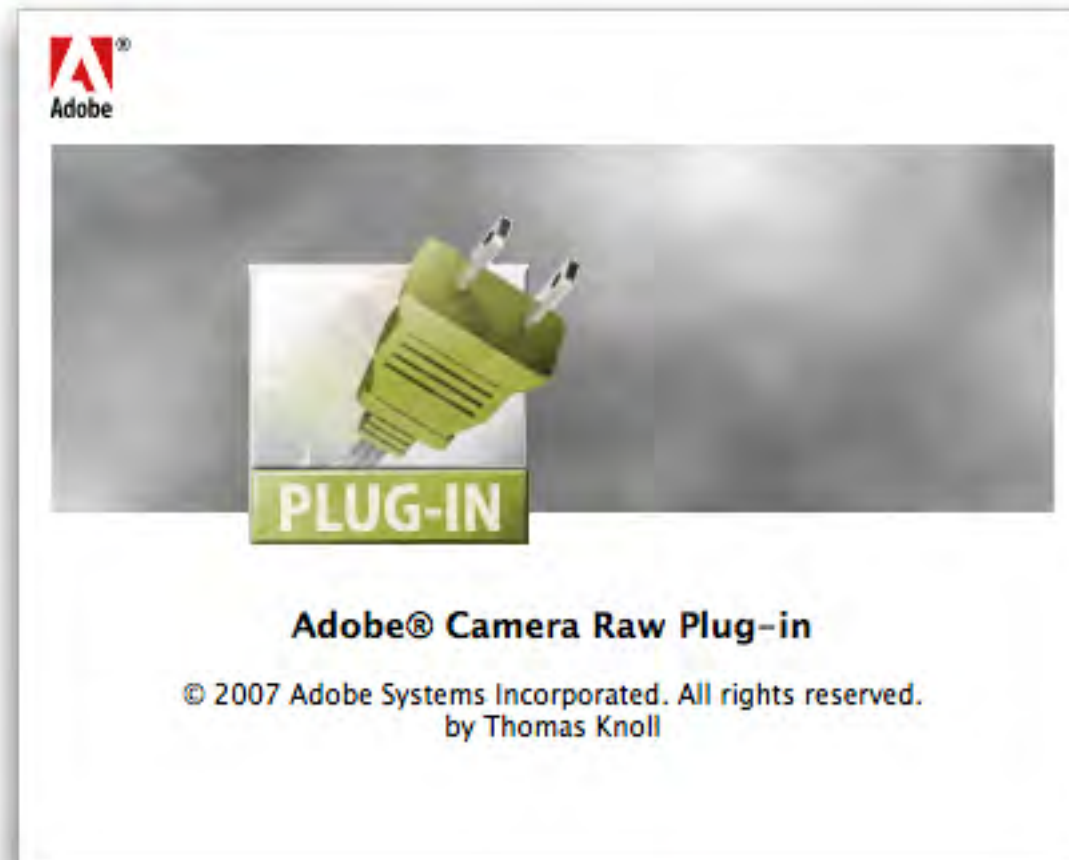


Adobe Photoshop



Camera Raw

Original Writing By Bruce Fraser
Additional Writing by Jeff Schewe



Portrait by Jeff Schewe

Primary author and founder—Thomas Knoll



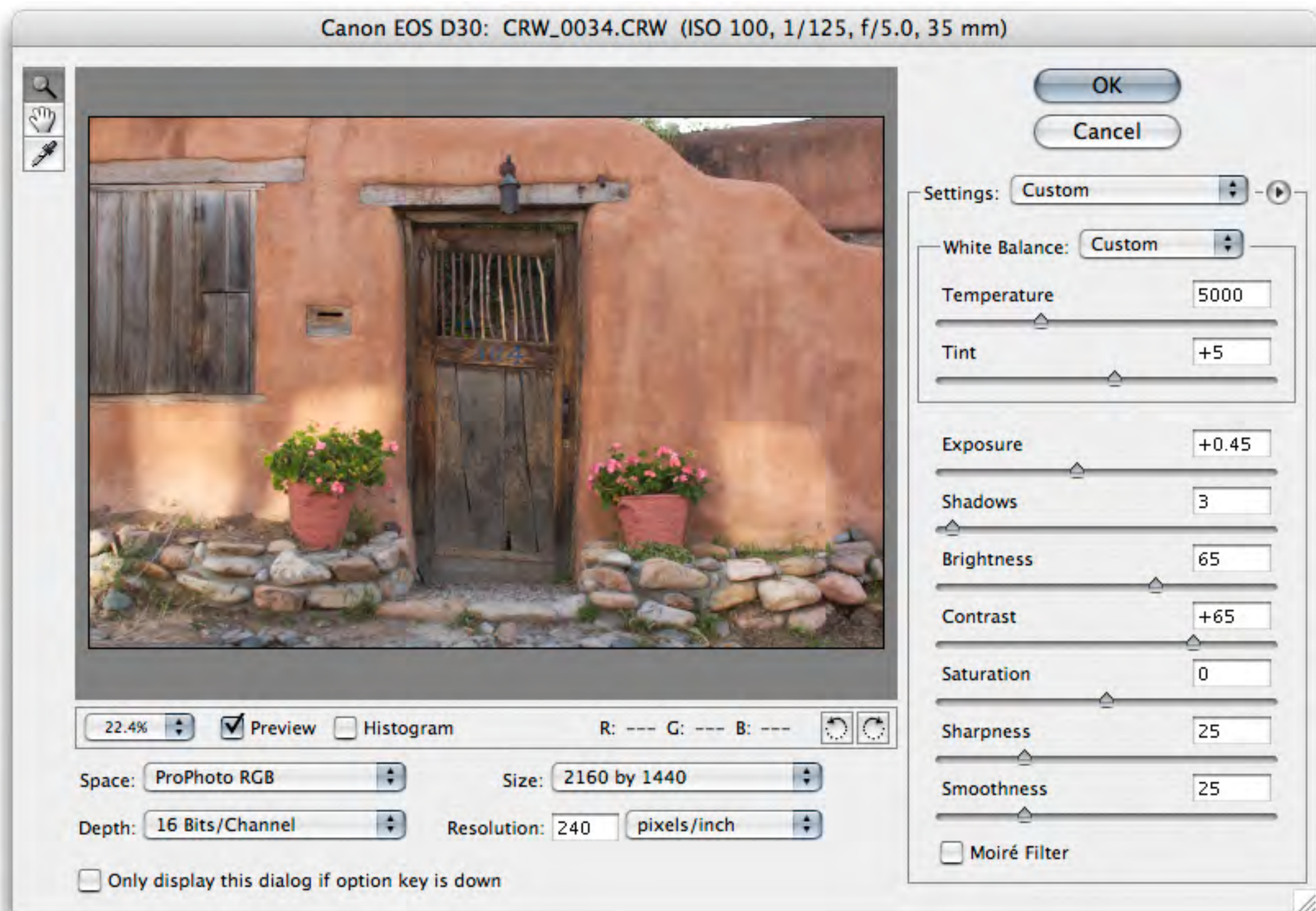
Portrait by Jeff Schewe

Additional code by Mark Hamburg

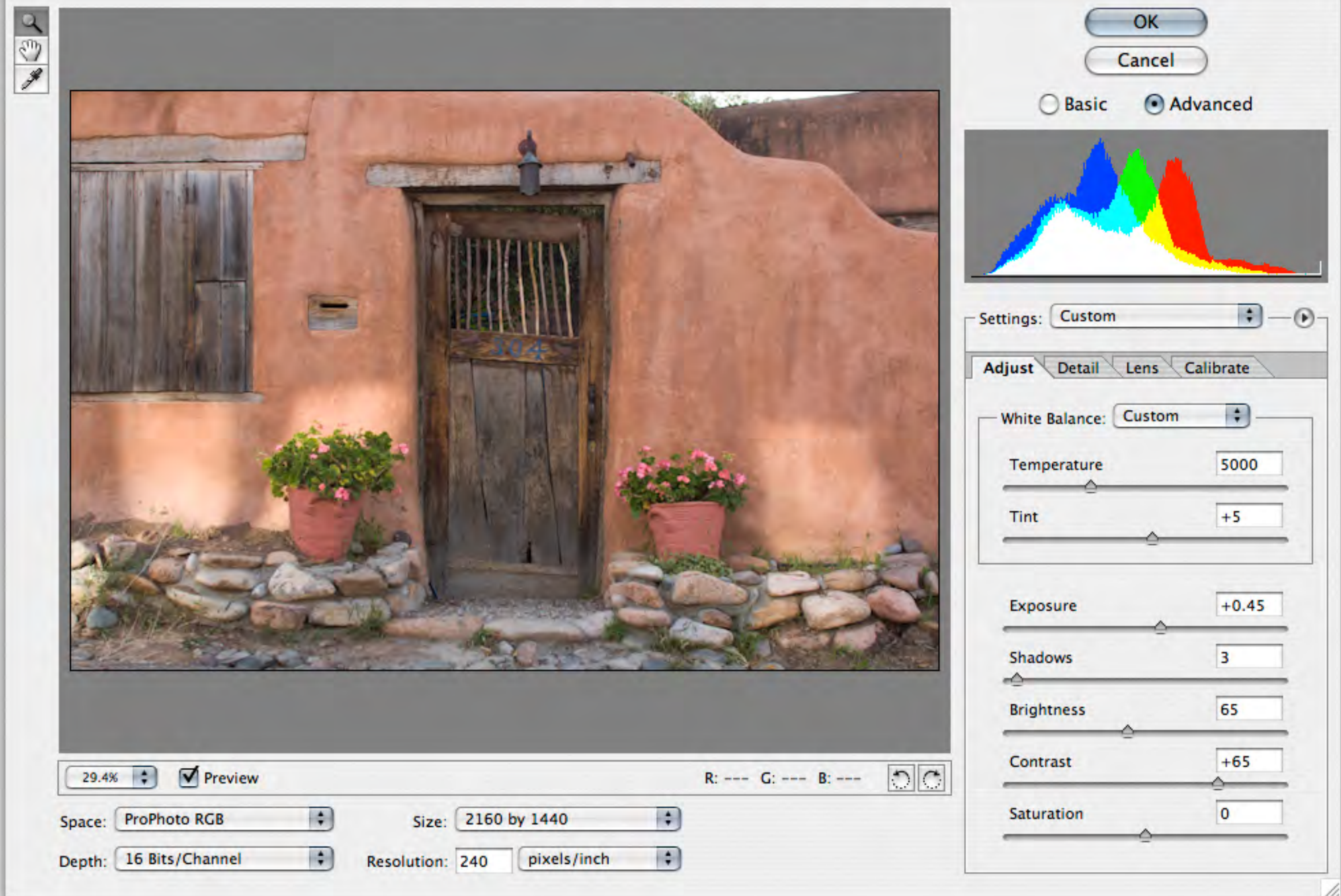


Portrait by Jeff Schewe

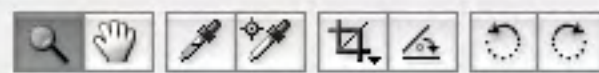
Additional code by Zalman Stern



Camera Raw 1.0 – February 2003

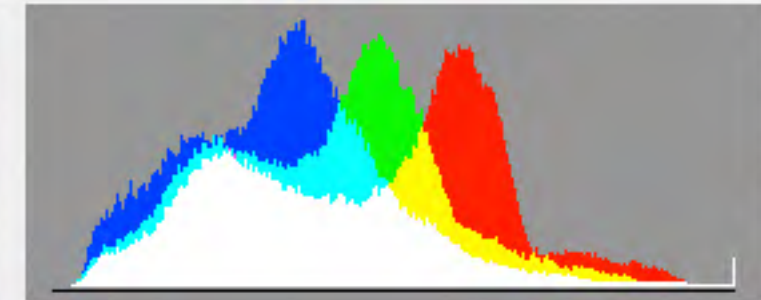


Camera Raw 2 – October 2003



☒ Preview ☐ Shadows ☐ Highlights

R: --- G: --- B: ---



Settings: Custom

Adjust Detail Lens Curve Calibrate

White Balance: Custom

Temperature 5000

Tint +5

Auto Default

Exposure +0.45

Shadows 3

Brightness +65

Contrast 65

Saturation 0

31.2%

☒ Show Workflow Options

Space: ProPhoto RGB

Size: 2160 by 1440 (3.1 MP)

Depth: 16 Bits/Channel

Resolution: 240 pixels/inch

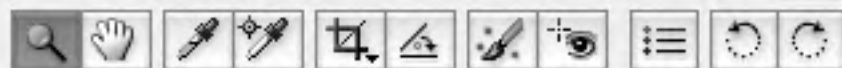
Save...

Cancel

Open

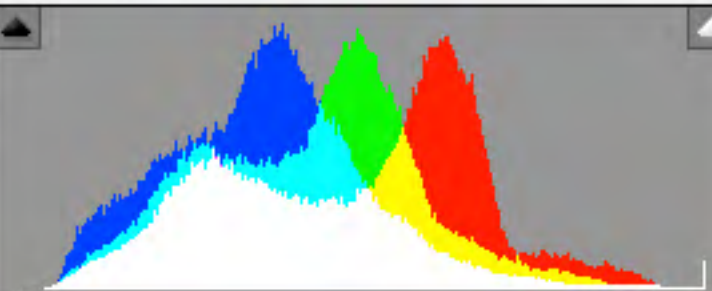
Done

Camera Raw 3 – April 2005

☒ Preview

- + 32.3%

CRW_0034.CRW



R: --- f/5 1/125 s
G: --- ISO 100 17-35@35 mm
B: ---



Basic

White Balance: Custom

Temperature 5000

Tint +5

Auto Default

Exposure +0.45

Recovery 0

Fill Light 10

Blacks 3

Brightness +65

Contrast +65

Clarity 10

Vibrance +7

Saturation 0

Save Image...

ProPhoto RGB; 16 bit; 2160 by 1440 (3.1MP); 240 ppi

Open Image

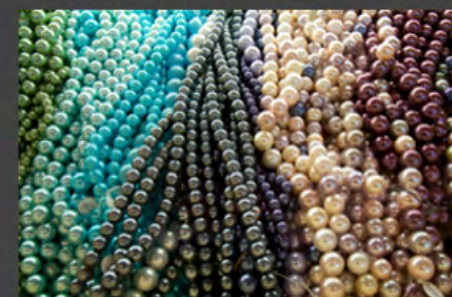
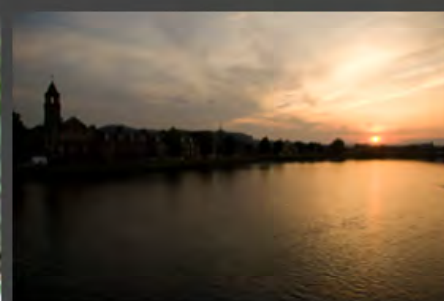
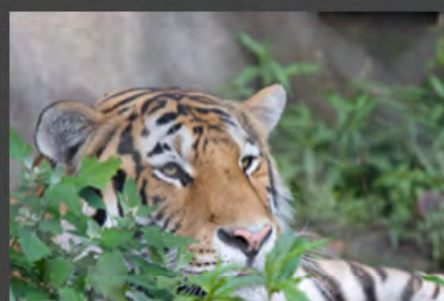
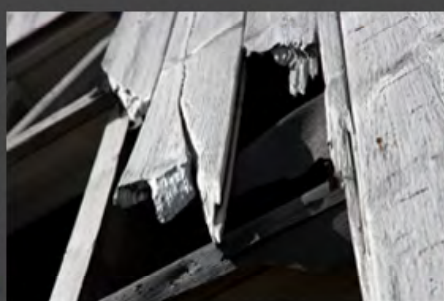
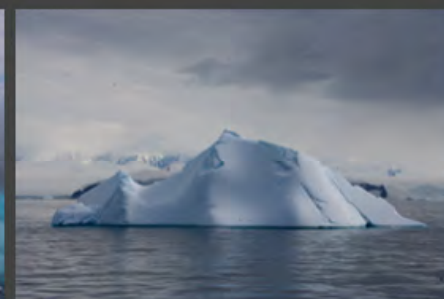
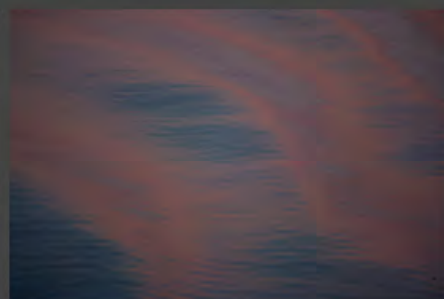
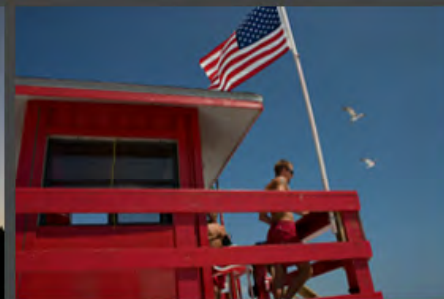
Cancel

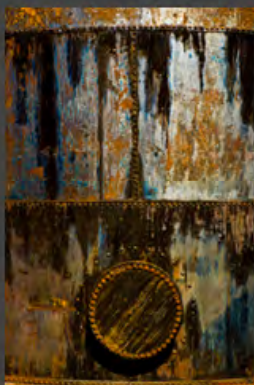
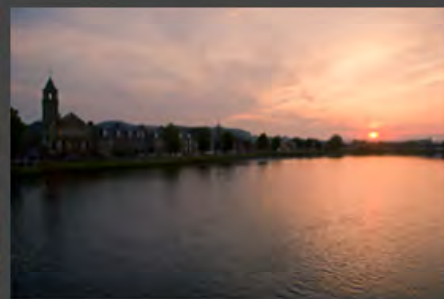
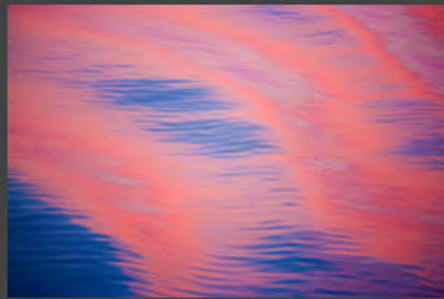
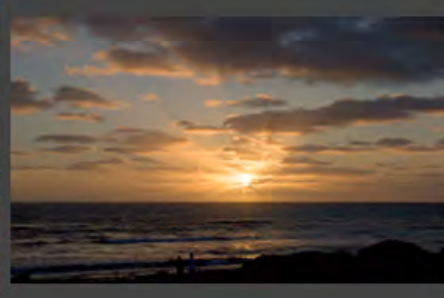
Done

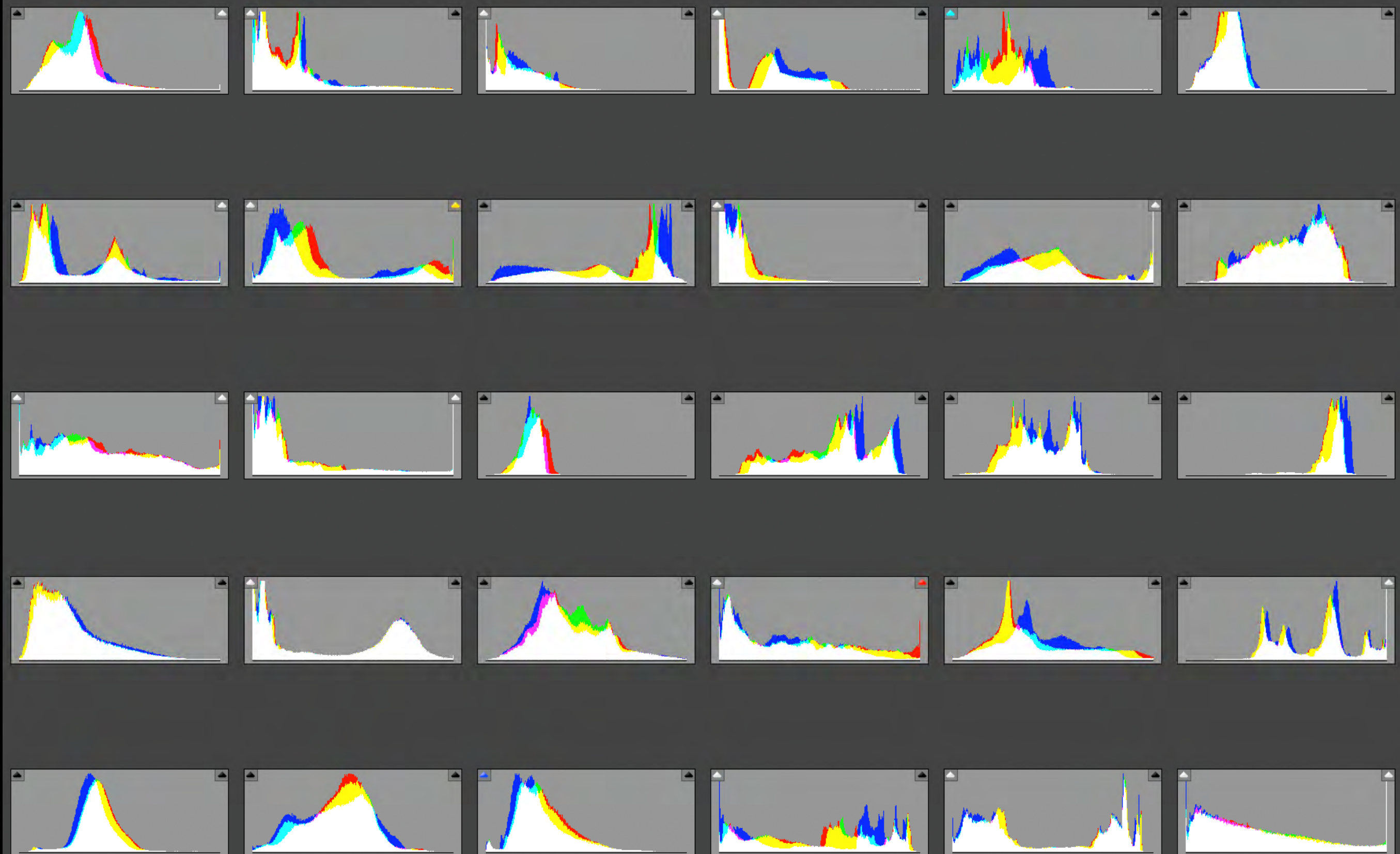


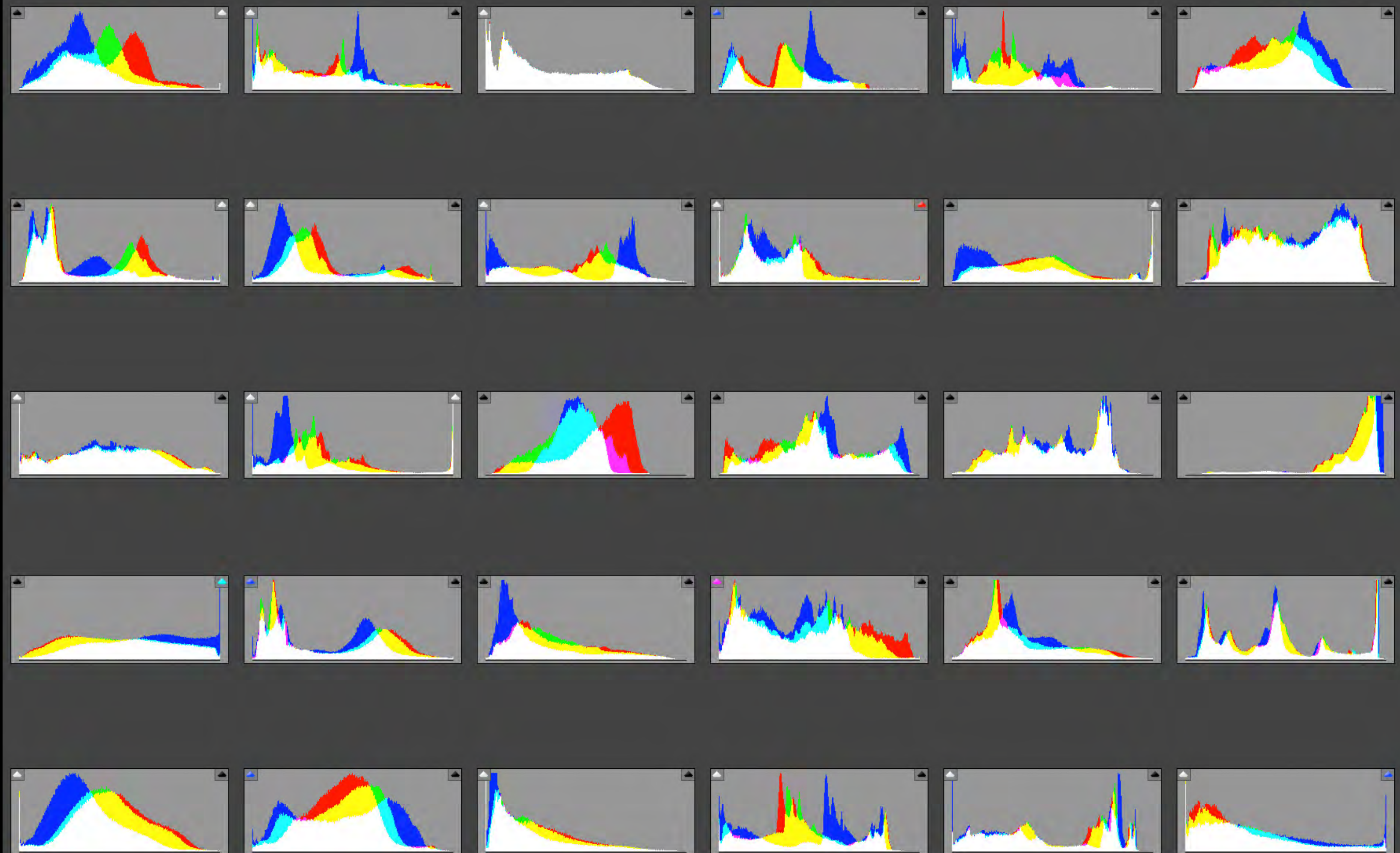
What is the Camera Raw Default?

And Why Should You Care?

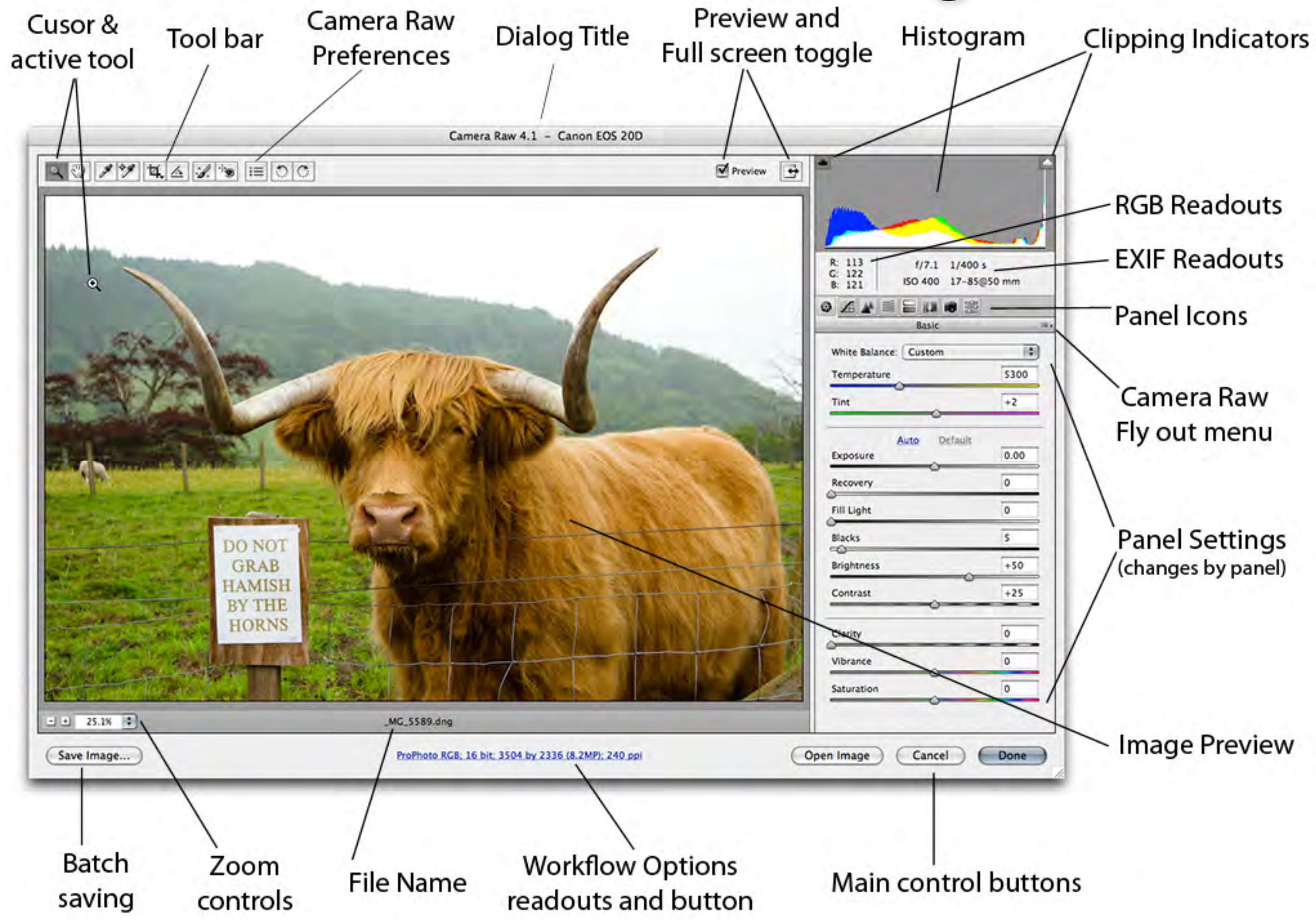








Camera Raw Dialog



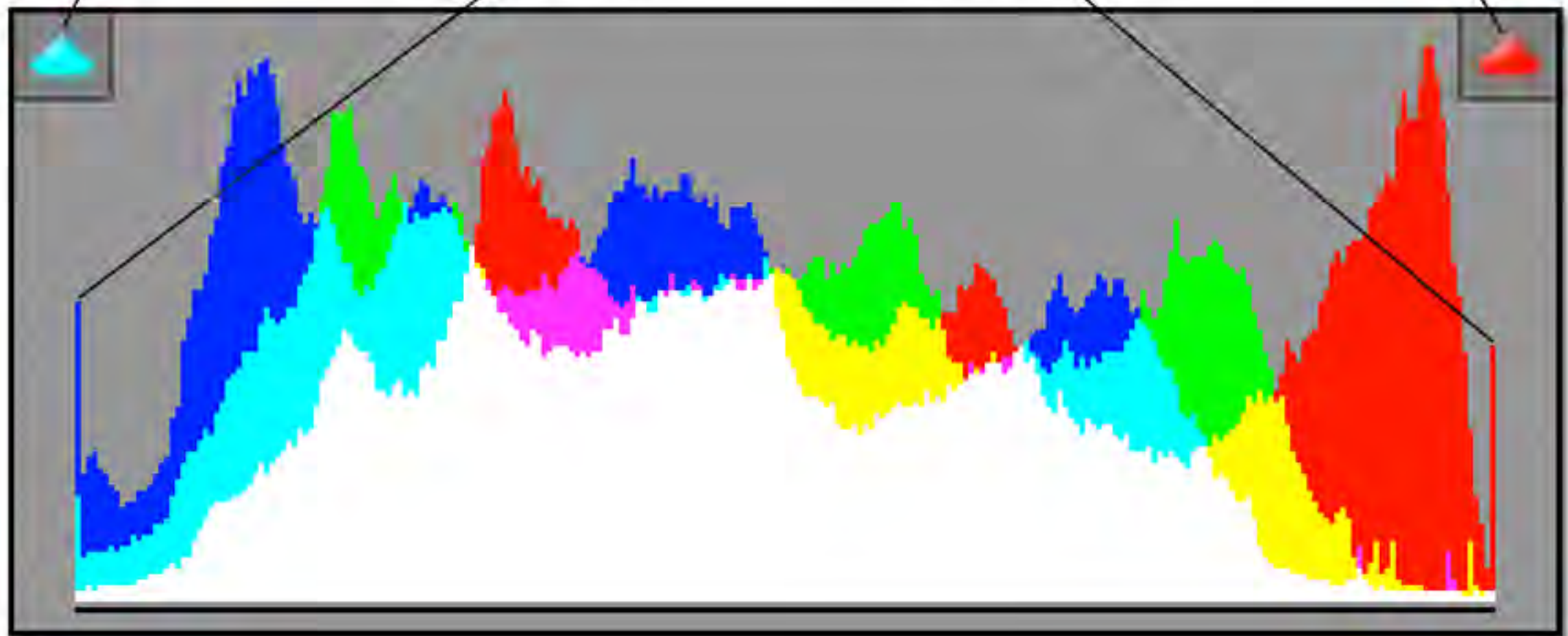
Camera Raw Histogram

Shadow Clipping Indicator On
showing both green and blue clipping

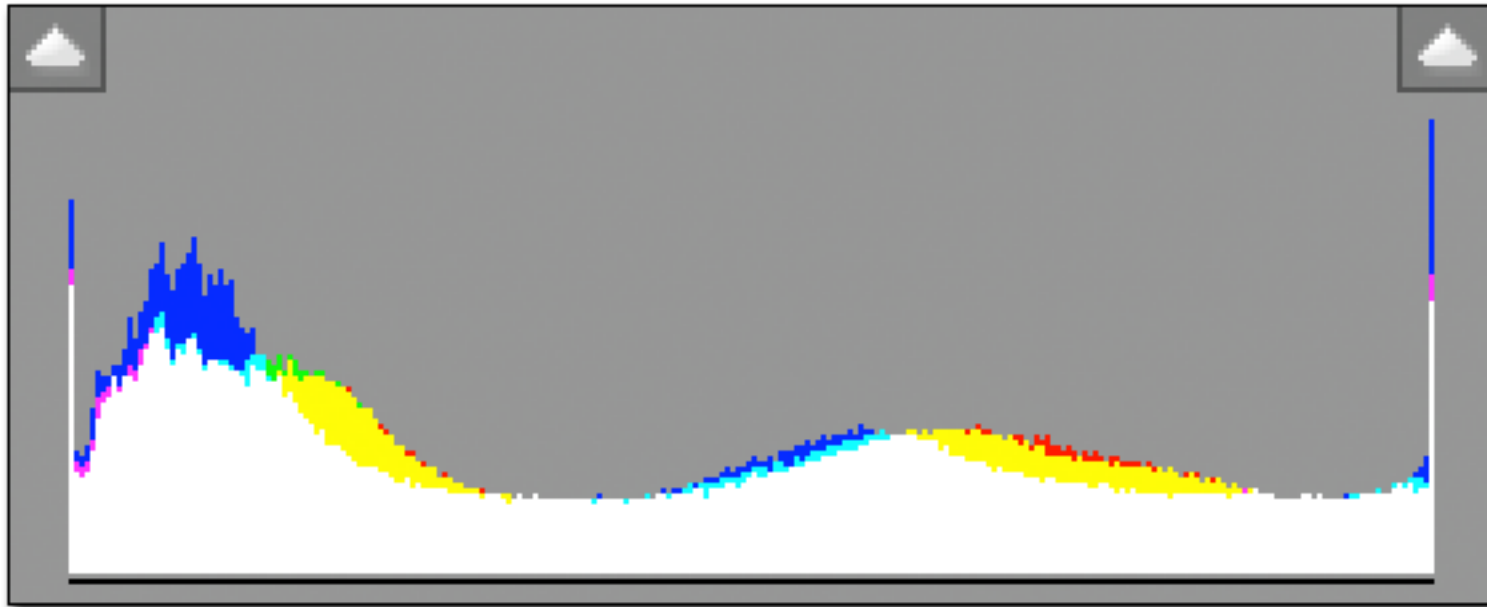
Highlight Clipping Indicator On
showing red clipping

Blue channel
clipping display

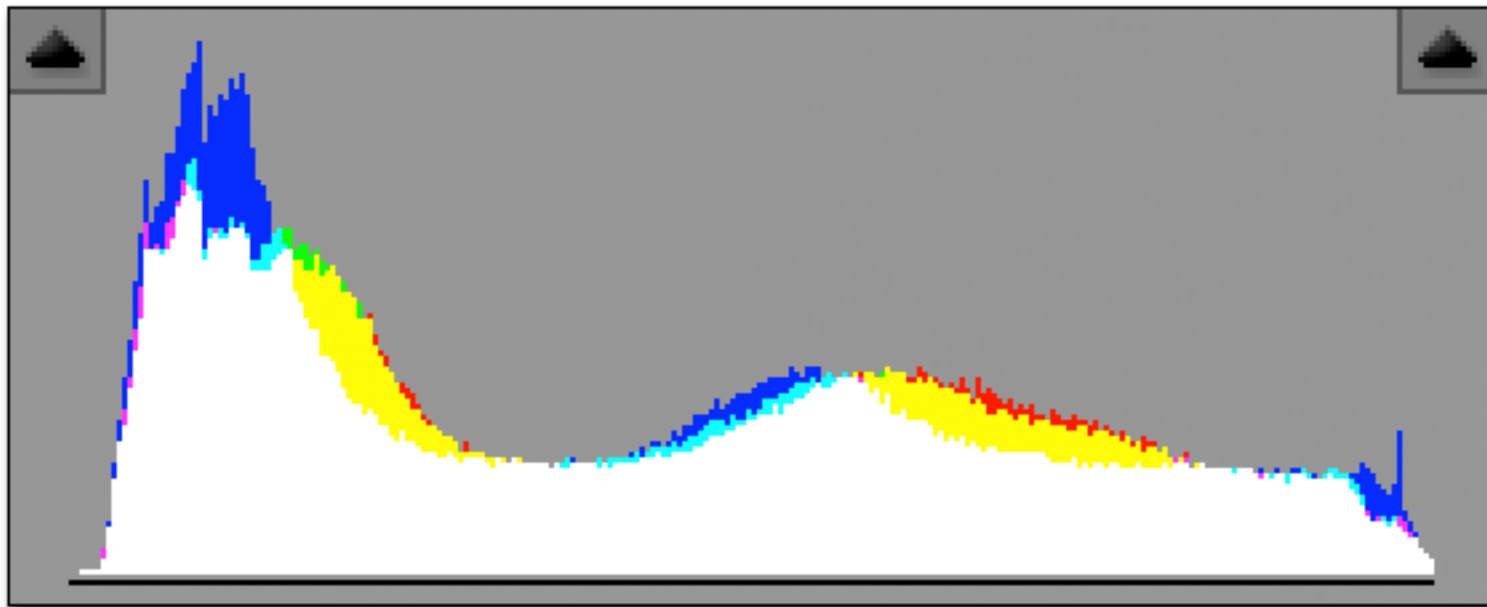
Red channel
clipping display



Camera Raw Histogram

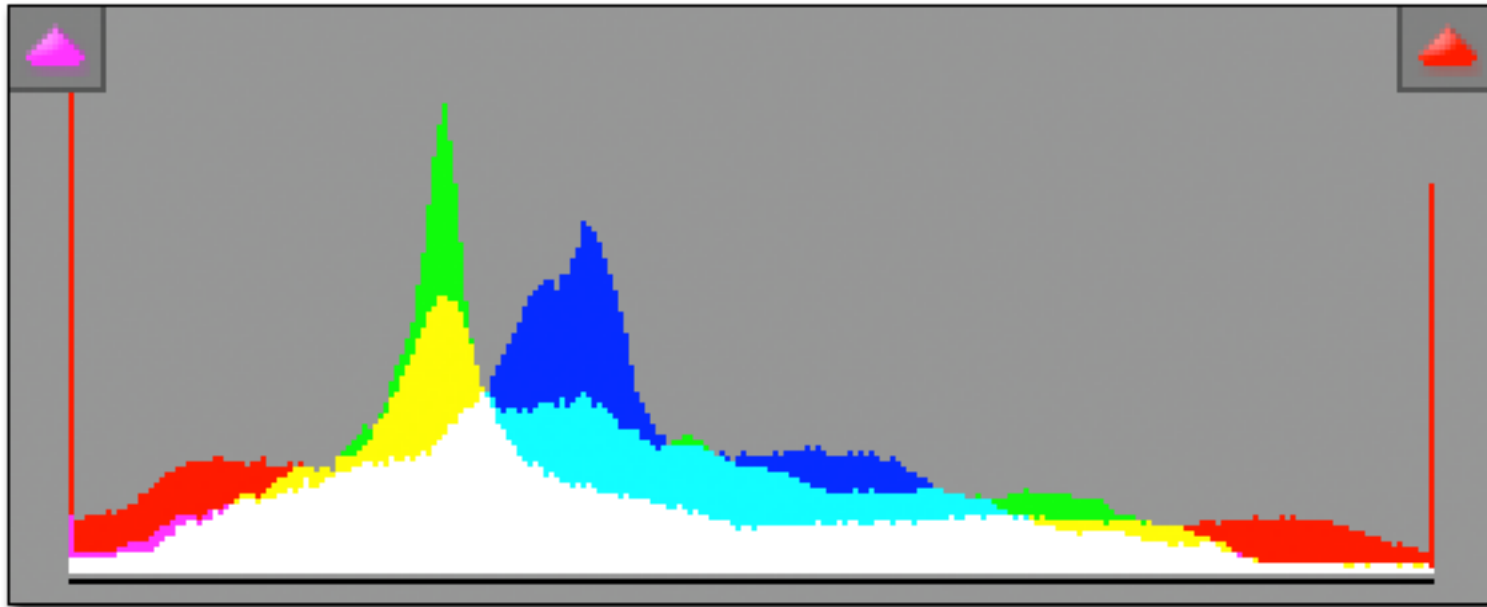


Highlight & Shadow Clipping

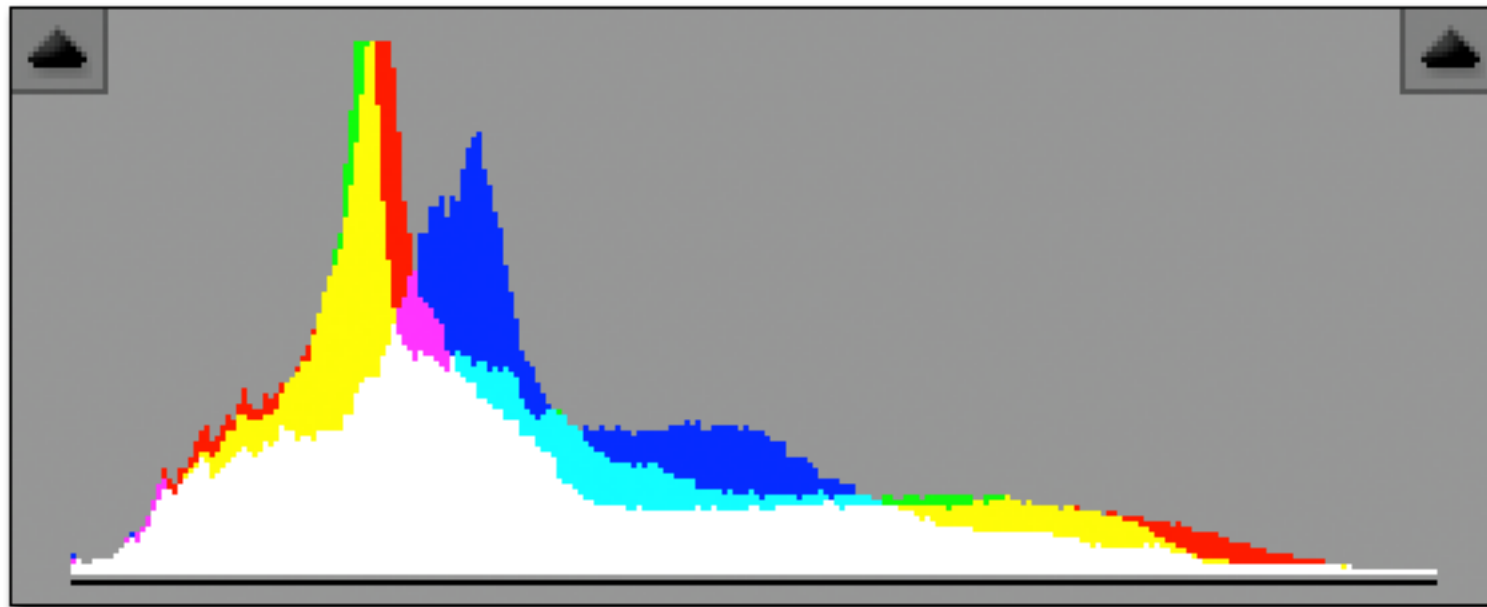


Highlight & Shadow Clipping Fixed

Camera Raw Histogram



Saturation Clipping



Saturation Clipping Fixed

Camera Raw Metadata Readouts

RGB Readouts

EXIF Readouts

F Stop Shutter Speed

R: 143

G: 155

B: 145

f/7.1

1/400 s

ISO 400

17-85@50 mm

ISO

Lens data

Camera Raw Panels

Basic

Detail

Split
Toning

Camera
Calibration



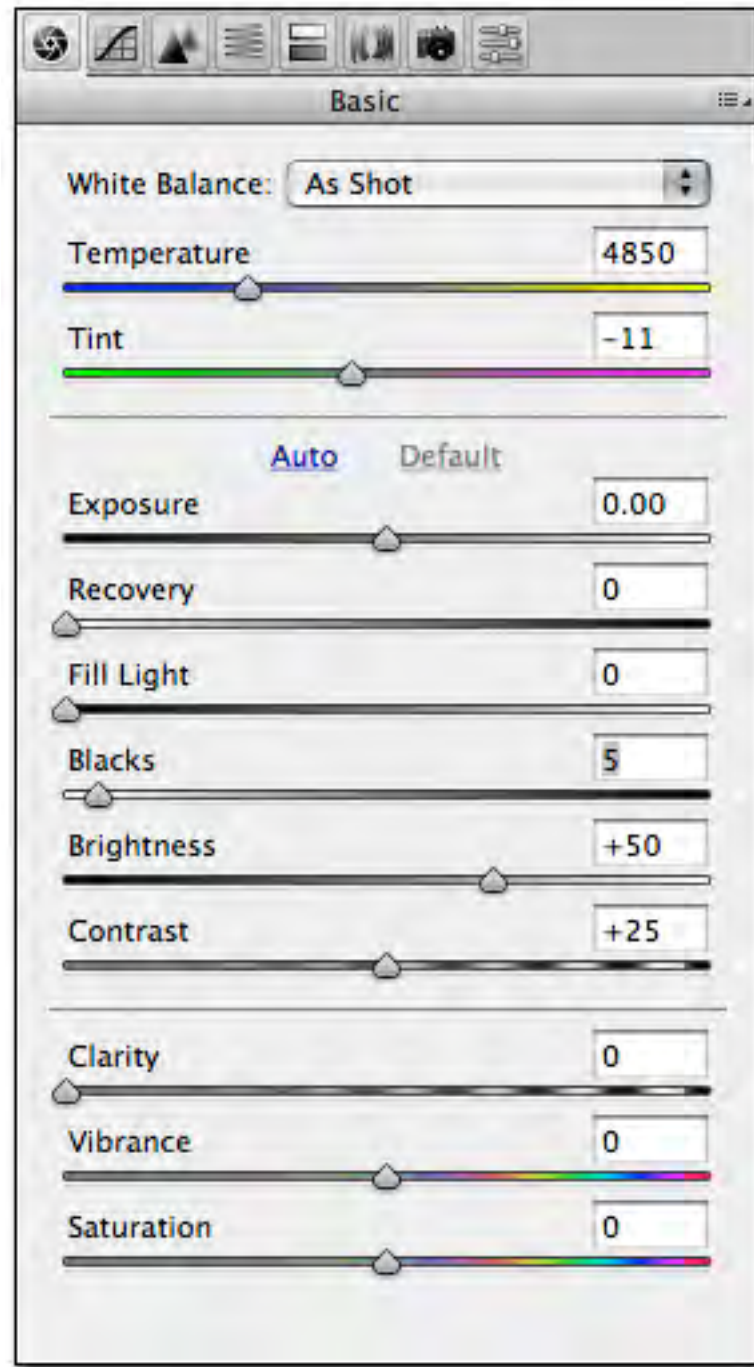
Tone
Curve

HSL/
Grayscale

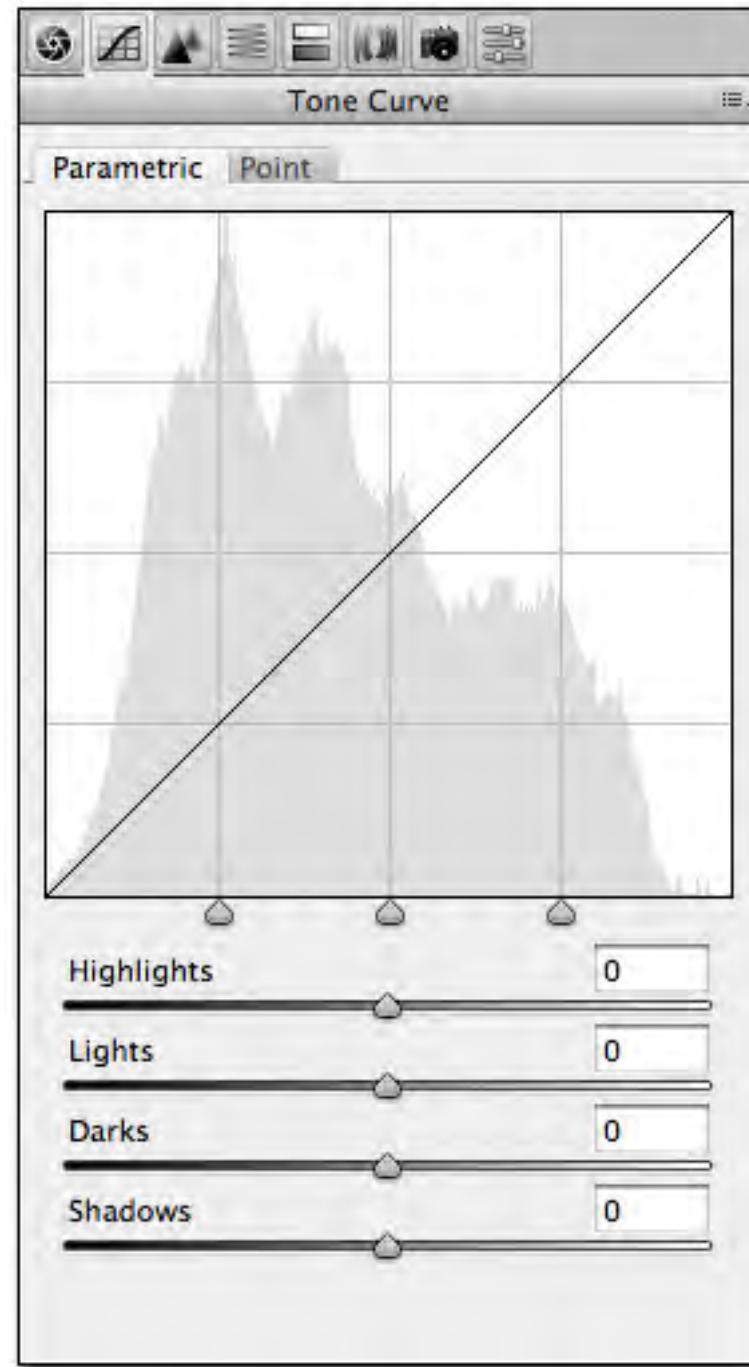
Lens
Corrections

Presets

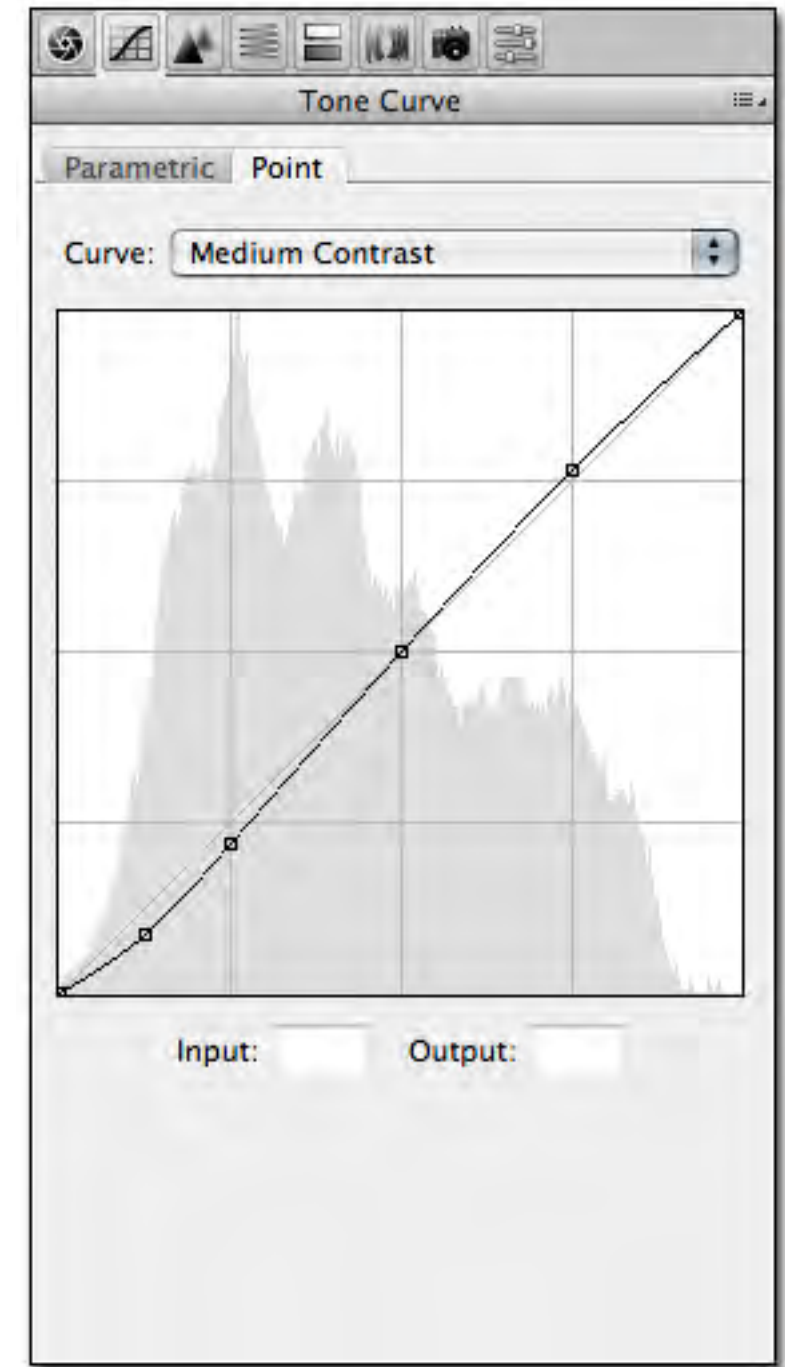
Camera Raw Panels



Basic

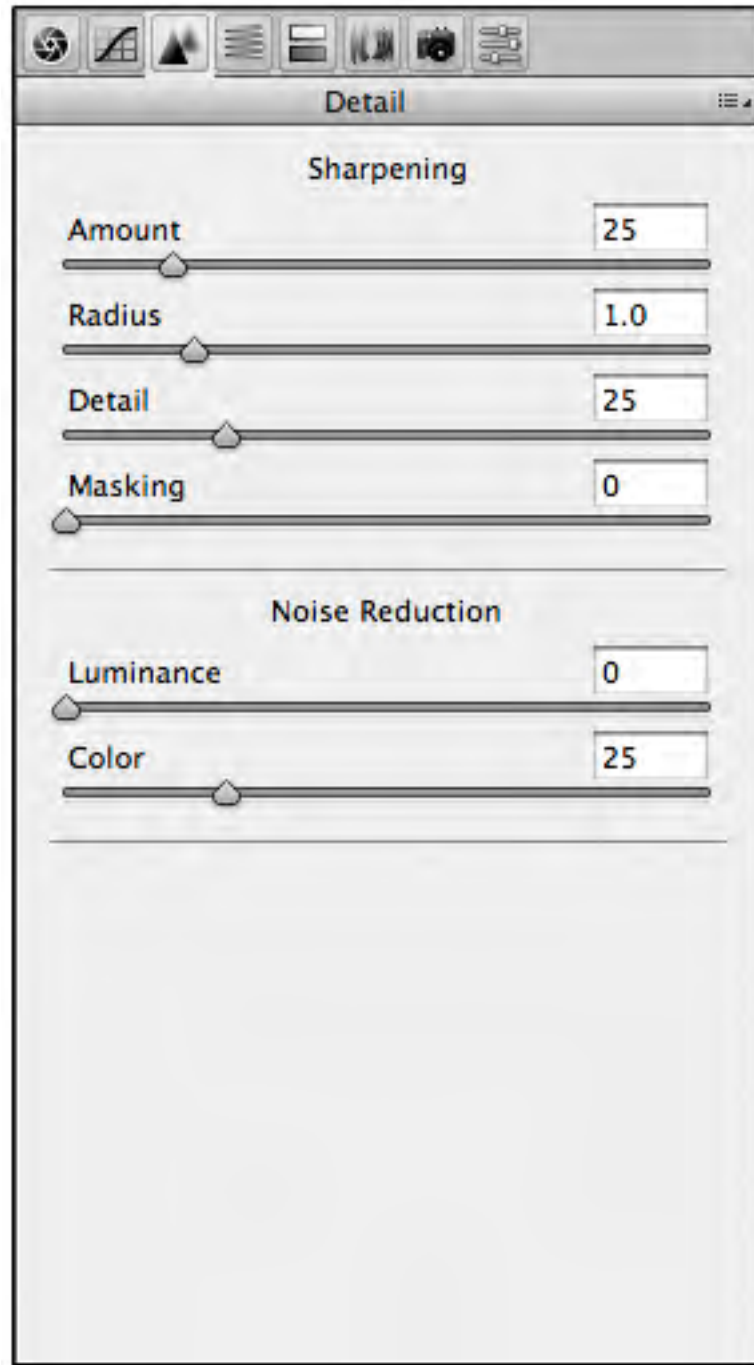


**Parametric
Curve**

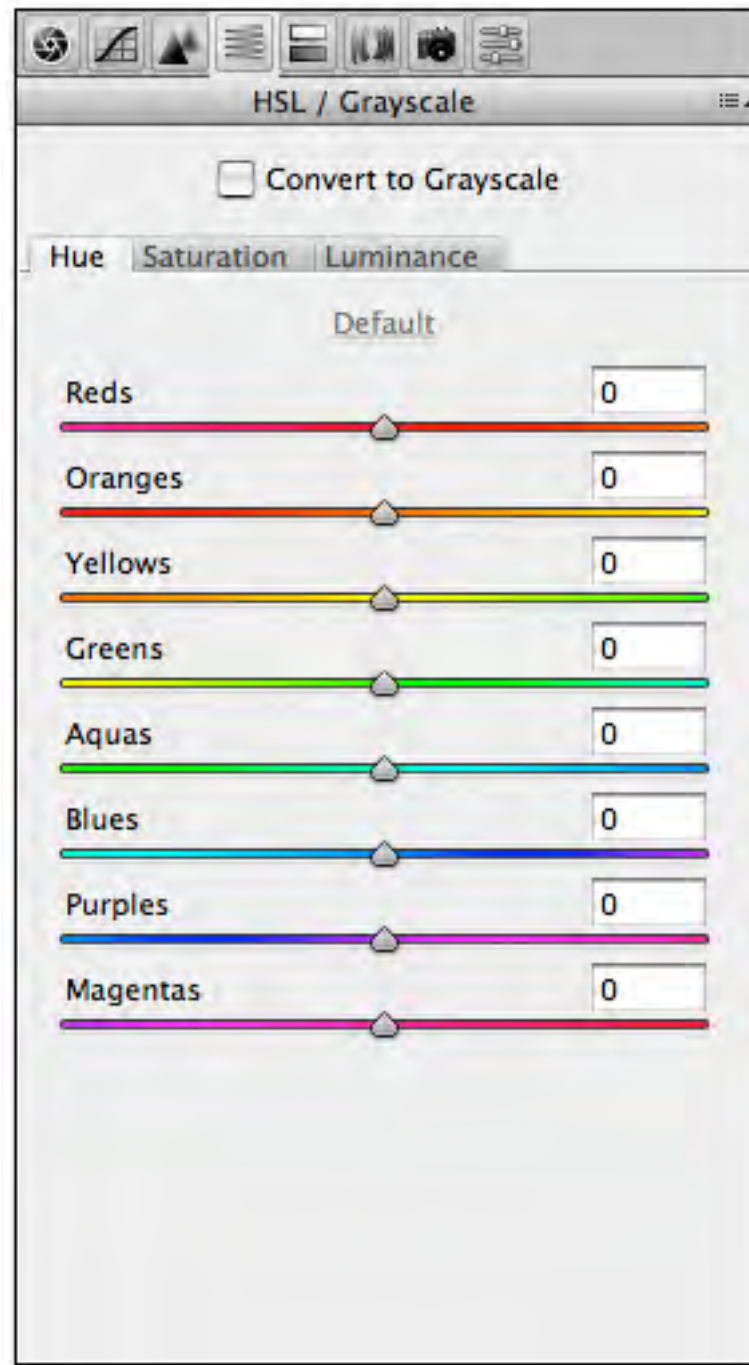


**Point
Curve**

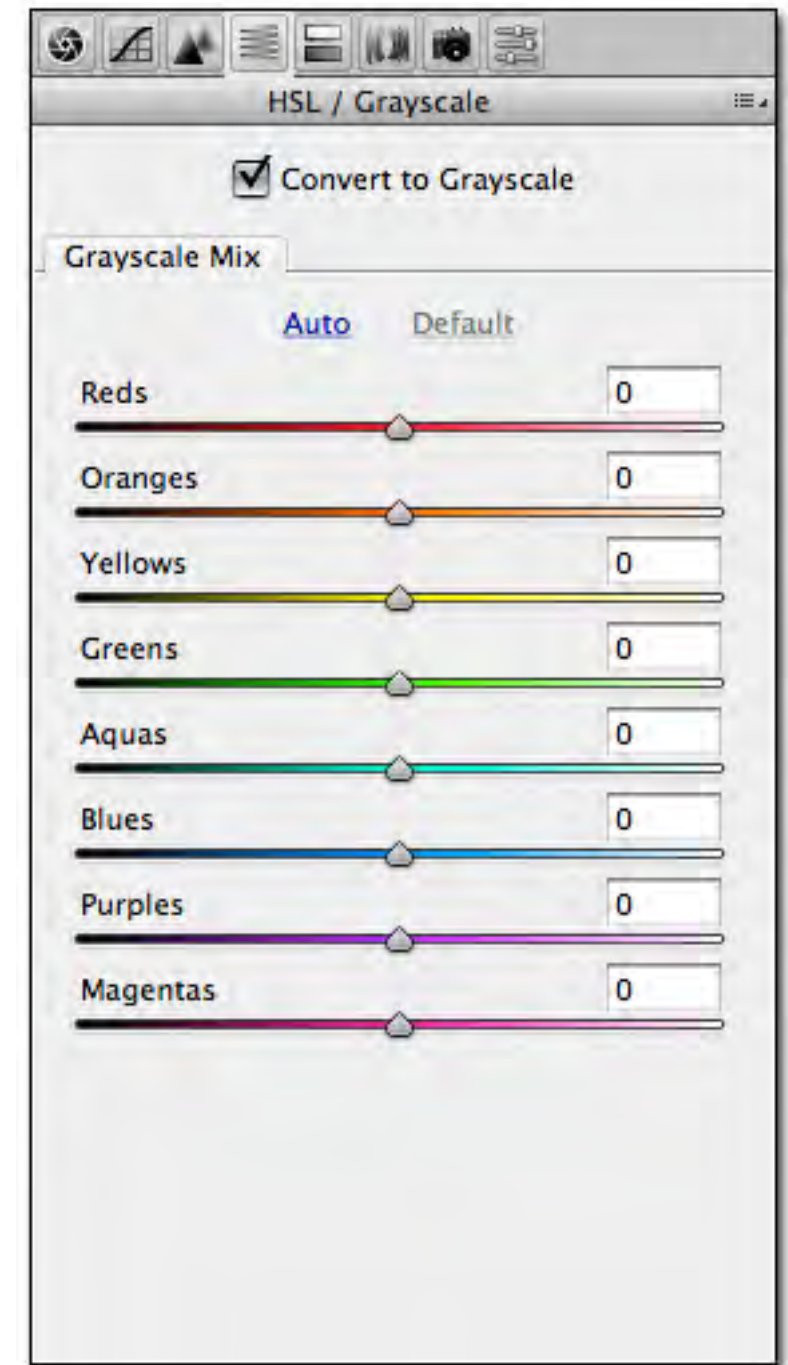
Camera Raw Panels



Detail

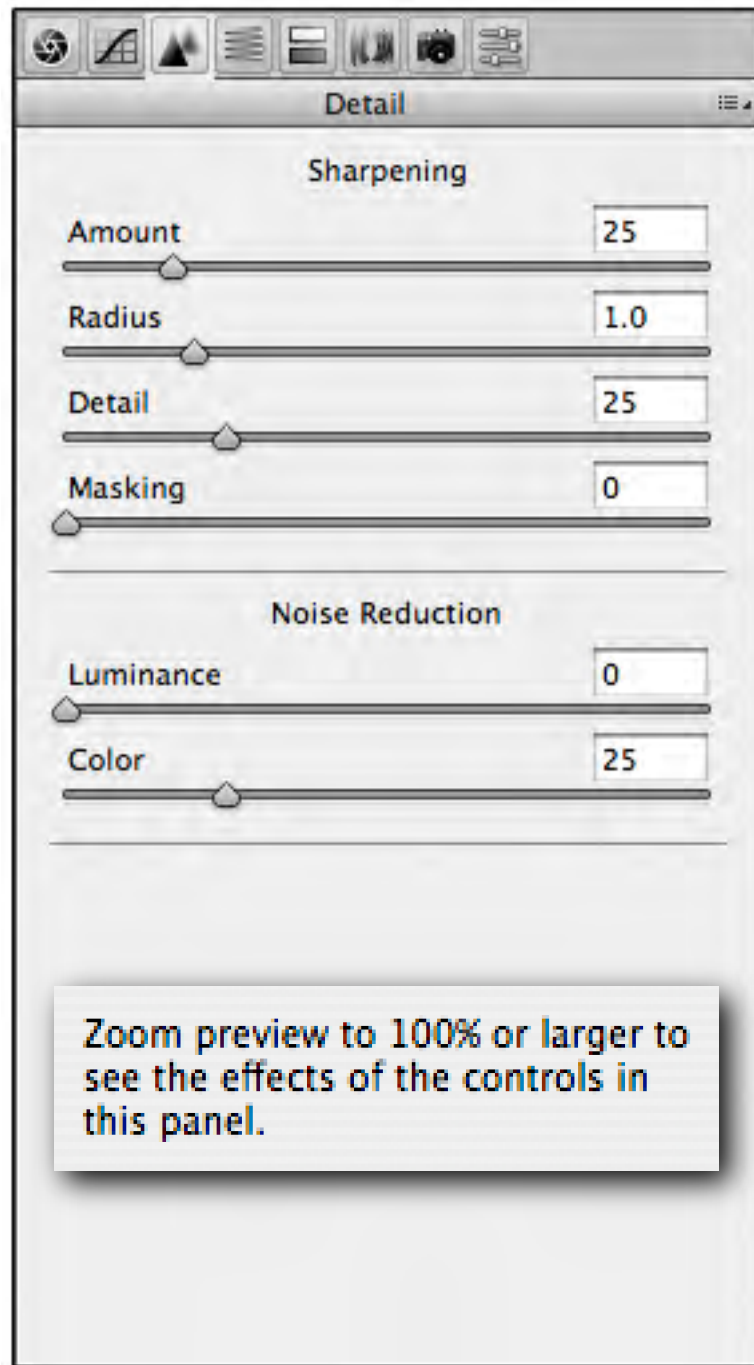


**HSL/Grayscale
Color**

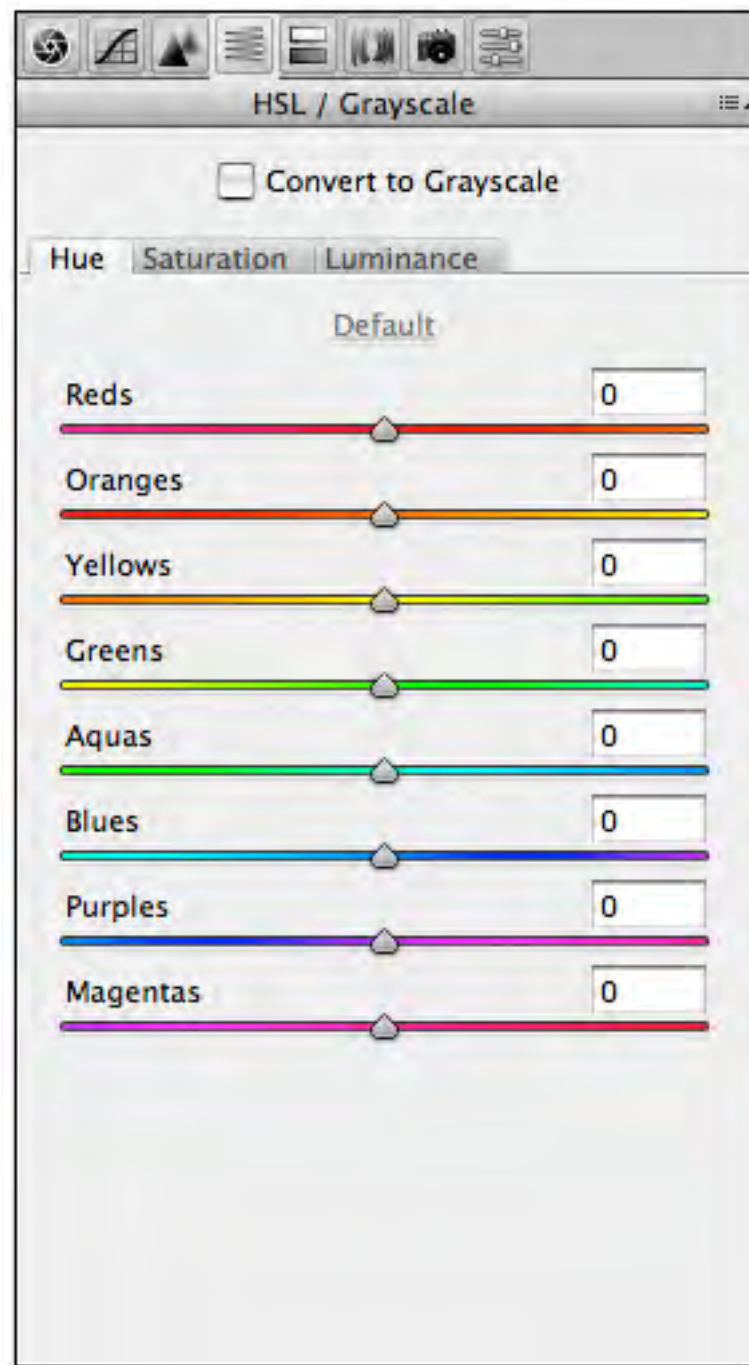


**HSL/Grayscale
B&W**

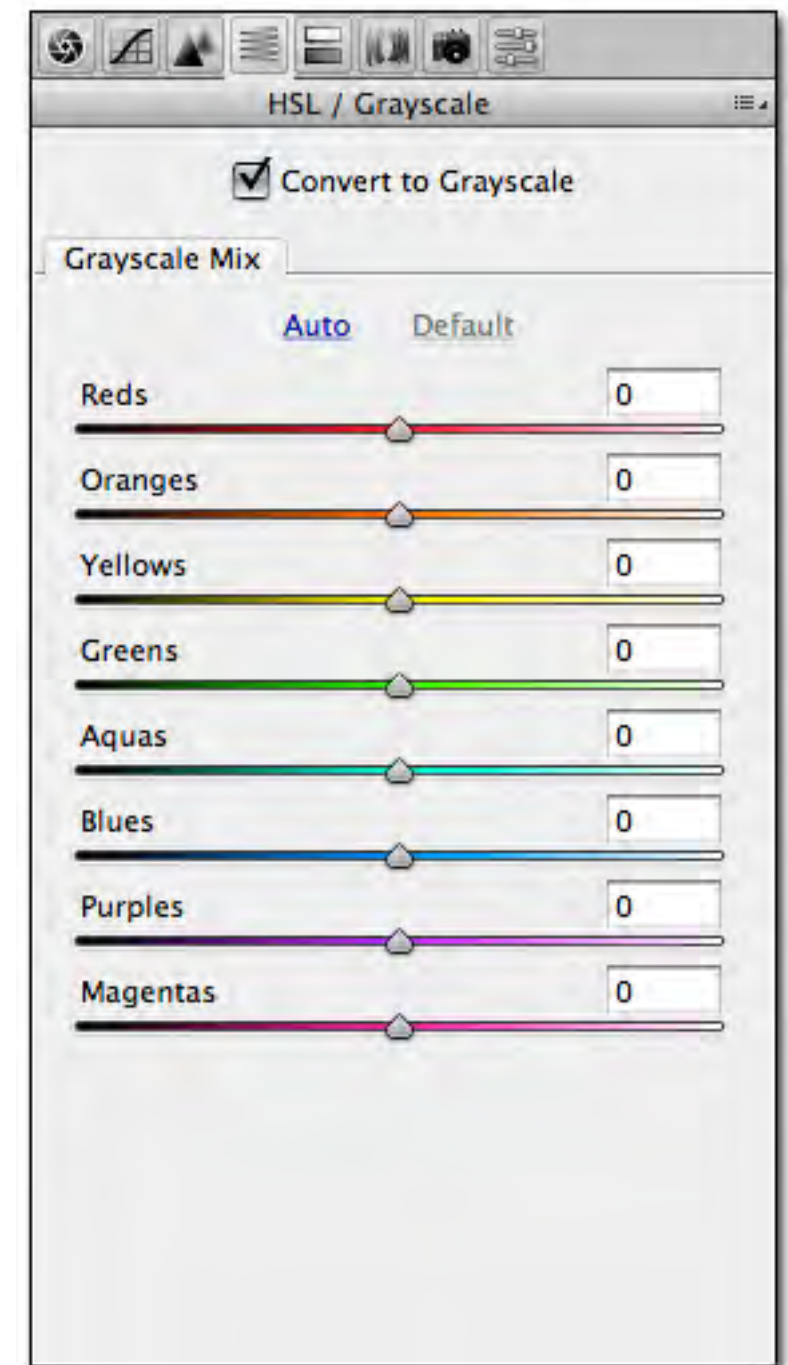
Camera Raw Panels



Detail

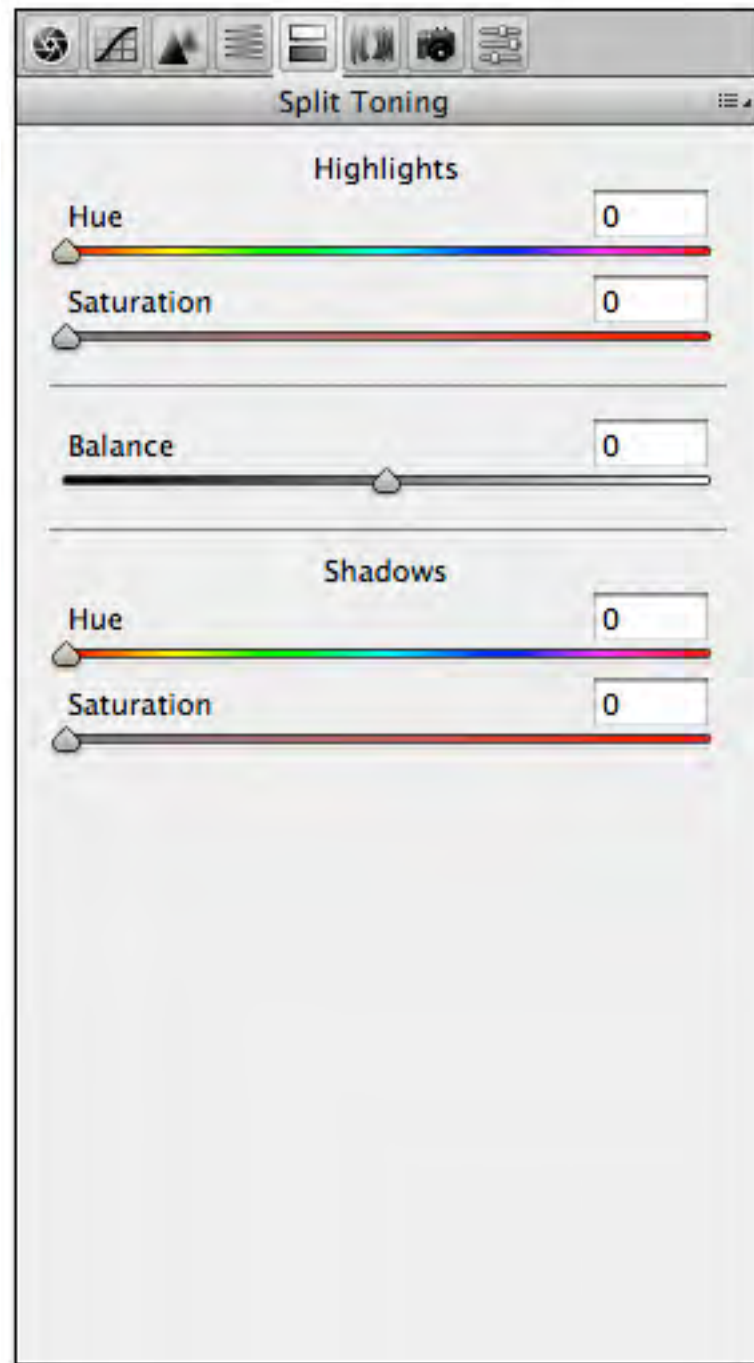


**HSL/Grayscale
Color**

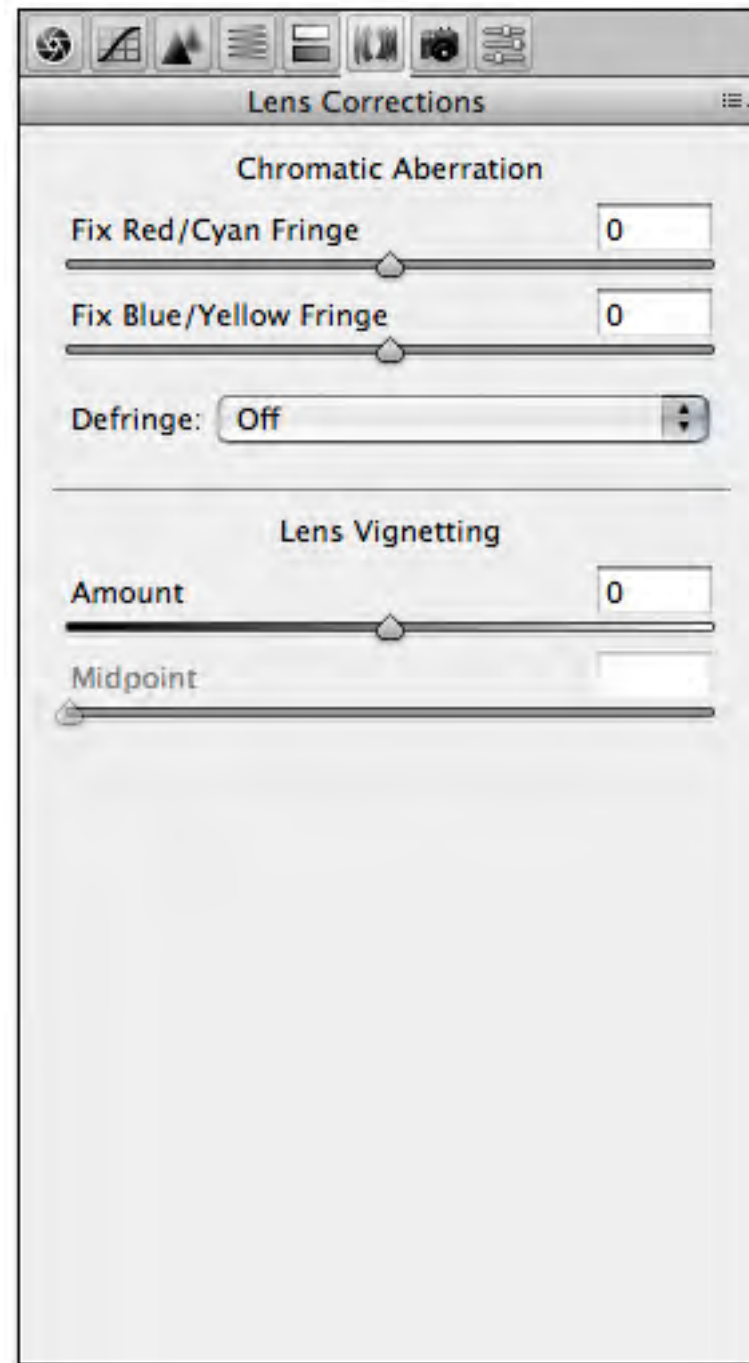


**HSL/Grayscale
B&W**

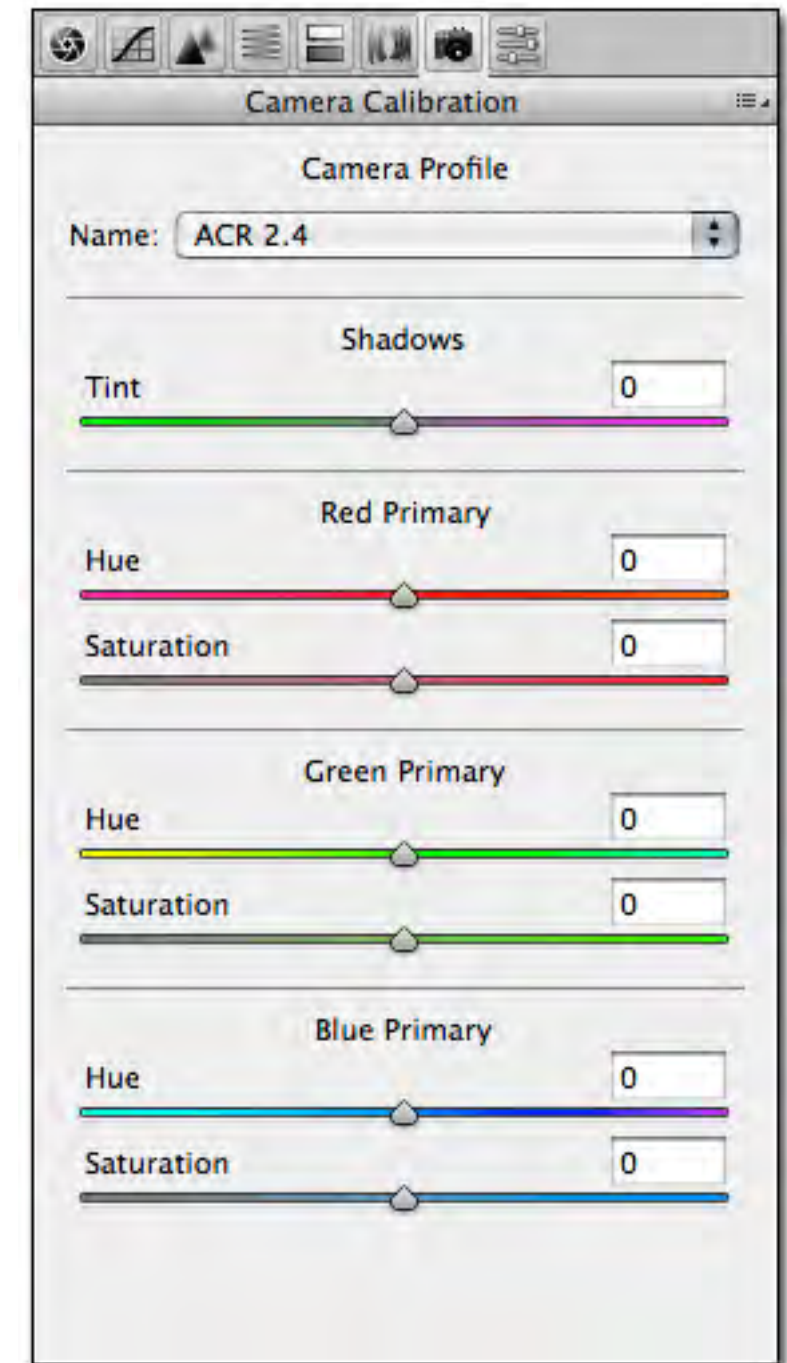
Camera Raw Panels



**Split
Toning**



**Lens
Corrections**

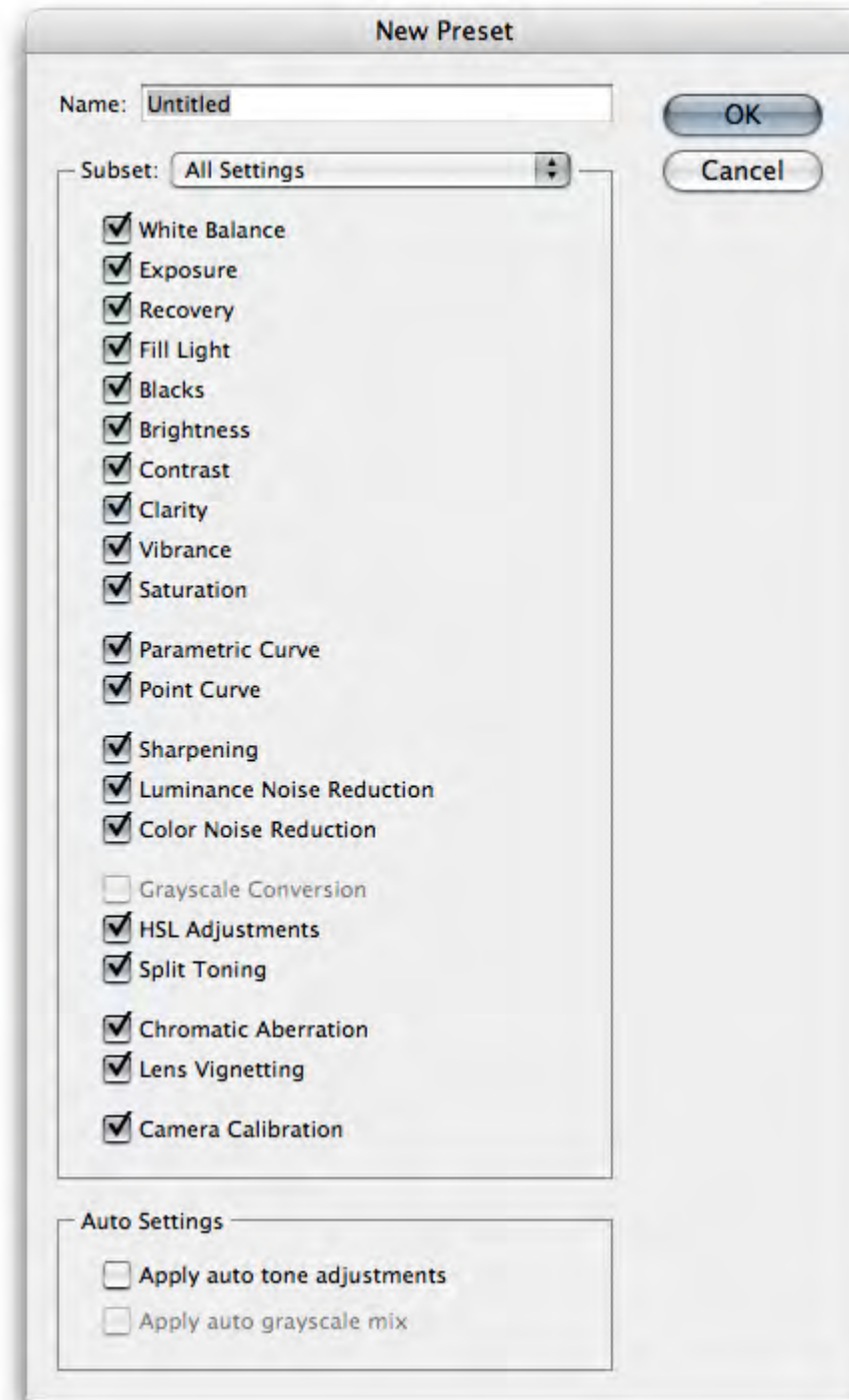


**Camera
Calibration**

Camera Raw Panels



Presets



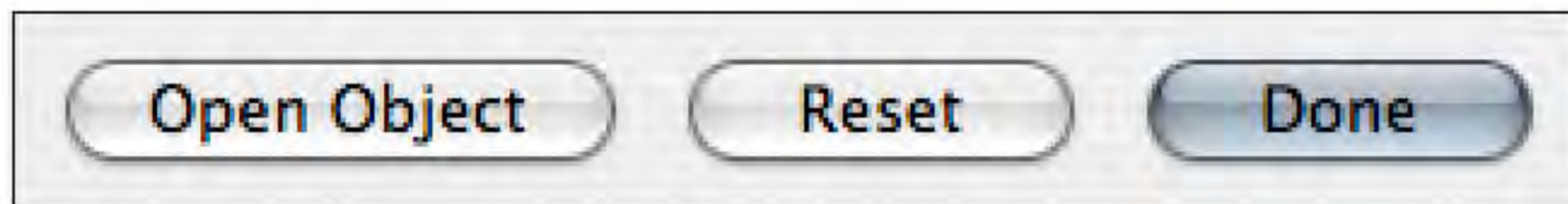
**New Presets
Dialog**

Camera Raw Buttons

Camera Raw Hosted By Bridge



Option (Alt)



Smart Object

Camera Raw Buttons

Camera Raw Hosted By Photoshop

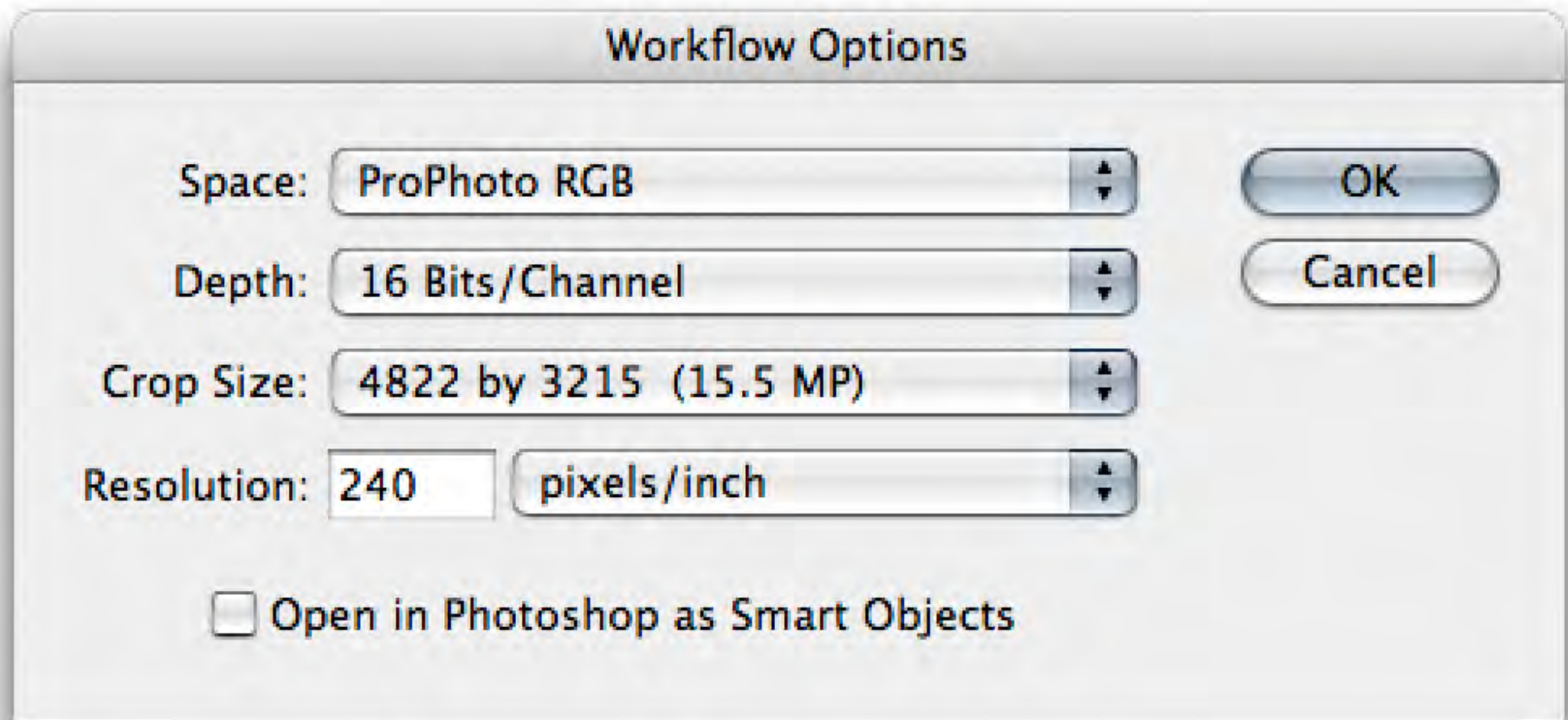


Option (Alt)



Smart Object

Camera Raw Workflow Options

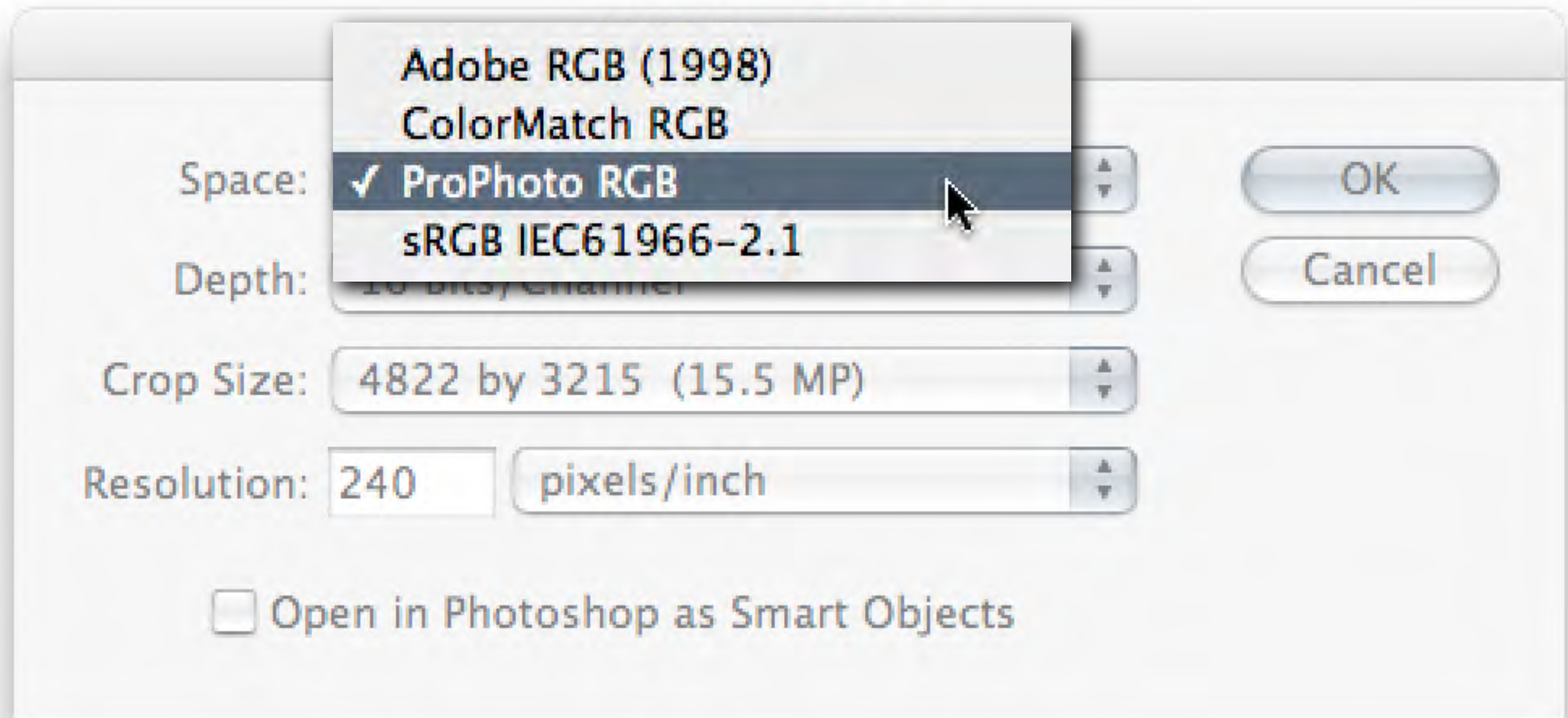


The image shows a 'Workflow Options' dialog box from Adobe Camera Raw. It features four rows of settings, each with a label and a control element. The first three rows have dropdown menus, while the fourth has a text input and a dropdown. On the right side, there are 'OK' and 'Cancel' buttons. At the bottom, there is an unchecked checkbox with a label.

Setting	Value
Space:	ProPhoto RGB
Depth:	16 Bits/Channel
Crop Size:	4822 by 3215 (15.5 MP)
Resolution:	240 pixels/inch

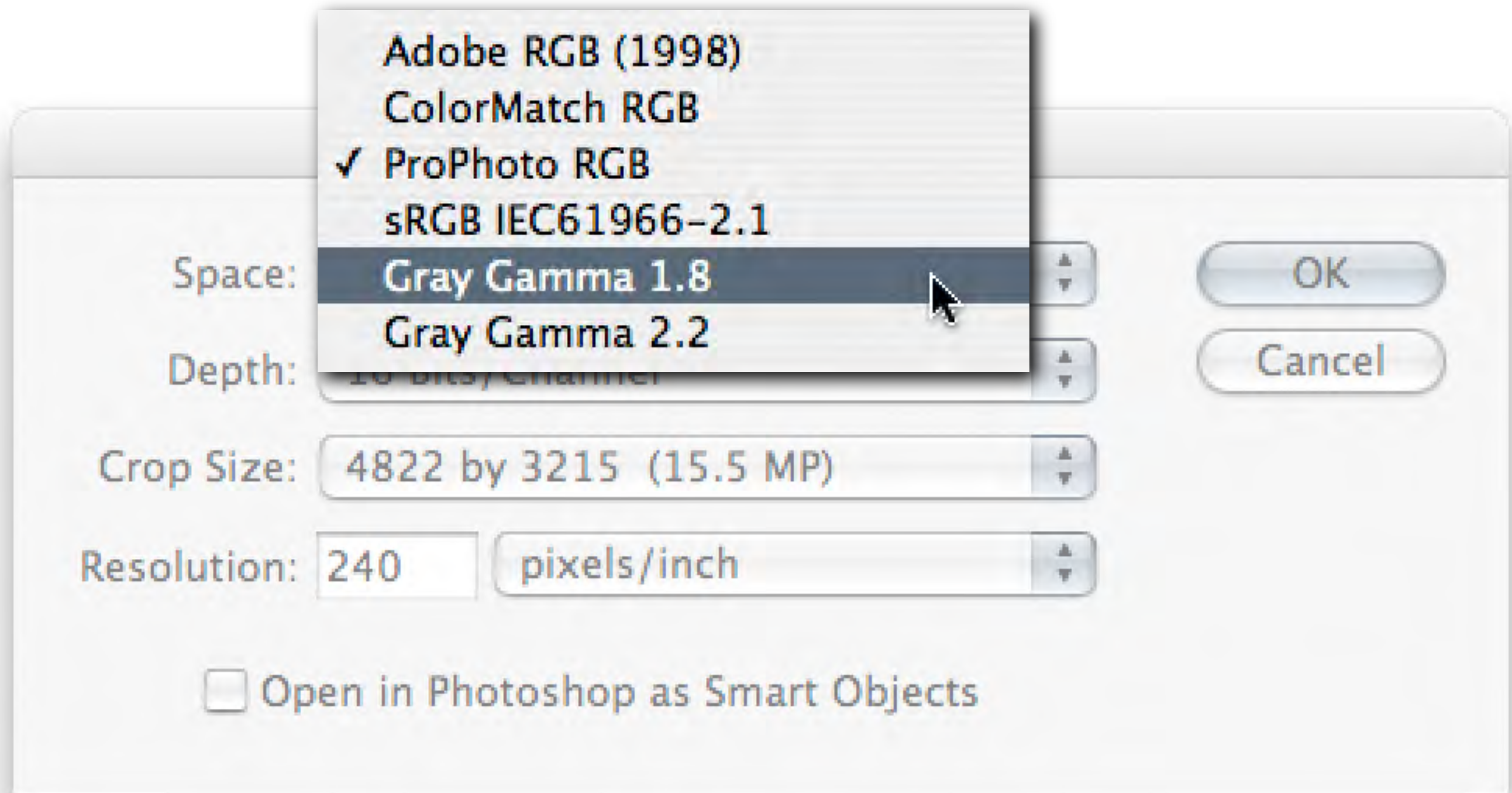
☐ Open in Photoshop as Smart Objects

Camera Raw Workflow Options



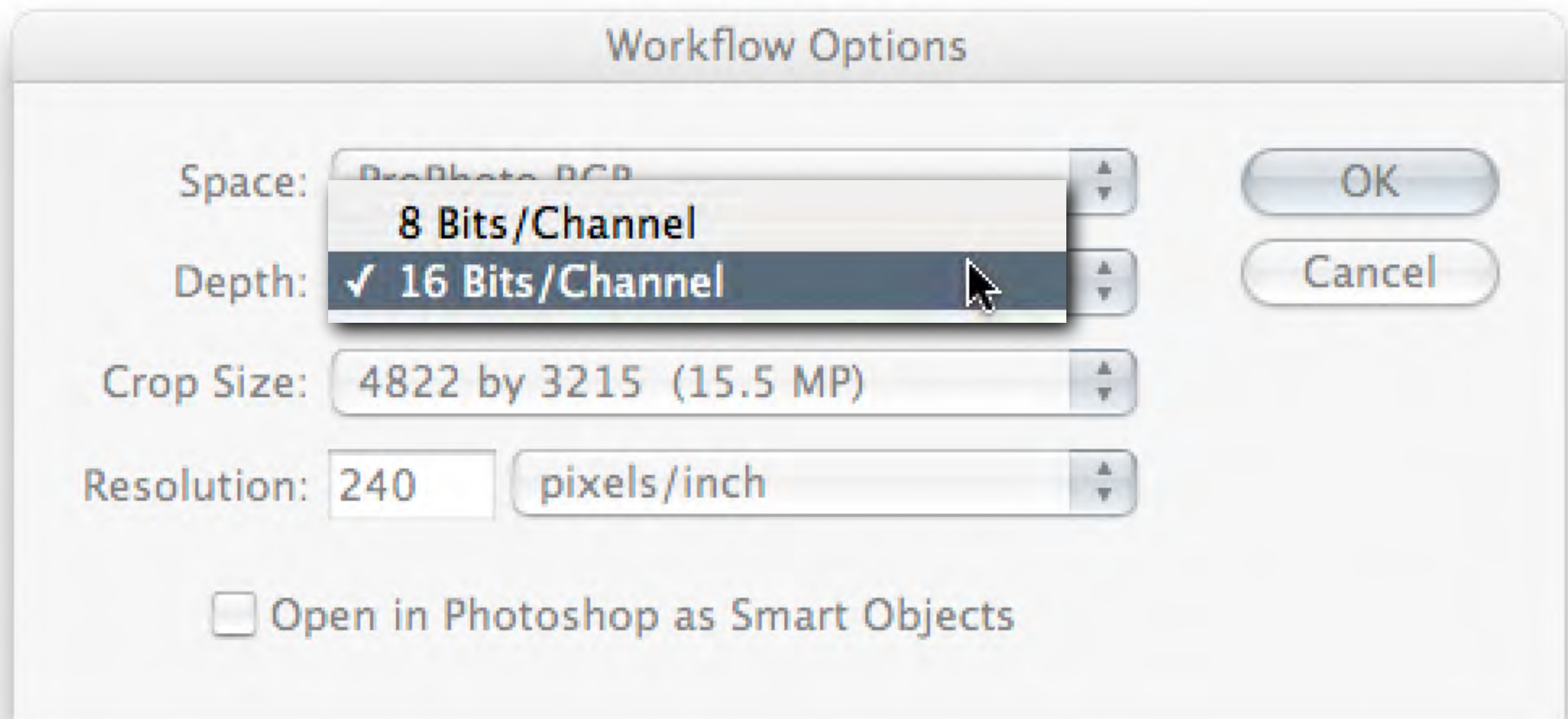
Color Space

Camera Raw Workflow Options



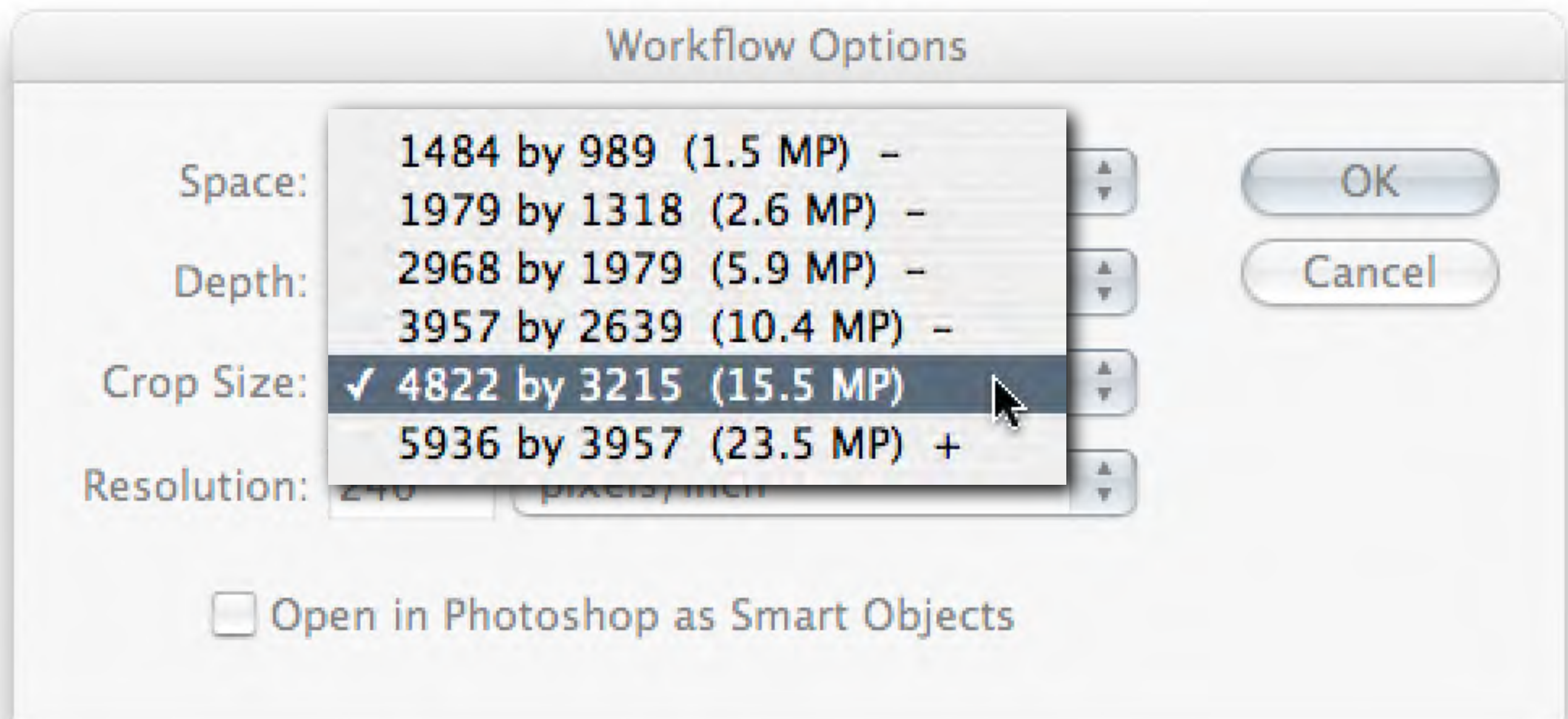
Color Space with Grayscale

Camera Raw Workflow Options



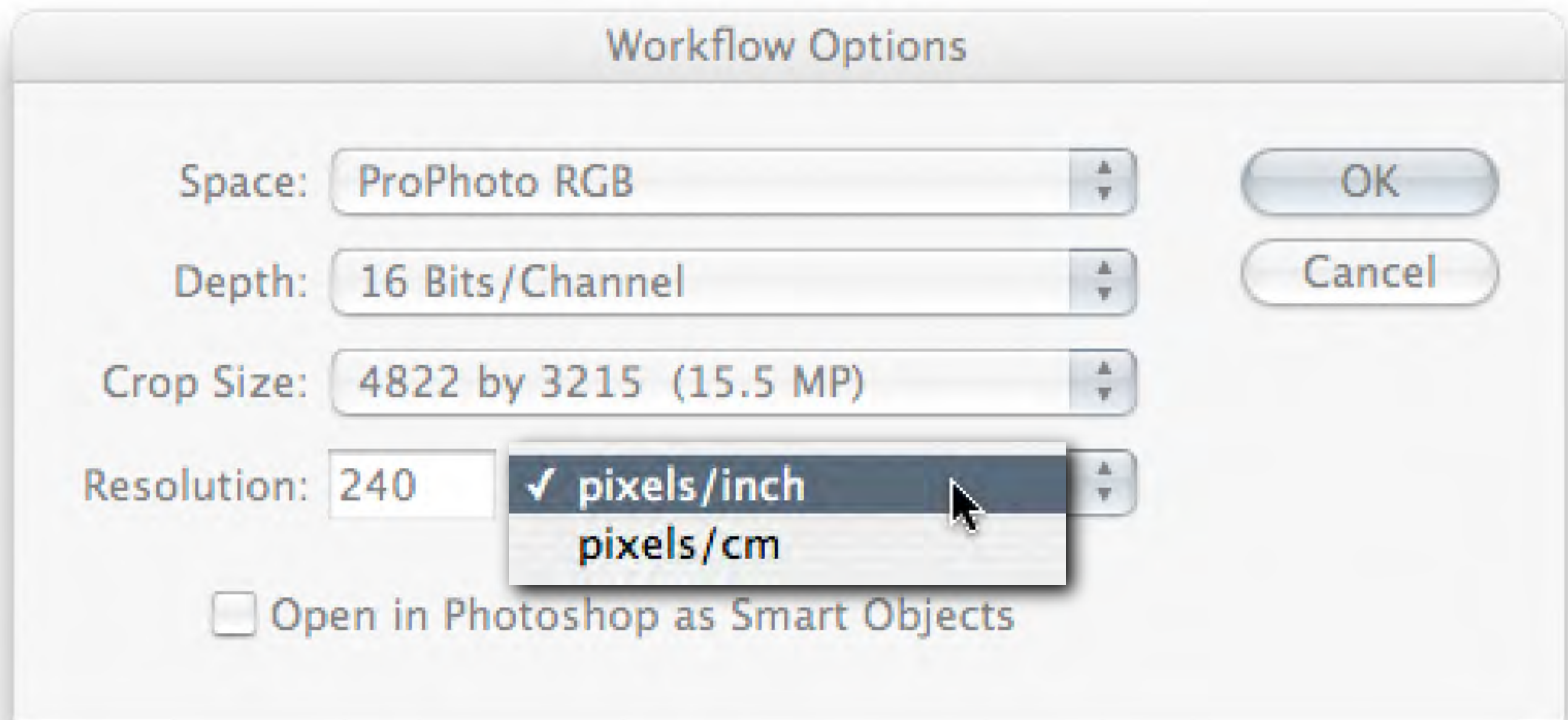
Bit Depth

Camera Raw Workflow Options



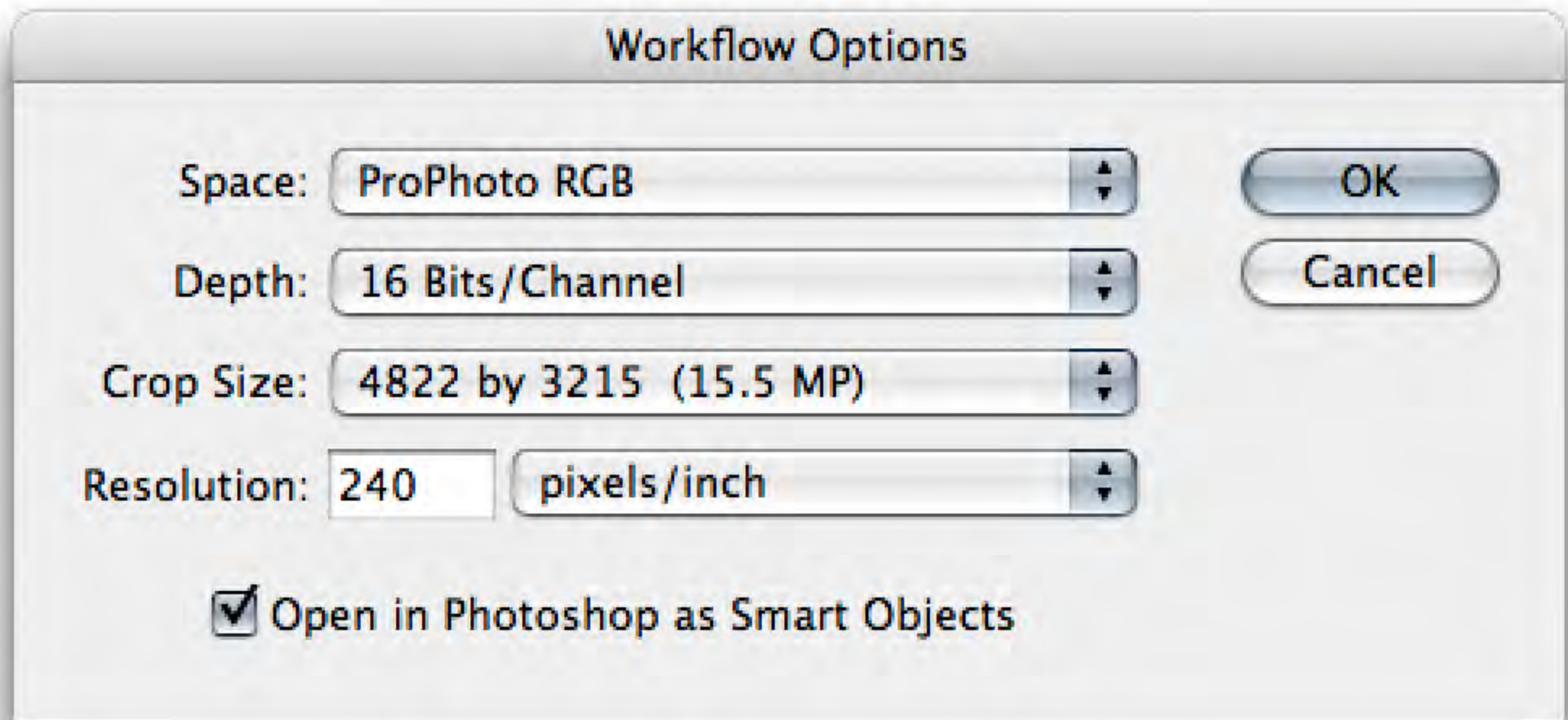
Crop Size

Camera Raw Workflow Options



Units

Camera Raw Workflow Options



The image shows a 'Workflow Options' dialog box from Adobe Camera Raw. It has a title bar with the text 'Workflow Options'. Inside, there are four rows of settings, each with a label and a control element. The first row is 'Space:' followed by a dropdown menu showing 'ProPhoto RGB'. The second row is 'Depth:' followed by a dropdown menu showing '16 Bits/Channel'. The third row is 'Crop Size:' followed by a dropdown menu showing '4822 by 3215 (15.5 MP)'. The fourth row is 'Resolution:' followed by a text input field containing '240' and a dropdown menu showing 'pixels/inch'. To the right of these settings are two buttons: 'OK' and 'Cancel'. At the bottom of the dialog is a checkbox that is checked, followed by the text 'Open in Photoshop as Smart Objects'.

Workflow Options

Space: ProPhoto RGB

Depth: 16 Bits/Channel

Crop Size: 4822 by 3215 (15.5 MP)

Resolution: 240 pixels/inch

☒ Open in Photoshop as Smart Objects

OK

Cancel

Open as Smart Object

Camera Raw Save

Save Options

Destination: Save in New Location

Select Folder...

/Volumes/MAIN-RAID/CR-Processed/

Save

Cancel

File Naming

Example: IMG_5241.dng

Document Name

+

+

Begin Numbering:

File Extension:

.dng

Format: Digital Negative

☒ Compressed (lossless)

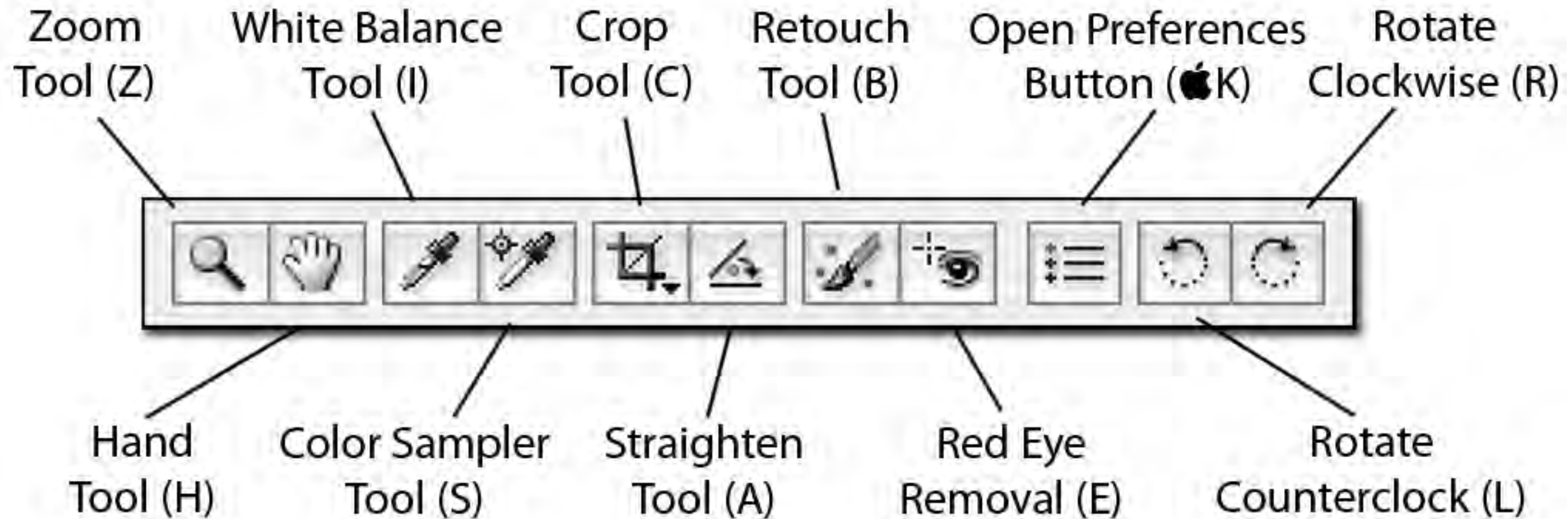
JPEG Preview:

Medium Size

☐ Convert to Linear Image

☐ Embed Original Raw File

Camera Raw Toolbar



Camera Raw Preferences

Camera Raw Preferences (Version 4.1)

General

Save image settings in: Sidecar ".xmp" files

Apply sharpening to: All images

OK

Cancel

Default Image Settings

- ☐ Apply auto tone adjustments
- ☒ Apply auto grayscale mix when converting to grayscale
- ☐ Make defaults specific to camera serial number
- ☐ Make defaults specific to camera ISO setting

Camera Raw Cache

Maximum Size: 1.0 GB

Purge Cache

Select Location... /Users/schewe/Library/Caches/Adobe Camera Raw/

DNG File Handling

- ☐ Ignore sidecar ".xmp" files
- ☐ Update embedded JPEG previews: Medium Size

JPEG and TIFF Handling

- ☒ Always open JPEG files with settings using Camera Raw
- ☒ Always open TIFF files with settings using Camera Raw

Camera Raw Preferences

General

General

Save image settings in: Sidecar ".xmp" files

Apply sharpening to: All images

Camera Raw Preferences

General

General

Save image settings in:

Camera Raw database
✓ Sidecar ".xmp" files



Apply sharpening to:

All images



Camera Raw Preferences

General

General

Save image settings in: Sidecar ".xmp" files

Apply sharpening to: ☒ All images
☐ Preview images only

Camera Raw Preferences

Default Image Settings

Default Image Settings

- ☐ Apply auto tone adjustments
- ☒ Apply auto grayscale mix when converting to grayscale
- ☐ Make defaults specific to camera serial number
- ☐ Make defaults specific to camera ISO setting

Camera Raw Preferences

Default Image Settings

Default Image Settings

- ☐ Apply auto tone adjustments
- ☒ Apply auto grayscale mix when converting to grayscale
- ☒ Make defaults specific to camera serial number
- ☐ Make defaults specific to camera ISO setting

Camera Raw Preferences

Default Image Settings

Default Image Settings

- ☐ Apply auto tone adjustments
- ☒ Apply auto grayscale mix when converting to grayscale
- ☒ Make defaults specific to camera serial number
- ☒ Make defaults specific to camera ISO setting

Camera Raw Preferences

Camera Raw Cache

Camera Raw Cache

Maximum Size: GB

Purge Cache

Select Location...

/Users/schewe/Library/Caches/Adobe Camera Raw/

Camera Raw Preferences

DNG File Handling

DNG File Handling

☐ Ignore sidecar ".xmp" files

☐ Update embedded JPEG previews: Medium Size

Camera Raw Preferences

DNG File Handling

DNG File Handling

☒ Ignore sidecar ".xmp" files

☐ Update embedded JPEG previews: Medium Size

Camera Raw Preferences

DNG File Handling

DNG File Handling

☒ Ignore sidecar ".xmp" files

☒ Update embedded JPEG previews: ✓ Medium Size
Full Size

Camera Raw Preferences

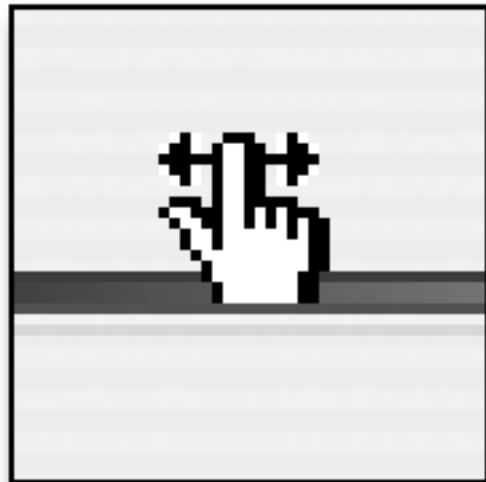
JPEG and TIFF Handling

JPEG and TIFF Handling

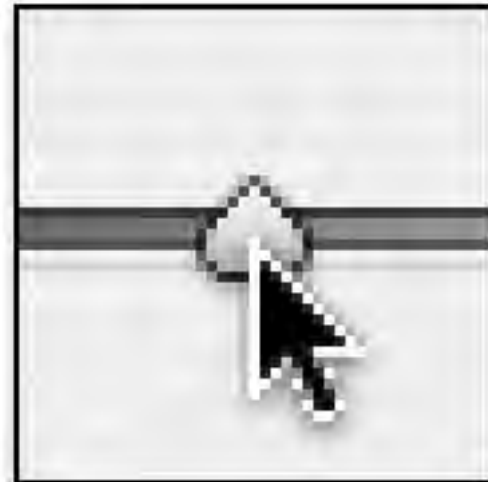
- ☒ Always open JPEG files with settings using Camera Raw
- ☒ Always open TIFF files with settings using Camera Raw

Camera Raw

Did You Know?



**Scrubby
Sliders**



**Double-Click
Reset**

Camera Raw

Did You Know?



**Working
Indicator**

Camera Raw

Did You Know?

Live Shadow
Clipping Preview
(showing in blue)

Live Highlight
Clipping Preview
(showing in red)



Highlight/Shadow Clipping Indicators

Camera Raw

Did You Know?

Camera Raw's Maximum Pixel Size

Camera Raw Did You Know?

Camera Raw's Maximum Pixel Size

10,000 pixels

9,999 x 9,999

Camera Raw Did You Know?

Camera Raw Home Page

www.adobe.com/products/photoshop/cameraraw

Camera Raw is Updated 3-4 Times/Year

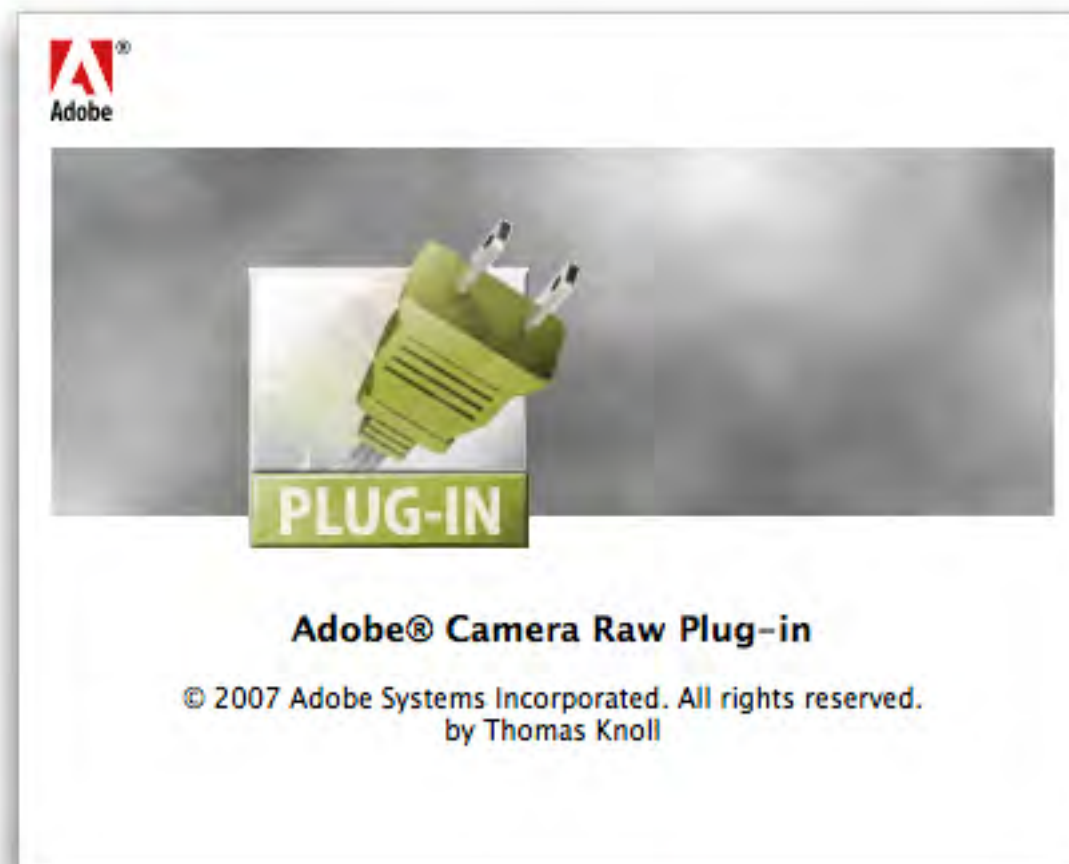
Camera Raw Did You Know?

Camera Raw User to User Forum

Visited by Thomas Knoll

(and Jeff Schewe)

Adobe Photoshop



Camera Raw

By Bruce Fraser & Jeff Schewe