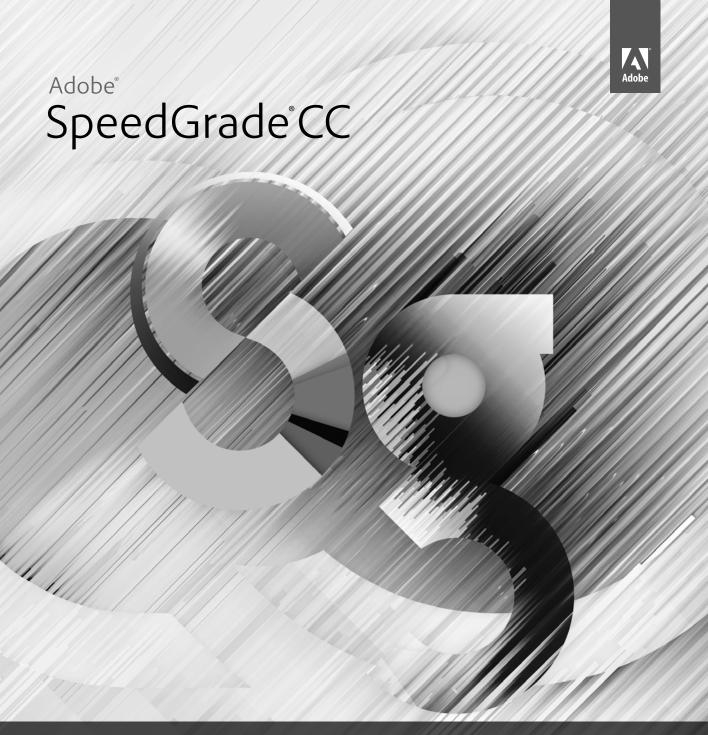


# **CLASSROOM IN A BOOK®**

The official training workbook from Adobe Systems



# **CLASSROOM IN A BOOK®**

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Adobe® SpeedGrade® CC Classroom in a Book®

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# GETTING STARTED

Adobe® SpeedGrade® CC is a professional color grading system that has support for high-end and stereoscopic video formats.

You can craft your looks with the Lumetri™ Deep Color Engine and utilize the layer-based grading system for making your adjustments. You'll benefit from the new Snapshot Browser, film stock emulations, Luma Waveform display, Shot Matcher, Mercury Transmit support for external monitoring, and more.

### **About Classroom in a Book**

Adobe SpeedGrade CC Classroom in a Book® is part of the official training series for Adobe graphics and publishing software. The lessons are designed so that you can learn at your own pace. If you're new to Adobe SpeedGrade, you'll learn the fundamental concepts and features you'll need to use the program. This book also teaches many advanced features, including tips and techniques for using the latest version of this software.

Although each lesson provides step-by-step instructions for creating a specific project, there's room for exploration and experimentation. You can follow the book from start to finish, or do only the lessons that match your interests and needs. Each lesson concludes with a review section summarizing what you've covered.

In Adobe SpeedGrade CC Classroom in a Book® you'll learn to use the SpeedGrade interface and how to customize it, as well as the various workflows. You'll then be guided on setting up projects, creating primary corrections, using masks, adding secondary layers, balancing scenes and copying grades, keyframing, reframing clips, applying effects and transforms, and then finishing off the project with your final render and output. Not only will you learn how to use the features but also why you make certain choices so your clips look great, are in balance with one another, have suitable levels for broadcast, and are stylistically in line with the needs of the film or video project.

### **Prerequisites**

Before beginning to use Adobe SpeedGrade CC Classroom in a Book, make sure your system is set up correctly and that you've installed the required software and hardware. You can view updated system requirements by visiting www.adobe.com/products/speedgrade.

You should have a working knowledge of your computer and operating system. You should know how to use the mouse and standard menus and commands, and also how to open, save, and close files. If you need to review these techniques, see the printed or online documentation included with your Windows or Mac OS system.

To complete the lessons in this book, you'll need to have Adobe SpeedGrade CC installed.

# Installing Adobe SpeedGrade CC

You must purchase the Adobe SpeedGrade CC software separately from this book. For complete system requirements and complete instructions on installing the software, visit www.adobe.com/support.

You must install Adobe SpeedGrade from Adobe Creative Cloud onto your hard drive. You can purchase Adobe Creative Cloud by visiting www.adobe.com/products/creativecloud. Follow the onscreen instructions.

## Optimizing performance

Color-correcting video is memory- and processor-intensive work for a computer. A fast processor and a lot of memory will make your finishing experience much faster and more efficient; 4 GB of memory is the minimum, and 8 GB or more is best for high-definition (HD) media. Adobe SpeedGrade takes advantage of multicore processors on Windows and Macintosh systems.

A dedicated 7200 RPM or faster hard drive is recommended for high-definition video (HD) media. A RAID 0 striped disk array or SCSI disk subsystem is strongly recommended for HD. Performance will be significantly affected if you attempt to store media files and program files on the same hard drive. Be sure to keep your media files on a second drive if at all possible.

You can find a list of all the current requirements and recommendations at www.adobe.com/products/speedgrade/tech-specs.html.

## Accessing the Classroom in a Book files

The lessons in Adobe SpeedGrade CC Classroom in a Book use specific source files, such as video clips and image files. To complete the lessons in this book, you will need to download the lesson files from www.peachpit.com. You will need about 4 GB of storage space in addition to the 1 GB you need to install Adobe SpeedGrade CC.

Although each lesson stands alone, some lessons use files from other lessons, so you'll need to keep the entire collection of lesson assets on your hard drive as you work through the book.

To access the Classroom in a Book files:

- 1 On a Mac or Windows computer, go to www.peachpit.com/redeeem and enter the code found at the back of your book.
- 2 If you do not have a Peachpit.com account, you will be prompted to create one. The downloadable files will be listed in the Lesson & Update Files tab on your Account page.
- **3** Click the lesson file links to download them to your computer. This process may take some time to complete, depending on the speed of your Internet connection.
- 4 Unzip the media1.zip and media2.zip files. Create a folder named Tutorial\_ Media. Move the contents of both media folders into the Tutorial\_Media folder.
- 5 Unzip the lesson zip files and place the 10 lesson folders into a folder named Lessons.
- **6** Create a folder on your fastest hard drive named SpeedGrade\_Tutorials.
- **7** Move the Lessons folder and Tutorial\_Media folder into that folder.

The final setup should look like this:

```
SpeedGrade_Tutorials
    Tutorial_Media
    Lessons
        Lesson01
        Lesson02
        etc.
```

### How to use these lessons

Each lesson in this book provides step-by-step instructions for creating one or more specific elements of a real-world project. The lessons stand alone, but most of them build on previous lessons in terms of concepts and skills. So, the best way to learn from this book is to proceed through the lessons in sequential order.

The organization of the lessons is workflow-oriented rather than feature-oriented, and the book uses a real-world approach. The lessons follow the typical sequential steps colorists use to complete a project, starting with setting up projects, creating primary corrections, using masks, adding secondary layers, balancing scenes and copying grades, keyframing, reframing clips, applying effects and transforms, and then finishing off the project with their final render and output. Not only will you learn how use the features, but also why you make certain choices so your clips look great, are in balance with one another, have suitable levels for broadcast, and are stylistically in line with the needs of the film or video project.

### **Additional resources**

Adobe SpeedGrade CC Classroom in a Book® is not meant to replace documentation that comes with the program or to be a comprehensive reference for every feature. Only the commands and options used in the lessons are explained in this book. For comprehensive information about program features and tutorials, refer to these resources:

**Adobe SpeedGrade Help and Support:** www.adobe.com/support is where you can find and browse Help and Support content on Adobe.com.

**Adobe Creative Cloud Learning:** For inspiration, key techniques, cross-product workflows, and updates on new features, go to the Creative Cloud Learn page at <a href="https://helpx.adobe.com/creative-cloud/tutorials.html">https://helpx.adobe.com/creative-cloud/tutorials.html</a>. Available only to paid Creative Cloud subscribers.

**Adobe TV:** http://tv.adobe.com is an online video resource for expert instruction and inspiration about Adobe products, including a How To channel to get you started with your product.

**Resources for educators:** www.adobe.com/education and http://edex.adobe.com include three free curriculums that use an integrated approach to teaching Adobe software and can be used to prepare for the Adobe Certified Associate exams.

Also check out these useful links:

**Adobe Forums:** *http://forums.adobe.com* lets you tap into peer-to-peer discussions and questions and answers on Adobe products.

Adobe Marketplace & Exchange: www.adobe.com/cfusion/exchange is a central resource for finding tools, services, extensions, code samples, and more to supplement and extend your Adobe products.

Adobe SpeedGrade CC product home page: www.adobe.com/products/speedgrade has more information about the product.

Adobe Labs: http://labs.adobe.com gives you access to early builds of cutting-edge technology, as well as forums where you can interact with the Adobe development teams building that technology and other like-minded members of the community.

### Adobe certification

The Adobe training and certification programs are designed to help Adobe customers improve and promote their product-proficiency skills. There are four levels of certification:

- Adobe Certified Associate (ACA)
- Adobe Certified Expert (ACE)
- Adobe Certified Instructor (ACI)
- Adobe Authorized Training Center (AATC)

The Adobe Certified Associate (ACA) credential certifies that individuals have the entry-level skills to plan, design, build, and maintain effective communications using different forms of digital media.

The Adobe Certified Expert program is a way for expert users to upgrade their credentials. You can use Adobe certification as a catalyst for getting a raise, finding a job, or promoting your expertise.

If you are an ACE-level instructor, the Adobe Certified Instructor program takes your skills to the next level and gives you access to a wide range of Adobe resources.

Adobe Authorized Training Centers offer instructor-led courses and training on Adobe products, employing only Adobe Certified Instructors. A directory of AATCs is available at *http://partners.adobe.com*.

For information on the Adobe Certified programs, visit www.adobe.com/support/ certification/main.html.

# 4 MASK CORRECTIONS

### **Lesson Overview**

In this lesson, you'll learn about the following:

- How to create and edit masks
- How to make adjustments inside and outside of masks
- How to use motion tracking to make a mask follow camera or subject motion



This lesson will teach you how to limit corrections using a shape, or mask. It should take approximately two hours to complete.

Download the project files for this lesson from the Lesson & Update Files tab on your Account page at www.peachpit.com and store them on your computer in a convenient location, as described in the Getting Started section of this book. Your Accounts page is also where you'll find any updates to the chapters or to the lesson files. Look on the Lesson & Update Files tab to access the most current content.



Creating masks is one form of secondary corrections and useful for grading work that affects specific portions of the image.

## **Getting started**

Note: If you have not already downloaded the project files for this lesson to your computer from your Account page, make sure to do so now. See "Getting Started" at the beginning of the book.

In this lesson, you'll learn how to use shapes to create mask corrections, which are a form of secondary correction. Secondary color corrections are adjustments that affect specific portions of the image. Masks provide a quick way of isolating a geometric area of a picture to make adjustments to it.

For this lesson, you'll use the project file located in the Lesson\_04 folder.

- 1 Launch SpeedGrade (if necessary) and close the open project so the Timeline is empty.
- 2 Use the Desktop media browser's hierarchical list at the left to find where you copied the SpeedGrade lesson media.
- 3 Open the Lesson\_04 folder, and double-click the Lesson\_4.ircp file to open that project.
- 4 If the clips in the Timeline appear brown, select the Tutorial Media folder in the media browser to reveal its contents. Then open the Reels panel and click the Load From Desktop button to relink them to the clips in the open project.
- 5 Open the Monitor. If necessary, set the Zoom Level pop-up menu to Fit to see the entire frame, and then open the Look panel to prepare to work.

The ten clips in the Timeline will be used to show different techniques that masks make possible.

## Using masks

After you've made a primary adjustment to the color and contrast of a clip to achieve an overall look, you need to make more specific changes using secondary color corrections. Of these, the mask correction is probably the easiest and most obvious to use.

Essentially, a mask correction uses a shape to isolate a portion of the image; you can make an additional set of color and contrast adjustments within that shape without affecting the rest of the image.



In addition, once you've placed your shape, you can make a separate set of adjustments to the region that falls outside of that shape for an additional level of versatility.



Masks are an excellent solution for adjustments you need to make to an easily identifiable geometric region of an image—for example, the top half or the bottom-left corner. If you can't easily surround the region you want to adjust with a single shape, you may want to try using a secondary qualifier instead, as covered in Chapter 5.

### Masks in SpeedGrade

To use a mask in SpeedGrade, you draw a shape around the region you want to adjust and then assign that shape's mask to one or more layers in the Layers list. You can assign either the inside of a mask or the outside to the layer, which lets you apply separate corrections to either half of the mask.



In SpeedGrade, you can have only one mask per grade. However, this design enables you to use the inside or outside of a mask to limit as many Primary, Secondary, or effects layers in the Layers list as you want to.



If you want to use multiple masks on a single clip, you can add a grade track to that clip in the Timeline. Each grade track can have its own mask, so by stacking up grade tracks, you can apply overlapping grades that are limited using different masks.



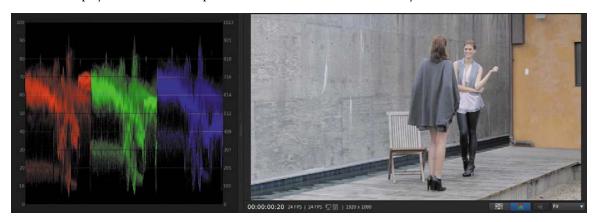
Grade tracks will be covered in subsequent lessons.

### Setting up a mask correction

In the following three examples, you'll use simple mask techniques in three different ways to make targeted improvements to images.

### Example 1: Emphasize or deemphasize parts of an image

- 1 If necessary, open the Monitor and Look panels. Make sure the Monitor panel shows the Vectorscope and the Parade scope.
- **2** Move the playhead to the first clip in the Timeline if it's not there already.



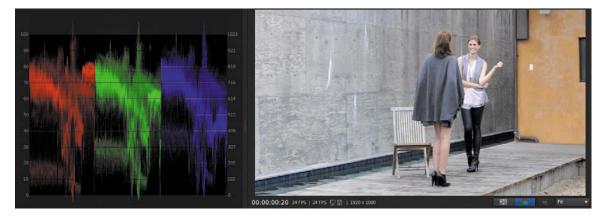
It's important to keep in mind that in the majority of shots you work on, all secondary operations are built on top of an initial primary correction. You may often find that with a proper primary adjustment, secondary adjustments are unnecessary.

However, without a primary adjustment, you may find that you are doing way too much work, adding layer upon layer of corrections to fix things you could have taken care of with a well-considered overall adjustment.

The initial state of the first clip is a bit low contrast and a bit flat. First, let's see what we can do with an overall primary correction.

3 Drag the Offset ring to the left until the thickest part of the shadows in the red graph of the Parade scope touches 0%. Then drag the Gain ring to the right until the thickest part of the highlights in the red graph of the Parade scope touches 100%. Some individual spikes will go below 0% and above 100%, but this is detail you don't mind clipping in this image.





To lighten the image a bit further, drag the Gamma ring to the right, just enough to place the thickest portion of highlights in the Parade graph between 60 and 70 on the graph. Then drag the Input Saturation slider to the right between 1.30 and 1.40 to increase image saturation, depending on the look you prefer.





5 Click the eye icon of the Primary layer in the Layers list to turn this correction on and off. This gives you a sense of how much you've changed.

With just a few adjustments you've added more pop and life to the image. However, with the additional lightness, all areas of the image are now more visible, including the gravel pit to the right of the wooden walkway.



This is the kind of detail the client wanted hidden, and it's the perfect sort of correction to make using a mask.

Before you can make the correction, you need to create and place the mask.

**6** Open the Mask panel to the right of the Look panel.



It's necessary to select the Mask panel, even if it's open, to access its controls and to show whatever mask shape happens to be currently drawn in the Monitor.

7 In the row of four mask buttons, click the one with the square icon.



A green square control displays within the Monitor. At the center, a *widget* provides a variety of integrated handles you can use to resize and reposition the overall shape. For simple geometries, these handles will get you where you need to go quickly.



Surrounding the widget, the shape consists of connected *control points* that you can use to deform and customize the shape.



The first three mask buttons create new mask shapes that you can customize, and the fourth button (empty) erases whichever shape is currently in use. If you don't like the modifications you made to a customized shape and want to start over again, click one of the shape mask buttons again and a new default shape will overwrite the current one.

Let's customize the shape to cover the sandpit.

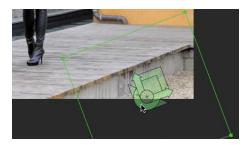
8 Drag within the position handle (the circle with crosshairs at the center of the shape widget) to move it down to the corner.



- At this point, there's not a lot of room to maneuver the shape around, so you'll need to shrink the image to keep working on it.
- **9** Set the Zoom Level pop-up menu to 25% to shrink the image, adding some room around the image you'll be working on.



10 Next, drag the widget's rotate handle (the half circle at the bottom left of the reposition handle) to rotate the shape so that its edge is parallel to the edge of the walkway.



11 Drag the reposition handle to line up the edge of the shape so that it falls just below the edge of the sand. Then drag the widget's horizontal scale handle (the right-pointing arrow) to stretch the shape horizontally so that it's wider than the visible area of the walkway.



12 Drag the widget's feather handle (the outer edge of the square) to the right to feather the edge of the shape; keep dragging until the second outer shape that appears touches the wood of the walkway.



At this point, the shape is covering the part of the image you need to adjust and we're ready to make the correction.

13 Click the Look tab, and then click the +P button under the Layers list to add a new layer.

Before making an adjustment with the mask you created, you need to create a new Primary layer to attach that mask to. That way, the mask will be limiting the effect of an additional correction while leaving your initial Primary correction as is.

**14** With the new, topmost layer selected, click the inside mask button.



Clicking the inside mask button "assigns" the inside of the mask to the currently selected layer, which is indicated by the inside mask icon that appears on that layer.



Now you can make your adjustment.

**15** Choose Fit from the Zoom Level pop-up menu, and then drag the Gamma ring to the left to darken the sandpit. Make it dark enough to seem like it's in shadow but not so dark that it begins to look rough and artificial.





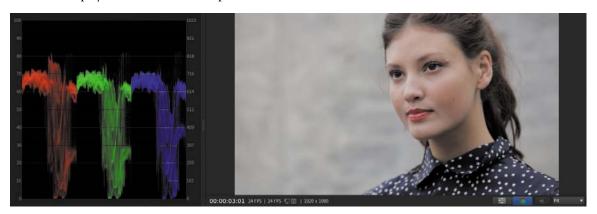
By lowering the Gamma contrast control, you darken the image without clipping the blacks, producing a more naturalistic adjustment that still retains some detail and contrast.

This kind of selective darkening or lightening of the image is often referred to as "digital relighting," and is similar to when the lighting crew flags the light to create a deliberate pool of shadow. By darkening that corner, you make the sandpit less noticeable and add contrast to the overall image. Click the eye icon on the new Primary layer to turn the adjustment on and off so you can see what a difference this small change makes.

#### Example 2: Lighten parts of an image

In the next example, you'll perform one of the most common mask cheats there is—brightening a face to make it stand out.

1 Move the playhead to the second clip.



A primary adjustment has already been made to this clip, which you can see by clicking the Primary layer's eye icon to toggle it off and on. The shadows have a nice density as a result, but the client wants you to make her face stand out a bit more from the background.

**2** Click the Mask panel, and then click the first circular mask button.

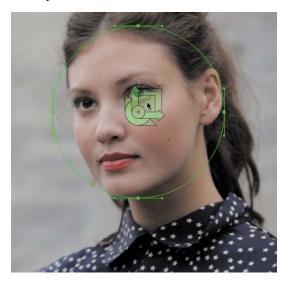


The Circular mask's onscreen control appears at its default state, ready to be further customized for your use.

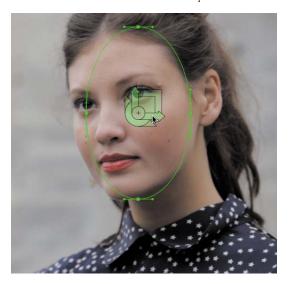
3 Click the mask widget's position handle (the center circle), and drag the whole mask to center it on the woman's face.



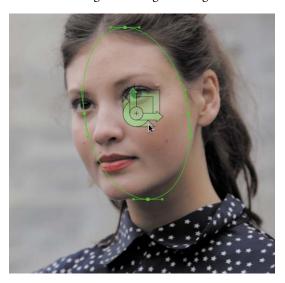
4 Click and drag from the widget's scale handle (the upper-right box) to the right to scale up the entire circle until the borders of the circle reach her hairline and chin.



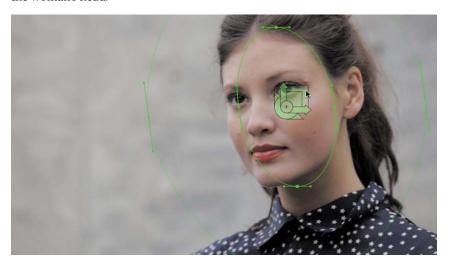
**5** Drag from the widget's horizontal scale handle (the right-pointing arrow) to the left to narrow the circle horizontally so it fits the woman's face better.



6 Now click the widget's vertical skew handle (the right-pointing triangle under the right-facing arrow) and drag to the right to skew the oval to the left, so that it follows the angle of the light hitting her face.

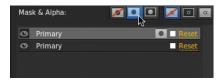


**7** Drag the widget's feather edge handle (the outer region of the square) to the right until the outer feather shape of the mask is approximately twice the size of the woman's head.



Why such a large amount of feathering? Because this type of adjustment, if not handled carefully, can produce fringing around the subject being brightened. A broadly feathered area will create a more gentle transition from the area being manipulated to the area that isn't, making it harder to spot what you're doing.

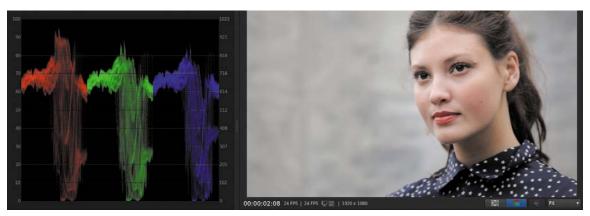
8 Open the Look tab again, and click the +P button under the Layers list to create a new Primary layer. Then click the inside mask button.



Now the oval mask you created is used to limit whatever you do in this second Primary layer.

9 With the Look panel controls set to Overall, drag the Gain ring to the right until the top of the red graph just touches 95 in the Parade scope.

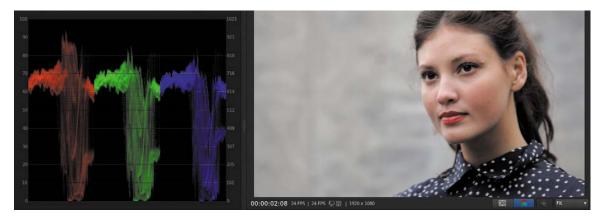




This lightens the woman's highlights, but it also lightens the background a bit, too. You could stop here, but a more sophisticated approach would be to stretch the overall contrast of the woman's face rather than just lightening it.

**10** Drag the Gamma ring to the left just a bit until the gray cement behind the woman approximately matches the rest of the wall.





Now, lest you think you've merely made the woman's face go dark again, click the eye icon in the top Primary layer in the Layers list to toggle the correction on and off to see what you've done.





You've significantly brightened the woman's highlights without affecting the background behind her too noticeably.

### **Example 3: Create an illusion of depth**

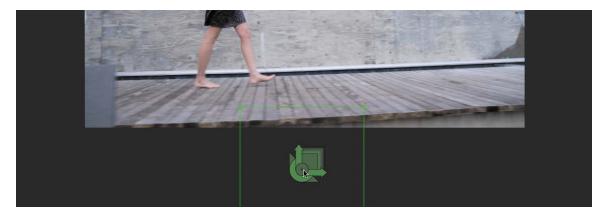
So far, you've learned how to use masks to deemphasize parts of the picture you want to fall into shadow and to lighten parts of the image you want to draw a viewer's eye to. In this next example, you'll use a square mask to create an illusion of depth.

1 Move the playhead to the third clip.

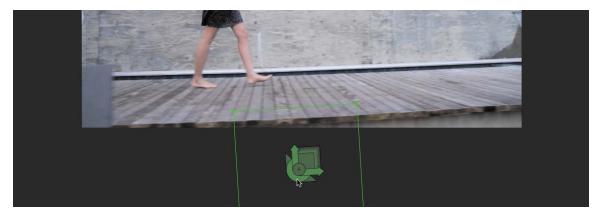


Like the last example, a primary correction is already applied to this clip. The image looks good, and the woman has a nice separation from the background, but the concrete background blends into the wooden walkway a bit too much.

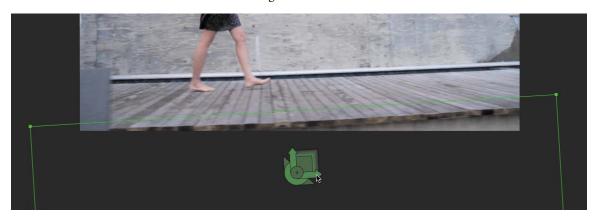
- 2 Click the Mask panel again, and then click the square mask button to create a square mask.
- 3 Set the Zoom Level of the Monitor to 25% to add some room to work, then drag the widget's position handle (the center circle with crosshairs) down until the top of the square is just above the edge of the walkway.



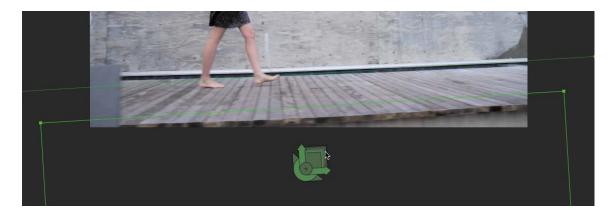
4 Drag the widget's rotation handle (the semicircle at the bottom left of the center handle) to align the edge of the mask with the angle of the walkway's edge.



5 Drag the widget's horizontal scale handle (the right-pointing arrow) to the right to stretch the rectangle until it's wider than the frame.



6 Now drag the widget's feather handle (the outer square) to the right to feather the mask until the top of the feather edge hits the far side of the walkway.



- 7 Choose Fit from the Zoom Level pop-up menu to center the image again. Then open the Look tab again, click the +P button under the Layers list to create a new Primary layer, and click the inside mask button.
- 8 Drag the Gamma ring to the left to darken the walkway enough so that the falloff from dark to light caused by the feathering is clearly visible. The edge of the walkway should be quite dark (but not totally clipped), but the far edge of the walkway should be untouched.



This feathered falloff, a gradient from dark at the outer edge of the frame to light toward the middle of the image, creates a sense of depth. It's an optical illusion to be sure, but one you can capitalize on to make your images more interesting. While you're at it, now's a good time to try a different method.

**9** Drag the Gamma Color Balance control toward orange to add some color to the wood of the walkway.





The image was fairly monochromatic, so adding a bit of color to the wood is one way of livening up the image. Because you've made two adjustments to the Gamma control (one to the outer ring and another to the inner Color Balance control), you should notice that there are now two reset arrows.

The arrow to the left resets the outer contrast ring control, and the arrow to the right resets the color balance adjustment you made; in fact, the right-pointing arrow shows the color of the actual adjustment.

Now the walkway looks neutral, and the dark falloff provides an interesting depth effect that, although barely noticeable, makes an appreciable difference when you toggle that layer's eye icon off and on.

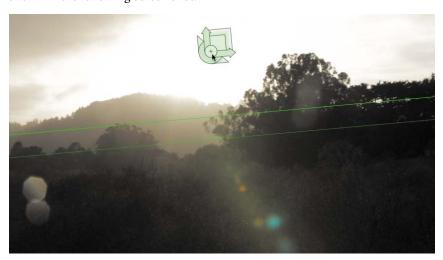
### Separating interior and exterior adjustments

So far, you've made adjustments to the inside of masks that you positioned and resized in different ways. SpeedGrade also lets you assign the inside and outside of a mask to different layers of correction.

1 Move the playhead to the fourth clip.



2 Click the Mask panel, click the square mask button, and use the widget handles to create a feathered strip that surrounds the sky and the tops of the trees, as shown in the following screen shot.



3 Open the Look tab and click the +P button twice to create two additional Primary layers.

4 Click the middle Primary layer in the Layers list, and then click the inside mask button to assign the inside of the mask to that adjustment. Then click the top Primary layer, and click the outside mask button to assign the outside of the mask to it.



At this point, any adjustment you make using the middle Primary layer will affect the part of the image inside the mask; adjustments you make with the top Primary layer will affect everything outside of the mask.

5 Select the middle Primary layer in the Layers list, and drag the Gamma Color Balance control toward orange to add some natural-looking sunset color to the sky.



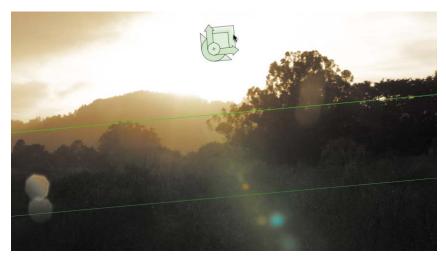
6 Select the top Primary layer, click the Shadows button, and drag the Gamma Color Balance control just a bit toward green to add a little more color to the treetops without affecting the lens flare too much.



By being selective about what range of image tonality you add color to, you can avoid blowing out the highlights and adding color to areas of the image where you don't want it.

At this point, there's a pretty clear border between the orange and green adjustments you've made. It's a little artificial looking, so you can probably feather it out a bit more.

7 Click the Mask panel, and feather the shape out even more until there's a nice blend between the sky and tree line corrections. For a convincing effect, you'll probably need a very wide feather.



As you can see, you can continue to adjust a mask even after you've assigned it to one or more layers.

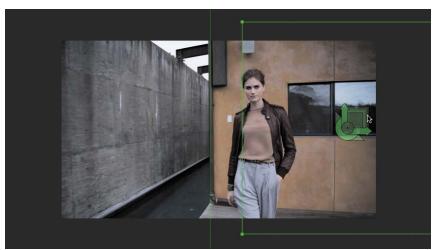
In the following exercise, you'll use the same technique to "cheat" a split of warm and cool lighting in an image to accentuate a specific area of the frame.

1 Move the playhead to the fifth clip.



This clip has a primary grade on it already that's creating a nice range of image contrast, but the color is a bit lackluster.

2 Click the Mask panel, click the square mask button, and use the widget handles to create a feathered region that surrounds the orange-walled right half of the screen. The left feathered edge should be where the building meets the concrete wall, and the solid inner edge should hit the left edge of the woman's head. The top, right, and bottom of the mask should fall off the edge of the frame.



- 3 Open the Look tab and click the +P button twice to create two additional Primary layers.
- 4 Click the middle Primary layer in the Layers list, and click the inside mask button to assign the inside of the mask to that adjustment. Then click the top Primary layer, and click the outside mask button to assign the outside of the mask to it.



5 Select the middle Primary layer. With the Overall mode selected, raise Input Saturation to approximately 1.41, and then drag the Gain Color Balance control just a bit toward orange to add a bit of warmth to the highlights of the woman and the wall while leaving the shadows alone.







**6** Select the top Primary layer, and drag the Gamma Color Balance control toward blue/cyan, to "cool off" the cement and water.



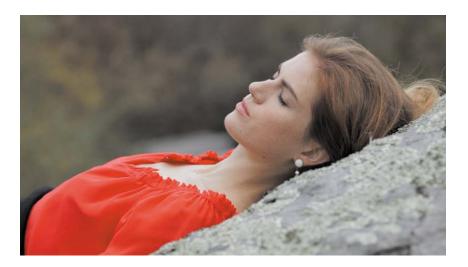


Because the cement wall is darker then the orange wall, the Gamma control has more influence in this part of the image. By pushing the color of the cool half of the image to a complementary hue of the warmer half that you corrected previously, you've created a more visually interesting image with more color contrast than before.

### Drawing and adjusting custom masks

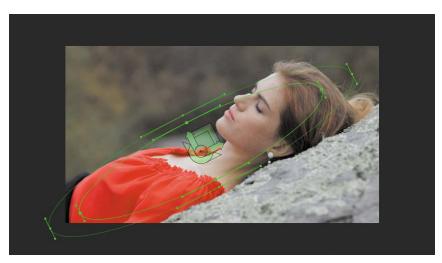
Thus far, you've used the mask buttons to create either squares or ovals that you've customized to suit your purpose. However, it's also possible to draw a custom shape to more closely fit specific subjects when necessary.

1 Move the playhead to the sixth clip.



This clip has been graded for a nice, neutral, warm treatment of the woman in the red dress, but the foliage in the background looks a bit autumnal. This can be fixed by masking the woman and rock, and adding green to the trees behind her, but that will require a more specific shape.

It's a good approach to start a correction with a simpler shape. Often, you'll be able to use a customized version of one of the masks.



However, if you find that you're fighting a shape that's not quite working, you can delete the unsuccessful mask and draw a new one from scratch. In the previous example, you can see that a simple oval doesn't quite fit the woman well enough to make an accurate adjustment to the foliage.

To delete a mask and start over again, just click the Empty button (the last of the four mask buttons).



**2** To start drawing a new shape from scratch, click the add points button.



3 In Add Points mode, every time you click in the Monitor, you'll add a control point to an ever-expanding polygon.



Click to draw a connect-the-dots outline of the woman and the rock using the fewest control points possible until you have a shape resembling the following screen shot.



When you're finished, click the select points button.



Now you have a shape created with what are referred to as *cusp* points with Bézier handles. Unfortunately, the automatically selected angles for many of these points are not ideal relative to the woman you've just traced. What you want are nice, smooth Bézier curves that conform to her outline.

6 Dragging anywhere within the Monitor creates a bounding box with which you can select one or more control points in a mask. Draw a bounding box to select every control point you've drawn.



7 Click the first Make Selected Points Corners button to remove all of the Bézier splines from the control points, and then click the third Make Selected Points Smooth Spline button to add the Bézier handles back so they conform more closely to the angles of the shape.



Each control point now has spline handles, and the overall shape has smoothed out to follow the curves of the woman's position on the rock. You can use the three node type buttons to change one or more selected control points among three types of handles, depending on what kind of adjustment you need to make. **8** Click once in the background to deselect all the control points. Then use the spline handles to customize the shape so that it more accurately isolates the woman and rock from the foliage behind. If necessary, Command-scroll (Ctrlscroll) to zoom into or out of the Monitor image to more accurately adjust the spline handles.



When you're finished customizing the shape's curves, click once in the background to deselect all the control points. Then use the widget to feather the edge of the overall shape and shrink the shape just a bit so that the feathered edge just barely intersects the edge of the woman.



At this point, you should have a shape that isolates the woman well, so it's time to make a correction.

- 10 Open the Look tab, click the +P button to add a Primary layer, and then click the outside mask button to assign that correction layer to the outside of the mask.
- 11 Drag the Gamma Color Balance control toward green to push the background foliage toward a more verdant hue. Then drag the Contrast slider to the left to add some definition to the background.



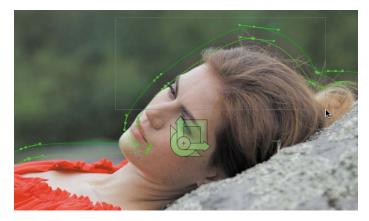


**12** With this correction in place, play through the clip. You should notice that as the woman turns her head, the mask that worked well before now reveals some fringing, especially around her head and hair.



This is easily corrected with some broader feathering.

13 Click the Mask panel, and draw a bounding box around the control points surrounding her head that reveal some fringing.



The mask widget's influence changes depending on which control points are selected. If no control points are selected, the widget affects the overall shape. However, if one or more control points are selected, the widget will transform those points specifically, leaving the rest of the shape alone.

14 With the control points around the woman's head selected, use the widget to reposition them closer to her head. Then drag the widget's feather control to increase the feathering of just those points. When you're finished, click anywhere outside of the shape to deselect all the control points.



Keep making adjustments until there's a plausible separation between the woman and the greener background with a minimum of visible fringing.

## Adjusting mask softness

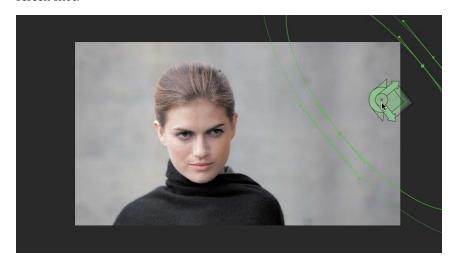
At the end of the previous exercise, you started to make individual feathering adjustments to separate control points. In the following exercise, you'll focus on adjusting individual control points to create custom feathering for more sophisticated blending effects.

1 Move the playhead to the seventh clip.

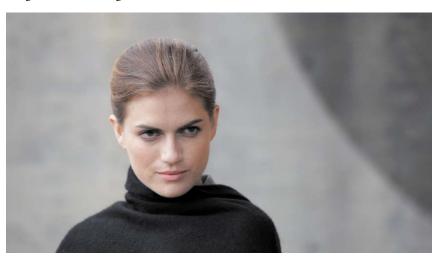


This clip has a very subtle primary adjustment to widen the contrast and neutralize warmth in the highlights. However, the client wants a more dramatic shadowy falloff toward the right side of the screen.

2 Click the Mask panel, click the vignette mask button, and use the widget handles to reposition, rotate, and resize the mask to look like the following screen shot.

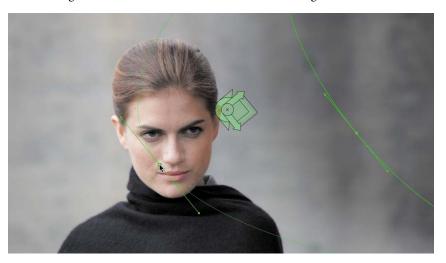


- 3 Open the Look tab, click the +P button to add a Primary layer, and then click the inside mask button to assign that correction layer to the inside of the mask.
- **4** Drag the Gamma ring to the left to darken the area inside the mask.



This creates a not very well-integrated shadow against the wall that should be customized.

5 Click the Mask panel and drag the leftmost control point of the outer shape (the softness mask) so that it overlaps the woman's face. Then drag the corresponding control point of the inner shape (the hard edge) to the left to create a diagonal falloff of shadow, similar to the following screen shot.



The outer softness mask can be reshaped to create custom feathering of any kind. In this example, you're using a single feathered mask to do double duty, casting shadow on the wall and on the already-shadowed half of the woman's face. However, there's more you can do to the woman's shoulder.

The Edit Contour menu lets you set which control points are editable, which helps you avoid adjusting any part of a mask you don't want to. The default setting is Any, but you can also choose Inner or Outer. For now, leave this set to Any.



**6** Click the add points button.



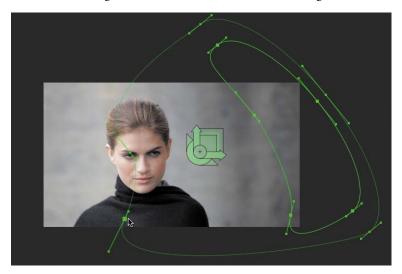
7 In Add Points mode, click once on the portion of the outer shape that overlaps the woman's shoulder to add another control point to the shape. Before you continue, click the select points button, select the control point you just created, and click the Make Selected Points Smooth Spline button to lock both Bézier handles together.

Note: While in add points mode, you'll continue to add or remove control points every time you click until you return to edit mode.



You can always add or remove points from an existing shape using the edit buttons; by default added points have disconnected Bézier handles, which is good for some adjustments, but inconvenient for others.

8 Click the select edit points button (the arrow) and adjust the new control point so the outer softness mask that overlaps the woman follows the contours of light and shadow falling off her left side, similar to the following screen shot.



Now that the shadow looks right, there's an additional level of control you can exercise. Two sliders and a menu let you adjust how the falloff from the inner to the outer masks is contoured. You may need to drag the handle separating the Mask panel from the Timeline up to make room for these controls:



- The **Falloff indicator** provides a visualization of how the current Exponent and Weight settings are affecting shape feathering.
- The **Exponent slider** adds a slight nonlinearity to the distribution of feathering between the inner and outer shapes.
- The **Weight slider** lets you adjust how close to the inner or outer shapes the feathering is distributed. Lower settings pull the feathering back toward the inner shape, whereas higher settings push feathering out toward the outer shape.
- A **Preset menu** lets you recall one of the six falloff presets.

These controls interact with one another, and you can use the shape you created in the previous example to experiment with them to see how different adjustments affect falloff.

# Tracking masks

Throughout this lesson, you've created static masks in all the exercises. The movement in the clips hasn't been drastic enough to give away the masks' lack of motion. Indeed, if the feathering is soft enough and your mask placement is clever enough, you can get away with a fairly loose correlation between a mask and a moving subject. However, there are limits, and if the thing you're adjusting moves too much, a masked correction can quickly look like a mistake unless you do something to match the motion of the mask to the subject.

### Using motion tracking to follow camera motion

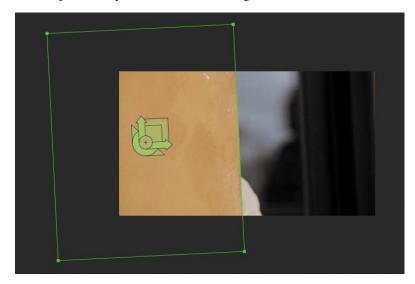
If a clip has motion that's simply too much to overlook with details that will stick out if the mask doesn't follow the motion of a subject or camera motion closely enough, SpeedGrade offers automated motion tracking that you can use to fix this.

1 Move the playhead to the first frame of the eighth clip.



This clip has a primary adjustment that increases contrast and warms up the boy's face, but the client wants a different color on the wall. Because the wall is so well defined and the boy doesn't move in front of it, a shape will allow a nice, clean fix.

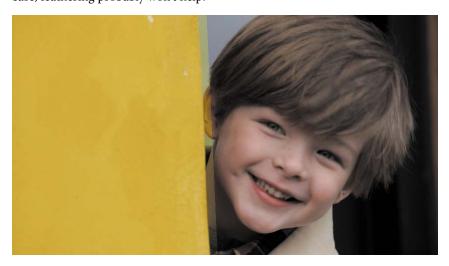
2 Click the Mask panel, click the square mask button, and use the widget handles to create an unfeathered region that fits the orange wall in the foreground and extends past the top and bottom of the image.



- 3 Open the Look tab, click the +P button to add a Primary layer, and then click the inside mask button to assign that correction layer to the inside of the mask.
- 4 Drag the Gamma color balance control toward yellow to change the color of the wall.



5 Now drag the playhead to scrub through the entire duration of the clip. As you can see, when you get to the edge of the clip, the wall moves away from the shape you've drawn and a yellow fringe appears on the boy's face. In this case, feathering probably won't help.

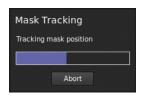


Fortunately, there is an easy fix.

6 Move the playhead back to the first frame of the clip, and click the Track Object button in the Mask panel. (You may need to increase the height of the Mask panel to see this button.)

#### Track Object

No options are available to select. When you click Track Object, SpeedGrade proceeds to track whatever happens to be inside the mask from the first frame to the last, generating keyframes at each frame until the analysis is complete.



Once tracking has concluded, the generated keyframes that appear above the tracked clip in the Timeline are averaged to reduce the total number of keyframes that appear. Moments of slow, predictable motion are averaged into fewer keyframes separated by arrows that indicate the keyframe interpolation that's happening. Moments of fast, unpredictable motion result in one keyframe per frame.



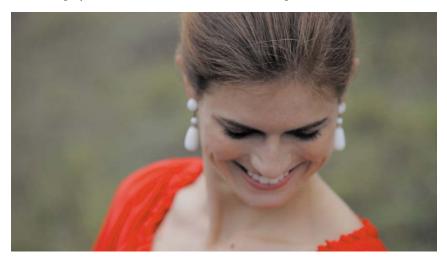
7 Scrub through the clip, and you'll see that the mask hugs the wall, following the movement of the camera and resulting in a seamless effect.



# Using motion tracking to follow a moving subject

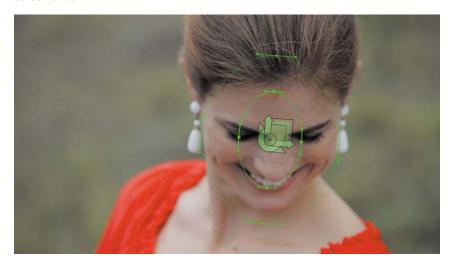
In the next example, you'll use motion tracking to make a mask follow the woman's moving head.

1 Move the playhead to the first frame of the ninth clip.

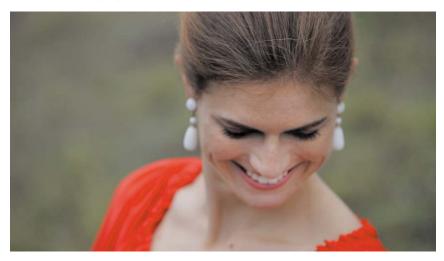


This clip has a primary adjustment that increases contrast, but the client wants the woman's face to be brighter. As you saw in a previous exercise, this is an easy fix with an oval mask, but in this clip the woman's face moves. Again, this is not a problem if you use motion tracking.

2 Click the Mask panel, click the circular mask button, and use the widget handles to create a feathered oval that fits the woman's face, as in the following screen shot.



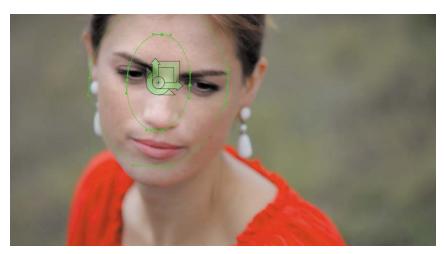
- 3 Open the Look tab, click the +P button to add a Primary layer, and then click the inside mask button to assign that correction layer to the inside of the mask.
- 4 Drag the Gain ring to the right to increase the lightness of the woman's face so that the facial highlights in the Parade's red channel hit 80%.



This sets you up to lighten the woman's face, but now you need to track the oval to match the woman's movement.

5 Before you start tracking, make sure the mask is well feathered. You want the lightness adjustment you made to blend into the background convincingly.

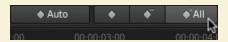
**6** Make sure the playhead is on the first frame of the clip, and click Track Object. When the tracking is done, scrub through the clip to see how well the mask fits the woman's face. If all has gone well, you should now have a pleasing highlight on the woman's face that follows her as she moves.



# Tips for fixing problem tracks

If you see too much haloing around the woman's face or if something doesn't look right, you can try to compensate using the following methods:

1 Eliminate the tracked keyframes by clicking the Delete All Keyframes button.



- 2 Try moving the shape to another part of the woman's face in the first frame of the clip and retrack.
- 3 If that doesn't work, you can eliminate the tracked keyframes and modify the feathering of the mask to try to create a more convincing falloff.
- 4 It may simply be that you're trying to make too aggressive an adjustment to her face. Easing off on how bright you're trying to make her will result in a more realistic effect.

# **Review questions**

- 1 What is a mask for?
- 2 How many masks can you have per grade?
- **3** Can you mask a correction layer using the inside, the outside, or either?
- 4 How many kinds of masks are there?
- 5 How can you adjust a mask that is cut off by the edge of the Monitor?
- 6 How do you draw a custom mask?
- 7 Can you switch a mask using Bézier curves to a polygon with sharp angles?
- 8 How do you adjust mask softness?

# **Review answers**

- 1 Limiting the area of a correction using a geometric shape.
- 2 One.
- 3 Either.
- 4 Four; circular, square, vignette, and custom masks that you draw.
- 5 Zoom out of the Monitor.
- **6** Using the Mask panel's Add Points mode.
- **7** Yes.
- 8 By using the softness control of the widget and by adjusting the outer softness shape of the mask's onscreen control.

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### **Production Notes**

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#### Images and media

Photographic images and media are intended for use with the tutorials only.

#### Typefaces used

Adobe Myriad Pro and Adobe Warnock Pro are used throughout the lessons. For more information about OpenType and Adobe fonts, visit www.adobe.com/type/opentype/.

#### **Team credits**

 $The following individuals contributed to the development of this edition of {\it Adobe SpeedGrade Classroom}$ 

in a Book:

Writer: Alexis Van Hurkman Adobe Press Editor: Victor Gavenda Senior Editor: Karyn Johnson

Developmental and Copy Editor: Anne Marie Walker

Production Editor: Rebecca Winter Technical Editor: Bart Walczak Compositor: Danielle Foster Proofreader: Bethany Stough Indexer: Jack Lewis Media Producer: Eric Geoffroy Cover designer: Eddie Yuen Interior designer: Mimi Heft

### Contributor

**Alexis Van Hurkman** is a writer, director, and colorist based in Saint Paul, Minnesota. His color correction work covers a wide variety of broadcast programming including narrative and documentary features and shorts, spots, and experimental subjects.

He directed his feature film *Four Weeks, Four Hours*, which screened at Manhattan's NewFilmmakers series and several film festivals including Breckenridge, Salento International, Longbaugh, ReelHeART, FAIF, and San Fernando Valley. Alexis is currently developing "Starship Detritus," an animated science fiction series.

Alexis writes extensively about color correction and post-production and has authored the best-selling book Color Correction Handbook: Professional Techniques for Video and Cinema. Other book credits include the color correction and finishing section of Apple Pro Training Series: Final Cut Pro X Advanced Editing, Apple Pro Training Series: Encyclopedia of Color Correction, and Apple Pro Training Series: Advanced Color Correction and Effects in Final Cut Pro. He has also written the user manual for DaVinci Resolve as well as the user manuals for Color 1.0 and 1.5, Shake 4, and Final Cut Pro versions 2, 3, and 4.

Alexis has spoken on digital color management and color grading for film and video at NAB, and has presented at the London, Boston, and Las Vegas SuperMeets. He has taught color correction technique at DV Expo in NYC and LA, and has given classes and presentations on color correction at Michigan's Postapaloosa conference, New York's Tekserve, the After Effects NYC and Mopictive users groups, NRK, Norway's Broadcast Mountain symposium, Sweden's Dramatiska Institutet, and other venues.