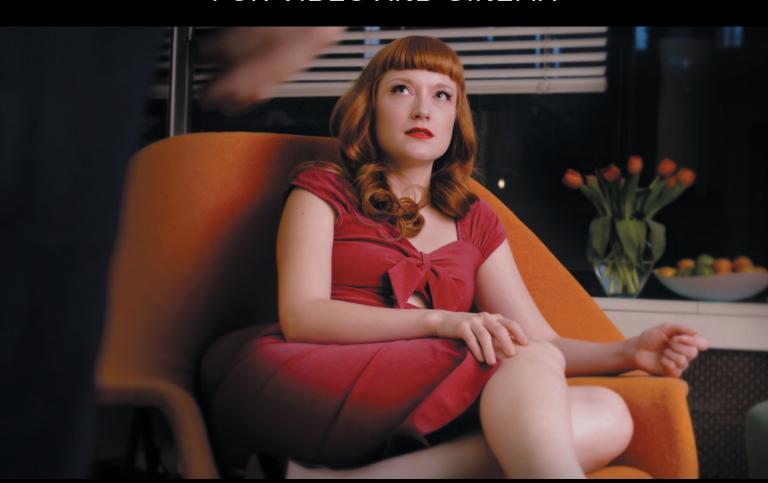
# COLOR CORRECTION

HANDBOOK

**SECOND EDITION** 

PROFESSIONAL TECHNIQUES FOR VIDEO AND CINEMA



**ALEXIS VAN HURKMAN** 

### HOW TO GET YOUR MEDIA FILES

Thank you for purchasing this digital version of:

#### **Color Correction Handbook**

Throughout this book, you'll see examples of scenes in commercially produced shows that are used to demonstrate various concepts and techniques. The downloadable content includes a wide variety of corresponding QuickTime clips that you can use as a playground for experimenting with the techniques discussed. These clips are the raw, uncorrected source material for each example and can be imported into any grading application that's compatible with Apple ProRes media.

To access the files, do the following:

1. On a Mac or PC, go to www.peachpit.com/redeem and enter this code:

#### 52D9E623DAB5

- 2. If you do not have a Peachpit.com account, you will be prompted to create one.
- 3. The downloadable files will be listed under Lesson & Update Files tab on your Account page (see image below).
- 4. Click the media file links to download them to your computer.

If you are unable to locate the files for this title by following the steps above, please email ask@peachpit.com and supply the code from step one. Our customer service representatives will assist you as soon as possible.



#### What to do with the Media files once you've downloaded them

The files are compressed into Zip archives to speed up download time and to protect the contents from damage during transfer. You must uncompress (or "unzip") the files to restore them to their original size and format before you use them with the book. Modern Mac and Windows systems are set up to open Zip archives by simply double-clicking.

# Color Correction Handbook: Professional Techniques for Video and Cinema

## **Table of Contents**

TABLE OF CONTENTS
HOW TO GET YOUR MEDIA FILES
FOREWORD
INTRODUCTION

#### 1 COLOR CORRECTION WORKFLOWS

Are You Grading for Cinema, Broadcast, or the Web?

Where Colorists Fit In

Before the Shoot: Choosing a Recording Format

Digital Dailies: The Start of Postproduction

Round-Trip Workflows

### 2 SETTING UP A COLOR CORRECTION ENVIRONMENT

Understanding Display-Referred Color Management

Choosing a Display

**Display Calibration** 

Setting Up a Color Correction Suite

Configuring a Grading Theater

Other Hardware for Color Correction

#### **3 PRIMARY CONTRAST ADJUSTMENTS**

How We See Color

Luminance and Luma

**Evaluating Contrast Using Video Scopes** 



Controls to Adjust Contrast

**Expanding Contrast** 

**Compressing Contrast** 

Y'CBCR Luma Adjustments vs. RGB Luma Adjustments

Redistributing Midtone Contrast

Adjusting Log-Encoded Contrast

Setting Appropriate Highlights and Shadows

Working with High Dynamic Range (HDR) Media

Contrast and Perception

Contrast During Exhibition

Dealing with Underexposure

Dealing with Overexposure

#### **4 PRIMARY COLOR ADJUSTMENTS**

Color Temperature

What Is Chroma?

Analyzing Color Balance

Using Color Balance Controls

**Using Log Color Controls** 

Color Temperature Controls

**Using Color Curves** 

Saturation Adjustments

**Understanding and Controlling Color Contrast** 

### 5 HSL QUALIFICATION AND HUE CURVES

**HSL** Qualification in Theory

Individual Qualifier Controls

A Basic HSL Qualification Workflow



Tips for Using and Optimizing HSL Qualifications

Different Ways of Using HSL Qualifiers

Hue Curve Adjustments

Other Types of HSL Adjustments

**Advanced Keyers** 

#### 6 SHAPES

Shape UI and Controls

Highlighting Subjects

Creating Depth

Shapes + HSL Qualifiers

Aggressive Digital Relighting

**Shapes and Motion** 

#### 7 ANIMATING GRADES

**Grade Animation Controls Compared** 

Correcting Changes in Exposure

Correcting Hue Shifts

Grade Transitions Using Through Edits and Dissolves

**Artificial Lighting Changes** 

Creative Grade Animation

## 8 MEMORY COLORS: SKIN TONE, SKIES, AND FOLIAGE

What Are Memory Colors?

Ideals for Skin Tone

Techniques for Adjusting Complexion Using Secondaries

Ideals for Skies

Techniques for Adjusting Skies

Ideals for Foliage



#### 9 SHOT MATCHING AND SCENE BALANCING

**Color Timing** 

Strategies for Working with Clients

How to Begin Balancing a Scene

How to Match One Shot to Another

**Recycling Grades** 

Scene Matching in Action

#### 10 QUALITY CONTROL AND BROADCAST SAFE

Grading for Film Output

Video Signal Standards and Limits

Quality Control Issues That Affect Colorists

Six Structured Steps to Legalizing Your Picture

Monitoring and Legalizing Saturation in Detail

RGB Color Space Legality and the RGB Parade Scope

Soft Clipping for Luma and RGB

Other Video Scope Options for Broadcast Gamut Monitoring

Creating Graphics and Animation with Legal Values

Broadcast-Safe Settings in Grading Applications

Broadcast-Safe Settings in Editing Applications

Avid Media Composer and Symphony Broadcast-Safe Settings

Adobe Premiere Pro Broadcast-Safe Settings

Final Cut Pro X Broadcast-Safe Settings

Final Cut Pro 7 Broadcast-Safe Settings

### PREVIEW: COLOR CORRECTION LOOK BOOK

Tints and Color Washes

**Undertones** 



Vibrance and Targeted Saturation INDEX

