FROM STILL TO MOTION Editing DSLR Video with Final Cut Pro X

RICHARD HARRINGTON > ABBA SHAPIRO > ROBBIE CARMAN

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Richard Harrington, Abba Shapiro, and Robbie Carman

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To my wife Meghan, your patience and humor make each day a joy to live. To my children Michael and Colleen, you make me want to be a better man. To my family who has always supported me and blessed me with many talents—thanks for all that you do.

-Richard Harrington

To my sons Daniel and Ian, through your eyes I see all the excitement and beauty in the world.

To my friends who have been there when needed and never asked why. To my colleagues and students who have made the last 25 years an amazing ride.

—Abba Shapiro

To my wife Catherine for your undying understanding, support, and love. To my daughter Lily, your smiles and your laughs inspire me every day. And finally, to all those who I have learned from, your voices echo in the pages of this book.

-Robbie Carman

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Contents

	Why We Wrote this Bookvii
1	Shooting with Editing in Mind2Camera Settings4The Exposure Triangle7Capturing Great Audio9
2	Backing Up Your Data
	Direct to Edit or Back Up First?14Backup Workflow14Transferring Media15Selecting an Editing Drive20Transferring Media to an Edit Drive21Creating Archives21
3	Importing and Transcoding Your Media22
	Configuring Import Preferences.24Understanding Events28Import Methods29
4	Organizing Your Media36Examining Events38Examining Clips41Managing Your Event Library44Rating Clips46Adding Keywords to Clips48Filtering Clips50Deleting Footage53
5	Setting Up a Project54Final Cut Pro X Project Structure.56Starting a Project.57Understanding the Project Library60

















6	Syncing Footage Dual-System Sound Revisited Syncing Audio and Video Creating Smart Collections of Synced Footage	.64 .66 .67 .74
7	Editing Essentials	.76 .78 .82 .86 .90
8	Advanced Editing	.95 .96 .101 108 .110
9	Fixing and Enhancing FootageAutomatic Color CorrectionUsing ScopesPrimary Color CorrectionSecondary Color CorrectionOther CorrectionsMixing Formats in Your TimelineRetiming Footage	114 .116 .119 122 124 128 .131 133
10	Working with Audio Add Music or Sound Effects Viewing Audio Clips Mixing Audio Enhancing Audio	138 140 .141 143 148
11	Outputting and Managing Your Project. Sharing Your Project. Burning to Disc. Exporting Your Project. Managing Projects and Media. Where to Now?	156 158 165 167 .171 175
	Index	1/6

Introduction

When we wrote the first book in this series—*From Still to Motion: A photographer's guide to creating video with your DSLR*—our intent was to explore the entire creative process from preproduction through postproduction. The feedback on that book has been overwhelmingly positive, as have your requests for more details and workflows.

We're glad to bring you the next book in this series— *From Still to Motion: Editing DSLR Video with Final Cut Pro X*—to make the editing and delivery processes easier. Final Cut Pro X offers a whole new way to edit, with an ease of use that opens the door for millions of new users. Up until now, editing DSLR video has been anything but easy—syncing sound, transcoding footage, fixing rolling shutter—but the "look" made it all worthwhile.

We wrote this targeted guide on editing DSLR video with Final Cut Pro X to help you generate results immediately. We wanted to strip away the many options and overly complex choices, and just focus on what a DSLR video shooter needs to become an editor. This book is for users of all levels who want to learn how to:

- > Import, analyze, and organize your footage and media
- Set up your projects correctly for any DSLR camera
- > Fix common problems like exposure, rolling shutter, and shaky video
- > Implement essential and advanced editing techniques
- > Work with synchronized sound and create compelling audio mixes

- > Correct color and exposure problems with your clips
- > Publish and share your productions to the Web and mobile devices

Meet the Cast

This book is truly a team effort, much like the video production process. Because video is a multifaceted undertaking, we've come together to guide you through the process of creating a professional video using Final Cut Pro X.

The Authors

Meet the three authors behind this book. We've collaborated on each chapter to bring you the best of our collective knowledge.



RICHARD HARRINGTON



Richard Harrington is a director/ producer with national PSAs and Ciné award-winning productions. He is also a certified instructor for Apple and Adobe, and an expert in motion graphic design and dig-

ital video. He is a regular contributor to Creative COW, *Photoshop User* magazine, and numerous industry blogs. He also owns the visual communications company RHED Pixel (www.rhedpixel.com) in Washington, D.C. Rich is a member of the National Association of Photoshop Professionals Instructor Dream Team, manages conferences for the National Association of Broadcasters, and has written and co-written a number of books, including *Understanding Adobe Photoshop* (Peachpit, 2010), *Photoshop for Video* (Peachpit, 2010), and *Video Made on a Mac* (Peachpit, 2009). You can contact Rich at:

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Abba Shapiro is a lead instructor for Apple's Pro Video Apps certified training program, certifying other instructors since the program's inception. He is also co-author of the advanced editing tips and

tricks book, *Final Cut Studio on the Spot* (Focal Press, 2007), with Richard Harrington and Robbie Carman.

Abba is an award-winning writer/producer/director with over 25 years experience in video and film production. He has done work for a wide range of commercial, corporate, and federal clients, including USA Today, The Associated Press, NASA, Univision, and the Department of Defense.

In addition to production, Abba has been teaching in the Washington, D.C. area and around the planet since the mid 1980s. He teaches a variety of broadcast editing tools, scriptwriting, Photoshop for video, and producing and production workshops at venues such as NAB, IBC, Macworld, Government Video Expo, and New York Post Production World. You can contact Abba at:

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ROBBIE CARMAN



Robbie Carman is a professional colorist who works on broadcast television series and independent films. He's part of the first generation of certified Apple Final Cut Pro instructors and Color. Rob-

bie co-wrote *Final Cut Pro Workflows* (Focal Press, 2007) with Jason Osder as well as *Final Cut Studio on the Spot* (Focal Press, 2007) and *Video Made on a Mac* (Peachpit, 2009) with Richard Harrington and Abba Shapiro. Robbie speaks internationally at conferences, such as the National Association of Broadcasters (NAB) and the International Broadcasting Convention (IBC). Robbie is the co-owner of Amigo Media (www.amigomediallc.com), a boutique postproduction company located in Washington, D.C. You can contact Robbie at:

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Documentary Photographer

Although there are many photos in the book, we had one principal photographer who helped us document the experience.

LISA ROBINSON



Lisa Robinson began her studies of photography in 1999 and immediately knew it would be a lifelong career. She began work as a print technician for Kodak and took any assistant jobs available while com-

pleting college. In 2005 she graduated Magna Cum Laude in Applied Media Arts & Photography from Edinboro University and started work with Apple, Inc. Her work with Apple put her in touch with the vast array of technology associated with digital photography and further cultivated her passion for beautiful images. Together with Ian Robinson, she founded SoftBox



Media in 2006 and began photographing weddings in the Washington, D.C. area and beyond. In 2008 she became a member of The Professional Photographers of America. Recently, Lisa's work has earned SoftBox Media the Bride's Choice Award 2010 from Wedding-Wire.com and TheKnot.com's Best of Weddings 2010 pick for photography in the D.C. metro area.

Music

We are grateful to Aaron Wold and the band Minimus the Poet for sharing their music and story with us. Please explore the band's website to hear more of their music.

MINIMUS THE POET



Minimus the Poet began as a solo project. The brainchild of Aaron Wold, a Baltimore transplant, has blossomed into an indie/folk quintet, and the band is making its mark on the Charm City scene.

Wold composed, performed, recorded, and produced the album $E \ S \ O$, which was released independently in

2009. The album received high praise from local media, and a small cult following began to develop. Due to increasing demand for live performances from





the fan base, Wold recruited some of the area's most talented musicians to lend their skills, and they took to the stage. Since their first live, full-band appearance, Minimus the Poet has performed at nearly every major venue in the Baltimore area, branching out into Western Maryland, Pennsylvania, and surrounding cities. In 2010, a sophomore release followed, titled *Married in the Mud*. The EP features five original tracks co-written and performed by the band.

Minimus the Poet has been described as "folk rock," and "experimental folk," mostly in response to the wide range of instrumentation evident on its recordings and performances. David Engwall rotates from banjo to mandolin to electric guitar. Melissa Thompson plays piano, accordion, and percussion. Matt Flanders plays bass and percussion. Wold plays both acoustic and electric guitar, and—most notably—the theremin. A wide range of percussive instruments and vocals garnish nearly every song in the band's repertoire.

Wold cites a wide range of musical artists as being influential—everything from 90s rock, including Gin Blossoms, Silverchair, and Radiohead, to contemporary bluegrass artists like Chris Thile. He is also inspired by classical thereminists, such as Clara Rockmore and iconic country artists Patsy Cline and Elvis Presley, and can be quoted saying, "It took a heavy dose of punk rock to get over my stage fright. I suppose I have Bad Religion to thank for that."

Minimus the Poet is currently working on a third studio release. Visit www.minimusthepoet.com for more music, videos, and information.

About the Lesson Files

In your hands is a book, but there are files that accompany these lessons. Here's how to download them.

- Visit www.peachpit.com/register to register your book.
- 2. Log in or create a new account at Peachpit.com.
- **3.** Enter this book's ISBN number: 0321811259.
- **4.** You will be given access to this book's download files.

You'll find different items included in the download:

- > The actual footage shot in this project
- > A video overview of Final Cut Pro X
- Additional resources on color correction and grading

What You Need

Welcome to a high-tech world. You won't need the latest and greatest, but we do have some strong recommendations. To complete the exercises in this book, you'll need:

- > Mac computer with an Intel Core 2 Duo processor or better.
- > Final Cut Pro X (Compressor also recommend).
- > 2 GB of RAM (4 GB of RAM recommended).
- > OpenCL-capable graphics card.
- > 256 MB of VRAM.
- > Display with 1280x768 resolution or higher.
- > OS X v10.6.8 or later.
- A high-speed hard drive with a FireWire or SATA connection for editing video files. Internal laptop or computer drives can work, but a performance drive (RAID) is highly recommended.



CHAPTER 4

Organizing Your Media

The act of video editing is not really

about learning which buttons to push. The hardest part of editing is learning how to cull through large amounts of footage to find the "good parts"—the best sound bites, the most expressive b-roll, and the shots that just work. Of course, you then have to figure out how to put all of those pieces together.

In a sense, the act of editing video is much like having ten different jigsaw pieces mixed together. You have to find the right pieces and figure out how they go together while ignoring the pieces you don't need.

Let's just say that getting organized will be a critical step in your journey to a compelling story. Fortunately, Final Cut Pro X has several tools that let you sort, sift, filter, and find the perfect shot. You can use embedded metadata as well as attach powerful keywords to improve your ability to locate the perfect shot.

In this chapter we'll explore the many ways to organize your media. Although you may want to skip ahead, we encourage you to tough it out. Learning how to organize an edit will make the whole process run faster and ensures that you'll have the best shots at your fingertips.



Examining Events

After you've imported media into events, you'll want to explore the content at your fingertips. Any video, audio, or still images that you've imported will appear as clips in one or more events.

Final Cut Pro X is very literal when it comes to your media inside an event. Each event in the Event Library has a matching folder on your hard drive. Inside each folder is the actual imported media (or an alias that points to the original file).

Sorting Events

As you import your media, you'll likely end up with multiple events. As you learned in Chapter 3, "Importing and Transcoding Your Media," it is common practice to organize events by factors like shoot date, client, or topic.





▲ Clicking the Action menu (which is shaped like a gear) gives you access to several different sorting methods for events.

You need to find a level of comfort with events, deciding how big you want each event to be and how broad a range each event should cover. For example, for the project we're using in this book, we're using a single, dedicated drive for the project, and footage will be grouped into three events: Concert, Interview, and B-roll.

As you work with events, it's important to use the many organizational tools offered by Final Cut Pro X. You can access all of the sort methods by clicking the Action menu (just look for the gear icon below the Event Library):

> Sort events by date. If you're working on a project that has many shooting days, sorting by date can be useful. Just click the Action menu and choose Group Events by Date. You can sort by Year, Year and Month, or choose not to group.



HIDING EVENTS

There are also many ways that you can choose to hide old or nongermane events in the Event Library. For example, you can unmount the drive that holds the media or move the event out of the Movies folder on your drive. We'll fully explore these workflows in Chapter 11, "Outputting and Managing Your Project."



WHY ARE MY EVENTS IN 1969?

It's very easy to have an incorrect creation date. Perhaps you didn't set the time on your camera or audio recorder when you changed batteries. Perhaps the clock was wrong on your computer. If you have one clip in your event with a different creation date, the event will automatically sort itself based on the oldest asset. For this reason we recommend not sorting events by date because it isn't always accurate. We choose either the Don't Group Events by Date option or Show Event Date Ranges for greater accuracy.



CHANGE THE CREATION DATE

A useful application for adjusting creation dates is A Better Finder Attributes from www.publicspace.net. Because this kind of tool alters the media files, it is best to use it before importing into Final Cut Pro.



◀ There are several ways to sort events. From left to right, Group Events by Disk, Group Events by Year, and Group Events by Month and Year.

- Sort events by storage location. Many choose to isolate clients or projects by hard drive. If you're using multiple disks or partitions, sorting by location is a good idea. Just click the Action menu and choose Group Events by Disk. This option can be combined with any of the date sorting options.
- Show event date ranges. If you want to see the full range of dates an event contains, you can choose Show Date Ranges in Event Library from the Action menu. This can help you easily find footage within events by date.
- Sort events by most recent. If you want to see the newest footage first, choose Arrange Events by Most Recent from the Action menu.

Viewing Events as a Filmstrip

If you are visually oriented, you'll find the Filmstrip view very useful. By displaying the event as a filmstrip, you can see several frames that represent the contents of your footage. For many, this is the easiest way to visually browse media (especially because clips from DSLR cameras lack descriptive names).

 If a List view is shown, click the "Show clips in filmstrip view" button near the bottom of the Event Browser.



 Drag the duration slider to adjust the number of frames shown for each clip's thumbnail in the Event Browser. You can also press Shift+Z to zoom to fit each clip to a single thumbnail. Usually, setting the duration to 5–10 seconds works well. But your mileage may vary depending on the type of footage and length of shots you are working with.



3. If you want to adjust what's shown in each thumbnail, click the Clip Appearance button at the bottom-right corner of the Event Browser. You can adjust the height of the clip as well as disable the audio waveform.



Viewing Events as a List

If you prefer to organize your footage by file details like creation date, duration, or keyword, you'll find the List view useful. Although the List view is mostly filled with sortable columns, there is a large filmstrip preview at the top of the window. This filmstrip allows full access to all of the media as well as the ability to use markers and keyword ranges.

 If a Filmstrip view is shown, click the "Show clips in list view" button near the bottom of the Event Browser.



 To customize which columns are viewable, Control-click on any column heading and choose a category option from the menu.

Minimus_HQ 00:00:0 Auto Size Column Auto Size All Columns 00:00:0 Hide Column			
_Minimus_HQ	Start 00:00:0	Auto Size Column Auto Size All Columns	
Minimus HQ	00:00:0	Hide Column Show Default Columns	
Minimus HO	00:00:0	Show All Columns Hide All Columns	
	00:00:0	Start End	
_Minimus_HQ	00:00:0	Content Created	

3. To rearrange columns, click a column heading and hold. You can then drag a column left or right if you prefer a different order.

	End	Duration N	Content Create
00:00	00:00:01:01	00:00:01:01	Jul 31, 2010
00:00	00:00:01:03	00:00:01:03	Jul 31, 2011
17:33	05:17:34:12	00:00:01:12	Jul 30, 2010

4. To sort a column, click its heading.

You can click a second time to toggle between ascending and descending sort order.

e -		Duration	Content Create
00:00	00:06:30:03	00:06:30:03	Jul 31, 2011
00:00	00:05:54:18	00:05:54:18	Jul 31, 2010
00:00	00:05:43:16	00:05:43:16	Jul 31, 2011

5. To view a clip's rating or keywords, just click the disclosure triangle to the left of the clip's name.

■ MVI_3161	00:00
😋 Concert Shoot, Rich Card3 Concert	00:00
■ _DSC9120	00:00
😋 Concert Shoot, Rich Card2 Concert	00:00
■ 2010-07-30 19:02:07	05:17

Sorting Clips within Events

As you continue to review your events, it's easy to become overwhelmed by all your footage (especially with a big project). Fortunately, Final Cut Pro X offers several additional ways to refine how your events display clips. Much like sorting events, you can sort clips within an event. It all begins by clicking the Action menu:

- Group Clips By Category. You can choose Group Clips By and select from several methods, including Reel, Date, Scene, Duration, File Type, and more. You can set the order to Ascending or Descending from the same submenu to create a hierarchy. We find that grouping by File Type is extremely useful because it groups audio, video, and graphics separately.
- > Arrange Clips By Category. You can also arrange clips by Name, Take, Duration, and Content Created. We find the last method (Content Created) useful because it sorts clips in order of creation. If you've manually renamed media, the Name option is also useful. Arrangements can also be sorted in Ascending or Descending order.



▲ Grouping by category is a useful way to organize your media.



◀ The J-K-L keys will quickly become an integral part of your keyboard controls.



THE BEST OF BOTH

You can use both a Group and an Arrange method to sort clips independent of each other. Using these arrangement features makes it much easier to find clips.

Examining Clips

Now that you have control over sorting your clips, it's time to actually watch your media. The process of reviewing or skimming your footage will make it easier to tag footage with keywords and roles, as well as help you find the best shots.

Taking the time to review your footage and annotate it greatly improves your end results. When an event is selected in the Event Library, you can view its clips in the Event Browser. This is the first step toward viewing and organizing your footage.

Viewing Individual Clips

When you've located a clip in an event, you have several ways to view its contents. It's important that you learn how to use the dynamic preview capabilities of Final Cut Pro X to speed up your edit workflow.

There are two primary tools that you'll use for playback and previewing: the playhead and the skimmer.

PLAYHEAD

The playhead indicates your current position within a project. The playhead appears as a thin, gray vertical line. Generally, the playhead is static, but you can reposition it by clicking in a clip or your Timeline. The playhead does move when you click Play to indicate progress as a clip or Timeline plays back.

Here are a few tips to control playback:

- > Press the spacebar to start or stop playback.
- > To play a clip from its beginning, press Shift+Control+I.
- To play just a part of a clip, click and drag the yellow handles to define a frame range.
 Press the Forward Slash (/) key to play just the selected part of the clip.
- If you do not select a range, you can still press Shift+Forward Slash (/) to play two seconds before and after where the playhead is parked.
- > You can use the J-K-L keys to control playback:
 - > Press L to play forward.
 - > Press J to play backward.
 - > Press K to pause the video clip.
 - To double the playback speed, tap L or J twice. Tap again for further incremental speed changes.

- > To move the playhead one frame at a time, hold down the K key and tap J or L.
- > To move the playhead in slow motion, hold down the K key while pressing down J or L.



WANT TO THINK ABOUT IT?

If you want to keep playing a clip over and over again to closely study it, that's easy. Just press Command+L to toggle looping on or off.

SKIMMER

Another method for previewing clips is the skimmer. Using the skimmer lets you move the mouse to freely preview a clip without affecting the playhead position. The benefit of the skimmer is that it lets you quickly review several frames in a clip by simply moving the mouse (all without losing your current position).

The skimmer appears as a thin, pink vertical line as you move the pointer across the clip. The skimmer temporarily turns orange if snapping is enabled and the skimmer snaps to a position. Snapping makes it easier to drag between markers and In points, for example.





THE TROUBLE WITH SKIMMING

When it comes to skimming, you'll either love it or hate it, or sometimes both. The good news is that you can enable or disable skimming easily. You can turn off all skimming by pressing S or audio skimming only by pressing Shift+S.



SWITCH FROM SKIM

If you want to play a clip while skimming, just press the spacebar. The playhead will jump to the skimmer position and start to play.

Renaming Clips

By default, DSLR media has pretty useless filenames (they're not unique, and it's very easy to have duplicate filenames). Even if all your files have different names, how useful is a name like MVI_04567.mov? Fortunately, you can easily rename clips within your event. You can rename clips in the Event Browser or in the Info inspector anytime you want. Note that when you rename a clip in Final Cut Pro X, it *does not* rename the source media file on your disk. Here are a few ways you can rename clips:

- > Rename a clip in the Event Browser in Filmstrip view. If you're in Filmstrip view, simply select a clip's name and type a new name.
- > Rename a clip in the Event Browser in List view. If you're in List view, simply select a clip's name, press Return, and then type a new name.
- > Rename a clip in the Info inspector. Select a clip in the Info inspector by clicking the Inspector button in the toolbar. Click the Info button at the top of the pane that appears. You can then click in the Name field and type a new name.

Organizing Clips with Roles

When you import clips into Final Cut Pro X, the application automatically assigns metadata text labels. These labels are based on one of five default roles: Video, Titles, Dialogue, Music, or Effects. You can also create custom roles and further refine with subroles that you can manually assign to clips. For example, you can assign the role of Interview to all of your sound bites to easily separate them from the rest of your footage.



WHAT A NAME DOES

When you rename a clip, it only affects the one instance of the clip. For example, if you copy a clip from one event to another and then rename one of the clips, only the modified clip will change. Every instance of a clip can have its own name. Apple has positioned roles as the primary way to identify related elements when working in the Timeline and when exchanging data with an XML file. Roles should continue to play a more important part as Final Cut Pro X continues to evolve and share media with other applications.

SETTING UP ROLES

A good place to start to set up roles is to open the Roles Editor. Choose Modify > Edit Roles to see the current roles and subroles you've set up. Roles are globally defined for the application, so you cannot have different roles for different projects.

To create a new role, follow these steps.

 To add a new role, click the Assign New Role button at the bottom-left corner of the Role Editor window.



- 2. Choose to add a New Video Role or New Audio Role.
- **3.** Click on the new role and enter a new name.

You can also add subroles to further refine a role category. For example, you can split the Video role into smaller categories like b-roll, behind the scenes, reenactment, and so on to make it easier to categorize your footage. Creating subroles is easy.

1. Click a role to select it.



- **2.** Click the Subrole button at the bottom center of the panel.
- **3.** Click on the new subrole and enter a new name.



THE RULES

Keep in mind that there are a few rules when it comes to using roles:

- > Every clip must have at least one assigned role.
- > If a clip has audio and video, it will always have one audio and one video role.
- > You cannot assign a video role to audio-only clips or an audio role to video-only clips.
- > Roles cannot be assigned to a clip range or a portion of a clip.
- > You can assign different roles to each instance of a clip. For example, a clip in the Timeline can have a different role assigned in an event.
- > To delete a subrole or a custom role, just click to select it and press the Delete key. You cannot delete the original five roles, however. You'll also need to make sure that no clips are assigned to a subrole in your events. Once cleared, the role or subrole will no longer appear as an option when you relaunch the application.

ASSIGNING ROLES

You can assign roles to clips at any point in your editing. In fact, you can assign a role in the Event Browser, the Info inspector, the Modify menu, or the Timeline Index. Here's how: > View and reassign roles in the Event Browser. With one or more clips selected in the Event Bowser, you can use the Roles column. Make sure you are in List view and that you can see the Roles column (if it's not visible, Controlclick a column head and choose Roles). You can then click the assigned role for a clip to see a shortcut menu listing the available roles. Simply choose additional roles that you want to assign.

Duration	Content Created	Notes	Roles	
00:04:58:16	Jul 31, 2011 7:50:22 PM		Video, Dialogue	
00:05:01:12	Sep 24, 2011 10:16:17 AM		Video. Dialoque	
00:05:04:15	Jul 30, 2010 8:32:11 PM		Video	^TCV
00:05:10:22	Sep 24, 2011 9:43:31 AM		New Subrole	^TT
00:05:11:15	Jul 30, 2010 8:19:19 PM			
00:05:14:16	Sep 24, 2011 9:41:19 AM		Dialogue Music	~~~M
00:05:36:17	Jul 31, 2010 2:41:38 AM		V Effects	ATE
00:05:41:12	Sep 24, 2011 3:26:45 PM		Edit Roles	
00:05:43:16	Jul 31, 2011 7:58:38 PM		Video, Dialogue	

> View and reassign roles in the Info inspector. With one or more clips selected in the Event Bowser or Timeline, you can use the Info inspector. If it's not visible, click the Inspector button in the toolbar and click the Info button at the top of the pane that appears. You can click in the Roles field to choose from available roles.



- If the Roles metadata is not visible, click the View button at the bottom of the pane and choose Edit Metadata View. You can then use the search field and enter roles. Select the Roles field to add it to your view.
- > View and reassign roles in the Modify menu. An easy way to assign roles is to use the Modify menu. With a clip selected, simply choose Modify > Assign Roles, and choose a role from the submenu. Once selected, a check mark appears next to the roles in use.

- > Use keyboard shortcuts. If you want to assign roles using the keyboard, that's possible too:
 - > Video (Control+Option+V)
 - > Titles (Control+Option+T)
 - > Dialogue (Control+Option+D)
 - > Music (Control+Option+M)
 - > Effects (Control+Option+E)
- > View and reassign roles in the Timeline Index. After you've added clips to a Timeline, you can assign roles. This function is often used to help assign track-based output for files (such as when going to tape). You can also use roles to help you isolate clip types in your Timeline (even making entire roles invisible by deselecting them).
- > Open the Timeline Index by pressing Command+Shift+2. View your clips in use by clicking the Clips pane at the top of the Timeline index. Use the Roles column to add roles to your clips (if it's not visible, just Control-click on the heading and choose Roles from the menu). You can then click on a role and add or edit assigned roles.

Managing Your Event Library

Now that you understand the value of events as an organizational tool, it's important to know how to manage your Event Library. There are several ways to merge, split, and rename events.

Merging Events

If you end up with too many events, you can quickly merge two or more events into a single event. This makes sense if you have two events with media that is closely related (such as by client or topic). There are two ways to merge events:

- > You can select multiple events that you want to combine, and choose File > Merge Events. In the Merge Events window, give the event a new name, choose a disk where you want to store the event's source media files from the Location menu, and click OK.
- > You can create and name a new event, and then drag one or more existing events into the new (empty) event.

Splitting Events

If you find that an event is getting too big to manage, you can split it into two events. There are two strategies you can employ to make this task simple:

- > You can create a new event and drag the media from its current event into a new event. The original media files (or aliases) on your disk will be moved into the new Events folder.
- > You can choose to create a duplicate event and modify it by highlighting the desired event and choosing File > Duplicate Event. You can then go through the event and delete any unwanted clips. Simply select an unwanted clip (or clips) and press Command+Delete to remove it from the event and your disk. Be careful not to just press Delete (which seems natural): Instead of removing a clip, you will just mark the clip as "Rejected."

Copying Media Between Events

When you want to have a clip appear in two events, you can copy it. This will place a version of the clip in both events, which means that files are duplicated on disk. To copy the clip:

- > If the event is on the same disk, hold down the Option key when dragging.
- > If the events are on different disks, simply drag.

You'll know that a copy is occurring if a green circle with a plus symbol appears next to the clip's name when dragging.

Moving Media Between Events

When you want to take a clip from one event and put it in another, you can choose to move it. This means that the file will actually be removed from one folder on your disk and relocated to another. To move a clip:

- > If the event is on the same disk, simply drag from one event to another.
- > If the events are on different disks, hold down the Command key when you drag.

You'll know that a move is occurring if no symbol appears next to the clip's name when dragging. It's important to note that this actually moves the clip from one drive to another at the Finder level. This could be dangerous if you are sharing media.



WHAT'S THE WAIT?

Keep in mind that when you copy or move media, files are actually transferring in the background. If you are managing a lot of media, it can take a few minutes to complete the task of copying or moving the source files from disk to disk.



◀ The plus symbol indicates a copy command is in progress.



▲ The lack of a plus symbol (number of files is in a red circle) indicates that a Move command has been invoked.

Rating Clips

Now that you've figured out how to browse your events and organize your content, it's time to start making decisions. You need to rate your clips so you know which ones you want to use and which ones you should ignore. Final Cut Pro X has a three-choice system of ratings.

- > All clips come in at a neutral state.
- > You can then mark your favorite clips (or star them) to be sure to use them.
- > You can also reject a clip and hide it to avoid using footage that is subpar.

Marking Favorite Clips

As you review your footage, you'll want to take the time to mark the best shots you want to use, making it easier to find those shots while you're in the middle of an editing session (especially if the client is in the room). Marking favorites gives you a quick way to isolate your best footage.

1. In the Event Browser, select a clip, or multiple clips, you want to rate.

You can also use the Select tool to choose a range (part) of a clip. This is similar to the process of creating a subclip.

2. Press F or click the Favorite button in the toolbar.

A green line appears at the top of the frames you've marked as Favorite in the Event Browser.



YOU'RE NOT MY FRIEND ANYMORE

If you change your mind about a Favorite ranking, that's easy to amend. Just press the U key (for un-favorite) or click the Remove Ratings from the Selection button in the toolbar. To quickly reselect just the range, click the green bar or red bar.



► The green bars indicate regions that have been marked as favorites. The red bar shows a clip that has been rejected.





WHAT ABOUT SUBCLIPPING?

In many editing programs you can mark an area of a longer clip and save it as a sub-

clip. This is often used in a long interview to split the response to each question into separate clips that are easier to organize. In Final Cut Pro X you can use the Select tool to choose a range inside a clip (by dragging). A range can then be marked as a favorite. Select the favorite in your event and press Return to edit its name. You can also use the Notes column to tag the favorite with additional details to help you when editing.

Rejecting Clips

Just as you mark your best clips, you should also take the time to reject those shots you want to avoid. The Rejected rating should be used for shots that contain soft focus, bad performance, or garbled audio.



▲ Remember that Delete rejects a clip, whereas Command+Delete throws it in the trash (these are the same shortcuts used in the Finder). **1.** In the Event Browser, select a clip, or multiple clips, you want to rate.

You can also use the Select tool to choose a range (part) of a clip.

2. Press Delete or click the Rejected button in the toolbar.

A red line appears at the top of the frames you've marked as Rejected in the Event Browser.

Removing Ratings

If you want to remove the rating from a clip, it's pretty simple. At the top-left corner of the Event Browser, click the Filter menu and choose the All Clips option to ensure that you are seeing all of your footage. You can then press U or click the Clear Rating button in the toolbar. This removes the green or red line at the top of the clips in the Event Browser.

Filtering Clips

Ratings are very useful for several tasks. You can use the Filter menu in the Event Library or corresponding keyboard shortcuts to adjust your view. This makes it easier to edit by removing substandard shots. It's also a great way to clean up an event.



▲ The view on the left is the standard icon view of the event in All Clips mode (Control+C). On the right, only Favorites are shown (Control+F).

Here are a few ways to get organized using the Filter menu:

- > You can choose to display just the clips that are marked as Favorites by pressing Control+F.
- > If you want to hide the Rejected clips, press Control+H.
- If you need to free up disk space, press Control+Delete to see only your Rejected clips. You can then select this media and press Command+Delete to remove it from the event and your hard drive. For more information, see "Deleting Footage" at the end of this chapter. Just be careful; if a media file contains both Favorite and Rejected ranges, all the media is discarded with this method.



▲ The purple keywords are generated by Final Cut Pro X when you analyze imported media. The blue keywords were added on import or using the Keyword Editor.

Adding Keywords to Clips

Another tool at your disposal for organizing media is the use of keywords. You can use two types of keywords when working in Final Cut Pro X:

- > Analysis keywords. Final Cut Pro X can automatically generate keywords when you analyze clips for common problems. This can be done on import or after the fact when you select clips in an event and choose Modify > Analyze and Fix.
- > Manually added keywords. You can also review clips and choose to add keywords of your own design. This is a great way to get organized based on repeating themes or logical groupings.



NEED MORE DETAILS?

Keywords are very useful, but sometimes you'll want more details. When working in List view for an event, you'll find a Notes column. Here you can add detailed information about a clip. Notes can also be assigned to any Keyword or Favorite ranges by clicking the disclosure triangle and then clicking in the Notes column for each item.

Assigning Keywords

Adding keywords is a very straightforward process (and one that will seem familiar if you use iPhoto or Aperture). Make sure you either watch your footage playback in real time or use the skimmer to quickly browse.

- In the Event Browser, make a selection. You can choose a range, an entire clip, or multiple clips that you want to add keywords to.
- **2.** Click the Keywords button in the toolbar to open the Keyword Editor.



- 3. Enter a word or phrase that you want to use as a keyword for the selected clip(s) and press Return.
- 4. Continue adding keywords or keyword phrases as needed.

8	Keywords	for selection
▼ Key	word Shortcuts	
~1	Singer	^ 6
^2	Performance	~7
^3		^ 8
~4		^ 9
^5		A Remove All Keywords

A blue line appears at the top of the selection in the Event Browser, which indicates that keywords are in use for the clip or range.

5. When you're finished adding keywords, simply close the Keyword Editor.

As you continue to add keywords to your clips, you'll see more Keyword Collections appear in the Event Library. A Keyword Collection is essentially a group of pointers (aliases) to clips that you have tagged with a specific keyword.

Using Keyword Shortcuts

Another quick way to add keywords or keyword phrases is to use keyboard shortcuts. You can have up to nine shortcuts loaded globally (not per event). However, removing a shortcut does not affect clips you've already tagged. You can freely adjust your shortcut keys without affecting your previously processed footage.



MULTIPLE KEYWORDS

You can add multiple keywords to a shortcut register. Just press Tab and enter the new keyword. The shortcut will then apply multiple keywords with a single click.

Here's how to use keyword shortcuts.

- 1. If it's not already open, click the Keywords button in the toolbar to open the Keyword Editor.
- 2. If the shortcuts aren't visible, click the disclosure triangle to the left of Keyword Shortcuts in the Keyword Editor.
- 3. Click in a field next to a shortcut (1–9) and enter a phrase or keyword in a shortcut field. Press Return to capture the change.
- 4. To use a keyword shortcut, select a range or one or more clips that you want to modify.
- 5. Press Control and the corresponding number key (1 through 9) to assign a keyword or keyword phrase.

Removing Keywords

If you need to remove a keyword, you can do so in two ways. You can remove individual keywords or all keywords:

> Remove individual keywords. If you need to delete a keyword from a clip, just select it and open the Keyword Editor. You can then select and delete any keywords in the top field to adjust the clip or selection.



Keywords were automatically added because the Import Folders as Keyword Collections option was selected. In this case a few clips were tagged incorrectly because the Director of Photography had footage from two days of shooting on one card.

 Remove all keywords from a clip. In the Event Browser, select one or more clips. Then choose Mark > Remove All Keywords (Control+0).

Filtering Clips

Now that you've taken the time to organize your footage into events, apply keywords and ratings, and analyze your footage, you have a lot of information to work with. Learning how to use the Filter commands will give you greater control while editing.

Search for Clips By Clip Names and Notes

Located at the top of the Events Library is the search field. This is a useful way to search for clips by name or by any notes you've added. Simply select one or more events you want to search in the Event Library (Command-click for multiple events). Then in the search field enter a text string you want to search for. To remove a search, just click the small x at the right of the field.

Search for Clips By a Combination of Criteria

Although the search field is convenient, using a combination of criteria lets you quickly find the clips you're looking for. You can use multiple criteria to search with the Filter window. Categories include clip name, rating, media type, excessive shake, keywords, the presence of people, format information, date, and role.

- **1.** In the Event Library, select the event or folder you want to search.
- **2.** Click the Filter button at the top-right corner of the Event Browser.

► You can select unwanted keywords in the Keyword Editor and press Delete to remove them.

► Use the Search field (in the upperright corner of the browser) to search the Name and Notes columns.





- In the Filter window, select search criteria, or rules. You can add additional rules using the Add Rule menu:
 - > **Text.** Find clips by their name or search any notes applied to them in List view.
 - > **Ratings.** Find clips based on the rating assigned.
 - > Media Type. Search for clips whose source media files are of a specific type (video, audio, or stills).
 - > **Stabilization.** Hide or show video clips that Final Cut Pro has identified as having excessive shake.
 - > Keywords. Search for one or more keywords.
 - > **People.** Find clips that Final Cut Pro X has identified as having people in them if you analyzed your clips.
 - > Format Info. Search by frame rate, reel, take, scene number, and other criteria.
 - > **Date.** Search by creation or import date, as well as apply logical rules to help specify an exact match or a range of dates.
 - > Roles. Find clips by their assigned roles. Earlier in the section "Organizing Clips with Roles," you learned to assign custom roles and subroles, as well as how certain roles are automatically added.
- 4. You can refine a search by applying additional rules. You can specify that a search must match at least one criterion or that all criteria must be met. Just use the menu in the upper-left corner and choose All or Any.
- When you're done with a search, click the Reset button to the right of the search status icons in the upper-right corner of the Event Browser.





▲ By refining the Filter controls, the clips were narrowed down to only those that contained the keyword mixer, were marked as favorites, and did not have excessive shake.

Using Smart Collections

The powerful search criteria in Final Cut Pro X really let you drill down through many clips to find the results you need. To make it easier to search, Final Cut Pro X lets you save your search results as a new Smart Collection. Clips that appear in Smart Collections are not duplicate media. Rather, Smart Collections filters clips in an event, which helps you focus on the clips needed for a specific task.

CREATE A SMART COLLECTION BASED ON SEARCH CRITERIA

To create a Smart Collection, select an event in the Event Library to begin.

- **1.** Use the Filter window to perform a criteria-based search.
- Click the New Smart Collection button in the Filter window to add an untitled Smart Collection in the Event Library.
- Type to enter a new name for the Smart Collection, and press Return.

Whenever you add clips to an event that match the Smart Collection's search criteria, they will be automatically added to the Smart Collection.

CHANGE THE CONTENTS OF A SMART COLLECTION

After you've created a Smart Collection, you can still modify it.

- 1. Double-click a Smart Collection whose contents you want to change.
- 2. In the Filter window, modify the search criteria.
- **3.** Close the Filter window to update the Smart Collection.

DELETE A SMART COLLECTION

If you decide that you no longer want a Smart Collection, select it and choose File > Delete Smart Collection (or press Command+Delete). This removes the Smart Collection from the Event Library but does not delete the associated clips.



▲ By storing a set of filter results as a Smart Collection, you make it easy to find your footage while in the midst of future editing sessions.

Deleting Footage

As you continue to edit your footage, you may decide to delete footage from an event. Unlike previous versions of Final Cut Pro (and most other nonlinear editing tools), deleting a clip from an event actual *does* move the source media to your computer's trash.

Deleting Media

If you want to remove individual clips, just select them in an event. Then choose File > Move to Trash (or press Command+Delete). If you're sure you want to permanently get rid of them, switch to the Finder and choose Finder > Empty Trash.



It's important to note that only media inside events will be trashed. If you did not copy the data into the event on import, the original media remains on your disk. For this reason, we do not select the Copy files to Final Cut Event folder option on import. In this workflow you'll delete the aliases that point to the media, but your original camera files will remain on disk. This workflow works well because the media might be in use in another project or another editor may need it (also, there's no danger of trashing your original media files).

If you're not sure you want to commit to deleting media, just reject it, and then choose Hide Rejected. You can easily recover rejected clips by removing the rating from the clip.

Deleting Events

Another option when cleaning up is to delete an entire event. This technique should not be used often because it is a quick way to clear off several clips that you no longer need. Typically, you'll want to back up or archive your media first, however. Be sure to read Chapter 11 to learn about managing projects and media before you start throwing away events or clips.

- **1.** Select an event or multiple events in the Event Browser for deletion.
- Choose File > Move Event to Trash (Command+Delete).



DANGER! DANGER!

If you move items to the trash and then empty the trash, those clips (and all their metadata) are gone for good. After you empty the trash, the deleted clips or event and all their source media files that previously resided in the Final Cut event cannot be recovered.

Index

5.1 surround channel, configuring, 146
7.1 surround channel, configuring, 146
24 fps frame rate, 5
25 fps frame rate, 5
30 fps frame rate, 5
50 fps frame rate, 4
60 fps frame rate, 4
720p video formats, 6
1080 video formats, 6
1280 × 720 HD standard, 4
1920 × 1080 HD standard, 4

Α

advanced editing commands. See also edits: trimming edits adding audio only, 99 adding video only, 99 deleting ranges, 99-100 isolating clips during editing, 100-101 Overwrite edit, 96-97 Replace edit, 97-98 All Clips mode, 47 aperture, explained, 7-8 Aperture application importing footage from, 32 using, 86 Appearance button, using with waveforms, 142 Append to End Edit command, 83 Apple applications, sharing with, 158-159 Apple Compressor, bringing media into, 35 Apple devices, transferring to, 160 - 161Apple Mail, using to send video, 161 Apple ProRes options, choosing, 35 archives. See also camera archives Blu-rav Discs, 21 DVD-ROM. 21 archiving data, 15 audio adding only, 99 analyzing, 27, 148, 150 collapsing, 142 detaching, 113, 142 dual system sound, 10, 66-67

enhancing, 148, 150, 152-154 internal microphone, 9 mixing, 143–148 monitoring, 9 moving. 89 on-camera microphone, 9 pre-amps, 9 removing silent channels, 27 Reset button, 27 Audio Animation Editor, showing and hiding, 150 audio clips. See also clips matching, 153 muting, 145 resetting, 147 showing expanded, 142 soloing, 144 syncing with video, 67-73 un-matching, 153 viewing, 141-142 audio crossfade, adding, 113 audio effects applying, 154 resources for. 153 using keyframes with, 154 Audio Enhancements Inspector, 150 Background Noise Removal, 148 Hum Removal, using, 148 Loudness effect, 148 audio fades creating, 147-148 crossfades, 147 fade handles, 148 audio levels, adjusting, 146 audio meters, using, 143-144 audio modification Audio Inspector, 147 Modify menu, 147 Timeline, 146-147 audio problems, analyzing and fixing, 27 audio properties, defining, 59 audio sync point, spotting, 69 audio waveforms. See waveforms auditioning music, 149 auditions, grouping clips into, 98 AVCHD codec. 7 importing media, 32-34

В

Background Tasks window, opening, 25 backing up in Finder, 172 projects, 60 backup workflow archiving data, 15 mounting memory cards, 14 transferring field drives, 14 transferring footage, 14 balance color, analyzing video for, 26 Blu-ray discs burning to, 166-167 creating archives, 21 burning to disc, 165-167 Blu-ray, 166-167 DVD, 165-166

С

camera archives. See also archives creating, 30 importing media from, 32-34 Open Archive command, 34 selecting clips in, 33 camera settings codec, 5, 7 frame rate, 4-6 frame size, 4 resolution. 4 cameras, syncing, 71-73 card readers bus power, 17 portable, 17 slots, 17 speed. 17 cards. See memory cards channels, configuring, 145–146 clip analysis, 27 clip items, breaking apart, 146 clip speed, changing, 133-135 clips. See also audio clips; connected clips; gap clips; moving clips; placeholder clips analyzing after importing, 116 Arrange method, 41 arranging in Timeline, 82-90 assigning keywords to, 48-49 assigning roles, 43-44 Auto Balance option, 117–118

changing timing between, 103-104 connecting to projects, 82 deleting from Timeline, 99-100 disabling groups of, 100–101 displaying timecode for, 80, 88 extending lengths of, 102-103 filtering, 47-48, 50-51 Group method, 41 grouping into auditions, 98 inserting into projects, 82 isolating during editing, 100–101 lengthening, 104 managing in events, 28 marking favorites and rating, 46-48 nudging with keyboard shortcuts, 88-89 overwriting, 96-97 overwriting with Position tool. 89-90 playhead, 41-42 playing from beginning, 41 previewing, 41-42 rejecting, 47 removing, 82-85, 99 removing ratings, 47 renaming. 42 replacing, 97-98 reversing, 136 searching for, 50–51 selecting, 33, 80 shortening, 104 skimmer, 42 soloing, 100 sorting within events, 40-41 subclipping, 47 synchronization order, 68 syncing automatically, 67-68 trimming start and end of, 104, 106 viewing, 41, 69, 78 zooming in. 69 codecs, 5, 7 AVCHD. 7 H.264.7 Motion JPEG. 7 color, adjusting, 124 color board accessing, 122 areas of, 122 moving selected controls, 122 color correction, 120-128. See also corrections Analyze for Balance Color, 117 analyzing clips, 116-117 auto balancing color, 117-118

auto matching color and look, 118-119 on computer monitor, 137 exposure, 122 saturation, 123 Shape Masks, 126-127 speeding up, 124 color grading, resource for, 116 Color Masks combining with Shape Masks, 128 using, 124-126 color theory, resource for, 126 color tint, adding or removing, 124 Command key. See keyboard shortcuts compound clips, 67 Compressor. See also sharing projects exporting with, 170 sending projects to, 169 computer. See also portable computer connectivity, 16 selecting, 15-16 computer monitors, color correction on, 122 Connect edit, performing, 83-84 connected clips. See also clips deleting items from Timeline, 100 moving, 87 connectivity, considering, 16 copving files to Final Cut Events folder. 24 markers, 110 project files, 172 corrections. See also color correction cropping footage, 130-131 rolling shutter, 129 saving presets, 123 stabilizing footage, 129 COW forums, 175 cropping footage, 130-131 cross dissolve, adding, 112 crossfades, adding, 147

D

date, searching for clips by, 51 deleting clips from Timeline, 99 events, 53 footage, 53 keywords, 31, 49–50 media, 53 projects, 63 ranges from Timeline, 99 render files, 172–173 transitions, 113 video properties, 59 Dialogue role, 42, 44 disc, burning to, 165–167 disk images benefits. 18 creating on portable drives, 18-19 file protection, 18 file size, 19 importing data, 31 remounting memory cards, 18 using, 31 Disk Utility application, accessing, 18 dragging clips, 87 drives, dragging between, 60. See also portable drives drop frame timecode, 58. See also timecode DSLR syncing, 11 DSS (dual system sound), 10, 66-67 DualEyes, syncing footage with, 75 Duration slider, adjusting, 78, 80 DVD burning to, 165-166 creating archives, 21

Е

edit points, nudging with keyboard, 103 edit types, 82 Append to Edit, 83 Connect edit, 83-84 Insert edit, 83 editing drive connectivity, 20 **RAID. 20** speed. 20 transferring media to, 21 edits. See also advanced editing commands; Overwrite edits; trimming edits adjusting timing of, 102 trimming, 101-108 Effects Browser, filtering effects in, 154 effects role, 42, 44 email, attaching movie files to, 161 equalization adjusting, 152 matching audio clips, 153 Event Browser reassigning roles in, 44 selecting ranges in, 81 using. 92 using markers in, 109 viewing roles in, 44 Event folder, contents of, 28, 171. See also folders

Event Library, managing, 44-45 events best practices, 28 changing creation date, 38 copying media between, 45 creating, 29 deleting, 53 grouping, 28 hiding, 38 managing clips in, 28 merging, 44-45 moving media between, 45 naming. 28 organizing, 28 renaming, 29 showing date ranges, 39 sorting, 38–41 splitting, 45 viewing as filmstrips, 39 viewing as lists, 40 Export Media option, accessing, 164 exporting audio-only files, 168 with Compressor, 169-170 master files, 170 movie files, 164, 167-168 still images, 168-169 using Compressor settings, 170 exposure, adjusting, 122 exposure triangle aperture. 7-8 ISO. 7-8 shutter speed, 7-8

F

Facebook, publishing projects to, 163-164 fade handles, using with audio fades. 148 favorites making selections with, 81 marking and unmarking, 46 Favorites keyboard shortcut, 47 field drives, transferring to media storage, 14 files. See also project files importing, 30 storage of, 171 Filmstrip view displaying clips in, 69 displaying events in, 39 working in, 78-80 filmstrips displaying detail in, 78 shortcuts. 80

filters, making selections with, 81 Final Cut Events folder, copying files to. 24 Final Cut Pro, 7 versus X, 57 Finder, backing up in, 172 finding people, analyzing video for, 26 folders. See also Event folder importing as Keyword Collections, 24 organizing Project Library with, 61 footage. See also synced footage appearance of, 116 backing up. 21 checking in Inspector, 58 cropping, 130–131 deleting. 53 importing, 32 offloading, 18 retiming, 133-134, 136 stabilizing, 129 transferring to field drives, 14 formats, mixing in Timeline, 131-133 frame rates, 4-6 24 fps, 5 25 fps, 5 30 fps, 5 50 fps. 4 60 fps. 4 avoiding mixing, 5, 57 choosing. 5 conforming, 132-133 considering, 57 displaying, 5 getting details about, 58 frame size, 4 conforming, 131-132 considering, 57 getting details about, 58 freeze frames, creating, 136 From Still to Motion page, 175

G

gap clips, using, 84–85. See also clips graphic conversion, 26 graphics card, upgrading, 25

Н

H.264 codec, 7 hard drives, importing media from, 30–31 HD standards, 4 Histogram, using, 121 hold frames, creating, 136 Hum Removal, using, 148

L

image editing applications, using, 86 Image Products website, 18 images, accessing, 92. See also still images import methods Aperture, 29 camera archive. 20-30 direct connect, 29 iPhoto, 29 removable media, 29 Import Preferences analyzing audio, 27 analyzing video, 26 graphic conversion, 26 organizing, 24 transcoding, 25, 35 importing media Aperture, 32 AVCHD. 32-34 camera archives, 32-34 digital files. 30 hard drives. 30-31 iPhoto, 32 memory cards, 30-31 In and Out points, adjusting with Slip edit, 106-107 Info Inspector reassigning roles in, 44 viewing roles in, 44 Insert edit, performing, 83 Inspector, checking footage in, 58 interlaced scanning, 6 interviews, syncing automatically, 70-71 iPhoto importing footage from, 32 using, 86 ISO settings, 7-8 iTunes, sending projects to, 160-161

Κ

Ken Burns crop, described, 131 keyboard shortcuts All Clips mode, 47 Background Tasks window, 25 Balance Color, 118 Collapse Audio/Video, 142 Color area on color board, 122 cross dissolve, 112 Disk Utility application, 18 Export Media, 167 Exposure area on color board, 122 Favorites, 47 gap clips, 84

importing files, 30 Match Color, 118 moving audio, 89 nudging clips with, 88-89 nudging edits, 103 placeholder clips, 85 playback, 41 Replace edits, 97–98 Ripple edit, 102-103 roles, 44 Roll edit, 104 Saturation area on color board, 122 Slide edit. 107 Slip edit, 106 Solo. 144 soloing clips, 100 Synchronize Clips, 68-69, 71 timecode, 80 Timeline Index, 44 Timeline navigation, 90 undoing moves, 87 Video Scopes, 119 keyframes, using with audio effects, 154 Keyword Collections, importing folders as, 24 keywords added manually, 48 analysis, 48 assigning to clips, 48-49 deleting unwanted, 31 multiple, 49 removing, 49-50 searching for clips by, 51 shortcuts, 49

L

library, organizing, 24 List view, 78 Logic Effects reference guide, 153

Μ

Mac OSX Audio Effects reference, 153 magnification, increasing, 87 markers adding, 109 copying and pasting, 110 features, 108 jumping between, 109 modifying, 109–110 nudging, 110 removing, 109 syncing with, 69 using in Event Browser, 109 using remote with, 167 master files, exporting, 170 media consolidating for projects, 174-175 deleting. 53 importing, 30-31 transferring, 15-19, 21 Media Browser opening, 159 sending projects to, 158-159 using, 32 media files, moving or duplicating, 173-174 megapixel counts, 4 memory cards importing media from, 30-31 mounting on portable machines, 14 SDHC Class 10.15 speed. 15 UDMA, 15 merging events, 44-45 metadata creating and utilizing, 26 text labels, 42 microphone internal, 9 on-camera, 9 quality, 9 Modify menu reassigning roles in, 44 viewing roles in, 44 monitors, color correction on, 137 mono channel configuring, 145 separating, 27 Motion JPEG codec, 7 move operations, undoing, 87 movie files attaching to email, 161 burning to disc, 165-167 exporting, 164, 167-168 moving audio, 89 moving clips, 88. See also clips dragging horizontally, 86 dragging vertically, 87 entering timecode values, 88 with keyboard nudging, 89 with numerical entry, 89 to primary storyline, 88 from primary storyline, 88 to primary storyline, 88 in Timeline, 107-108 music, auditioning, 149 Music and Sound Browser, using, 140 Music role, 42, 44

Ν

narration, recording, 151 native editing, support for, 25

0

optimized media, choosing, 35 Option key. See keyboard shortcuts Other World Computing website, 16 Out point. See In and Out points Overwrite edits. See also edits controlling order of clips, 97 performing, 89–90, 96–97 starting point for clips, 97

Ρ

photo editing applications, using, 86 photos. See also still images accessing, 92 color correcting, 86 enhancing, 86 Photos Browser, using, 92 placeholder clips, using, 85. See also clips playback, controlling, 41-42 playhead displaying current position in, 41-42 trimming end of clips at, 104, 106 trimming start of clips at, 104, 106 portable computer, selecting, 15-16. See also computer portable drives. See also drives bus power, 16 connectivity, 16 creating disk images on, 18-19 offloading cards to. 17–18 speed, 16 SSDs (Solid State Drives), 16 Position tool overwriting clips with, 89-90 switching to, 90 pre-amps AGC (Automatic Gain Control), 9 phantom power, 9 Precision Editor activating, 107 Ripple edits, 107 Roll edits, 107 using, 142 primary storyline, 83 moving clips from, 88 moving clips to, 88 progressive scanning, 6

project files. See also files backing up, 172 copying, 172 Project Library, 60–61 project properties, checking, 60 projects. See also sharing projects adding notes about, 61 adding still images to, 92 appending clips to, 82 audio properties, 59 backing up, 60 connecting clips to, 82 consolidating media for. 174–175 creating, 58 deleting, 63 duplicating, 62-63 exporting, 167-170 hiding. 62 inserting clips into, 82 modifying before editing, 60-61 moving or duplicating, 173-174 previewing, 62 render properties, 59 sending to Media Browser, 158-159 switching, 62 video properties, 59 properties, checking for projects, 60 Properties Inspector, examining, 61 ProRes options, choosing for transcoding, 35 proxy media choosing, 35 creating, 25

Q

quality modes, considering, 7

R

RAID editing drive, selecting, 20 ranges deleting from Timeline, 99–100 selecting in Event Browser, 81 selecting in Timeline, 82 rating clips, 46–48 ratings, searching for clips by, 51 Rec 709 standard, 137 render files, deleting, 172–173 render properties, defining, 59 Replace edits performing, 97–98 warning versus benefit, 98 resolution, explained, 4 reversing clips, 136

Ripple edit extending clips, 102-103 performing with keyboard, 102-103 performing with Precision Editor, 107 shortening clips, 102-103 roles assigning to clips, 43-44 Dialogue, 42 Effects, 42 keyboard shortcuts, 44 Music. 42 organizing clips with, 42-44 reassigning in Event Browser, 44 reassigning in Modify menu, 44 reassigning in Timeline Index, 44 rules. 43 searching for clips by, 51 setting up, 43 Titles, 42 Video, 42 viewing in Event Browser, 44 viewing in Info Inspector, 44 viewing in Modify menu, 44 viewing in Timeline Index, 44 Roll edit changing timing between clips, 103-104 performing on flv. 104 performing with keyboard, 104 performing with Precision Editor. 107 rolling shutter analyzing video for, 26 repairing, 116, 129

S

SAN (storage area network), using, 61 saturation, adjusting, 123 scopes, 120 Histogram, 121 using, 119-121 Vectorscope, 120 Waveform Monitor, 120 SDHC Class 10 memory cards, 15 search criteria, basing Smart Collections on, 52 searching for clips, 50-51 segmentation, considering, 57 Select tool, adjusting timing of edits, 102 selections accidental. 81 making. 81 working with, 78

Shape Masks keyframing, 127 using, 126-127 Share menu, options on, 158 shared projects, controlling, 163 sharing projects, 158-165. See also Compressor: projects with Apple Applications, 158-159 Facebook, 163-164 posting videos on Web, 161-165 sending videos with Apple Mail, 161 via iTunes. 160-161 via Media Browser, 158-159 Vimeo. 162 YouTube, 164-165 Shift key. See keyboard shortcuts shortcuts. See keyboard shortcuts ShotPut Pro, 18 shutter speed, 7-8 skimmer, previewing clips with, 42 skipping forward and backward, 166-167 Slide edit with keyboard, 107 moving clips in Timeline, 107-108 performing, 107-108 Slip edit adjusting In and Out points. 106-107 with keyboard, 106 performing, 106-107 Smart Collections basing on search criteria, 52 changing contents of, 52 creating, 74 creating after analysis, 26 of synced footage, 74 snapping, toggling on and off, 91 software, considering, 16 soloing clips, 100, 144 sorting events, 38-39 sound bites, cutting, 78 Sound Devices audio recorders, 9 sound effects, adding, 140 speed change, Video Quality options, 135 Speed Ramp options, using, 134 speed segments creating, 134 precision of last frame, 134 refining, 134 trimming to refine, 134 SSDs (Solid State Drives), considering, 16

stabilization, analyzing video for, 26 stereo audio, grouping, 27 stereo channel, configuring, 145 still images. See also photos adding to projects, 92 default duration, 92 exporting, 168-169 recompressing, 26 storage area network (SAN), using, 61 stories, enhancing, 78 storyline, primary, 83, 88 sync command, troubleshooting, 68 sync point, finding, 70 synced footage, creating Smart Collections of, 74. See also footage Synchronize Clips keyboard shortcut, 68-69.71 syncing footage clips automatically, 67-68 interviews automatically, 70-71 with markers, 69 multiple cameras, 71-73 turning off bad tracks, 73 using best audio, 73

Т

Tascam audio recorders, 9 timecode. See also drop frame timecode changing, 59 displaying for clips, 80 setting, 58 timecode value, entering to move clips, 88 Timeline adding clips to, 82-85 adjusting settings, 91 arranging clips in, 86-90 deleting clips from, 99-100 deleting ranges from, 99–100 displaying audio waveforms in, 141 dragging to, 58 holding space in, 84-85 mixing formats in, 131-133 modifying audio in, 146-147 moving clips in, 107-108 navigation techniques, 91 removing clips from, 82-85 scrolling in, 90 selecting ranges in, 82 zooming in, 87, 90 **Timeline Index** navigating Timeline with, 92-93 reassigning roles in. 44 viewing roles in, 44

Titles role, 42, 44 transcoding Apple ProRes options, 35 considering, 25 optimized media, 25, 35 options, 35 proxy media, 25 transferring media card reader, 17 computer selection, 15-16 connectivity, 16 creating disk images, 18-19 offloading cards. 17-18 portable drive, 16 software. 16 transitions adding, 110-113 audio crossfade, 113 Available Media setting, 111 changing, 112 copying to edit points, 113 cross dissolve, 112 customizing, 112 Default Duration setting, 111 deleting, 113 detaching audio, 113 Full Overlap setting, 111 impact on show pacing, 111 listing, 113 overlap and handles. 111 preference settings, 111 video-only, 113 Transitions Browser, using, 112 trash emptying, 53 moving projects to, 63 Trim tool Roll edit points with, 103 switching to, 103 trimming edits, 101-108. See also advanced editing commands; edits Ripple edit tool, 102–103 Roll edit. 103-104 Slide edit, 107–108 Slip edit, 106–107 trimming feedback, showing details of, 105

U

UDMA memory cards, 15

۷

Van Hurkman, Alexis, 126 Vectorscope, using, 120 video

adding only, 99 analyzing, 26 collapsing, 142 cutting sound bites, 78 deciding on starting point, 78 detaching audio from, 142 formats, 6 posting on Web, 161-165 sending with Apple Mail, 161 showing expanded, 142 syncing with audio, 67-73 video properties, deleting, 59 video quality, choosing, 35 Video role, 42, 44 video scopes. See scopes video-based training, resource for, 175 video-only transition, adding, 113 Vimeo, publishing projects to, 162

W

Waveform Monitor, using, 120 waveforms displaying, 142 displaying in Timeline, 141 enabling subframe viewing, 143 turning on second set of, 141 viewing in greater details, 143 websites Creative COW Forums, 175 Lynda.com, 175 RichardHarringtonBlog.com, 175 From Still to Motion, 175 Twitter, 175

Υ

YouTube, publishing projects to, 164–165

Ζ

Zoom audio recorders, 9 zooming in Timeline, 69, 87, 90