

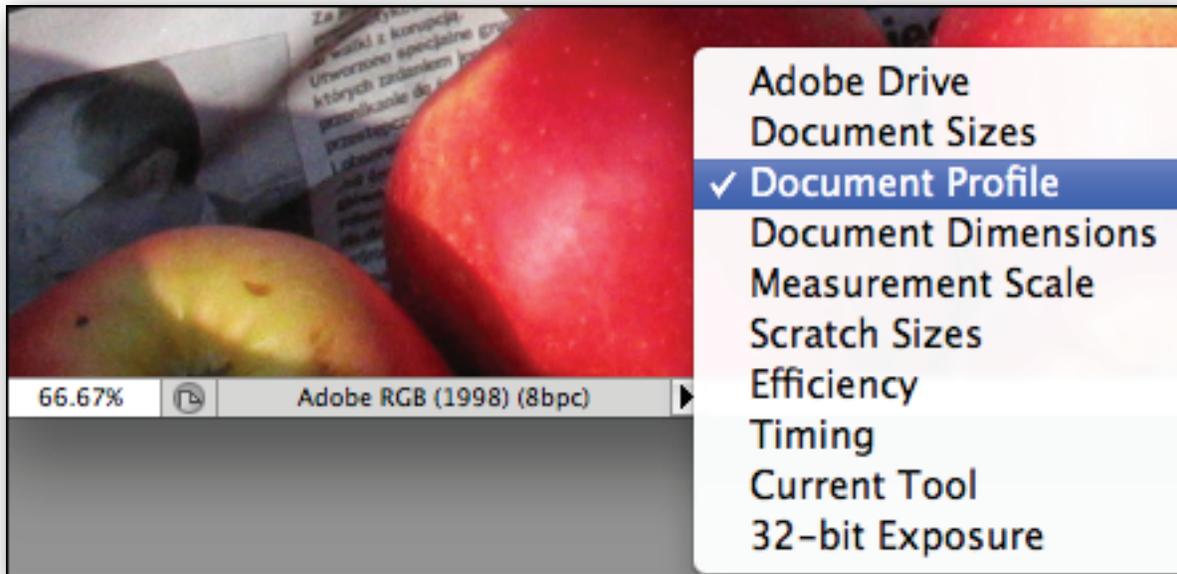
CS5 - PRINTING IN COLOR ON THE EPSON 7800

Done tweaking in Photoshop? Ready to print?

Follow these steps to ensure your print resembles what you've got on screen!

THINGS TO NOTE

With few exceptions, you should be using the Adobe RGB (1998) color space. You can verify this by showing the Document Profile in the document window of Photoshop:



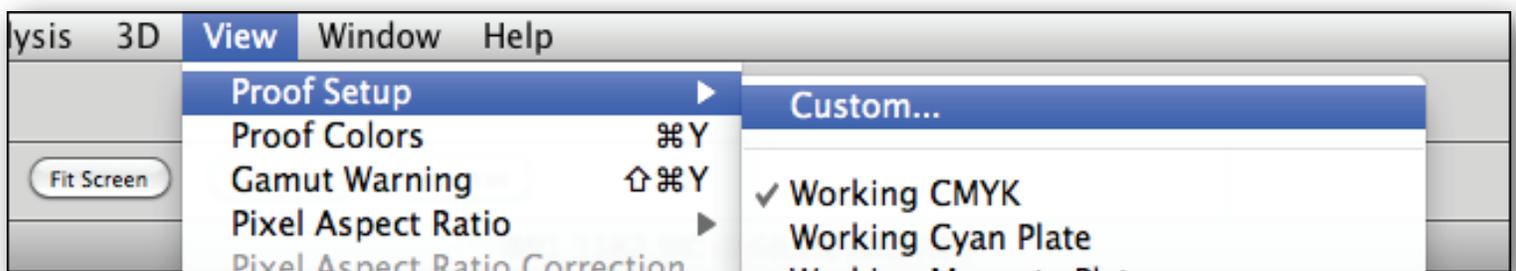
You will change your color profile later on in the print workflow.

SETTING UP A SOFT PROOF

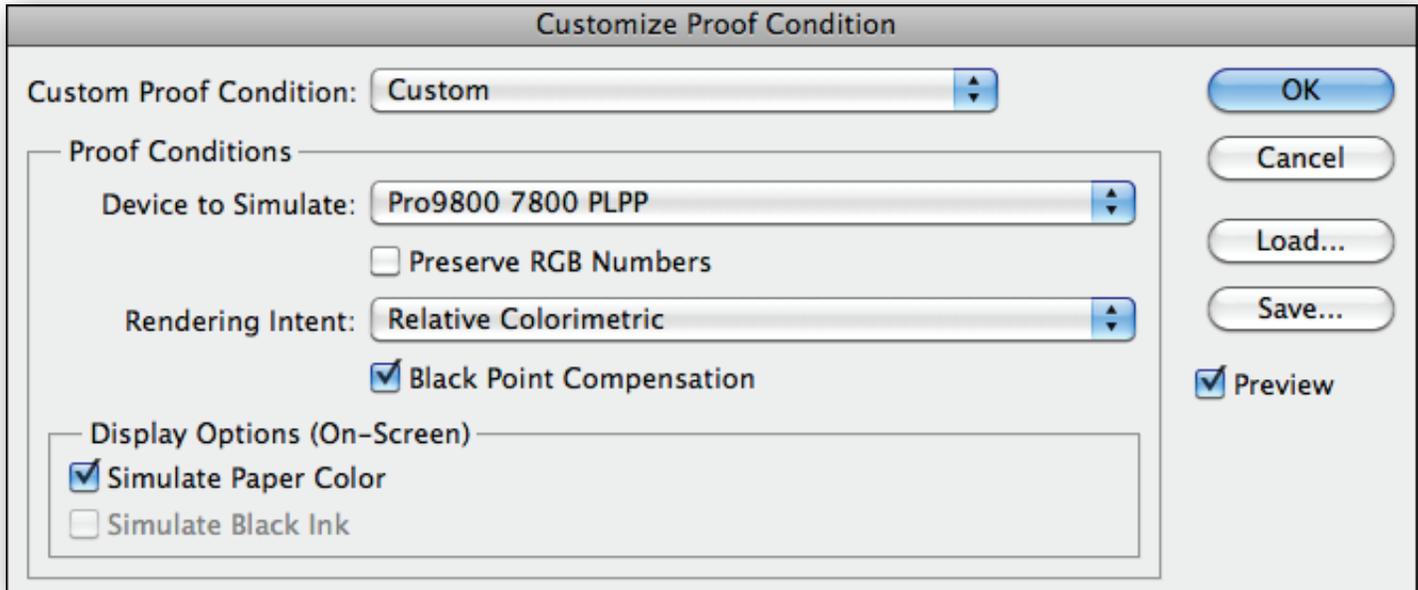
A "soft proof" is a sort of sneak-preview; Photoshop gives you to get a ballpark idea of how your file will print on a certain printer paired with a certain paper. Different inksets and paper types can really affect how your print looks, and mistakes are expensive and time-consuming.

To set up a soft proof:

Click View > Proof Setup > Custom:



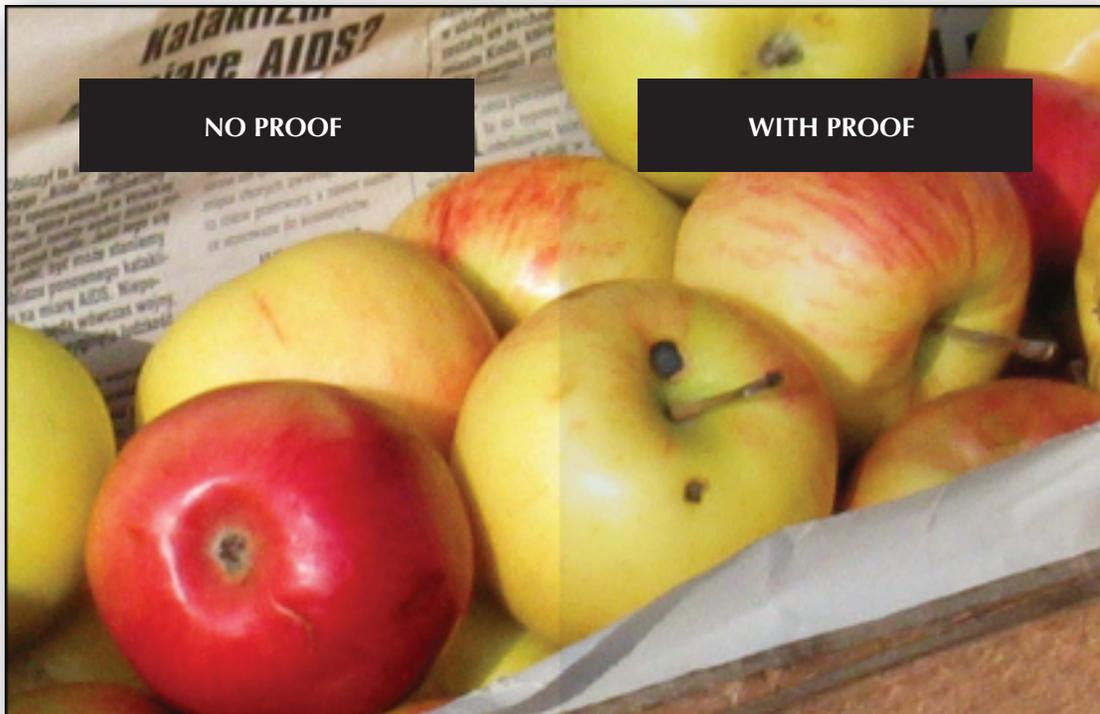
For "Proof Conditions" the **Device to Simulate** is the printer profile for the paper type you are using. Fine Arts often uses Epson's Premium Photo Paper Luster (also known as Premium Luster Photo Paper). Based on the table located on Epson's site, the proper profile for that is the awkwardly named **Pro9800 7800 PLPP**:



Leave Rendering Intent at **Relative Colorimetric**. Check "Use Black Point Compensation." Click "OK."

ADJUSTING YOUR IMAGE

Now that you have set up a soft proof, you may be seeing some subtle differences in your image as it is displayed on-screen:



Use adjustment layers to correct shifts in tone, curves, or hue.

COMPENSATORY SHARPENING

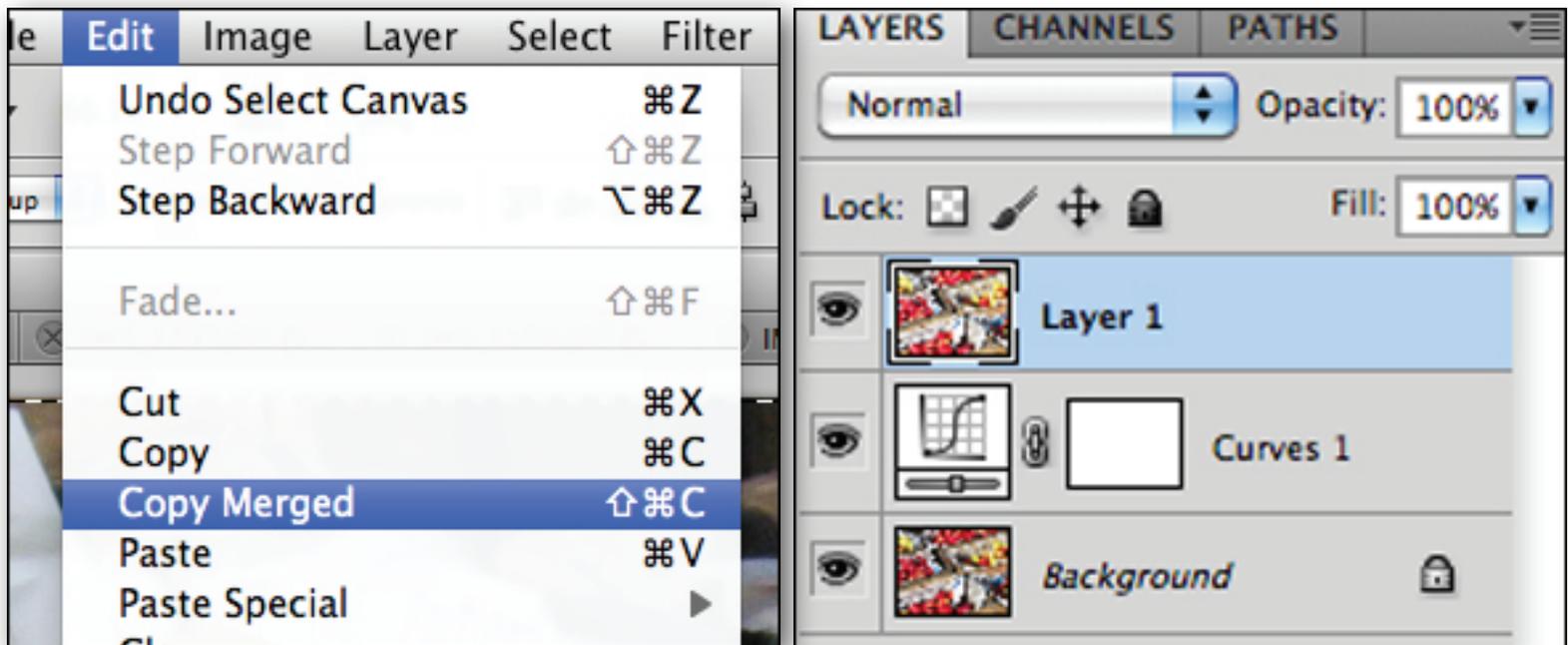
When you have edited and are satisfied with the look of your image, you may want to sharpen it to preempt any blurring that might occur on the printer. To accomplish this:

Select your topmost visible layer

Click Select > All (*CMD-A*)

Click Edit > Copy Merged (*Shift-CMD-C*)

Click Edit > Paste (*Ctrl-V*)

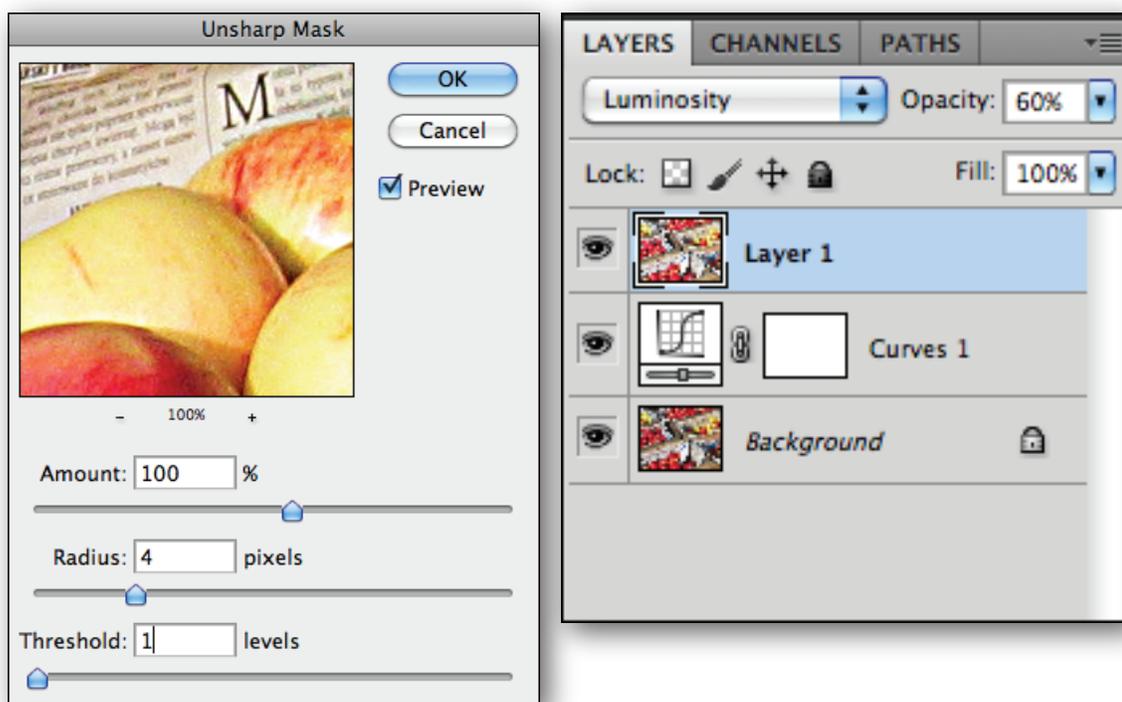


This pastes a copy of your image, merged with the adjustment curves, on top of the other layers (above, right, labeled **Layer 1**). You will perform sharpening on this new layer.

To perform the actual sharpening, you'll use Photoshop's "Unsharp Mask" filter, located in **Filter > Sharpen > Unsharp Mask**. For success in Unsharp Mask, use the following guidelines (not hard and fast rules) when sharpening:

ALL IMAGES:	60-100MB IMAGES:	30MB IMAGES:	1MB IMAGES:
Amount = 100%	Radius = 4 to 9	Radius = 2 to 5	Radius = .3 to 1.5
Threshold = 4			

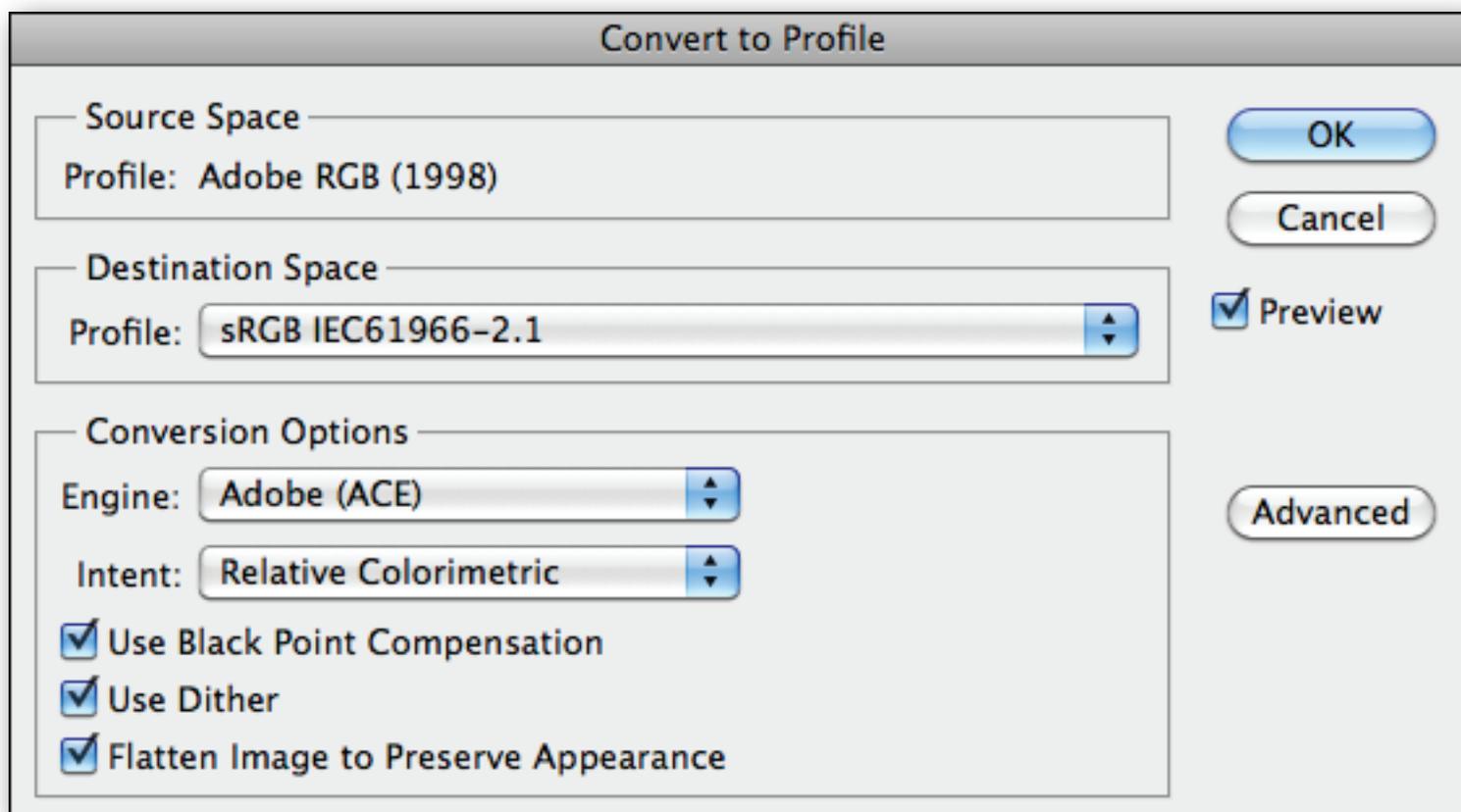
Make sure that "Preview" is clicked, and you have a detailed area in the Preview window to judge the level of sharpening (*below, left*): On Layers palette, set the Blending Mode (default = Normal) to **Luminosity**, then set the Layer opacity to somewhere between 60 and 100% opacity -- use your judgement (*below, right*).



CONVERT PROFILE FOR PRINTING

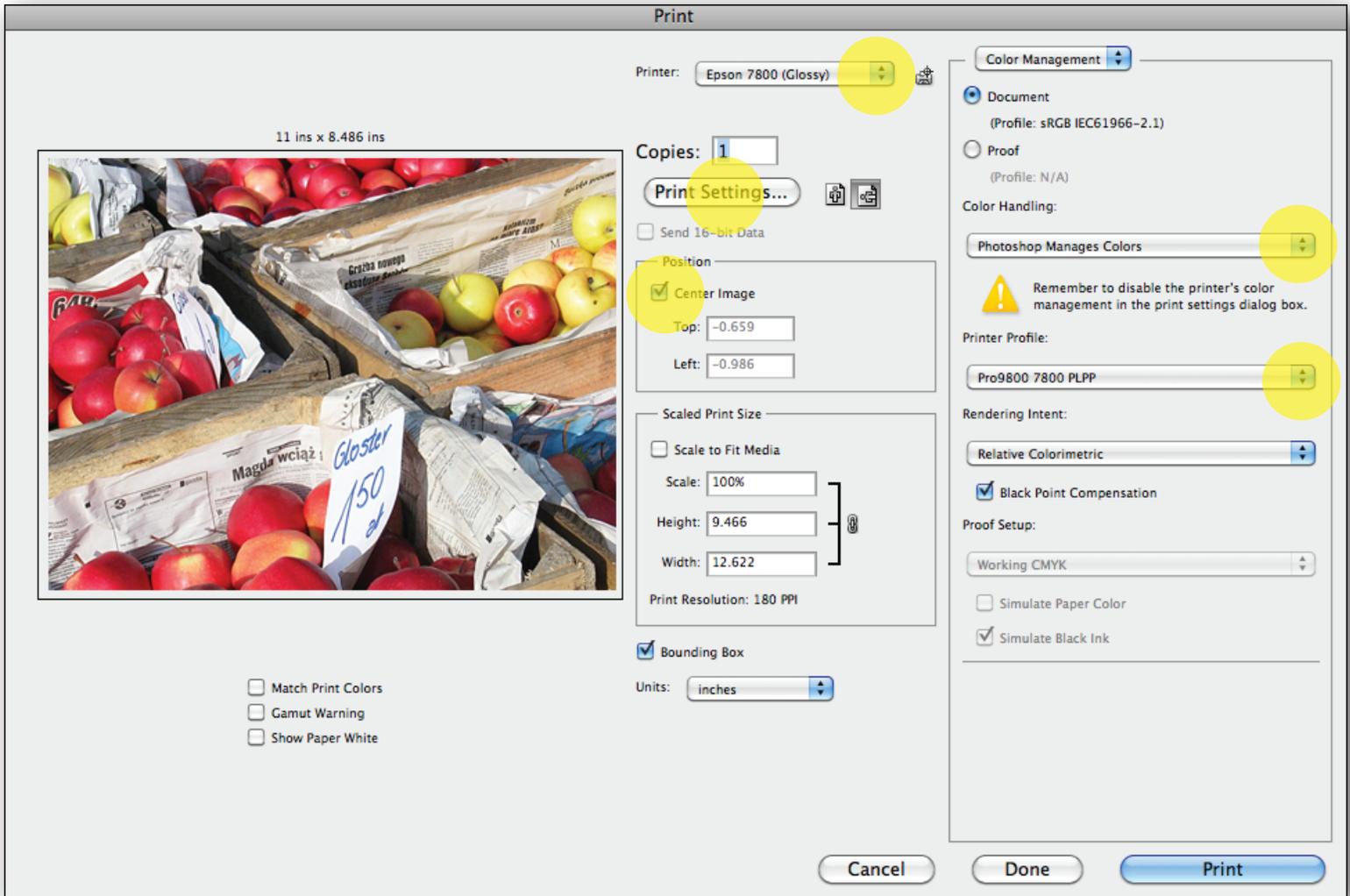
To give the printer a file that has a similar color space (sort of like speaking the same color language), convert your file's color space from **Adobe RGB (1998)** to **sRGB IEC61966-2.1**.

Locate the Convert to Profile under Edit > Convert to Profile. The default settings are appropriate (see below):



PRINTING

In Photoshop, click File > Print (*CMD-P*). The Print dialog box appears:



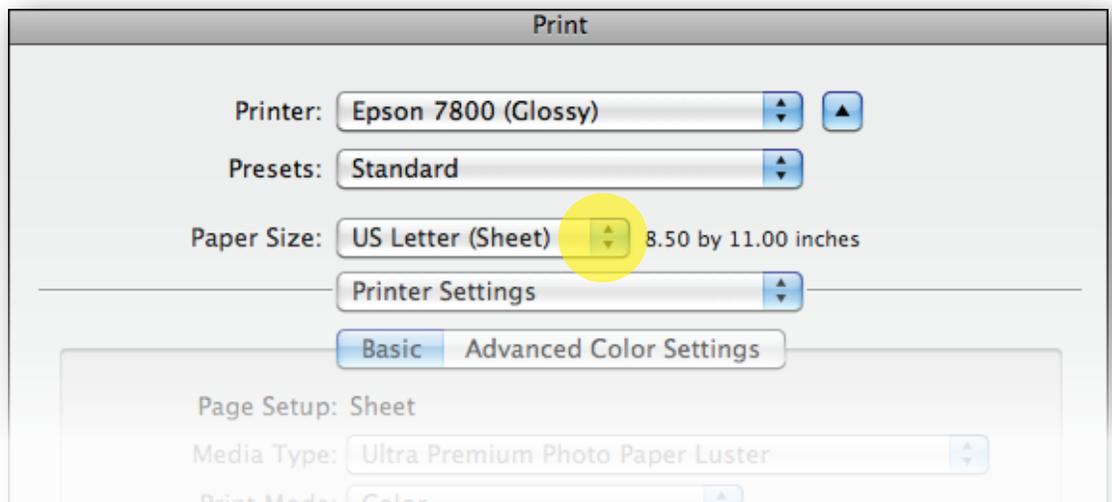
Select Printer: Epson 7800. Ensure the current Print Size will fit on your paper (if it doesn't, Cancel printing and adjust size in Image > Image Size)

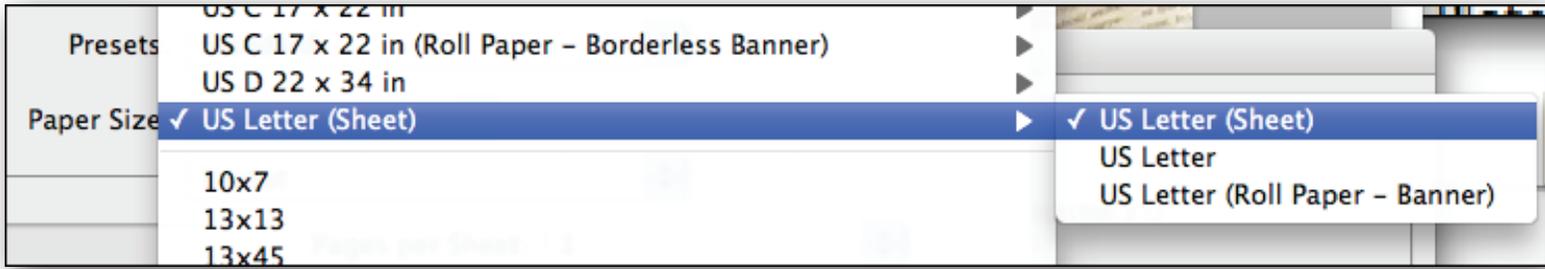
CHOOSING THE CORRECT PRINT SETTINGS

Click "Print Settings..." to open the printer driver dialog box:

Ensure the Printer is still set to the 7800.

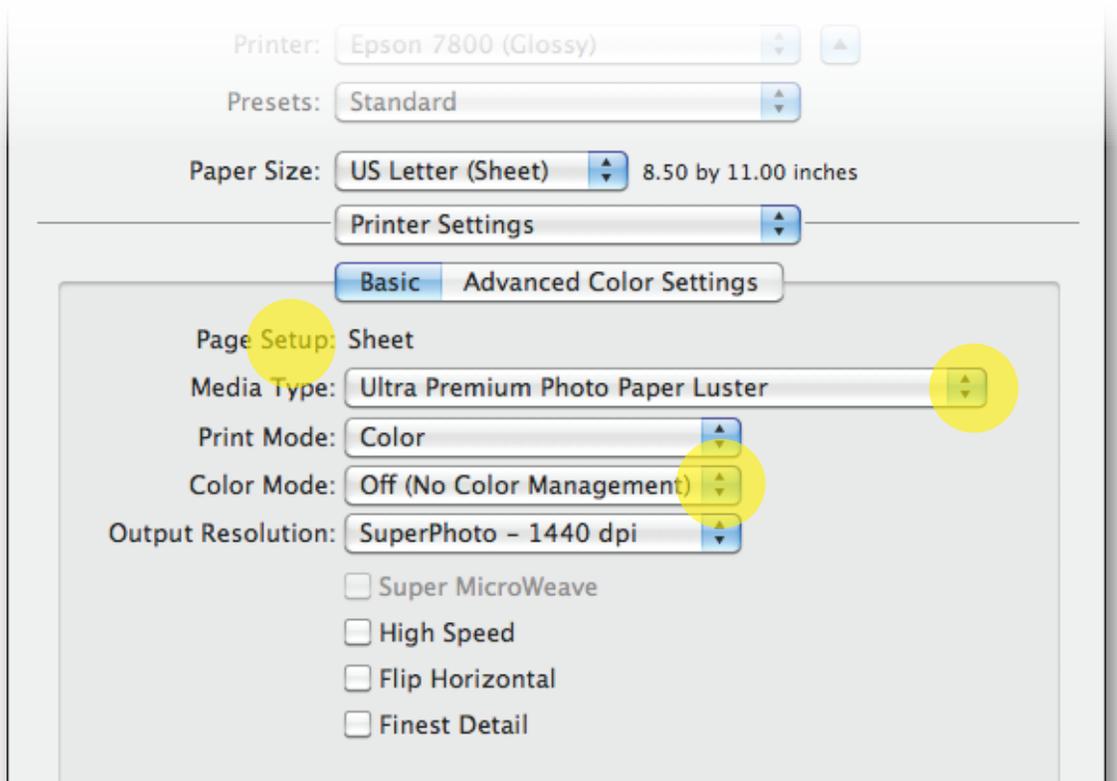
In Paper Size, select US Letter >
US Letter (Sheet)





Please note that simply selecting “US Letter” will *NOT* send a sheet job to the printer, and the printer will display a message requesting roll paper. You *must* specify **US Letter (Sheet)**.

In the drop down below the Paper Size, select Printer Settings:



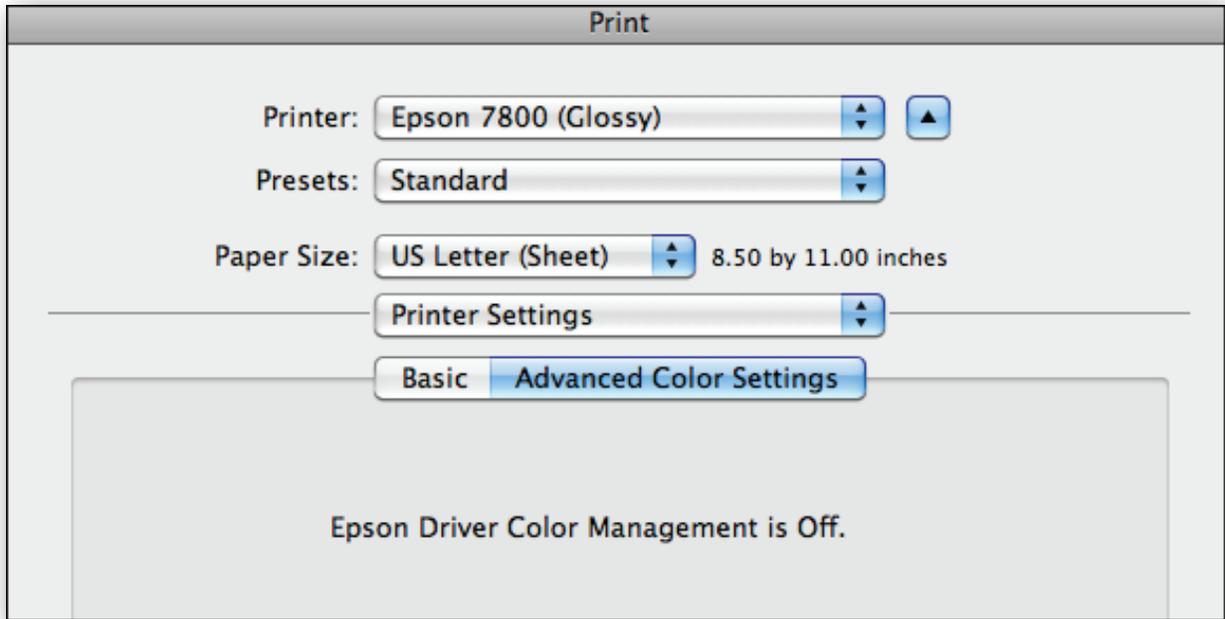
The highlighted areas are of special importance and can determine the success or failure of your job!

Page Setup: Ensure that this reflects “**Sheet**” or “**Roll Paper**” as you intended.

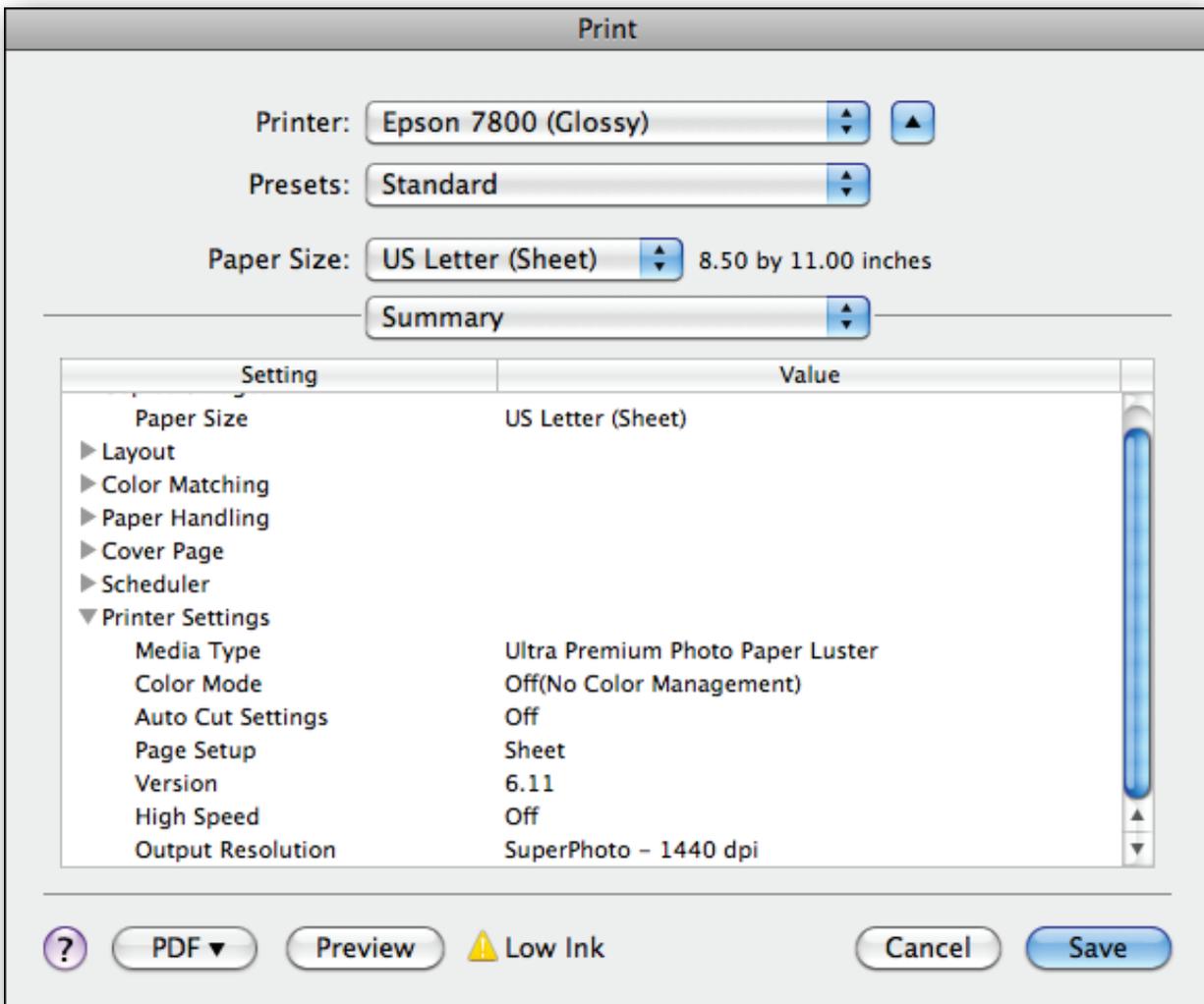
Media Type: Note that for sheet media, the type is “**Ultra Premium Photo Paper Luster.**” Roll media would have (250) or (260) appended onto the name.

Color Mode: Must be **Off (No Color Management)**. This ensures Epson’s color controls are not interfering with your soft proof setup in Photoshop.

To ensure that you have turned OFF color management, click the Advanced Color Settings tab.



Lastly, check the Summary in the drop down menu to verify that your settings are exactly as desired:



You can save these settings under "Presets" so you don't have to bother with them every time. Choose "Save As..." from the Preset menu and follow the prompts. Your settings will appear in the Presets menu on your login/machine until the end of each semester.

Click **Save** to exit Printer Settings dialog box.

Back on the Print dialog box, on the left-hand side:

Ensure "**Document**" is selected, with Profile **sRGB IEC61966-2.1** (if it displays something else, Cancel printing and repeat steps to Convert to Profile)

Color Handling: choose **Photoshop Manages Colors**

Printer Profile: choose the correct printer profile for the paper you are using (must match soft proof settings for accurate results!)

Leave **Rendering Intent** and **Black Point Compensation** at their defaults.

Load media into printer and ensure that no other job is waiting in the queue. If a job is stuck in the queue, hold the Pause button down for 3 seconds on the printer panel to delete the job.

Click "**Print**"

