

# Preparing Your Images for NVPS Digital Projection Competition



**The Northern Virginia Photographic Society**

*By Scott Musson  
with Contributions by Matthew Schmidt*

## Table of Contents

Introduction .....	3
Color Calibration .....	3
Processing Images.....	4
Naming Files, Folders & Directories.....	5
Photoshop and Photoshop Elements Workflow.....	6
Step 1: Work With a Copy.....	6
Step 2: Sizing Your Images .....	6
Image Size Method .....	7
Slightly Out-of-Proportion Image Method.....	8
Crop to Fit Method.....	10
Fit Image Method.....	11
Setting Image Resolution .....	12
Step 3: Setting the Color Profile.....	12
Step 4: Bit Depth Conversion .....	13
Step 5: Add Black Background .....	14
Step 6: Saturation (Optional) .....	15
Step 8: Flatten Layers (Optional) .....	15
Step 9: Sharpen Image (Optional).....	15
Step 10: Save File as JPEG .....	16
Step 11: Submit Image for Competition .....	17
Summary of Workflow .....	19
References .....	19
Addendum – Lightroom 3 Workflow .....	20
Step 1: Select Image(s).....	20
Step 2: Export Images .....	20
Use NVPS Competition Preset .....	21
Installing the LR Export Preset .....	21
Applying the LR Export Preset.....	21

## Introduction

This document is a minor revision update to Version 2.0, dated October 8, 2009 that accommodates the club's new projector. It will help guide you to prepare images for Digital Projection Competition at NVPS. This document has been prepared based on personal experience and research performed by Scott Musson with revisions by Matthew Schmidt. Please note that the steps provided in this document are in the order in which they should be performed. Changing the order of some of the steps may not provide the optimum results.

We intend to update this document as improved methods are discovered and nuances of the specific projector and software used for processing and competition are discovered. For the first time, this version contains instructions for resizing in Adobe Lightroom 3.

It's time to relax and realize that preparing images for digital projection is actually easier than printing images. Not only is it easier, digital projection is a more forgiving format than prints. In camera club competitions the deciding factor between a winning and non-winning image can be the quality of the print itself. This factor is totally removed from digital projection. Also minor flaws in image quality are not emphasized to the extent they are in prints. If you are already producing successful prints and competing in competition, you have nothing to worry about. If you are having trouble with your printed output, then relax - preparing for digital projection is easier!

Before we begin with the actual steps for image preparation, let's start with a few recommendations.

## Color Calibration

As you prepare for digital competition at NVPS, be sure you are practicing good color management principles. This starts with calibrating your monitor regularly. The subject of color management is beyond the scope of this document but it is recommended that you take the time to learn at least the fundamentals. There are references at the end of this document to help you learn more about color management.

For your monitor calibration we suggest using a hardware solution, one that includes both a colorimeter and software specifically designed for the colorimeter. We've had personal experience with the Spyder 2 [Pro], Spyder 3 Pro and Monaco-Optics XR solutions and find them accurate for the purposes of amateur photography. These particular solutions cost between \$120 - \$250 from <http://www.bhphotovideo.com>. There are more inexpensive solutions like the Pantone Huey, and significantly more expensive solutions such as the X-Rite i1 and Color Munki available, but we've found spending the extra money doesn't make a significant difference.

### **IMPORTANT**

Do not use other calibration software (such as Adobe's Gamma software installed by older versions of Photoshop & Photoshop Elements) and your colorimeters software at the same time. Before calibrating your monitor remove or disable any such software.

To disable Adobe's Gamma software:

On the PC:

1. Right-click on the Start button
2. Go to Open All Users
3. Double-click PROGRAMS
4. Double-click STARTUP
5. Right-click on Adobe Gamma or Adobe Gamma Loader.exe, and delete (if you can't find it, don't worry, that's good if it's not installed)
6. Restart your PC if you've deleted Adobe Gamma.

On the Mac:

Follow your colorimeter installation instructions on disabling the Adobe Gamma Extension.

We also advise you to calibrate input devices including flatbed scanners and slide scanners, particularly if you are using these devices with your digital workflow or if you plan to compete in the digital projection category at NVPS. If you fail to calibrate your monitor and scanner it will make the color reproduction of your images unpredictable with the digital projector and very likely inaccurate. This will diminish your chances of doing well in competition, especially if skin tones and generally recognizable objects have inappropriate color. Using an unscientific method of color management with printing is less risky (although you'll waste lots of time, paper and ink) since you can see your results before submitting your image for competition. With digital projection you lose the ability to preview what your images will look like prior to the competition.

At this time, the software and hardware for calibrating the NVPS digital projector is the Spyder 3 Pro. The general calibration target for monitors is a Gamma of 2.2 and a White Balance of 6500K. Some calibration software may suggest different settings for Mac's, but those recommendations were for PowerPC-based Macs using hardware that is no longer available. Note to Mac users: it is suggested that you calibrate your monitor using Gamma 2.2 since this is the Gamma setting that is used for calibrating the competition projector. If you prefer to use a Gamma of 1.8, you may want to create an alternate profile using Gamma 2.2 to prepare your images for digital projection. Refer to your specific calibration software for this purpose.

## Processing Images

Process your digital captures or scans as you normally do. Crop for artistic content, correct tone & color as needed, adjust contrast, dodge & burn and perform any image cleanup required. Of course all of these are optional, and are not required for your images; however some adjustments will improve the quality of your images.

Digital manipulation is allowed by the rules of NVPS for digital projection, so all types of images (color, black and white and enhanced) will be eligible in the Novice and Advanced Digital Projection categories in accordance with the approved rules for NVPS competitions in the club year 2010 - 2011.

Save your master image in whatever format you normally do (PSD, DNG, TIFF, JPEG, etc.).

### **IMPORTANT**

We suggest that you then save a separate copy of your image to work on for digital projection when using any version of Photoshop. This can help prevent you from destroying your original master file. We recommend employing a file naming convention or using a separate folder to help prevent getting your files mixed up. Please note that this does take up additional hard disk space for the additional files but this is a minor trade off compared to destroying your original image. Note: When using RAW files in your workflow your RAW image is your original file and the chances of overwriting this file are zero since you can't save a RAW file in Photoshop. If you are using Adobe Lightroom, it uses a non-destructive workflow and you do not need to save an extra copy of the image.

The purpose of this presentation is not to explain how to process your images, but how to prepare them for NVPS digital projection competition. If you would like to learn more about processing your images, please see Scott Musson's document *Basic Color, Tonal & Sizing Adjustments You Can Live With Using Photoshop CS3* <http://nvps.org/main/docs/workshop2.pdf> or some of the work of the authors who have inspired us such as Julieanne Kost, Matt Kloskowski, Tim Gray or Scott Kelby.

## **Naming Files, Folders & Directories**

What does this have to do with preparing for digital competition? Well really nothing at all. However it's important that you come up with a way to organize your files and folders so that you will be able to find the original file and the processed file many months from now when you realize you would like to make a minor correction or change to that image for another use.

The following is an example directory/folder and file naming convention for organizing your digital images. You can use any convention that works for you- this is just an example. Even if you are using Lightroom, which helps automate the organization of your images, having good file organization is important.



Now, let's move to the specific steps for preparing your images for digital competition.

## Photoshop and Photoshop Elements Workflow

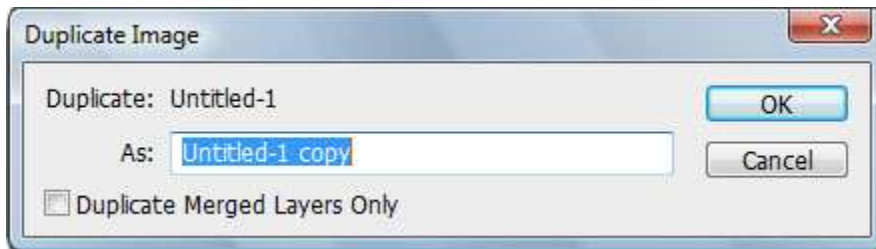
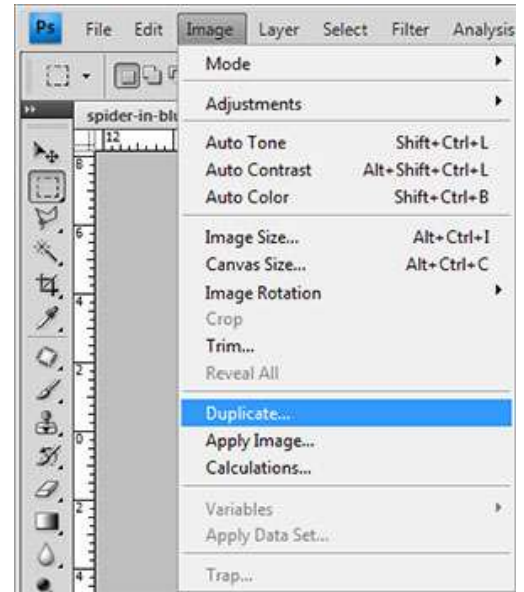
### Step 1: Work With a Copy

To prevent accidentally overwriting your master file (PSD), we recommend using a copy of your file. You can save a copy, or use the image/duplicate command and use a copy of the image in memory. You won't accidentally overwrite your image this way and you won't have extra files take up space.

**Tools Used:** Image Duplicate Dialog

#### Steps

1. Open the Image Duplicate Dialog
  - CS Family: Menu Selection - **Image > Duplicate**
  - Elements Family: **File > Duplicate**
2. Press **OK** and accept the default duplicate name



### Step 2: Sizing Your Images

The resolution of the digital projector that will be used for competition is 1400x1050 pixels. Your images must be sized no larger than 1400 pixels in width (horizontal) and 1050 pixels in height (vertical). This gives an advantage to horizontal format images in digital projection.

Some of the tools commonly used in Photoshop for changing the size of images are the “Image Size” dialog, the “Canvas Size” dialog, the “Crop Tool”, the “Marquee Tool” and in Photoshop CS family there is the “Fit Image” dialog. We find the “Image Size” dialog a good place to start, and then adjusting the canvas size. You may find other tools easier to use, and whatever is easiest for you to start with is best.

Typically, your master file image size will be larger than 1400x1050 pixels (1.5 megapixels) so you will need to make your images smaller to enter them into the digital projection competition. This is done by what is called down-sampling and the best method of down-sampling in Photoshop is using Bicubic Sharper (Bicubic Smoother is for up-sampling or interpolating). You select this in the “Image Size” dialog in Photoshop and Photoshop Elements.

Next, in the “Image Size” dialog, select “Scale Styles”, “Constrain Proportions”, and set the resample image selection to “Bicubic Sharper” before resizing your image. The image of a link will show to the right of the pixel dimensions and document size width and height boxes. This is a visual confirmation that you

have “constrain proportions” turned on. You can now modify the pixel width or height to properly size your image. With constrain proportions turned on, if you change the width or the height, the other dimension will automatically change, scaled to the size of your original image.

The easiest way to set the size of any image is just a little trial and error. Remember the target size is 1400x1050 for a landscape-oriented image. *Note:* the target size can be smaller in either dimension, but you should try to maximize the available canvas space. Below are four methods for resizing your images with step-by-step instructions.

## Image Size Method

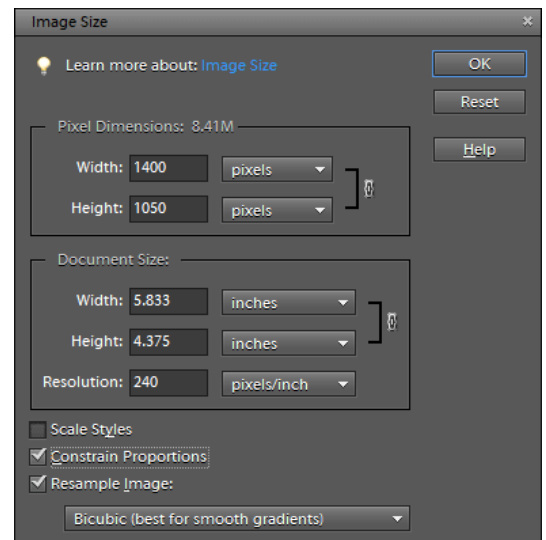
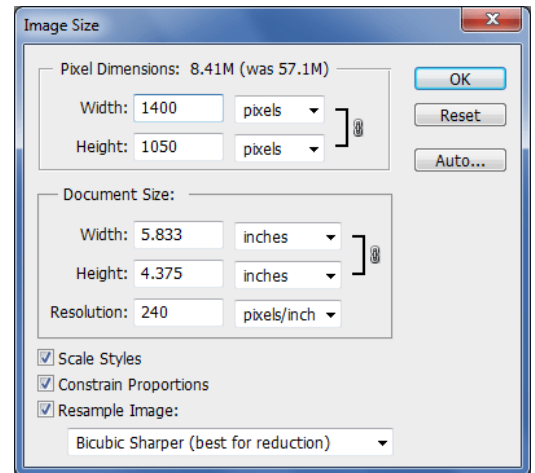
**Tools Used:** Image Size Dialog

**Advantages:** Simple, foolproof, will work for many images

**Disadvantages:** Doesn't give you flexibility to “crop to fit” or take advantage of as much canvas space as possible.

### Steps

1. Open the Image Size Dialog
  - CS Family: Menu Selection - **Image > Image Size**
  - Elements Family: Menu Selection - **Image > Resize Image > Image Size**
2. On the Image Size Dialog check “**Scale Styles**”, “**Constrain Proportions**”, and set the **Resample Image** selection to “**Bicubic Sharper**” if reducing the size of your image. Choose “**Bicubic Smoother**” if increasing the size of your image.
3. For a landscape oriented image
  - a. Enter **1400** in the pixel dimensions “**Width**” field
    - i. If the corresponding amount in the pixel dimensions height field changes to less than or equal to 1050, press “**OK**” to dismiss the “Image Size” dialog.
    - ii. If the corresponding amount in the pixel dimensions height field changes to more than 1050, change the pixel dimensions **height** field to **1050** then press “**OK**” to dismiss the “Image Size” dialog.
  - b. For a portrait oriented image enter **1050** in the pixel dimensions height field
    - i. The corresponding amount in the pixel dimensions width field should change to less than or equal to 1050 pixels (otherwise it's a landscape image).
    - ii. Press “**OK**” to dismiss the Image Size dialog.



## IMPORTANT

Try to perform sizing with re-sampling/resizing only once and not several times as it can have a degrading effect on your image every time it's performed. (Re-sampling is either adding/interpolating or discarding pixels from your original image and since neither is desirable, try to only do it once as each sizing has an accumulating impact.)

### Slightly Out-of-Proportion Image Method

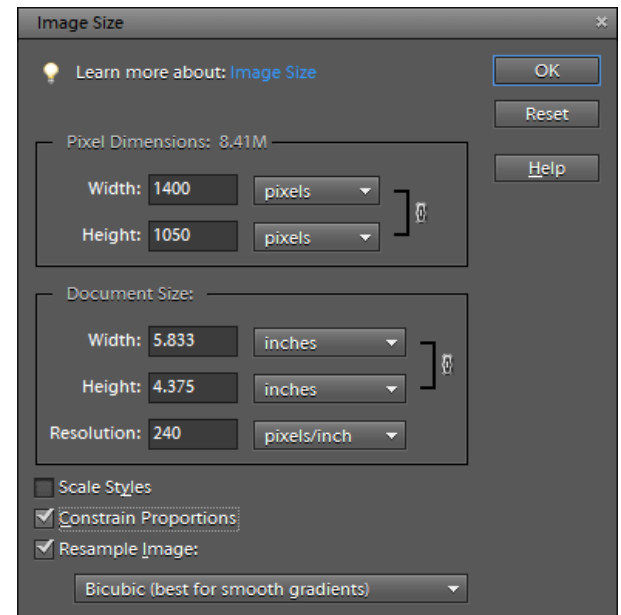
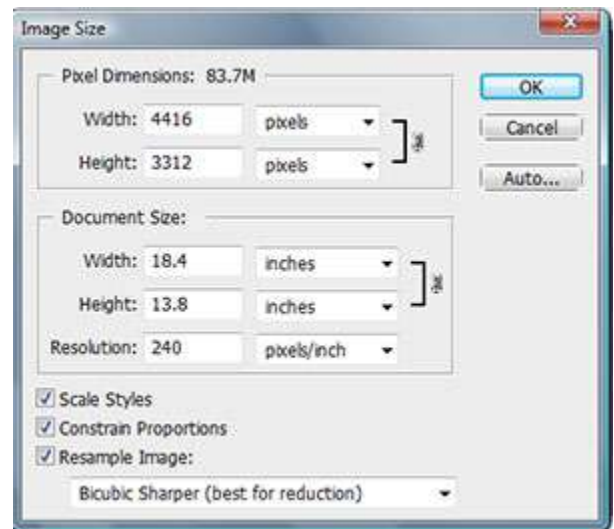
**Tools Used:** Image Size Dialog & Canvas Size Dialog

**Advantages:** Fairly easy, allows minor controlled cropping

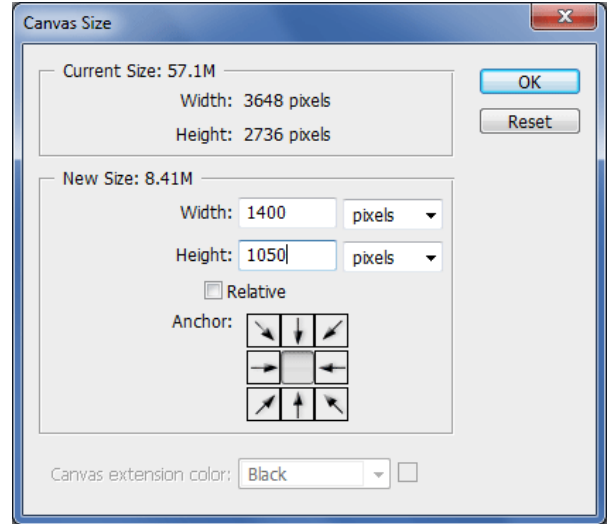
**Disadvantages:** Doesn't give you flexibility to "crop to fit", may take several tries, may not work well on square or odd sized images.

#### Steps

1. Open the Image Size Dialog
  - CS Family: Menu Selection - **Image > Image Size**
  - Elements Family: Menu Selection - **Image > Resize Image > Image Size**
2. On the Image Size Dialog check "**Scale Styles**", "**Constrain Proportions**", and set the resample image selection to "**Bicubic Sharper**" if reducing the size of your image. Choose "**Bicubic Smoother**" if increasing the size of your image.
3. For a landscape oriented image
  - a. Enter **1400** in the pixel dimensions "**Width**" field
  - b. Press "**OK**"For a portrait oriented image
  - a. Enter **1050** in the pixel dimensions "**Height**" field
  - b. Press "**OK**"



4. Open the **Canvas Size** dialog
5. Change the units to pixels
  - If the width is larger than 1400 pixels, reduce the **“Width”** to **1400** pixels
  - If the height is larger than 1050 pixels, reduce the **“Height”** to **1050** pixels
  - Click on the anchor arrows if you want to direct the direction of the crop



### **IMPORTANT**

Reducing the canvas size is a destructive, non-reversible alteration of your image that cannot be undone in a future editing session. Be sure you are satisfied with your changes, or save a separate copy in case you ever want to return to the original canvas size.

## Crop to Fit Method

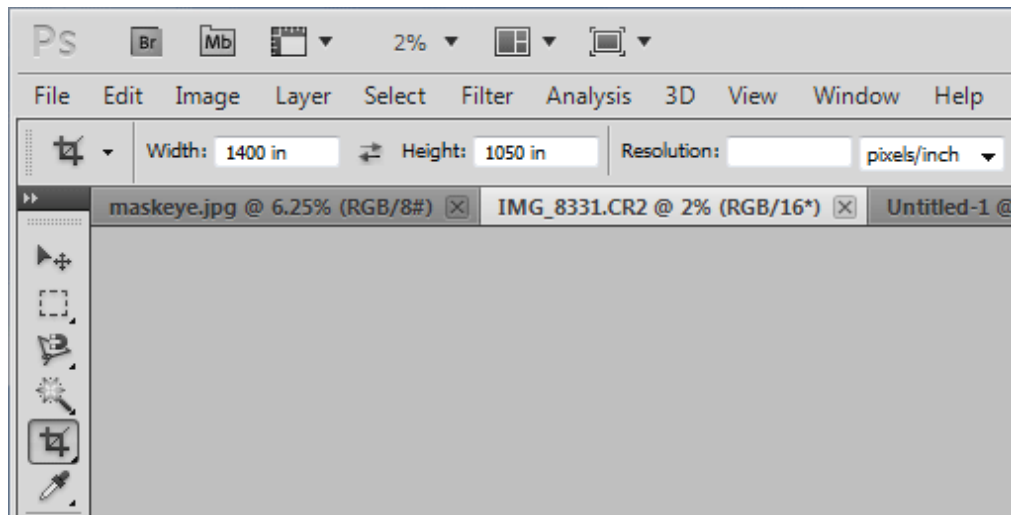
**Tools Used:** Crop Tool & General Preferences

**Advantages:** Good control of what is cropped

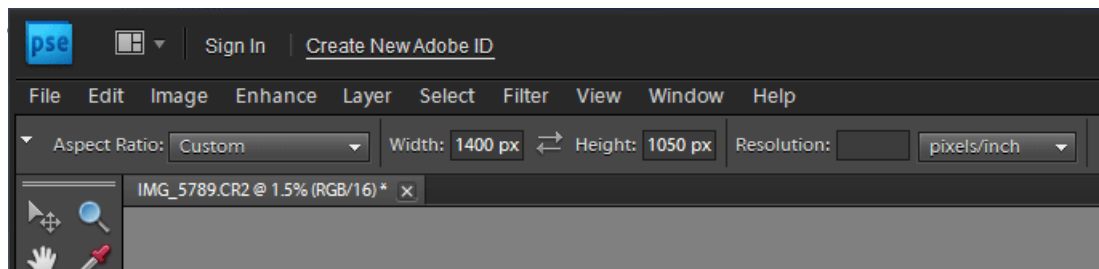
**Disadvantages:** Resamples the image so for best results you should set the default Image Interpolation in General Preferences to Bicubic Sharper. Crop can only use “Bicubic” Image Interpolation in Photoshop Elements (not a big deal).

### Steps

1. Set Default Image Interpolation
  - CS Family: **Edit > Preferences > General** and set the default “Image Interpolation” to “Bicubic Sharper”
  - Elements Family: Not available
2. Choose the Crop Tool from the tool pallet the toolbar and specific fields for the crop tool are displayed



3. For a landscape-oriented image:
  - Enter **1400 px** in the “Width” field of the toolbar and clear any entry from the Resolution field. Optionally enter **1050 px** in the “Height” field of the toolbar.



For a portrait oriented image:

- Enter **1050 px** in the height field of the toolbar and clear any entry from the resolution field.

## TIP

Be sure to add the letters “px” with the numbers in the crop tool width and height fields; otherwise it may interpret the numbers entered as inches or centimeters depending on your defaults.

Setting both the “Height” and the “Width” will constrain the aspect ratio of the crop tool so you will only be able to select a height and width that conforms to the size entered. If the image doesn’t conform well to this aspect ratio, you can leave either field blank and then use the “Canvas Size” dialog or the “Marquee Tool” to remove any excess image required to get the image to fit the target size. Leaving both fields blank allows for free-form cropping.

4. Click and drag the crop tool and select either all of the image or the area you want to remain after the crop
5. Press the **enter** key or click the **checkmark** (the checkmark is on the toolbar in the CS family and on the image in Elements), to perform the crop.

## IMPORTANT

Cropping is a destructive, non-reversible alteration of your image that cannot be undone in a future editing session. Be sure you are satisfied with your changes, or save a separate copy in case you ever want to return to the original size. (Note that the CS family has an option to hide the cropped areas instead of removing them). Try to use the crop tool only once and not several times as it can have degrading effects on your image each time it’s performed because the image is re-sampled. (Re-sampling is either adding/interpolating or discarding pixels from your original image and since neither is desirable, try to only do it once.)

## Fit Image Method

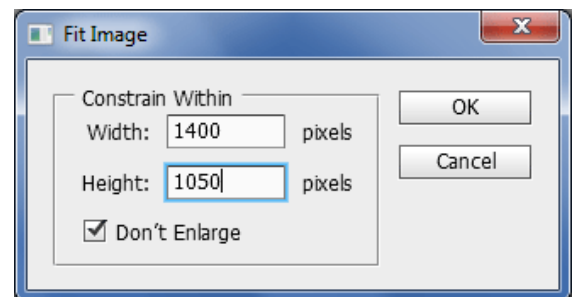
**Tools Used:** Fit Image & General Preferences

**Advantages:** Very easy

**Disadvantages:** Re-samples the image using the default “Image Interpolation” setting, so it must be correctly set for optimal resizing in using the CS family. The feature is not available in Elements.

## Steps

1. Set Default Image Interpolation
  - CS Family: **Edit > Preferences > General** and set the default “**Image Interpolation**” to “**Bicubic Sharper**”
  - Elements Family: Not available
2. Go to Menu Selection – **File > Automate > Fit Image**
3. Enter **1400** in the **width** field and **1050** in the **height** field.
4. Press **OK** to confirm your intentions in the “Fit Image” dialog.



## TIP

It doesn’t matter if it’s portrait or landscape orientation; the image will be constrained so neither height nor width will be larger than the target. At least one dimension will be exactly set and the other will be either exactly set or less than the entered amount.

### Setting Image Resolution

In version 1.0 of this document, this was listed as a step for preparing your images for competition. However, setting the image resolution is unnecessary when creating JPEGs. The only thing that matters is the pixel dimensions set in the image size dialog. Image resolution is very important in printing workflows, but is irrelevant in preparing images for digital competition.

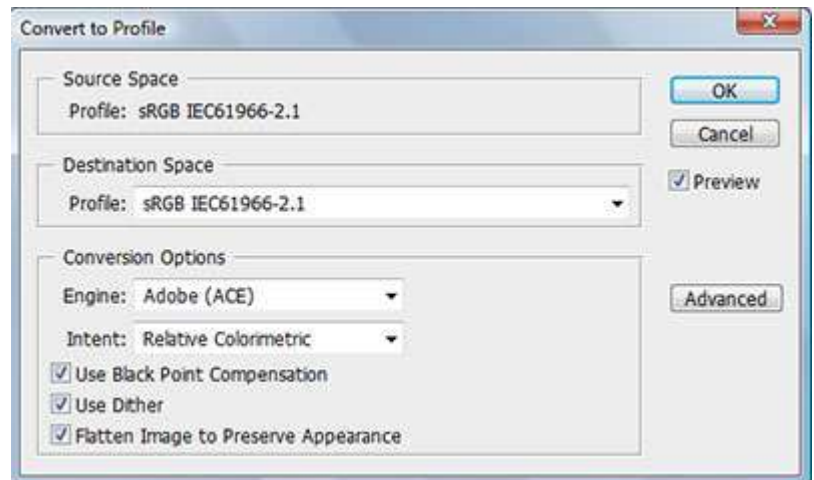
---

### Step 3: Setting the Color Profile

Next you should change your image color destination space profile to sRGB IEC61966-2.1. This is the best color space to use with 8-bit JPEG files on the web and for NVPS digital projection. If you do not convert to this color profile, your images may appear flat and de-saturated.

Generally this is not the color profile I would use for my images as this is one of the smallest color spaces and limits the color representation in printing images. However to get the best display for projected images, you should convert your file to use the “small RGB” color space.

The following will demonstrate how to change your color profile to sRGB IEC61966-2.1.



*Instructions for CS family*

**Tools Used:** Convert to Profile

#### Steps

1. Go to Menu Selection – **Edit > Convert to Profile**
2. Select the **sRGB IEC61966-2.1** color profile in the destination space
3. It is recommended that you use the following conversion options in the convert to profile dialog
  - a. Engine: **Adobe**
  - b. Intent: **Relative Colorimetric**
  - c. Use Black Point Compensation (**checked**)
  - d. Use Dither (**checked**) – Makes larger files, but smoother color
  - e. Flatten Image – (**checked**) if you care to be able to further alter this file using any previously created adjustment layers, turn flattening off.
4. Press **OK** to accept your settings

*For Photoshop Elements*

**Tools Used:** Convert to Profile

Tools Used: Apply sRGB Profile

1. Go to Menu Selection – **Image > Convert Color Profile > Apply sRGB Profile**

---

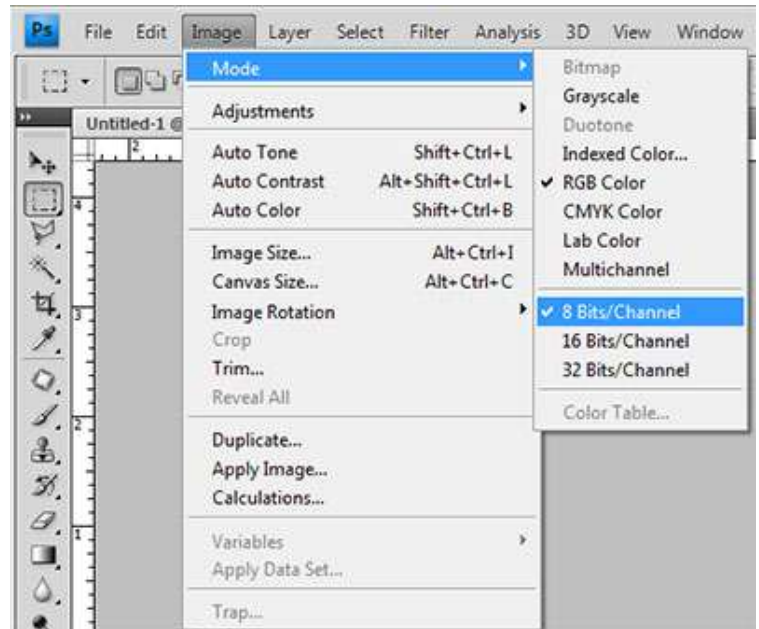
### Step 4: Bit Depth Conversion

Since your intended file format is JPEG, and if your image is currently a 16-bit image, you should convert it to an 8-bit image. I do not recommend doing this to your master image if it can be avoided as you will lose subtle color information which provides good dynamic range that is particularly apparent in prints. *Note:* there is limited support for 16 bit files in Elements.

**Tools Used:** Image Mode Menu

#### Steps

1. Go to Menu Selection – **Image > Mode**
2. Select **8 Bits/Channel**



### IMPORTANT

Reducing the bit depth of your image is an irreversible action and the additional information cannot be restored in future editing sessions. Therefore it is recommended you do not do this type of conversion to your original image unless necessary for some other reason (file size concerns, using Elements, etc.) The difference between 16 and 8 bit images are imperceptible on your monitor but can be noticed when images are printed causing color banding and blocking.

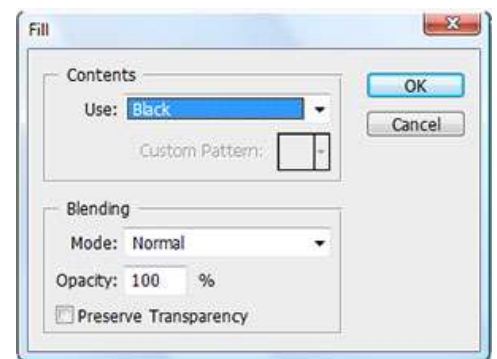
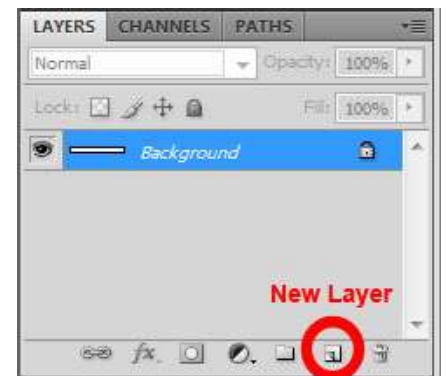
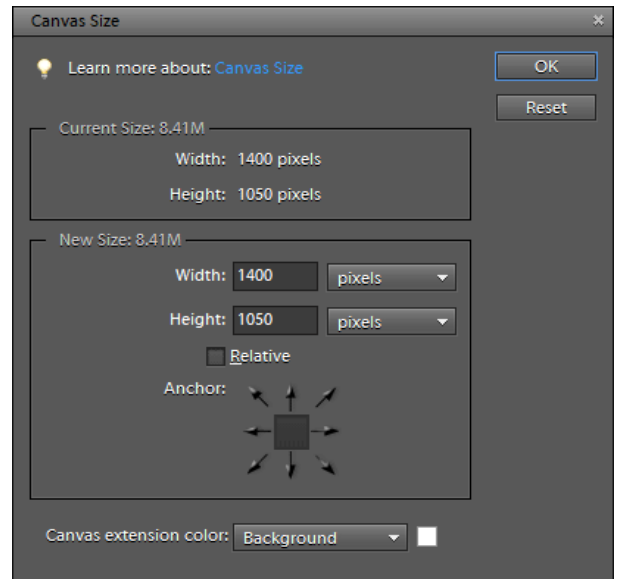
## Step 5: Add Black Background

If your image is less than 1400 pixels wide or less than 1050 pixels high you should fill the background with black so you ensure that there is no distracting bright areas outside of your image.

**Tools Used:** Canvas Size Dialog, New Layer and Fill Dialog

### Steps

1. Unlock your background layer (If layer shows lock as in the image to the right)
  - a. Double click the background layer
  - b. Rename or accept name layer 0
  - c. Press "**OK**" on layer dialog
2. Open the Canvas Size dialog
  - a. **Image > Canvas Size**
  - b. Change the units to **pixels**
  - c. Set **Width** to **1400**
  - d. Set **Height** **1050**
3. Create a new layer
  - CS & Elements Family:
    - Menu Selection - **Layer > New > Layer**
    - Alternately click the new layer icon in the pallet well
4. Move new layer to the bottom of the stack
  - Click on layer to move
    - Menu Selection - **Layer > Arrange > Send to back**
    - Alternately drag layer to the bottom with mouse
5. Fill layer with black
  - a. Menu Selection - **Edit > Fill**
  - b. Select "**Black**" in the "**Use**" drop down
  - c. Press "**OK**"



## Step 6: Saturation (Optional)

I find a touch of saturation can make your image look better with projected images, but be careful not to over saturate as the projector cannot display colors deeply saturated colors. Also over saturation and over sharpening are the two most common novice mistakes.

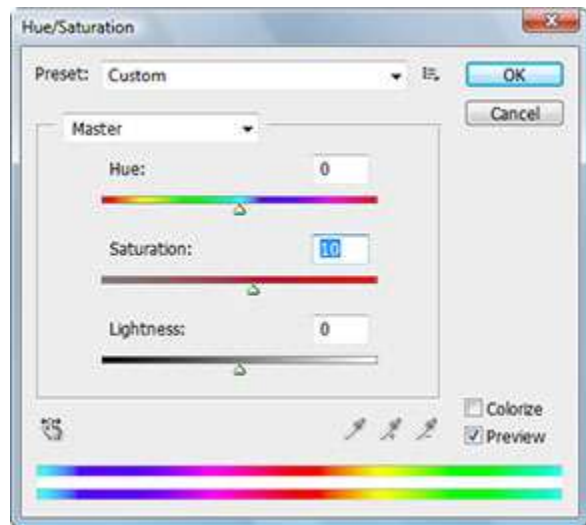
**Tools Used:** Hue Saturation Layer or Image Adjustment Hue/Saturation

### Steps

1. Create new hue/saturation layer
  - CS & Elements: **Layer > New Adjustment Layer > Hue/Saturation**  
or
  - Click new adjustment layer from the palette well

Alternatively directly adjust hue saturation on your image layer

- CS Family: **Image > Adjustments > Hue/Saturation**
  - Elements Family: **Enhance > Adjust Color > Adjust Hue/Saturation**
2. Add up to **10%** saturation in the hue saturation dialog



## Step 8: Flatten Layers (Optional)

It is unnecessary to manually flatten the layers in your image, they will be flattened when you save your image as a jpeg. However it makes it easier to apply sharpening. If you are going to apply some sharpening go ahead and manually flatten the image.

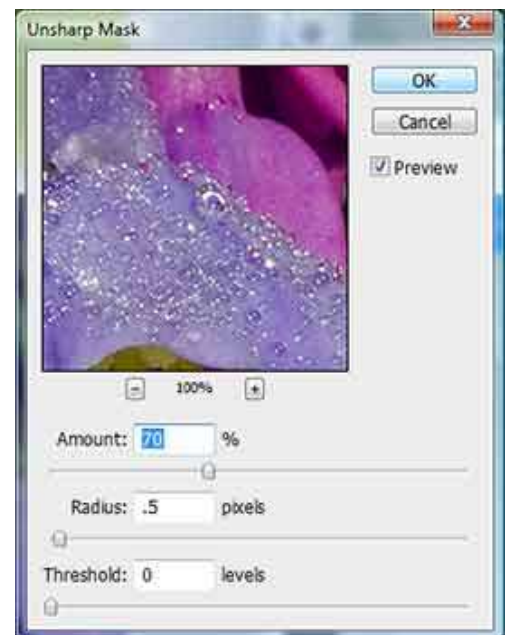
**Tools Used:** Menu Flatten Image

### Step

Go to the menu choice **Layer > Flatten Image**

## Step 9: Sharpen Image (Optional)

Sharpening is an optional step, but can make your image look crisper. Sharpening theory is complex and beyond the scope of this document, but I will give you a general sharpening technique that will work on many images.



A few rules about sharpening I always follow:

1. Always sharpen as the absolute last step of your workflow
2. Don't save your image sharpened
3. Never resize a sharpened image
4. **ALWAYS SHARPEN WITH YOUR IMAGE AT 100% (VIEW ACTUAL PIXELS)**

**Tools Used:** Unsharp Mask Filter

#### Steps

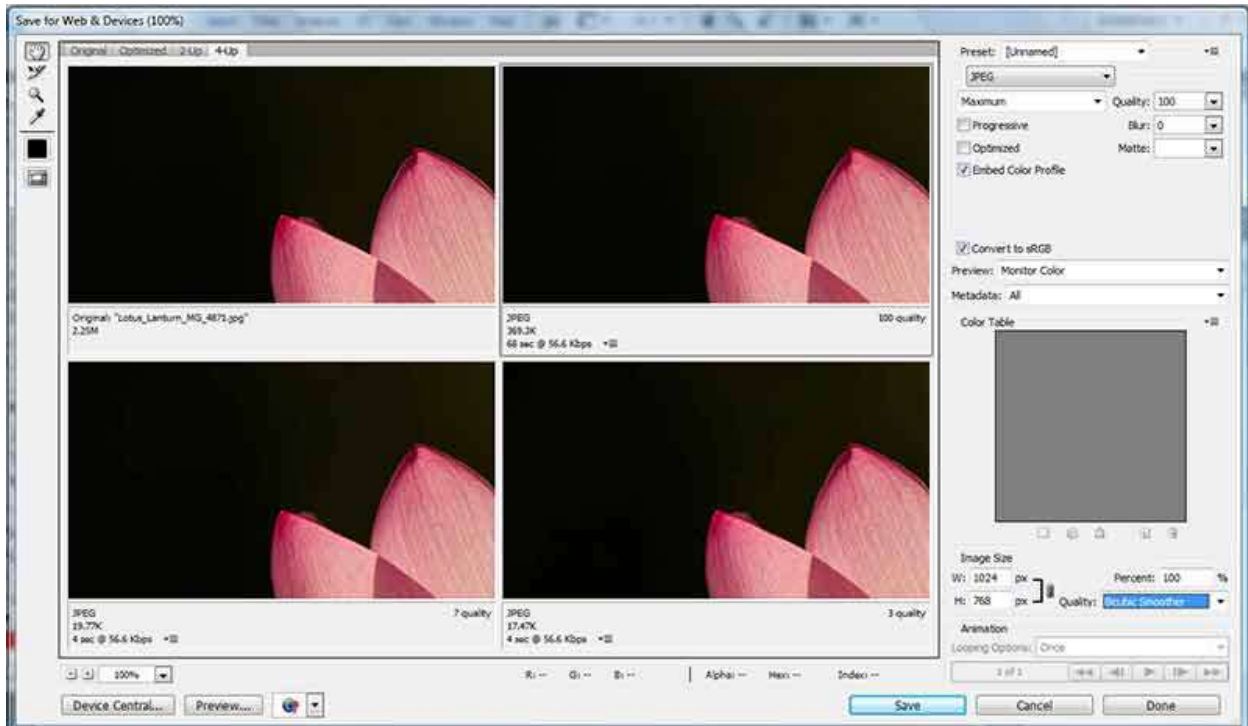
1. Choose menu **View > Actual Pixels**
  2. From the menu choose **Filter > Sharpen > Unsharp Mask**
  3. Set the radius to **.5**
  4. Threshold to **0**
  5. **Slowly increase** the amount slider until you get the desired amount of sharpening  
If you see halos, or pixilation (hard square edges) you've sharpened too much.
- 

### Step 10: Save File as JPEG

**Tools Used:** Save for Web & Devices

#### Steps

1. Choose menu **File > Save for Web & Devices**
2. Save for Web dialog opens
3. Choose **JPEG**
4. **Maximum** quality (**100**) (reduce if image is larger than 2 MB)
5. **Progressive & Optimize** - unchecked
6. **Embed Color Profile** - checked
7. **Convert to sRGB** - checked
8. Preview - **Monitor Color**
9. Metadata - **All**
10. Image size - **100%**
11. Press **Save** - no specific naming convention is required



## Step 11: Submit Image for Competition

- Go to <http://nvps.org/dc/>
- Fill out the form and upload your images

## NVPS Competition Upload

### Competition Information

Competition Date:	September 20, 2011
Upload Window Opened:	September 6, 2011
Upload Window Closes:	September 18, 2011, 6:00 pm
Competition Note:	This is an open competition with no theme.

### Image Requirements

File Type:	JPEG
Maximum Width:	1400 pixels
Maximum Height:	1050 pixels
Maximum File Size	2 MB
Recommended Color Space:	sRGB
Date Captured Limitation:	No older than: September 20, 2009

- Up to 3 images total in all categories may be submitted in each monthly competition (including prints & digital)
- No more the 2 images may be submitted in any category
- For those categories which have a class (novice or advanced), be sure to submit to the proper class, you can only complete in one class per category
- Please read the competition rules at <http://nvps.org/main/about/rules-of-competition/>
- Still have questions? Contact the VPs of Competition for rules & eligibility questions and contact the digital competition coordinator for logistical questions about the digital upload. Contact information is at <http://nvps.org/main/about/board-members/>

### Member Information

First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Suffix:	<input type="text"/>
Email Address:	<input type="text"/>
Competition Class:	<input type="text" value="Choose One"/>

### Photograph Information

First Photo Title:	<input type="text"/>
Capture Date (mm/dd/yyyy):	<input type="text"/>
Choose photo	<input type="text"/> <input type="button" value="Browse"/>
<hr/>	
Second Photo Title (Optional):	<input type="text"/>
Capture Date (mm/dd/yyyy):	<input type="text"/>
Choose photo	<input type="text"/> <input type="button" value="Browse"/>

By pressing the upload button you are confirming that you are complying with the NVPS rules of competition.

## Summary of Workflow

1. Duplicate Image - work with a copy
2. Size your image - 1400 x 1050
3. Set Color Profile - Change your image color destination space profile to sRGBIEC61966-2.1
4. Bit Depth - Change your file to 8-bit mode
5. Add black background - needed if image is smaller than 1400 x 1050
6. Saturation (optional) - add a touch of saturation if needed
7. Soft proof (optional) - verify image will look good on projector
8. Flatten (optional) - suggest flattening prior to adding any sharpening
9. Sharpen (optional) - make your image look crisp if needed; don't overdo!
10. Save for web in JPEG format
11. Upload to the NVPS website

## References

### Color Calibration

Colour Confidence is a British reseller of color calibration products. They have a good document on color calibration for available for download on their website. This document is used to sell their products, but also includes good information on color calibration.

[www.colourconfidence.com](http://www.colourconfidence.com)

DataColor is the distributor of the Spyder 3 monitor calibration tool. The website also has some good basic color management information.

<http://www.datacolor.com/>

X-Rite is the distributor of the ColorMunki calibration products and as well as many other color management products.

<http://www.xrite.com/home.aspx>

<http://www.colormunki.com/>

### Digital Workflow & Color Management

Tim Grey ([www.timgrey.com](http://www.timgrey.com)) authors a daily email (Digital Darkroom Questions) that is very informative about digital darkroom issues. He's employed by Microsoft and is a Color Management, Digital Workflow and Photoshop expert. His two books

*"Color Confidence: The Digital Photographers Guide to Color Management"* and *"Photoshop CS3 Workflow: The Digital Photographer's Guide"* are two excellent books for improving your digital photography.

### Photoshop

Julianne Kost (<http://jkost.com/>) is the 'Senior Digital Imaging Evangelist' for Adobe Systems. She is a passionate photographer and an expert in teaching the powerful features and techniques in Photoshop & Lightroom. She her site for great videos and more.

## Addendum – Lightroom 3 Workflow

Because Lightroom was designed from the ground up as a photography application it has fewer options and controls than Photoshop, and consequently the resizing workflow is simplified, taking only a few steps to complete. It is unnecessary to create duplicate images when resizing in Lightroom as the workflow is non-destructive. However, it is not possible to soft-proof your images in Lightroom on Windows and although it is possible to soft-proof on the Mac you cannot accomplish it within Lightroom.

### Step 1: Select Image(s)

In the Library module of Lightroom, select the image or images that you want to resize and export for the competition. You can select multiple images by pressing and holding the Ctrl key (or command key on a Mac) and clicking on each image to be exported.



### Step 2: Export Images

Select **File > Export** from the main menu to begin the export process.

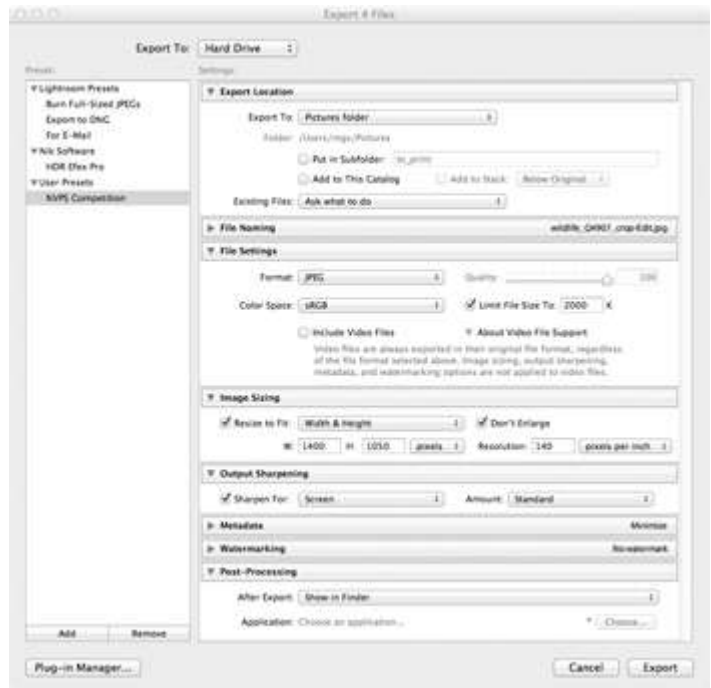
With the Export dialog open, select the **Export Location** to tell Lightroom where you would like to save the resized JPEGs.

In the **File Settings** section of the dialog, set the **Format** to JPEG, **Color Space** to sRGB, and **Limit File Size To 2000K**.

In the **Image Sizing** section of the dialog, check the **Resize to Fit**, select **Width & Height**, check **Don't Enlarge**, set the **W** to **1400**, set the **H** to **1050**, and select **pixels**. The **Resolution** value can be left blank or populated with any value, it has no effect on the image displayed on the screen.

In the **Output Sharpening** section of the dialog, check **Sharpen For**, select **Screen**, and set **Amount** to **Standard**.

Lastly in the **Post-Processing** section of the dialog, set **After Export** to **Show in Windows Explorer (Show in Finder on the Mac)**.



Press the **Export** button and your images should begin resizing, then a Windows Explorer (Finder on the Mac) should open in the directory where your resized JPEGs are located.

### Use NVPS Competition Preset

We have saved a Lightroom Export preset that automatically configures settings for NVPS competitions. This should simplify the process of defining all of the correct export settings. You can download this preset at <http://nvps.org/main/docs/NVPS%20Competition.Irtemplate>.

### Installing the LR Export Preset

After downloading the *NVPS Competition.Irtemplate* file, copy the file to the following directory based on your operating system

- **Windows XP:** C:\Documents and Settings\*username*\Application Data\Adobe\Lightroom\Export Presets\User Presets
- **Windows Vista:** C:\Users\*username*\AppData\Roaming\Adobe\Lightroom\Export Presets\User Presets
- **Mac OS X:** /Library/Application Support/Adobe/Lightroom/Export Presets/User Presets

### Applying the LR Export Preset

Select the image(s) to be resized, then select **File**, and **Export**. When the Export dialog opens, select **NVPS Competition** under **User Presets** in the **Preset** section of the Export dialog. This will automatically apply the appropriate competition settings.

Press the **Export** button and a Windows Explorer window (or Finder window on the Mac) should open with the resized images in it.