LIGHTROOM TRANSFORMATIONS

Realizing your vision with Adobe Lightroom plus Photoshop

MARTIN EVENING



LIGHTROOM TRANSFORMATIONS

REALIZING YOUR VISION WITH LIGHTROOM-PLUS PHOTOSHOP

MARTIN EVENING



Lightroom Transformations:

Realizing your vision with Adobe Lightroom—plus Photoshop Martin Evening

New Riders www.newriders.com

To report errors, please send a note to errata@peachpit.com New Riders is an imprint of Peachpit, a division of Pearson Education.

Copyright © 2016 by Martin Evening

Acquisitions Editor: Valerie Witte Developmental and Copy Editor: Peggy Nauts Production Editor: Tracey Croom Proofreader: Patricia J. Pane Composition: Martin Evening Indexer: James Minkin Cover Design: Mimi Heft Interior Design: Mimi Heft Cover Image: Martin Evening

Notice of Rights

All rights reserved. No part of this book may be reproduced or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher. For information on getting permission for reprints and excerpts, contact permissions@peachpit.com.

Notice of Liability

The information in this book is distributed on an "As Is" basis, without warranty. While every precaution has been taken in the preparation of the book, neither the author nor Peachpit shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the instructions contained in this book or by the computer software and hardware products described in it.

Trademarks

Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in this book, and Peachpit was aware of a trademark claim, the designations appear as requested by the owner of the trademark. All other product names and services identified throughout this book are used in editorial fashion only and for the benefit of such companies with no intention of infringement of the trademark. No such use, or the use of any trade name, is intended to convey endorsement or other affiliation with this book.

ISBN-13: 9780134398280 ISBN-10: 0134398289

9 8 7 6 5 4 3 2 1 Printed and bound in the United States of America

INTRODUCTION

My first encounter with digital imaging was in the late '80s, when I had one of my photographs retouched by a Quantel Paintbox system operator. I was instantly hooked. A few years later, with the arrival of Photoshop, it became possible to retouch photographs on a home computer, and I remember telling my partner at the time that I really needed to get my own Photoshop system. "And what exactly do you need this Photoshop thing for?" she asked. It was a good question. Why exactly did I need Photoshop? Very few photographers I knew of were using it. None of my clients were requesting digital image manipulation. Occasionally on advertising jobs, photographs were retouched digitally, but this was always carried out by an agency-sourced operator and never the photographers themselves.

Even so, after a few years I had saved up enough money to acquire my first image-editing workstation running Photoshop. Once I had gotten over the usual excitement of swapping heads and skies and playing with the special effects filters, I settled down to a serious study of how to use Photoshop, and later Lightroom, as a digital darkroom tool. These days, you'd be hard put to find a professional photographer who never uses image-editing software. The type of Photoshop and Lightroom editing work I do now with my own photographs leans more toward an understated style of retouching, and it is not obvious that the photographs have been manipulated. For me, it is more about knowing how to configure the camera settings to capture the best possible raw file and then understanding how to best use the tools in Lightroom and Photoshop to perfect the image. In this book I share these skills and show how you can unleash the full potential of your photographs.

ACKNOWLEDGMENTS

I would like to thank my acquisitions editor, Valerie Witte, who did a fabulous job guiding me through this project from the early planning to the final proof stages. Many thanks to my developmental and copy editor, Peggy Nauts; proofreader, Patricia J. Pane; and project editor, Tracey Croom, who all helped me look good. And thank you also to Mimi Heft for the design work and to James Minkin, who did the indexing.

I am grateful to the following photographers, who allowed me to use their photographs in the book: Ansell Cizic, Angela Di Martino, Chris Ducker, Chris Evans, Richard Eyers, Guy Pilkington, Eric Richmond, and Farid Sani. And I also wish to thank key members of the Lightroom team: Joshua Bury, Kelly Castro, Eric Chan, Tom Hogarty, Thomas Knoll, Max Wendt, Simon Chen, Julie Kmoch, Julieanne Kost, Sharad Mangalick, Becky Sowada, Jeff Tranberry, Benjamin Warde, and Ben Zibble.

Lastly, I would like to thank my wife, Camilla, and daughter, Angelica, for their patience while I was busy researching and writing this book.

DOWNLOADING BONUS MATERIALS

To accompany the book, I have produced a number of tutorial videos that will allow you to follow the steps used to transform the images featured in this book.

To access and download the bonus content:

1. Visit peachpit.com/register.

 Log in with your Peachpit account, or if you don't have one, create an account.

3. Register using the book's ISBN, 9780134398280. This title will then appear in the Registered Products area of your account, and you can click the Access Bonus Content link to be taken to the page where you can view the videos.









CONTENTS

LIGH	TROOM TRANSFORMATIONS	I
	INTRODUCTION	
	ACKNOWLEDGMENTS	111

1 WHAT MAKES A GOOD PHOTOGRAPH?.....1

WHAT ARE YOU TRYING TO SAY?1
ESSENTIAL STEPS FOR OPTIMUM QUALITY
FRAMING THE IMAGE 3
The key areas of interest need to be clearly visible \ldots . 3
Lead the eye into the frame
Look for shapes within the frame
Lighting
Perspective5
Break the rules7
IMAGE SELECTIONS AND RATING7
Finding a fresh perspective7
WHAT'S THE STORY?

LIGHTROOM RAW PROCESSING	40
CALIBRATION SETTINGS	40
BASIC PANEL ADJUSTMENTS	41
APPLYING CAMERA PROFILES	42
SECONDARY DEVELOP MODULE ADJUSTMENTS	44
EXPORTING FROM LIGHTROOM TO PHOTOSHOP	44
PHOTOSHOP IMAGE EDITING	46
Adjustment layers	47
Continued editing in Lightroom	49
COLOR MANAGEMENT	50
Color profile calibration	52
Comparing different color spaces	53
PRINT OUTPUT	55
Soft proof checking	56
PRINT MODULE SETTINGS	57
Page Setup and Print Settings (Macintosh)	58
Page Setup and Print Settings (PC)	59
Final Print system Print dialog settings (Mac & PC)	60
Saving the print settings as a preset	61
ARCHIVING YOUR WORK	61
WHERE ARE YOUR FILES ARCHIVED?	62
STORAGE	62
FILE FORMATS	63
DNG format	63

3 TONE AND COLOR CORRECTIONS 65

TONE	RANGE	65
	LEVELS/EXPOSURE ADJUSTMENTS	66
	LIGHTROOM BASIC PANEL ADJUSTMENTS	68
	EXPOSURE	68
	Lightening an underexposed image.	69
	Photoshop Curves versus Lightroom Shadows adjustments	72
	CONTRAST	74
	HIGHLIGHTS AND SHADOWS	75
	WHITES AND BLACKS	75
	How to deliberately lose highlight detail	76
	AUTO TONE ADJUSTMENTS	.81
	Individual Auto Tone adjustments	.81
	HARD-CLIPPING THE SHADOWS	82
	SETTING THE WHITES AND BLACKS IN A HIGH-KEY IMAGE	86
	CLARITY ADJUSTMENTS	89
	Negative Clarity adjustments	89
	Adding Clarity to bring out fine detail	90









TONE CURVE ADJUSTMENTS	93
Point Curve mode	93
BASIC PANEL AND TONE CURVE ADJUSTMENTS	94
Tone range split point refinements	97
REDUCING HAZE	98
Localized haze reduction	101
COLOR ADJUSTMENTS	102
WHITE BALANCING	102
	102
APPLYING A CUSTOM WHITE BALANCE ADJUSTMENT \dots	103
RGB CURVES1	104
BOOSTING THE COLOR SATURATION	105
HSL/COLOR/B&W PANEL 1	108
Modifying the color using HSL adjustments	109

4 DODGING AND BURNING111

WHY WE NEED TO MANIPULATE OUR IMAGES
HOW YOUR CAMERA SEES113
LOCALIZED ADJUSTMENTS
Basic dodging and burning114
Refining filter adjustments
Editing skies with the Graduated Filter
Brush editing the mask118
Brush editing a Graduated Filter adjustment
Adjustment brush settings
Combining multiple localized adjustments
ADDING AN EFFECTS PANEL VIGNETTE
Post-Crop Vignetting options
PHOTOSHOP ADJUSTMENTS
ADDING MASKED CURVES ADJUSTMENTS
Adding masked adjustment layers
ADDING OVERLAY LAYERS
Using overlay layers to apply local adjustments135

FRAMING THE IMAGE	137
CROPPING	137
The Lightroom Crop Overlay tool	140
ANGLE OF VIEW	140
CONTENT-AWARE SCALE ADJUSTMENTS	140
Compressing the elements together	141
Content-Aware Scale controls	145









Extending the canvas area 146
UPRIGHT ADJUSTMENTS 150
The Upright options 150
Refining an adjustment
Applying an Upright adjustment
THE ADAPTIVE WIDE ANGLE FILTER 154
Removing elliptical distortion
Adaptive Wide Angle filter controls
Photo merge corrections158
Correcting the perspective in a Photo Merge panorama 159

6 BLENDING MULTIPLE IMAGES163

MERGING PHOTOS	163
STACK MODE PROCESSING	164
CREATING HDR IMAGES	170
HDR shooting tips	170
Creating an HDR Photo Merge in Lightroom	171
CREATING A PANORAMA PHOTO MERGE	
Projection options	
PHOTOSHOP PHOTOMERGES	
An extreme wide-angle Photomerge	
BLENDING MULTIPLE FLASH EXPOSURES	184
REMOVING STREET FURNITURE	186
LAYER BLEND MODES	190
Merging fireworks photos	190
FOCUS STACKING	195

FROM COLOR TO MONO	199
THE HSL/COLOR/B&W PANEL	200
ENHANCED BLACK-AND-WHITE EFFECTS	
Camera Calibration panel	
DESATURATED HSL ADJUSTMENTS	208
ADDING BORDER OVERLAYS	
Creating a vintage black-and-white look	213
BLACK-AND-WHITE PRINT OUTPUT	218
Output tone range	218
Optimum quality and print longevity	218







255 Car



RETOUCHING	221
PAINTING BY NUMBERS	
SPOT REMOVAL TOOL	222
Complex Spot Removal retouching	223
Visualize Spots	228
Syncing Spot Removal settings	228
Removing dust spots from multiple images	229
RED EYE CORRECTIONS	233
Pet Eye mode	233
	235
HAND-COLORING PHOTOGRAPHS	239
SELECTIVE BLURRING	244

INDEX	 																	24	48

4 dodging and burning

AND WHY WHAT YOU SEE IS NOT ALWAYS WHAT YOU GET

WHY WE NEED TO MANIPULATE OUR IMAGES

There is nothing new about image manipulation. Photographers have been doing this in the darkroom long before technology gave us the tools to process our photographs digitally. If you study the work of well-known photographers, such as Sebastião Salgado and Josef Koudelka, you will discover just how much dodging and burning was done at the darkroom stage to create some of their most iconic images. Some photographers still regard this as cheating. Perhaps they assume the camera faithfully records everything they saw at the time the picture was taken. However, if you consider how our eyes actually perceive the world, you'll realize this isn't the case. Our eyes constantly adapt as we look at the things around us, and what we think we perceive as reality isn't. This is because of the brain's ability to interpret what our eyes see and build a picture in our mind where everything appears to be correctly lit. There are limits, of course. We all know how difficult it is to see in the dark and how you would be ill-advised to go looking for sunspots through a telescope. But in everyday situations, our brain does this amazing conjuring trick where it cons us into believing the lighting in a scene is evenly balanced, when in fact it might well not be. For instance, when you look at a large white wall, your brain will perceive this to be evenly white, whereas if you were to take a photograph of the wall the image you capture will reveal the slightest variations in illumination. This is why for studio photography it is important to use a light meter to help determine the evenness of your lighting, rather than rely on what you think you see with your eyes.

When you photograph outdoors, there can be as much as several stops between the exposure required to capture the sky and that needed to record the foreground. Again, our brain doesn't notice this—it compiles an idealized version of the scene in front of us, one the camera can't always hope to match unless you are able to compensate for this at the capture stage or in postprocessing. Landscape photographers typically place a neutral density graduated filter over the front of the lens to darken the sky relative to the land. That's one way you can approach the problem. Another is to use the Graduated Filter tool in Lightroom to add a darkening effect, like the example in **Figure 4.1**.



FIGURE 4.1 The top image shows a landscape photograph of Bryce Canyon, which I processed in Lightroom, where I adjusted the tones to produce the best optimized version for the foreground. The lower version shows the same image, where a Graduated Filter adjustment was added to darken the clouds. This version is probably closer in appearance to how the scene was perceived at the time.

	$\bullet \square \bigcirc$	0-
Mask :	New Edit	Brush
Effect :	Custom ÷	V
Temp	<u> </u>	0
Tint	·····	0
Exposure	<u></u>	- 1.30
Contrast		0
Highlights	<u> </u>	0
Shadows	<u> </u>	0
Whites	<u> </u>	0
Blacks	<u> </u>	0
Clarity	<u></u>	0
Dehaze	<u></u>	0
Saturation		0
Sharpness	<u> </u>	0
Noise	<u> </u>	0
Moiré	<u></u>	0
Defringe	<u> </u>	0
Color	X	
	Reset	Close

HOW YOUR CAMERA SEES

A digital camera records light values in a linear fashion, where the signal output of the sensor doubles for every EV stop increase in exposure. That is to say, as you open the lens aperture one stop, or double the exposure time, you increase the exposure by one stop and the sensor signal output is doubled. Typically, a sensor may be capable of capturing up to 4,000 levels of tone. When an image is captured and digitally converted (and gamma-corrected), around 2,000 levels will be used to describe the brightest stop value, 1,000 levels to record the next stop down in exposure, 500 the next, and so on. At the same time you have to bear in mind the optimum exposure setting is the point at which you can expose an image without clipping the highlights. As the light levels arriving at the sensor are increased, you reach the point where the photosites on the sensor become saturated with photons and are therefore unable to record additional photons. This determines the sensor's white clipping point.

The raw image recorded by the sensor will also look rather dark compared with the way we interpret light hitting our retinas. In order to make a digital capture look like a recognizable image, a gamma-correcting curve has to be applied to the raw data. This is essentially a midpoint lightening adjustment, which effectively stretches the shadow levels further apart and compresses the highlight levels closer together. Therefore, a correctly exposed digital capture image (whether it is converted by the camera processor to produce a JPEG or is a raw file converted in Lightroom) will appear similar to how we viewed a scene, but not quite the same, because of the difference in the way our brain compensates for varying levels of illumination in different areas of the scene. And, as a result of the gamma correction, most of the levels information will be compressed in the highlights, while fewer levels will be available to edit the shadow areas.

LOCALIZED ADJUSTMENTS

The Lightroom Develop module has three types of localized adjustment tools: Graduated Filter, Radial Filter, and the Adjustment brush. The localized adjustment sliders in Figure 4.1 are the same for each of these tools. They provide a wide range of options and are more or less direct equivalents of those found in the Basic panel. The exceptions are the Saturation slider, which is a hybrid of Vibrance and Saturation, and the Sharpness slider, which is effectively a Detail panel sharpening Amount slider, and similarly, the Noise slider, which is a Detail panel noise reduction Luminance slider. For darkening and lightening you can use the Exposure slider, but you can also use the localized adjustment tools to apply Tint adjustments, add more Clarity, or decrease Saturation. The possibilities are endless, although there are some particular combinations I find are good to use; I'll show you these later in this chapter. Let's dive in and look at how I was able to combine the use of the Radial Filter with the Graduated Filter to build up a series of localized edits to reshape the lighting in the following image example.

Basic dodging and burning





1 This is a photograph I took of my cousin, Marek, while visiting his studio, Marek Music, in Canada. I photographed him at work using just the available daylight.





2 I wanted the room to look darker and make it appear to be lit with tungsten lighting. To do this, I dragged the Temp slider to the right to set a warmer white balance and decreased the Exposure.





3 I then selected the Radial Filter tool, clicked on Marek's chest, and dragged outward. The Exposure slider was set to -1.38, which applied a feathered, darkening exposure adjustment to the area outside the Radial Filter ellipse.



4 With the Radial Filter still active, I clicked on the New button to add a second Radial Filter adjustment. Again, I clicked on Marek's chest, but this time defined a smaller ellipse. I dragged the Temp slider to the left so that the outside area would have a less warm color cast and set the Exposure to -0.55 to add some extra darkening.

		0-
Mask :	New Edit I	Brush
Effect : Temp Tint	Custom 5	▼ - 39 0
Exposure Contrast Highlights Shadows Whites Blacks		0.55 0 0 0 0 0
Clarity Dehaze Saturation		0 0 0
Sharpness Noise Moire Defringe		0 0 0
Color	X	
Feather	Invert Mask	75
	Reset	Close

		0-
Mask :	New Edit	Brush
Effect : Temp Tint	Custom = 	▼ 0 0
Exposure Contrast Highlights Shadows Whites Blacks		1.95 0 - 5 0 0
Clarity Dehaze Saturation		0 0 0
Sharpness Noise Moiré Defringe	······	0 0 0 0
Color	X	
	Reset	Close



5 Next, I selected the Graduated Filter adjustment, dragged from the right side of the image inward to the center, and set the Exposure amount to +1.95. This adjustment effectively canceled out the two Radial Filter adjustments for this portion of the image. Therefore, I was using the Graduated Filter here as an undo adjustment to restore the original luminance to this portion of the photograph.



 ${\bf 6}$ I liked how the image looked in color, but I also created the black-and-white version you can see here.

Refining filter adjustments

In the previous step-by-step, the Radial Filter adjustments were applied using the default settings for the Feather and mask. This meant that the filter adjustments were applied to the areas outside the Radial Filter area and the Feather amount was 75. You can fine-tune the Feather setting to create a harder or softer feather edge when applying Radial Filter adjustments. Clicking the Invert mask option applies the adjustment to inside the Radial Filter area, which is useful if you want to select a specific area to apply the adjustment to. Typically, you might want to use the Radial Filter in this way to add cumulative adjustments, such as a series of lightening or darkening effects, where applying these as multiple filters allows you to define an area more precisely. To edit a filter adjustment, make sure the filter is active and the edit pins are made visible. If you know you have applied a filter adjustment but can't see the pins, check the Show Edit Pins menu in the Toolbar, or press the 🖻 key to make them visible again. To move a filter adjustment, click the radio button in the middle and drag.

When working with the Graduated Filter tool, you can adjust the angle and width of a Graduated Filter effect by dragging on the overlay directly. To rotate, move the cursor along the central overlay line till you see a double-headed arrow cursor and click and drag. To adjust the width, click on either of the outer lines and click and drag to make the filter edge harder or softer. With Radial Filter adjustments, move the cursor outside the radius overlay and click and drag to rotate. Click and drag the handles directly to edit the shape of the Radial Filter overlay (see **Figure 4.2**).



FIGURE 4.2 The Filter overlay controls that are available when working with the Graduated and Radial Filters.

	$\cdot \circ \Box \circ$	0-
Mask :	New Edit (Brush
Effect : Temp Tint	Custom ©	• •
Exposure Contrast Highlights Shadows Whites Blacks		- 0.90 0 50 0 100 0
Clarity Dehaze Saturation		50 0 0
Sharpness Noise Moiré Defringe		0 0 0
Color	X	
Brush : Size Feather Flow Density	A B Erase	15.0 100 100 100
	Reset	Close

FIGURE 4.3 The Graduated Filter options in Brush edit mode with the brush options at the bottom. Brush A is currently selected.

TIP

You can hold down the <u>Alt</u> key when painting in Brush mode to temporarily switch to the Erase mode and vice versa.

Editing skies with the Graduated Filter

Figure 4.1 showed how to darken a sky by adding a negative Exposure Graduated Filter adjustment. This can work well in a lot of situations and is similar to placing a neutral density filter over the lens at the time of shooting. But there are other sliders to play with that can do more than just darken. You can use the Temp slider to make a sky appear warmer or cooler and use the Contrast slider to add more contrast. Subtle effects can be achieved using different combinations of Exposure, Highlights, Whites, and Clarity adjustments. For example, the Highlights slider can be used to make the cloud highlight detail darker or lighter. It all depends on the image and the brightness of the clouds in the scene, but a move either way can make the clouds stand out more. With the Whites slider, I find a positive Whites adjustment can be effective if you need to add more contrast to the highlight areas, especially if you mix an Exposure darkening with a positive Whites adjustment. The Clarity slider can be very helpful for adding more contrast to the midtone areas. With dark, cloudy skies that have lots of interesting cloud detail, you can increase Clarity to add more definition. I suggest you experiment with all these sliders to see which ones will help make the clouds stand out best. You can sometimes even add a Shadows adjustment into the mix.

Brush editing the mask

If you click the Brush button (circled in **Figure 4.3**), this switches you to the Brush edit mode, where it is possible to edit the mask for a Graduated or Radial Filter adjustment. Here, you have the option to configure separate Brush A and Brush B settings and paint on the image to define the areas you wish to add the filter effect to. Or, you can switch to the Erase mode to define the areas where you wish to remove the filter effect. The Size slider refers to the size of the brush, while the Feather slider determines how hard or soft the brush will be. The Flow slider can be used to control the rate at which the brushwork is applied. For instance, you can drag this to a low Flow setting and use multiple brushstrokes to build the brush opacity. The Density slider determines the maximum density that can be achieved when using a brush to edit the mask. If you are using a Wacom or similar tablet device, you can set Flow and Density to 100 and use pen pressure to determine the flow rate and density.

When the Auto Mask option is checked, where you first click records a sample color selection and uses this to limit the extent of the brushwork. In other words, if you click on, say, an area of blue sky, this creates something like a hidden magic wand selection of the blue sky area that constrains the extent of your brushwork. As you release the mouse and click again, this creates a new selection. It should be pointed out that the edges created as a result of using the Auto Mask mode can sometimes appear a little ragged. It is therefore best to carry out such brushwork at a 1:1 view so you can monitor it carefully.

Brush editing a Graduated Filter adjustment





1 This photograph of Stonehenge was captured in the late afternoon, with a lovely cloudy sky. This shows what the image looked like with the default Develop settings applied.





2 In the Basic panel, I adjusted the tone sliders to darken the Highlights slightly and adjusted the Whites and Blacks sliders to expand the tone range and add more contrast.I also set Clarity to +20 to add more midtone contrast.

	•			0-
Mask :			Edit	
Effect : Temp	Custom	-		•
Tint	<u></u>	<u></u>	<u> </u>	0
Exposure		111	<u> </u>	- 0.90
Contrast	<u> </u>	<u>ن</u>		0
Highlights	<u></u>		<u>ن</u> خز	50
Shadows		<u></u>		
Whites	<u></u>	1.1	0	100
Blacks		<u>سن</u>	<u> </u>	
Clarity	<u></u>	<u></u>	خخر	50
Dehaze	<u></u>		<u> </u>	
Saturation	<u> </u>	<u></u>	<u> </u>	
Sharpness	<u></u>	<u> </u>	<u></u>	
Noise	<u></u>	<u>⊖</u> ==		
Moiré	<u></u>	<u>ن</u>		0
Defringe			<u> </u>	
Color			\times	
		R		Close





3 I then selected the Graduated Filter tool and dragged from just above the horizon downward to barely below the base of the stones. I set the Exposure to -0.90 to darken the clouds. At the same time, I increased the Highlights and Whites settings to add more highlight contrast. I also raised Clarity to add midtone contrast.



4 Having done that, I clicked to switch to Brush edit mode for the Graduated Filter and with Show Selected Mask Overlay checked in the Toolbar, used the Erase brush mode with Auto Mask enabled to remove the stones from the Graduated Filter mask.



5 This shows the final version, where, if you compare with Step 3, you can see how masking the stones using the Brush edit Erase mode for the Graduated Filter tool allowed the filter adjustment to be applied to the graduated areas only, except for the mask-defined outline of the stones. If you compare the stone lintels in this version and the previous one, you will notice there is no darkening in these areas. It is worth mentioning here that when you brush-edit a Graduated or Radial Filter adjustment, the Brush edit mask remains independent of the filter adjustment. Therefore, with this image I could revisit the Graduated Filter and edit the range of the Graduated Filter adjustment independent of the Brush edit defined mask outline. The only other thing I did here was to go to the HSL/Color/B&W panel, where I lightened the grass and darkened the stones slightly.



	• •			
Mask :				Edit
Effect :	Custon			V
Temp	<u></u>	-0-	<u> </u>	0
Tint		0		0
Exposure	<u></u>	0		0.00
Contrast	<u> </u>	-0-		0
Highlights	-	0	<u> </u>	0
Shadows		-0-	1 A A	0
Whites		0	to the last	0
Blacks	-	0		0
Clarity	<u></u>			100
Dehaze	et	0		0
Saturation	<u></u>	0		0
Sharpness	1.6.4	0		0
Noise	-	0	<u> </u>	0
Moiré	-	0	<u></u>	0
Defringe	<u></u>	-0-	<u> </u>	0
Color			X	
Brush :	A E	3	Erase	V
Size	-0-			23.0
Feather	- 111 - 11		0	100
Flow			0	100
	Auto M	lask		
Density	-		-0	100
			Reset	Close

FIGURE 4.4 The Adjustment brush controls.

Adjustment brush settings

The Adjustment brush controls (**Figure 4.4**) are the same as those for the Graduated and Radial Filters, but with the addition of the brush controls at the bottom. These are identical to the brush controls for the Graduated and Radial Filter brush modes that I described earlier.

Basically, the Adjustment brush allows you to apply freeform brush edits, which can be defined by applying single or multiple brushstrokes. Where you first click with the Adjustment brush will add a pin overlay to the image, and as you carry on brushing you will add to the defined area linked to that pin marker. You can use the Size, Feather, and Flow sliders to control the brush cursor and brush behavior and use the Erase mode to erase your brushwork. If you have a Wacom tablet and stylus, you can use varying amounts of stylus pressure to control the opacity, which can give you a fine degree of control over your painting. Once you have added a brushstroke, you can adjust the sliders to achieve the desired adjustment setting. If you want to add a new set of brushstrokes with a different combination of settings, you will need to click the New button at the top to exit the current pin editing and click again to apply a new Adjustment brush pin. A quick tip here is to press the q or r key when applying a brush adjustment to exit from the Edit mode and switch to the New mode, so that when you next click on the preview you will add a new pin.

Each time you add a new pin, this effectively adds a mask that records the brush edit information. This does increase the file size of the metadata, but not by as much as you would think, because the mask data is compressed. A bigger problem is what happens when you add multiple Adjustment brush pins. The Lightroom processing required to render a preview is quite intense. This is because Lightroom has to calculate the main slider adjustments, plus, in addition, the mask-defined brush adjustments. Every time you add a brush adjustment, Lightroom has to continually update the Develop preview on the fly. As you add extra Adjustment brush pins, you are adding to the complexity and effectively multiplying the problem. It is therefore best to keep the number of pins to as few as possible. Once you add up to five pins or more, you may see a significant slowdown in the Lightroom Develop module performance. Elsewhere in the program, Lightroom does not have a problem managing images that contain complex brush edits. This is because the other Lightroom modules all reference cached preview files instead.

Combining multiple localized adjustments

The location in this photograph, which was shot by Chris Evans, is a fairly ordinary service corridor that was livened up by placing a direct flash head to the right and slightly above the head height of the subject and synchronizing this with a second head, placed farther down the corridor and facing directly toward the camera with a strong blue gel on it. This provided the strong backlighting and added a blue color to the background. The flash lighting was also balanced with the corridor lighting, allowing the ambient exposure to be bright enough to record these other lights. As you can imagine, a lot of steps were required to achieve the end result. Most of this was done through the use of dodging and burning to produce a more dramatic lighting effect.

In this tutorial, you will notice how a Clarity adjustment can be applied as an Adjustment brush setting to enhance the skin tone contrast in a portrait photograph. This technique first emerged when photographers began experimenting with Photomatix Pro to process single-exposure portrait images. They noticed how, by adding more midtone detail contrast, they could achieve gritty, textured portraits. The Clarity slider in Camera Raw and Lightroom can also be used to achieve this kind of look by applying the effect as a localized adjustment.





1 Here is the uncropped before version, which was captured using a Nikon D800 camera with a 24 mm wide-angle lens and is shown here with the default Develop settings in the Basic panel.





2 The first step was to go to the Lens Corrections panel and apply a Vertical Upright correction. I then selected the Crop Overlay tool, cropped to remove the fluorescent light that was directly above the man's head, and tightened the crop to remove the corridor corner that was visible on the left.



3 Next, I selected the Radial Filter tool and applied three lightening adjustments. I also added a Temp adjustment to the jacket to make it more blue and a Tint adjustment to the face to make it less magenta.

		0-
Mask :	New Edit	
Effect :	Custom ÷	
Tint		- 45
Exposure	<u></u>	0.95
Contrast		22
Highlights	<u></u>	- 70
Shadows	<u></u>	35
Whites		- 35
Blacks	<u> </u>	
Clarity	<u> </u>	0
Dehaze	<u> </u>	
Saturation	<u>, Q</u>	- 12
Sharpness	<u></u>	0
Noise	<u> </u>	0
Moiré		0
Defringe	<u></u>	0
Color	X	
Feather		50
⊻	Invert Mask	
	Reset	Close





4 I then selected the Graduated Filter tool and applied the three adjustments shown here. One was used to darken the top, another to darken the left, and another to darken the right, using a -1.35 Exposure adjustment.



5 In this step, I selected the Adjustment brush, where I applied a darkening adjustment to the ceiling and a darkening adjustment to the corridor, with a blue Temp setting, and made a third adjustment to the face and body, where I applied a +100 Clarity adjustment.







6 Finally, I opened the raw image as a TIFF in Photoshop, where I added a few further edits. The light in the background had clipped highlights that resulted in some sharp banding. To correct this, I added a combination of local noise, blur, and localized Hue/Saturation to smooth out the edges. There was also a blue clip light hitting just above the bridge of the nose. To remove this, I added a new layer set to Color mode and sampled local colors and painted with the Brush tool.

ADDING AN EFFECTS PANEL VIGNETTE

The Post-Crop Vignetting options in the Effects panel (**Figure 4.5**) provide a really simple way to burn in the corners of the frame, according to how the image is cropped. On the face of it, adding a post-crop vignette will appear to undo a lens profile correction adjustment. The thing is, with some photographs the inherent lens vignetting is a distraction, and photographers will want their pictures to appear evenly exposed from the center to the corners of the frame, which is why it is a good thing to apply a lens profile correction. But sometimes it is more aesthetically pleasing for the vignetting to be left in. This is because the inclusion or addition of a vignette can help direct the eye to the center of the picture. I prefer to have the Enable Profile Corrections option checked in the Lens Corrections panel so that a geometric and vignetting correction is always applied and then choose to add postcrop vignetting effects where I feel it is necessary or useful to do so. It may not always be apparent that a post-crop vignette is required. What I find happens is that as you edit the tones in a photo to produce a version where the shadows in the main subject are filled in more, these tonal adjustments can leave the surrounding areas looking rather flat. Adding a darkening post-crop vignette can therefore add more depth to such images. If I think the tone editing is at the stage where a post-crop vignette will benefit the image, I will do so at the end. Figure 4.6 shows an example of where Post-Crop Vignetting was added to a photograph.



FIGURE 4.5 The Effects panel showing the Post-Crop Vignetting options.





FIGURE 4.6 On the left is an image with no post-crop vignette and on the right, the same photo using the Post-Crop Vignetting settings shown in the Effects panel.

•	Effec	ts 🗑
-	Post-Crop Vignetting	
Style	Highlight Priority	
Amount		0
Midpoint		
Roundness	_	
Feather		
Highlights	••••••	
1.000.000.00	Grain	
Amount	<u> </u>	
Size		
Roughness	·····	
	Dehaze	
Amount	<u> </u>	

-	Effects 🤍
	Post-Crop Vignetting
Style	Highlight Priority -
Amount	
Midpoint	39
Roundness	- 63
Feather	<u> </u>
Highlights	O
-	Grain
Amount	O
Size	50
Roughness	50
	Dehaze
Amount	<u> </u>

-	Eff	ects 🗑
	Post-Crop Vignetting	
Style	Highlight Priority	÷
Amount	<u> </u>	- 29
Midpoint	<u> </u>	39
Roundness	<u> </u>	- 63
Feather	<u> </u>	
Highlights	<u> </u>	100
	Grain	
Amount	<u></u>	
Size	<u></u>	50
Roughness	<u> </u>	50
	Dehaze	
Amount	<u> </u>	0



FIGURE 4.7 An example of a Highlight Priority post-crop vignette effect with and without a Highlights slider adjustment.

Post-Crop Vignetting options

In the Style menu you are best off ignoring the Paint Overlay option and choosing either the Highlight Priority or Color Priority options. Highlight Priority produces a more pronounced effect as it applies the post-crop vignette prior to the Exposure adjustment and provides better highlight recovery at the expense of producing unwanted color shifts in the highlight areas.

The wintry panorama in **Figure 4.7** was shot just outside Aspen, Colorado. The top image shows the before version without any Effects panel settings, while the middle image has a Highlight Priority post-crop vignette applied to it. With the bottom image, the Highlights slider was set to +100. If you look carefully at the edges, you will notice how this preserved more of the highlight detail. The image still has a vignette applied to it, but the effect is now less obvious in the highlights, and the edge darkening has become more concentrated in the shadow regions.

The Color Priority option produces a more gentle post-crop effect, which is applied after the Basic panel Exposure adjustment but before Tone Curve adjustments. This helps minimize color shifts in the darkened areas but won't apply any highlight recovery. I recommend you try the Highlight Priority option first, and if that looks too strong, choose the Color Priority method instead. With either of these methods, whenever you apply a negative setting, the Highlights slider will be active. This can be used to increase the contrast in the midtone to highlight tone areas (but not in the darker midtones). Basically, increasing Highlights counteracts the Post-Crop Vignetting effect in the brighter areas, such as the sky, but has less effect where the vignetting affects the darker areas of an image.

PHOTOSHOP ADJUSTMENTS

Lightroom localized adjustments are great because they are, in most instances, quick and easy to apply. That is, until you attempt to apply complex edits using the Adjustment brush. It is possible to use the Adjustment brush to do all sorts of things, like hand color a photograph, but as I pointed out earlier, if you make a complex selection or start adding multiple pins, Lightroom's performance soon slows down. The same is also true if you extensively use the Spot Removal tool in Lightroom. Where the benefits of using Lightroom become outweighed by the processing overhead, it is time to switch to Photoshop to carry out complex image-editing tasks. This is because Photoshop is quicker for brush painting and retouching work and makes for a more versatile and flexible workflow. It therefore helps to have a good understanding of Photoshop image adjustments and how to apply localized adjustments nondestructively.

ADDING MASKED CURVES ADJUSTMENTS

1 Here, you can see a photograph I edited in raw mode with the default Basic panel settings.

		Basic 🐨
Treatment :	Color Black	« & White
Jan Barris	WB: Custor	n ÷
Temp Tint		4,250 - 9
	Tone	Auto
Exposure	\	0.00
Contrast	<u> </u>	
Highlights	<u></u>	0
Shadows		0
Whites		
Blacks	<u> </u>	0
	Presence	
Clarity	<u> </u>	
Vibrance		
Saturation	<u> </u>	0

2 I optimized the image in Lightroom to achieve the desired contrast and then opened it in Photoshop, where I applied the Clone stamp and Spot healing brush tools to retouch the photo.









3 I used the Lasso tool to make a selection of the eyes. I then clicked on the Adjustment menu (circled in the Layers panel) and selected Curves. This added a Curves adjustment layer and automatically added a layer mask based on the Lasso selection. Here, I added the curve points shown below in the Properties panel to add more contrast and gently lighten the whites of the eyes (but not so much that it would make the eyes look as if they had been artificially lightened). I also placed this adjustment layer in a new layer group titled "Hair and eyes."





4 I added a second Curves adjustment layer and used the Alt Del keys to fill the Curves layer mask with black (where black was the default foreground color in the Tools panel). A black mask will hide any adjustment and white will reveal it. Making white now the foreground color and with the mask still active, I selected the Brush tool and painted over the hair. I went to the Properties panel and added a Curve point to lighten the curve and add more contrast to the shadows. I then reselected the Brush tool and fine-tuned the mask. I made the mask visible here by selecting it in the Channels panel.











5 This shows the final image where the Curves adjustment selectively added lightness and contrast to the hair. As the Curves adjustment blend mode was set to Normal, this contrast boost increased the saturation as well.



FIGURE 4.8 The Layers panel showing the adjustment layer options.

TIP

You can also use the Dodge and Burn tools in Photoshop to lighten or darken an overlay-neutral gray layer.

Adding masked adjustment layers

The previous example showed how it is possible to add a Curves adjustment as an adjustment layer. To do this, go to the Layers panel, mouse down on the Adjustment layer menu, and select the adjustment you want to apply (see **Figure 4.8**). This adds an adjustment layer above the current selected layer, which is applied globally to all the layers below the adjustment layer. I typically select Curves to apply lightening or darkening adjustments, but you can choose any of the items listed in Figure 4.8 to apply other types of adjustments as well. When you add a new adjustment layer, the adjustment layer mask will be filled with white. This applies the adjustment to the entire canvas. If you set Black as the foreground color in the Tools panel and use ad to fill the mask with black, this hides the adjustment completely. If you then select the Brush tool and paint with white (or add a white to black gradient), you can selectively unhide the adjustment and apply it to the selected areas (as was shown in the previous step-by-step).

If you a-click the gap between an adjustment layer and the layer below, this clips the adjustment layer to the contents of that layer. That is to say, if the layer contains an image element or a graphic shape, when you apply a clipped adjustment, the effect is applied to the contents of that layer and no others.

ADDING OVERLAY LAYERS

Another way you can add a localized adjustment in Photoshop is to add a neutral adjustment layer and change the layer blend mode. If you a-click the Create a new layer button, this pops up the New Layer dialog, which allows you to select the layer blend mode for the new layer. Below that is a Fill with Overlay-neutral color option, which is available for all the layer blend modes, except Dissolve, Hard Mix, Hue, Saturation, Color, and Luminosity. This allows you to create a new layer filled with an overlay-neutral color. For example, with the Screen mode, Black is the neutral color and with Multiply, it is white. For the Overlay, Soft Light, and Hard Light modes, the neutral color is 50% gray. If you add a new layer filled with a neutral color, it will have no effect on the layers below until you modify the layer color. So, if you select the Screen blend mode and paint with white, this applies a lightening adjustment, which you can undo by painting with black again, or you can achieve in-between results by painting with varying shades of gray.

The Overlay, Soft Light, and Hard Light modes are interesting, as these increase contrast. Here, the overlay-neutral color is 50% gray. Painting with a light gray or white has more of an effect lightening the light colors and less so on the darker tones, while painting with dark gray or black has more of an effect on the darker tones. The Overlay blend mode effect is quite strong, the Hard Light mode even stronger, but Soft Light applies a nice, delicate contrast adjustment. For some specific tasks, it is a good technique to be aware of. Most of the time I find adding a Curves adjustment layer and editing the layer mask is better because you have fine control of the tone adjustments and masking.

Using overlay layers to apply local adjustments

The following steps show how I was able to add an overlay-neutral layer and adjust the layer blend mode to produce different types of localized adjustment effects.





1 This photograph was optimized in Lightroom and opened in Photoshop. In this step I Att-clicked the Add new layer button in the Layers panel (circled).

Name:	Layer 1			(ОК
	Use Previous	Layer to	Create Clipping N	lask	Cancel
Color:	None		~		
Mode:	Overlay	~	Opacity: 100	~ %	
3	Fill with Over	lay-neutra	l color (50% gray)	



2 This opened the New Layer dialog. From the Mode menu, I selected the Overlay layer blend mode, which in turn allowed me to check the Fill with overlay-neutral color (50% gray) option. When I clicked OK, this added a new layer with the layer blend mode set to Overlay filled with a 50% neutral gray color. The neutral gray had no effect on the image below.





3 I was now able to modify the overlay-neutral layer to make it darker or lighter than a 50% midgray. In this instance, I selected the Brush tool, and with a slightly darker gray selected as the foreground color, painted on the layer to add more density plus more contrast to the selected areas. I also selected a lighter gray color to paint the bottom area to lighten (see the modified layer thumbnail).





4 This shows an alternative version, where I reverted to Step 2 and changed the layer blend mode to Multiply. In this example, the 50% gray applied an overall darkening adjustment to the image. I selected white as the foreground color and painted on the layer to remove the Multiply effect (because white has no effect in Multiply mode).

INDEX

8-bit images, 39-40 16-bit images, 39-40, 44

А

Adaptive Wide Angle filter, 154-162 description of using, 154-155 elliptical distortion removal, 156-157 panorama perspective corrections, 158-162, 179, 182 setting controls in, 158 Add Catchlight option, 234 Adjustment brush colorizing photographs with, 239, 240-243 localized adjustments with, 122, 123, 125 retouching images with, 221, 235, 237-238 settings and functions overview, 122 adjustment layers Curves adjustments as, 130-133 Photoshop edits using, 47-49, 134 Adobe RGB color space, 50 Adobe Standard profile, 41, 43

advertising photography, 2 aligning layers, 178, 185, 187, 196 alpha channels, 143, 145, 148 Amateur Photographer magazine, 1 Amount slider, Detail panel, 28 angle of view, 3, 140 anti-aliasing filters, 34 aperture setting depth of field and, 12-13 lens transmission quality and, 12 archiving your work, 61-64 aspect ratio, 140, 145 Aspect slider, 92 Auto Mask option, 118, 239, 240 Auto projection option, 180, 187, 196 Auto Sync mode, 228 Auto Tone adjustments, 81, 91, 172 Auto Upright adjustment, 92, 150 Auto-Align Layers option, 178, 185, 187, 196 Auto-Blend Layers option, 197 autofocus system, 14 axial chromatic aberration explained, 17 fixing, 19-22

В

B&W button. 200. 205 backup process, 61-64 Balance slider, 207 Basic panel, 41, 68-92 Auto Tone adjustments, 81, 91 Black & White button, 200, 219 Blacks slider, 75, 82, 83, 86, 87 Clarity slider, 32, 89-92 Contrast slider. 74. 83 Exposure slider, 68, 69 Highlights slider, 75, 172 Saturation slider. 104 Shadows slider. 72-73. 75. 83. 172 Temp and Tint sliders, 102 Tone Curve panel adjustments and. 94-96 Tone section adjustments, 68-88 Vibrance slider, 102, 104 White Balance adjustments, 102.103.173 Whites slider, 75, 83, 87 bit depth. 38-40 Black & White button, 200, 219 Black & White Mix sliders, 200, 204, 214, 220 black-and-white conversions. 199-220

border overlays added to, 212-217 colorizing photos made from, 239 desaturation technique for, 208-211, 240 enhanced effects for, 204-207 HSL/Color/B&W panel for, 200-203, 205 in-camera vs. postprocessing, 199 output tone range for, 218 printing final images from, 218-220 vintage look added to, 213-217 Blacks slider, 75, 82, 83, 86, 87 blemish retouching, 235 blend modes. See layer blend modes blending multiple images, 163-198 focus stacking for, 195-198 HDR image creation by, 170-174 layer blend modes for, 190-194 multiple flash exposures for, 184-185 panorama creation by, 175-183 removing unwanted elements by, 186-189 stack mode processing for, 164-169 Blur Gallery filters, 244 blurring, selective, 244-247 bonus materials, iii border overlays, 212-217 bracketed photos exposure bracketing, 36, 170 focus bracketing, 195 Brandt, Bill, 82 breaking the rules, 7 Brush edit mode, 118, 119-121 brush spots, 222, 228

Burn and Dodge tools, 134 burning and dodging, 114-116

С

calibration settings, 40-41 Camera Calibration panel black-and-white conversions and, 204, 206 calibration settings overview, 40-41 camera profile options, 42-43 Camera Faithful profile, 43 Camera Landscape profile, 43 Camera Neutral profile, 43 Camera Portrait profile, 43 camera profiles, 41, 42-43 Camera Raw dialog, 46 camera shake fixing in Photoshop, 15-16 hand-held photography and, 13 Camera Standard profile, 41, 43 cameras. See dSLR cameras canvas area extension, 146-149 capture sharpening, 26-32 explanation of, 26 workflow for, 27-32 Carbon Copy Cloner (CCC), 61 catalog file, 62 Channels panel, 143, 148 chromatic aberration explanation of, 17 fixing, 18, 19-22, 71 circle spots, 222, 228, 230 Cizic, Ansell, 107 Clarity adjustments, 32, 89-92 Adjustment brush for, 123, 125 black-and-white conversions and, 202, 218, 220 enhancing details using, 84, 90-92 Graduated Filter slider for, 118 negative Clarity, 89, 235, 237-238, 246

portrait retouching and, 235, 237-238 clipping highlights, 36-38, 80 previewing, 86 shadows, 36-38, 82-85 Clone mode, Spot Removal tool, 222, 226 Clone Stamp tool, 107, 152 Color Adaptation option, 153 color adjustments, 102-110 boosting color saturation, 105-107 colorizing photographs, 239-243 HSL adjustments, 108, 109-110 RGB curves adjustments, 104 Vibrance and Saturation sliders, 102, 104 White Balance adjustments, 102, 103 Color blend mode, 216 color fringe, 17 color gamut, 50-51, 53-54 color management, 50-54 color space options, 50-51 comparison of color spaces, 53-54 profile calibrations, 52 Color noise reduction, 33 Color Priority option, 129 Color Settings dialog, 51 color spaces color gamuts and, 50-51, 53-54 comparison of different, 53-54 Color swatch, 240, 241 colorimeter, 52 colorizing photographs, 239-243 composing images framing and, 3-7, 137-149 See also recomposing photographs Constrain Crop option, 150 contact sheets, 55

Content-Aware Fill feature, 152 Content-Aware Scale feature, 140-149 compressing elements with, 141-144 extending the canvas area with, 146-149 toolbar options for, 145 contrast adjusting, 74, 227 midtone, 32, 84, 89, 218 noise reduction, 33 Contrast slider Basic panel, 74, 83 Detail panel, 33 Graduated Filter, 118 Crop Overlay tool, 77, 124, 140 cropping images, 137-140 Crop Overlay tool for, 77, 124, 140 rules and guidelines for, 137-139 Curves adjustments, 72-73, 74, 130-133 Cylindrical projection method, 178

D

Defringe controls, 18, 20 Dehaze slider, 98, 99, 101 deleting. See removing Density setting, 118, 235 depth of field aperture setting and, 12-13 factors determining, 195 focus stacking and, 195-198 desaturating images, 208-211, 240 Detail panel noise reduction applied in, 33 sharpening applied in, 22, 26, 27-31 Detail slider Noise Reduction settings, 33

Sharpening settings, 30 Develop module Basic panel, 41, 68-92 Camera Calibration panel, 40-43 Detail panel, 26, 27-31, 33 Effects panel, 98, 99, 127-129 HSL/Color/B&W panel, 44, 108-110, 208-211 Lens Corrections panel, 17-24, 150-153 Presets panel, 42 Soft Proofing panel, 55, 56, 218 Split Toning panel, 85, 203, 207, 211 Synchronize Settings dialog, 228 Tone Curve panel, 44, 70, 93, 97 Di Martino, Angela, 223 digital cameras. See dSLR cameras digital photos. See images display screens. See LCD displays distortion elliptical, 156-157 geometric, 17, 150, 154 Distortion effects, 244 DNG file format, 63-64 DNG Profile Editor program, 41, 52 Dodge and Burn tools, 134 dodging and burning, 114-116 draft-mode printing, 55 dSLR cameras bracketing mode on, 170 camera profiles for, 41 database of lenses for, 12 filters for, 14, 34, 108, 112 hand-holding techniques, 13 how they work, 113 onboard processor in, 25

sensors in, 36, 38, 39

Ducker, Chris, 15 Duplicate option, 247 dust spot removal, 229–232 Dxomark.com website, 12 dynamic range, 36, 38, 170

Е

edit pins, 117, 122 Effects panel Dehaze slider, 98, 99 Post-Crop Vignetting options, 127-129, 215 elliptical distortion removal, 156-157 Erase mode, 118 Evans, Chris, 123 EXIF metadata, 158 exporting to Photoshop, 44-46 exposing to the right, 36 exposure adjustments, 68-73 Exposure slider for, 68, 69 lightening underexposed images, 69-71 exposure bracketing, 36, 170 exposure compensation, 90 Exposure slider, 68, 69 External Editing preferences, 44-46, 51 extreme wide-angle Photomerge, 178, 179-183 Eyers, Richard, 141 eyes leading into the frame, 4 reality perceived by, 111 red eye corrections, 233-234

_

Feather slider, 118 file formats, 63 filters Adaptive Wide Angle, 154-162 Blur Gallery, 244 Lens Correction, 18

Shake Reduction, 15-16 Smart, 158 Tilt-Shift, 244 See also Graduated Filter tool; Radial Filter tool filters (camera) anti-aliasing, 34 neutral density graduated, 112 polarizing, 108 UV lens, 14 fireworks photos, 190-194 fisheye lenses, 5, 6 Flach, Tim, 4 flash exposure blending, 184-185 Flow slider, 118 focus stacking, 195-198 focusing autofocus system for, 14 bracketing for, 195 Forysinski, Marek, 2, 114-116 framing images, 137-149 angle of view and, 3, 140 composing and, 3-7 Content-Aware Scale and, 140-149 cropping and, 137-140 Full Upright adjustment, 150, 152

G

gamut, color, 50–51, 53–54 geometric distortion, 17, 150, 154 Gibson, Ralph, 82 Graduated Filter tool black-and-white conversions and, 202 blur effects added with, 244, 246 Brush edit mode, 118, 119–121 dodging and burning with, 116 editing skies with, 112, 118 refining adjustments made in, 117 tone adjustments using, 70, 78, 87-88, 101, 125 See also Radial Filter tool gray ink sets, 218 grayscale channels, 200 grayscale conversions. See blackand-white conversions grayscale previews, 28, 29, 30, 31 grouping images, 44

Н

hand-coloring photographs, 239-243 hand-holding cameras, 13 hard disk drives, 62 Hard Light blend mode, 134 Hardy, Hugo, 198 haze reduction global, 98-100 localized, 101 HDR images, 170-174 creating in Lightroom, 171-174 dynamic range of, 38, 170 tips for shooting, 170 HDR Merge Preview dialog, 172 HDR Photo Merge feature, 170, 171-174 Heal mode, Spot Removal tool, 222, 224, 225, 226 Helicon Focus software, 195 high-key images, 86-88 Highlight Priority option, 129, 215 highlights adjusting, 75, 78, 220 clipping of, 36-38, 80, 86 deliberately losing detail in, 76-80 Highlights slider Basic panel, 75, 172, 220 Graduated Filter, 118 high-pass filters, 34 Histogram panel, 36, 80, 94 HSL/Color/B&W panel

black-and-white conversions and, 200-203, 205, 208-211 desaturating photos using, 208-211 descriptive overview of, 108 HSL adjustments and, 109-110, 208-211 secondary adjustments using, 44 Hue sliders, 108 Hunn, Jonathan, 184

ICC profiles, 50, 52 Identity Plate Editor, 212 image stabilization feature, 13 images blending, 163-198 cropping, 137-140 desaturating, 208-211, 240 framing, 3-7, 137-149 lightening, 69-71 printing, 55-61, 218-220 rating, 7 retouching, 221-247 sorting, 7-9 stacking, 44 straightening, 140 ISO settings, 25

J

Johansson, Erik, 2 JPEG images bit depth of, 39 in-camera processing of, 2, 26 JPEG previews, 40

Κ

Koudelka, Josef, 111 Kreitzman, Sue, 107

Lasso tool, 131 lateral chromatic aberration, 17, 18 layer blend modes merging images with, 190-194 overlay layers with, 134, 135-136 lavers adjustment. 47-49. 134 aligning, 178, 185, 187, 196 blending multiple, 190-194 opacity of, 47, 48 overlay, 134-136 selecting all, 165 smart object, 165-167 stacked. 164 LCD displays calibrating, 52 color gamut of, 50 leading the eye, 4 Lens Align system, 14 Lens Baby lens, 244 Lens Correction filter, 18, 158 lens corrections. 17-24 chromatic aberration fixes, 18, 19-22.71 lens profiles used for, 18, 19, 71 when to apply, 23-24 Lens Corrections panel, 17 Auto Upright correction, 92 chromatic aberration fixes. 19-22.71 distortion fixes. 245 lens profiles used in. 18, 19, 71 Upright adjustments, 92, 150-153 Vertical and Horizontal sliders, 245 lens flare. 98 lens profiles, 18, 19 lens vignetting, 17

lenses fisheve, 5, 6 Lens Baby, 244 prime vs. zoom, 12 rectilinear, 5 sharpness of, 12-14 Level Upright adjustment, 150 Levels/exposure adjustments, 66-67 Lighten blend mode, 190, 193 lightening images, 69-71 lighting photographs, 5 Lightroom catalog file in, 62 color management in, 50-54 exporting to Photoshop from, 44-46 raw image processing in, 40-44, 50-61 saving Photoshop images to, 49 live view function, 14 localized adjustments, 113-136 Adjustment brush for, 122, 123, 125 Brush edit mode for, 118, 119-121 combining multiple, 123-126 dodging and burning, 114-116 Graduated Filter for, 118, 119-121 haze reduction effects, 101 masked Curves adjustments, 130-133 overlay layers for, 134-136 Photoshop used for, 129-136 post-crop vignettes, 127-129 Radial Filter for, 117 selective blurring and, 244 tools and sliders for, 113 Lostandtaken.com website, 215 Luminance sliders HSL mode, 108, 208, 210

Noise Reduction mode, 33 Luminosity blend mode, 167

М

Macintosh computers backup program for, 61 display bit depth on, 52 Lightroom Print module on, 58,60 Marcantonio, Alfredo, 9 Masking slider, 26, 31 Merge to HDR Pro feature, 170 merging photos, 163-198 focus stacking for, 195-198 HDR image creation by, 170-174 layer blend modes for, 190-194 multiple flash exposures, 184-185 panorama creation by, 175-183 removing unwanted elements by, 186-189 stack mode processing for, 164-169 Metadata panel, 171 midtone contrast, 32, 84, 89, 218 miniaturization effect, 244 mirror-up mode, 13, 14 moiré pattern removal, 34 monitors. See LCD displays monochrome conversions. See black-and-white conversions Monroy, Bert, 2 Move tool, 216 Multiply blend mode, 136, 190

Ν

native ISO setting, 25 negative Clarity adjustments, 89, 235, 237-238, 246 neutral density graduated filter, 112 New Layer dialog, 135 news photography, 2 Nikon D810 sensor, 36 noise reduction, 33 nondestructive retouching, 222

0

opacity blend mode, 216 brush, 118, 122 layer, 47, 48 Spot Removal tool, 235, 237 optimizing quality, 3 out-of-gamut colors, 53 Overlay blend mode, 134, 135, 216 overlay layers, 134-136

Ρ

Page panel, 212 Page Setup dialog, 58 Panorama Merge Preview dialog, 176, 245 panoramas, 175-183 correcting perspective in, 159-162 creating in Lightroom, 175-177, 244, 245 creating in Photoshop, 179-183 losing highlight detail in, 76-77 projection options for, 178 tips on shooting, 175, 178 paper size options, 58 parallax effect, 178 Perceptual rendering intent, 56, 218 perspective correcting in panoramas, 159-162, 182

image composition and, 5-6 selective correction of, 154, 158 Upright adjustments for, 150 Perspective projection method, 178, 245 Pet Eye correction mode, 233-234 Photo Merge feature (Lightroom) HDR image creation, 170, 171-174 panorama creation, 175-178, 244, 245 Photomatix Pro program, 170 Photomerge feature (Photoshop), 175, 178-183 highlight/shadow clipping, 179 tips on shooting photos for, 178 wide-angle panorama creation, 178, 179-183 Photoshop adjustment layers in, 47-49, 134 camera shake fixes in, 15-16 compatibility issues with, 44, 45 Curves adjustments in, 72, 73, 74, 130-133 editing images in, 46-49 exporting from Lightroom to, 44-46 focus stacking in, 195-198 layer blend modes in, 134, 190-194 localized adjustments using, 129-136 overlay layers used in, 134-136 Photomerge feature in, 175, 178-183 saving images edited in, 49 smart objects used in, 46-47 Piezography gray inks, 218

Pilkington, Guy, 146 Point Curve editing mode, 93, 104 polarizing filters, 108 portrait retouching, 235-238 post-crop vignettes, 127-129, 215, 227 preferences External Editing, 44-46 Presets, 23-24 presets B&W conversion, 208 Develop module, 42 Identity Plate, 212 preferences for, 23-24 print settings, 61 Presets panel, 42 previews grayscale, 31 JPEG, 40 panorama, 176 smart, 63 soft proof, 55, 56, 218, 220 prime lenses, 12 Print Adjustment button, 218 Print dialog, 58, 60 Print Job panel, 56, 57, 218 Print module, 57-60 Macintosh computer, 58, 60 Page panel, 212 Print Job panel, 56, 57, 218 Template Browser panel, 61 Windows computer, 59, 60 Print Setup dialog, 59 print sharpening, 57 printers color gamut of, 50 gray ink sets for, 218 ICC profiles for, 52, 56 printing black-and-white images, 218-220 saving presets for, 61 setting options for, 55-60

profiles camera, 41, 42–43 lens, 18, 19 print, 52, 56, 220 Proof Settings options, 55, 56 ProPhoto RGB color space, 50, 51, 54 Protect Skintones option, 143, 145, 149 PSD file format, 39 Puppet Warp feature, 158

Q

quality optimization, 3

R

Radial Filter tool B&W vintage effect with, 214 Brush edit mode, 118 color adjustments and, 106 dodging and burning with, 115 refining adjustments in, 117 tone adjustments using, 79, 84, 124, 174 See also Graduated Filter tool Radius slider, Detail panel, 28, 29-30 rating images, 7 raw images bit depth of, 39 capture sharpening applied to, 26 editing in Photoshop, 46-49 exporting as smart objects, 46-47 file formats for, 63 processing in Lightroom, 40-44, 50-61 shooting photos as, 3 recomposing photographs, 137-162 Adaptive Wide Angle filter for, 154-162

Content-Aware Scale for, 140-149 cropping images and, 137-140 Upright adjustments for, 150-153 rectilinear lenses, 5 Red Epic Dragon sensor, 36 Red Eye Correction tool, 233-234 Pet Eye mode, 233-234 Red Eye mode, 233 Relative Colorimetric rendering intent, 56 **Remove Chromatic Aberration** option, 18, 20 removing chromatic aberration, 18, 20 elliptical distortion, 156-157 moiré patterns, 34 tone curve control points, 93 unwanted elements, 186-189, 223-227 rendering intent options, 56, 218 retouching images, 221-247 advantages of Lightroom for, 221 dust spot removal, 229-232 hand-coloring photographs, 239-243 portrait retouching, 235-238 red eye corrections, 233-234 selective blurring, 244-247 Spot Removal tool for, 221, 222-232 syncing settings and edits from, 228, 231-232 unwanted element removal, 223-227 RGB color space, 50, 51, 54 RGB curves adjustments, 104 rule of thirds, 137, 138

S

Salgado, Sebastião, 111 sampling image areas, 222 Sani. Farid. 69 Saturation sliders Basic panel, 104, 208 HSL mode, 108, 208, 240, 243 saving Photoshop images to Lightroom, 49 print settings as presets, 61 Scale slider, 150 Schewe, Jeff, 52, 163 Screen blend mode, 134, 190 selective blurring, 244-247 sensors bit depth of, 38-40 dynamic range of, 36, 38 sepia color cast, 85, 203, 217 Set Default Develop Settings dialog, 24 shadows adjusting, 72-73, 75, 220 clipping of, 36-38, 82-85 Shadows slider, 72-73, 75, 83, 172, 220 Shake Reduction filter, 15-16 shapes within the frame, 5 sharpening capture, 26-32 negative, 244, 246 print, 57, 218 shutter speed. 13 Size slider for brushes. 118 skies editing with Graduated Filter, 112.118 enhancing in black-and-white images, 204-207 Smart filters, 158 smart objects exporting images to Photoshop as, 46-47

stack mode processing using, 164, 165-167 smart previews, 63 Smoothness slider, 33 Snapshot panel, 94 Soan, Martin, 8, 9 Soft Light blend mode, 134 soft proof previews, 55, 56, 218, 220 Soft Proofing panel, 55, 56 Solid State Drives (SSDs), 62 sorting and selecting photos, 7-9 Spherical projection method, 176, 178 Split Toning panel black-and-white conversions and, 203, 207, 211 sepia color cast added from, 85, 203, 217 Spot Healing Brush, 194 Spot Removal tool, 221, 222-232 circle and brush spots in, 222, 228 Clone mode used in, 222, 226 complex retouching with, 223-227 functional description of, 222 Heal mode used in, 222, 224, 225, 226, 237 Opacity settings for, 235, 237 portrait retouching with, 237 syncing edits made with, 228, 231-232 unwanted element removal with, 223-227 Visualize Spots option, 228, 230 sRGB color space, 50, 51 stack mode processing, 164-169 stacking images, 44 star ratings, 7 storage media, 62-63 straightening images, 140

studio lights, 5 Synchronize Settings dialog, 228, 231 syncing Spot Removal edits, 228, 231-232

Target Adjustment tool black-and-white conversions and, 200, 202, 206 HSL/Color/B&W adjustments and, 108, 110 Tone Curve adjustments and, 93 tarnished color effect, 216 Teasdale, Andy, 90 Temp slider Basic panel, 102, 204 Graduated Filter, 118 Template Browser panel, 61 templates, print, 61 textured backgrounds, 215-216 TIFF format files bit depth of, 39, 40 exporting to Photoshop, 44 specification for, 63 Tilt-Shift filter, 244 Tint slider, 102, 204 tone adjustments, 65-101 Auto Tone, 81, 91 Basic panel, 68-88 Blacks slider, 75, 82, 83, 86, 87 Clarity slider, 89-92 clipping the shadows, 82-85 Contrast slider, 74, 83 Exposure slider, 68, 69 haze reduction, 98-101 high-key image, 86-88 Highlights slider, 75 Levels adjustments, 66-67 lightening images, 69-71 losing highlight detail, 76-80

output tone range and, 218 portrait retouching and, 236 Shadows slider, 72-73, 75, 83 Tone Curve panel, 93, 96, 97, 100, 227 Whites slider, 75, 83, 87 tone capture, 36-39 bit depth and, 38-40 dynamic range and, 36, 38 exposing to the right for, 36 shadow/highlight clipping and, 36-38 Tone Curve panel Basic panel and, 94-96 examples of using, 70, 96, 100, 173, 227, 236 Point Curve editing mode, 93, 104 secondary adjustments using, 44 split point sliders, 93 tripods HDR photography and, 170 mirror vibrations and, 13-14 panorama photography and, 175, 178 stack mode processing and, 164 virtual reality head for, 178 tutorial videos, iii

U

underexposed images, 69–71 unwanted element removal merging images for, 186–189 Spot Removal tool for, 223– 227 Upright adjustments, 150–153 example of applying, 151–153 setting and refining, 150 UV filters, 14 \setminus

Ζ

zoom lenses, 12 Vertical Upright adjustment, 150, 156 Vibrance slider black-and-white conversions and. 208. 210 clipping prevention using, 102, 104 video tutorials, iii vignettes B&W vintage effect, 215 post-crop, 127-129, 215, 227 vintage black-and-white look, 213-217 virtual copies, 56 virtual reality tripod head, 178 Visualize Spots option, 228, 230

\mathbb{W}

Wacom tablet, 118, 122, 221, 235 What Digital Camera magazine, 1 White Balance adjustments black-and-white conversions and, 201, 204 examples of, 91, 99, 103, 173 options for making, 102 White Balance Selector tool, 102 Whites slider Basic panel, 75, 83, 87 Graduated Filter, 118 wide-angle Photomerge, 178, 179-183 Windows computers display bit depth on, 52 Lightroom Print module on, 59,60

Х

X-Rite ColorChecker target, 52