a maximum of 1400, make sure that the calculated height is less than or equals to 1050

To save for competitions from Photoshop Elements, do the following:

1. Once you are done with any edits to the image, select File>Save for the Web.
2. This will bring up the dialog box as seen above
3. Make sure the output file size is below 1200K, shown on the bottom of Drawing under the word JPEG. If not, then lower the quality below 100.
4. Save and rename your image.

Size for the Simsbury Camera Club

Photoshop

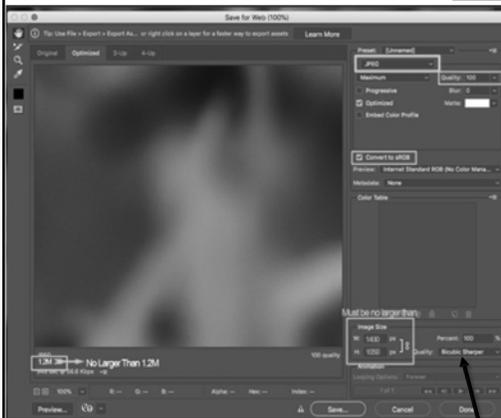


To save for competitions from the full version of Photoshop, do the following:

1. Once you are done with any edits to the image, select File>Export>Save for the Web.

Size for the Simsbury Camera Club

Photoshop



2. This will bring up the dialog box as seen.

Save for the Web settings as follows
JPEG

Quality 100 (or less if maximum file size is exceeded)

Check convert to sRGB

Check Optimized

For a vertical image

Set height (H) to a maximum of 1050, make sure that the calculated width is less than or equals 1400 (in the W field)

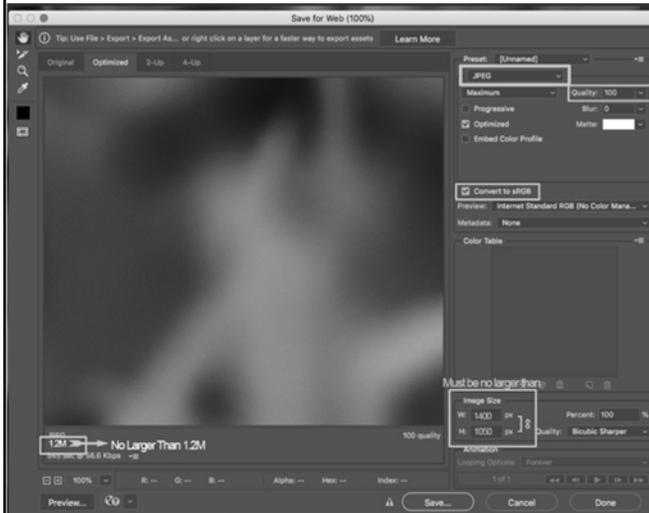
For a horizontal or square image

Set width (W) to a maximum of 1400, make sure that the calculated height is less than or equals to 1050

Set Quality to Bicubic or Bicubic Sharper.

Size for the Simsbury Camera Club

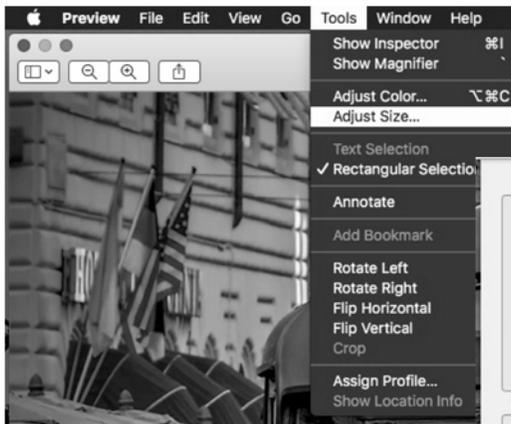
Photoshop



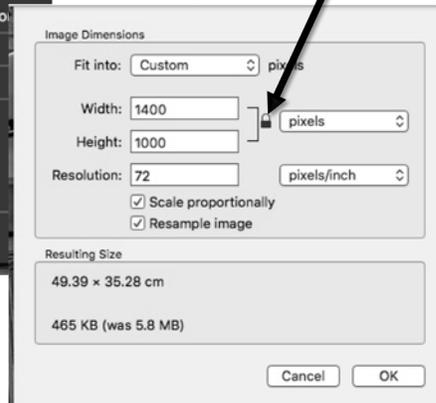
3. Set Metadata to Copyright & contact information
4. Make sure the output file size is below 1200K, shown on the bottom of the image on the left. If not, then lower the quality below 100.
5. Save and rename your image.

Size for the Simsbury Camera Club

Preview Mac



You only need to enter one of the dimensions, when the lock is active



Size for the Simsbury Camera Club
Image Resize



Size for the Simsbury Camera Club
Image Resize

on the flower bridge fishing.jpg Info

on the flower bridge fishing.jpg 24.5 MB
Modified: Today, 2:22 AM

Add Tags...

Image Size

Image Size: 67.9M

Dimensions: 5978 px x 3972 px

Fit To: Original Size

Width: 19.927 Inches

Height: 13.24 Inches

Resolution: 300 Pixels/Inch

Resample: Bicubic Sharper (reduction)

Cancel OK

Size for the Simsbury Camera Club

Image Resize



Size for the Simsbury Camera Club

Image Resize

