

# Contents at a Glance

<i>Introduction</i> .....	<b>1</b>
<i>Part I: The Basics of Color Editing</i> .....	<b>5</b>
Chapter 1: Understanding Color.....	7
Chapter 2: Controlling Lighting .....	21
Chapter 3: Calibrating Your Monitor.....	29
Chapter 4: Color Profiles and File Formats .....	55
<i>Part II: Image Brightness and Contrast Corrections</i> .....	<b>77</b>
Chapter 5: Making Tonal and Brightness Corrections.....	79
Chapter 6: Correcting Contrast .....	111
Chapter 7: Using Adjustment Layers .....	133
<i>Part III: Color Corrections</i> .....	<b>149</b>
Chapter 8: Identifying Color Problems .....	151
Chapter 9: Color Correcting Skin Tones .....	157
Chapter 10: Using Levels and Color Variations to Make Color Corrections .....	179
Chapter 11: Advanced Color-Correction Methods.....	195
Chapter 12: Camera Raw Color Correction.....	227
<i>Part IV: Finishing Work</i> .....	<b>241</b>
Chapter 13: Printing .....	243
Chapter 14: Soft Proofing Color .....	273
<i>Part V: The Part of Tens</i> .....	<b>283</b>
Chapter 15: Ten Tips for Better Tone and Color .....	285
Chapter 16: Ten Reasons to Upgrade to Photoshop.....	293
<i>Index</i> .....	<b>309</b>



# Table of Contents

## *Introduction* ..... 1

About This Book.....	1
Who This Book Is For .....	1
Conventions Used in This Book .....	2
How This Book Is Organized.....	2
Part I: The Basics of Color Editing .....	2
Part II: Image Brightness and Contrast Corrections .....	2
Part III: Color Corrections .....	3
Part IV: Finishing Work .....	3
Part V: The Part of Tens.....	3
Icons Used in This Book.....	3
Where to Go from Here.....	4

## *Part 1: The Basics of Color Editing* ..... 5

### **Chapter 1: Understanding Color** ..... 7

Understanding Calibration Basics .....	7
Getting to Know the Language of Color .....	9
Hue .....	9
Saturation .....	11
Brightness .....	11
Color space .....	13
Color gamut.....	13
Clipping.....	13
Mixing Colors.....	14
Understanding grays.....	15
Understanding channels.....	16
Why are there 256 levels?.....	17
Understanding Color Modes.....	17
RGB.....	17
Index color .....	17
Grayscale .....	18
Bitmap.....	18
CMYK .....	19
Converting Color Modes .....	19

<b>Chapter 2: Controlling Lighting</b> .....	<b>21</b>
Understanding Color Temperature.....	22
Using Balanced Lighting.....	23
Going for Neutral Gray .....	24
Building a viewing booth.....	25
Employing viewing booth alternatives .....	27
<b>Chapter 3: Calibrating Your Monitor</b> .....	<b>29</b>
What Is Monitor Calibration?.....	29
Working with CRT versus LCD Monitors.....	30
Calibrating with Hardware Devices .....	32
Adjusting Hardware Controls on an LCD Display .....	33
Using Calibration Software .....	36
Using Adobe Gamma.....	37
Calibrating with just RGB controls on a Mac.....	42
Calibrating LCD monitors that have brightness and contrast controls.....	47
Calibrating monitors that have white-balance, brightness, and contrast controls in Windows.....	52
Calibrating monitors with just white-balance controls in Windows.....	53
Calibrating Mac monitors that have white-point adjustments.....	54
<b>Chapter 4: Color Profiles and File Formats</b> .....	<b>55</b>
What's a Color Profile? .....	55
Understanding the Different Types of Profiles .....	57
Monitor profiles .....	57
Workspace profiles.....	57
Output profiles.....	58
Working with Workspace Profiles in Elements .....	58
Defining your color workspace.....	58
Embedding the workspace profile .....	60
Managing Print Colors with Output Profiles.....	61
Acquiring device profiles.....	62
Installing profiles on your computer .....	65
Using output profiles when printing.....	67
Choosing and Changing File Formats .....	69
Which formats support profiles?.....	69
When can you change a file format? .....	71
Understanding Bit Depth.....	73
Understanding dynamic range .....	74
Where you get 16-bit images .....	75

## *Part II: Image Brightness and Contrast Corrections ..... 77*

### **Chapter 5: Making Tonal and Brightness Corrections ..... 79**

Checking Out Your Images .....	80
Fixing Tone Problems .....	81
Using the Levels Dialog Box.....	84
Getting to Black and White .....	88
Adjusting Gamma levels .....	89
Correcting a low-contrast file.....	92
Correcting an underexposed file .....	93
Correcting an overexposed file.....	94
Correcting a high contrast file .....	95
Finding the first real black and white pixels .....	95
The Levels black-and-white preview option .....	97
Breaking the Rules of Editing.....	100
Knowing when to break the rules.....	101
Breaking the rules for white-point adjustments.....	102
Breaking the rules for black-point adjustments .....	105

### **Chapter 6: Correcting Contrast ..... 111**

Correcting Image Contrast.....	111
Fixing Contrast Problems with the Auto Contrast Command .....	114
Working with the Brightness/Contrast Command.....	117
Modifying Contrast with Adjust Color Curves .....	121
Using the Shadows/Highlights Tool to Adjust Contrast.....	124
Traveling Back in Time with the Undo Command .....	131

### **Chapter 7: Using Adjustment Layers ..... 133**

Adding Adjustment Layers to Your Editing Arsenal .....	134
Creating Adjustment Layers .....	134
Working with Adjustment Layers.....	136
Changing the opacity of layers .....	137
Moving adjustment layers between files .....	137
Choosing a layer blending mode.....	139
Correcting Image Contrast with a Curves Adjustment Layer.....	139
Increasing image contrast .....	140
Reducing image contrast.....	144

## *Part III: Color Corrections ..... 149*

### **Chapter 8: Identifying Color Problems ..... 151**

Identifying a Colorcast.....	151
Discovering Memory Colors .....	153
Getting Familiar with Color Saturation.....	155

<b>Chapter 9: Color Correcting Skin Tones</b> .....	<b>157</b>
Correcting Skin Tones.....	157
Using the Hue/Saturation Tool .....	164
Understanding the Hue/Saturation dialog box.....	164
Editing Hue/Saturation .....	165
Removing a Colorcast.....	173
<b>Chapter 10: Using Levels and Color Variations to Make Color Corrections</b> .....	<b>179</b>
Using Levels for Color Correction.....	179
Correcting color by using Levels.....	181
Analyzing the Levels adjustments.....	184
Working with Color Variations.....	185
Correcting color with Color Variations.....	188
Darkening and lightening images .....	191
Saturating images with Color Variations .....	191
<b>Chapter 11: Advanced Color-Correction Methods</b> .....	<b>195</b>
Cleaning Up the Whites .....	195
Examining color channels in Levels.....	198
Using Auto Levels.....	199
Setting White and Black Points with the Levels Eyedroppers .....	204
Fine-Tuning with the Hue/Saturation Command.....	212
Correcting Overexposed Saturated Files .....	216
Correcting Color by Using Levels .....	221
Understanding the effects of adjusting color in Levels.....	222
Color correcting a file with Levels .....	223
<b>Chapter 12: Camera Raw Color Correction</b> .....	<b>227</b>
Understanding Camera Raw .....	228
Using the Raw Converter .....	228
Making Adjustments in Camera Raw .....	233
Working with Camera Raw Defaults.....	239
<b>Part IV: Finishing Work</b> .....	<b>241</b>
<b>Chapter 13: Printing</b> .....	<b>243</b>
Preparing Files for Printing.....	243
Printing and image resolution .....	244
Changing image resolution.....	246
Cropping images.....	248
Converting Color.....	250

Printing to Epson Inkjet Printers.....	251
Using automatic profile selection.....	252
Selecting a printer profile manually.....	259
Printing with a printer profile in Windows.....	259
Printing with a custom profile .....	261
Printing to HP Inkjet Printers.....	262
Printing to HP printers in Windows .....	263
Printing to HP printers on a Macintosh.....	264
Printing to Canon Printers .....	265
Printing to Canon printers in Windows .....	265
Printing to Canon Printers on a Mac.....	266
Renaming Color Profiles.....	268
Printing Contact Prints .....	268
Choosing Paper and Inks.....	271
<b>Chapter 14: Soft Proofing Color .....</b>	<b>273</b>
Understanding Soft Proofing.....	273
Converting to an Output Profile.....	274
Converting color in Windows .....	274
Converting profiles by using operating system tools on a Macintosh .....	277
Viewing the Soft Proof .....	279
<b>Part V: The Part of Tens .....</b>	<b>283</b>
<b>Chapter 15: Ten Tips for Better Tone and Color .....</b>	<b>285</b>
Calibrating Your Monitor .....	285
Using a Gray Card.....	286
Or Using the GretagMacbeth ColorChecker .....	287
Shooting Pictures in Proper Lighting.....	287
Shooting Photos against a Background.....	288
Using Curves Adjustment Layers.....	288
Shooting in Camera Raw .....	289
Editing 16-Bit Images .....	289
Editing for Content.....	290
Using Filters .....	290
<b>Chapter 16: Ten Reasons to Upgrade to Photoshop .....</b>	<b>293</b>
Using the Curves Dialog Box .....	293
Using the Channels Dialog Box.....	297
Changing Bit Depth .....	298
Improving Dynamic Range .....	300
Working with More Color Modes .....	300

Converting to a Profile.....303  
Proofing Color.....304  
Embedding Profiles .....304  
More Options for Using Camera Raw .....305  
More Selection Tools .....306

*Index*.....309