Apple Compressor 4.1
Detailed Video Training Outline

Chapter 1 - Get Started

01.01   Welcome
- An overview of this entire training
- How to get started
- New features
- Explaining hardware acceleration

01.02   Learn the Interface
- Key interface definitions
- Add Compressor to the dock
- Start Compressor
- Option key "options"
- Explore the new interface

01.03   Default and Custom Locations
- Three default storage locations
- Create a new location
- Customize the default filename format

01.04   Preferences and Shortcuts
- Access, review, and modify keyboard shortcuts
- Access and set Compressor preferences
- Provide Larry's preferences for setting preferences

01.05   Additional Resources
- Relevant Apple websites
- Relevant websites from Larry

Chapter 2 - Compression Basics

02.01   Overview
- An overview of the training in this chapter

02.02   Explaining the Basics of Compression
- Explain why compression is necessary
- "The Four Rules of Compression"
- Larry's bucket analogy for compression
- Definitions of codec, bit rate, frame size, frame rate, and artifacts
- What determines file size
- What determines image quality
- An example of artifacts
- The relationship between frame size, pixel count, and bit rate
- Definitions of deinterlace, I-frame, and GOP

Chapter 3 - Simple Compression Tasks

03.05　Compress for Apple Devices
- Compress for an Apple device using a Destination
- Compress for an Apple device using a compression setting
- Alter the compression setting to improve device compatibility

03.06　Compress for DVD
- The difference between burning a single movie and authoring a disc
- Create a DVD using the DVD Destination
- Illustrate burning options available in the DVD Job Action
- Modify the MPEG-2 video compression settings for DVD
- Modify the AC3 audio compression settings for a DVD

03.07　Compress for Blu-ray Disc
- Define the difference between AVCHD and Blu-ray Discs
- Use a Destination to create an AVCHD Disc
- Compress a file for Blu-ray Disc using a default setting

Chapter 4 - Customize Compression Settings

04.01　Overview
- An overview of the training in this chapter
- Show an easy way to get started in customizing settings
- Define Automatic, CBR and VBR bit rates
- Provide a table of suggested bit rate settings for different image sizes

04.02　Customize General Settings
- Explain what's in the General pane
- Various settings in the General pane and how they change based upon selections

04.03　Customize Video Setting for QuickTime
- Explaining whether QuickTime is "dead"
- Explain single-pass vs. multi-pass compression
- Duplicate an existing setting
- Create a new settings folder, or "group"
- Create a new QuickTime compression setting
- Move settings into, or out of, a group
- Explain the settings in the Video pane
- Larry's recommendations on how to configure compression settings

04.04　Customize Video Settings for MPEG-4
- (Be sure to watch movie 04.03 before watching this movie)
- Create a new MPEG-4 compression setting
- Explanation of what the settings in the Video pane
- Larry's recommendations on how to configure compression settings

04.05   Transcode Audio
- Pick the right sample rate for music and voice
- Tip on compressing for MP3
- Configure audio compression settings to create the best sounding audio with the smallest files sizes for QuickTime movies, MPEG-4, and MP3
- Create an audio-only compression setting
- Create uncompressed audio from MP3 in either AIF or WAV format

04.06   Crop and Pad
- Define crop and pad
- Define aspect ratio, letter-box and pillar-box
- Use the Crop setting to crop an image
- Use the Preview window to crop an image
- Use the Pad setting to convert a 4:3 image to 16:9
- Use the Pad setting to convert a 16:9 image to 4:3

04.07   Video Quality
- Change the frame size of a video clip
- Change the frame rate of a video clip
- Deinterlace a video clip

04.08   Create a Droplet to Automate Compression
- Define "droplet"
- Create a droplet containing a single compression setting
- Create a droplet containing multiple compression settings
- Compress a file using a droplet
- Explain compression priority, along with how and when to change it
- Change some of the settings in a droplet

Chapter 5 - Video Effects

05.01   Overview
- An overview of the training in this chapter
- Explain effects worth using
- Describe effects not worth using

05.02   Text Overlay
- Add and remove a filter
- Enable and disable a filter
- Change the filter stacking order
- Apply and adjust the text overlay filter
- View the results in the Preview window

05.03   Burn-in Timecode
- Apply, adjust, and format the Timecode Generator

05.04   Watermarks
- Define watermarks and explain what they can, and can't, do
- Create a stationary watermark in Photoshop
- Create a video watermark with an alpha channel using Motion
- Add and adjust a stationary watermark in Compressor
- Add and adjust a video watermark in Compressor

05.05   Color Correct Mid-tones
- Explain why color correction can be helpful in compression
- Use the Color Correct Mid-tones video effect

05.06   Gamma Correction
- Explain why gamma correction can be helpful in compression
- Apply and modify the gamma correction setting

Chapter 6 - Advanced Compression Techniques

06.01   Overview
- An overview of the training in this chapter

06.02   Create a Short Test Movie
- Explain why test movies are so helpful
- Set an In and Out for a movie using the keyboard or mouse
- Set a duration, using keyboard or mouse
- Clear a duration
- Provide a list of helpful keyboard shortcuts for setting durations

06.03   Markers and the Preview Window
- Define "markers"
- Explain what a marker list is and how to create it
- Add and delete markers manually
- Display markers exported from Final Cut Pro X
- Import a text file containing a list of markers
- Explain how that marker list is formatted

06.04   Create Custom Destinations
- Duplicate an existing destination
- Create a custom destination from scratch
- Apply a custom destination to a single clip
- Apply a custom destination to a group of clips

06.05   Job Actions
- Define a Job Action
- Add a job action to a job
- Discover what job actions are permitted
- Reveal what's wrong with a job action alert, and fix it
- Remove a job action

06.06   Import and Compress an Image Sequence
• Define an image sequence
• Create a ProRes 422 file from an image sequence

06.07   Convert Video Frame Rates
• Discuss how and why to change frame rates
• Change frame rates using the General inspector
• Change frame rates using the Video inspector

06.08   Pre-processing and Job-chaining
• Define pre-processing and explain why it is useful
• Pre-process a file using job-chaining

06.09   HTTP Live Streaming (HLS)
• Define HTTP Live Streaming and explain why it is useful
• Compress media for HTTP Live Streaming
• Use pre-processing as a part of HLS compression

06.10   Compress Surround Sound Audio
• Import discrete audio files for compression into a surround clip
• Apply the AC3 compression setting
• Adjust the setting for the web

Chapter 7 - Distributed Compression

07.01   Overview
• An overview of the training in this chapter
• Define Job Segmenting and when to use it
• Provide tips about when and how to increase compression speed

07.02   Run Multiple Instances of Compressor
• Define "multiple instances" and the system necessary to run them
• Turn on multiple instances of Compressor
• Use Activity Monitor to compare the differences between a single instance compression job and a multiple instance compression job

07.03   Create a Distributed Compression Network
• Define "Distributed Compression Network" and explain when to use it
• Configure a computer to join a compression network
• Configure the compression network
• Submit a job to the compression network
• Monitor the status of a compression job using the Network Monitor

Chapter 8 - Time to Wrap it Up

08.01   Overview
- An overview of the training in this chapter

08.02   Things I've Learned About Compression
- A summary of the things I've learned about compression
- Compression is trade-offs
- How to get the best image quality
- Where to look for artifacting in an image
- Improving compression speed
- Testing settings

08.03   A Compression Example
- A real-world, real-time example of creating custom settings by watching over Larry's shoulder
- Create a custom QuickTime compression setting
- Create a custom MPEG-4 compression setting

08.04   The Conclusion
- Compression is at the heart of what we do