

Handbook for Final Cut Pro 5 HD By Paul Ritchard

This handbook is extremely cursory so refer to the soft manual (Go – Help – Final Cut HD Help) or you can borrow the manuals.

There should be a soft copy of the Final Cut pro manual on the desktop. It has a search engine but you often need to know what something is called before you can find it.

Please note: If you have any suggestions or something is not clear please inform the teaching staff so they can update it.

Troubleshooting

If computer crashed or frozen:

- 1. Press option apple esc.
- 2. It will ask you to force quit. Do it
- 3. If the computer or application is still frozen contact Paul or the tex.

If image or sound not getting to monitor or speakers

- 1. Make sure mini DV or DVC-pro player is turned on.
- 2. Make sure switching box (journos) is switched to DV deck
- 3. still not working in Final Cut go View External Video All Frames
- 4. still not working go View Refresh A/V Devices

Updated feb 2007

Easy Setup – Media students - Check every time you fire up your project

Go Final Cut Pro - 'Easy Setup' & select either -

- a. 'media dvc-pro' for 'V' suites 1 6
- b. 'HDV 1018i' if using external HDV deck
- c. 'DV-PAL 48khz' in 'J' suites 1 3

External Hard Drive protocols

- You drop / damage / don't eject drive properly and you'll probably lose all of your work: data integrity & backing up is YOUR responsibility.
- You fry the firewire port, damage or lose your assigned drive, you agree to pay for its replacement. (Approx. HDD value \$450.00)
- You must reset 'scratch disk' and 'easy set up'

Rules – Plugging in & Mounting

- 1. Make sure external HDD (Hard Disk Drive) is turned off.
- 2. Plug in the firewire cable into the front port of the computer ensure it is oriented in the correct direction **do not force plug**, as it only goes one way.
- 3. Turn on power to external HDD it should mount on the desktop (ie. Icon appears).
- 4. Note: Never move drive whilst on or spinning as this may damage the disk.
- 5. On the Mac, set the scratch disk in Final Cut Pro to your drive.

Rules – Ejecting and Unplugging

- 6. When finished, within Final Cut Pro reset the scratch disk back to the default of 'Student Work'
- 7. Reset 'Easy Setup' to either
 - a. 'media dvc-pro' in 'V' suites;
 - b. 'DV-PAL 48khz' in 'J' suites.
- 8. Quit Final Cut Pro.
- 9. Eject external HDD by highlighting drive icon on desktop and pressing the 'eject' key or dragging your drive's icon into the trash.
- 10. Wait a good 10 seconds for the drive to spin down and then turn off power to the drive (check that drive has stopped spinning first!).
- 11. Shut down computer (No need to log out)
- 12. Disconnect firewire cables and pack up your HDD don't forget the power supply!

Not following these rules means you're sabotaging the computer or its settings for someone else – what goes around comes around. (Karma is a bitch).

Report any issues to the Techs a.s.a.p. either face-to-face in 6.1.1 or via phone on extension 52848 (or from outside of RMIT, 9925 2848).

Set up your folder and project

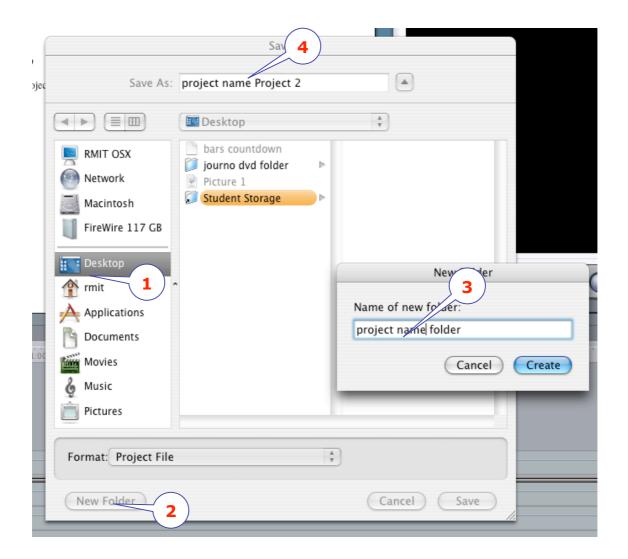


When starting a new project click Final Cut Pro (fcp) icon in dock – Normally on left of screen.

Then go File - New Project (as in the pull down menu at the top)

Go **File – Save Project as** (Follow each of the steps – where it says project name put the name of your project).

You will be creating a folder on the desktop so you can find your project more easily. In this folder you should store any of any files or documents that you are using for your project eg. Jpegs, music etc.



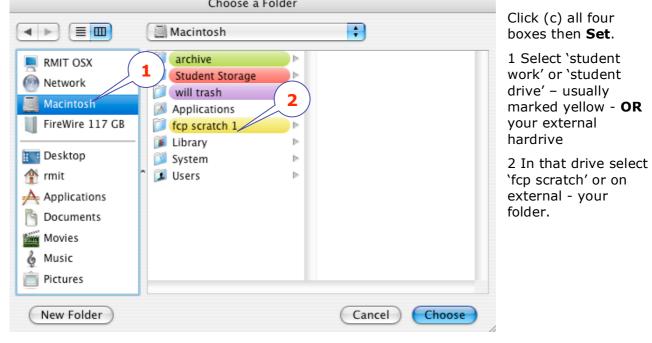
Scratch Disks

Scratch disks are already allocated but if you need to set your scratch disk - (it needs to be changed if you or someone else has introduced an external hard drive)

Go Final Cut Pro HD – System Settings or shift Q

This is where you allocate the location of your video, audio and render files. All the files for the project might take from 5 to 100 gb. Only select one **`Scratch Disk' i.e. if there are others ticked untick them**

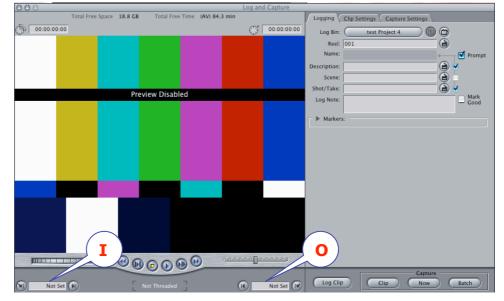
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Log and Capture

Logging clips

Here you will log clips using deck control. This process involves marking in & out (the begin and end timecodes of each clip) and entering the name and reel # of the clip. You can either use the Log & Capture Window keys (above) or the Key Board (left).



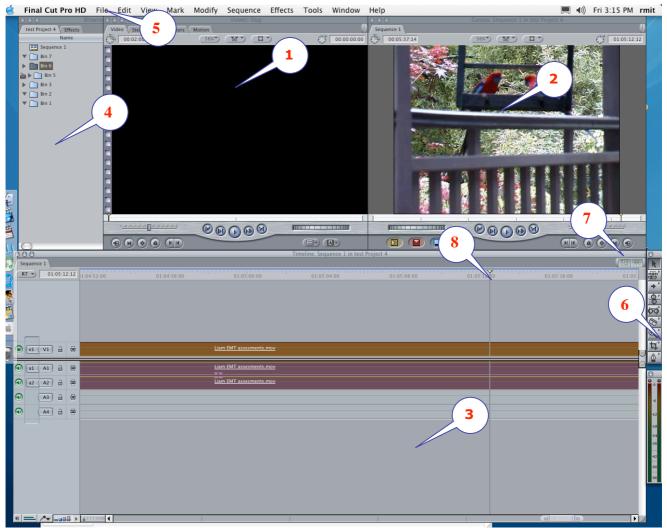
In FCP it is essential to log clips before capturing. **Capture Now** can be problematic for two reasons: you might capture unnecessary footage and; you might capture across a time code break or glitch which can cause corrupt files.

It is a good idea to create all of your bins before you start your log & capture. Go File, New Bin and create and label as many as you need.

1. Go File, Log & Capture

- Using deck control (Play / Stop Space Bar, Mark In I, Mark Out O, Rewind J (1 touch slow 3 touch fastest), Pause K, Fast Forward L (1 touch slow 3 touch fastest))
- 3. Cue your tape to the beginning of your shot enter the In point **I** at least 2 secs after you started recording. You can keep hitting **I** as the tape is playing. This will move the In Point once the In Point is set you then enter the Out Point using the same procedure. You can also type in your In & Out Points.
- 4. Enter the name of your clip in **Description** then select the **Bin** (Control click on bin and set as logging bin) you want your clips to go into it. If there are any more a than a few clips we suggest creating bins for different locations, scenes, tapes etc. so that your project does not become cluttered with clips, music and sequences.
- 5. When this entering is done click Log Clip. This will enter the clip into your project or bin.
- 6. **Batch Capture**. To do this select the clips you want in your **Bin** or **Project** then go **File Batch Capture**.
- To Capture Now roll tape and hit Now. To stop hit esc on the keyboard. To abort (to stop and not save the clip hold down apple. for a period. You will quickly see that this is a cumbersome way to capture.

Remember to close Log & Capture window to resume editing.



1 1 **The Viewer** You use it to watch individual clips, mark edit points, and apply effects.

2 The Canvas displays the composited results of the edited sequence as you are creating it.

3 **The Timeline or Sequence** displays a chronological view of a sequence. As you drag the playhead along the Timeline ruler, the current frame of the sequence is updated in the Canvas window and vice versa. Video tracks are displayed in descending order.

4 **The Browser** is used to organize and locate the source material for your project and the finished product. The Browser is not a collection of files; it is a collection of references to files, which you organize in the context of your project.

5 The Pull Down Menus are at the top of the screen and offer many options, including HELP

6 **The Tool Palette** contains tools for selecting and manipulating items in the Sequence (and Canvas) **NOTICE** there are familiar tools like the Magnifying glass to zoom in and out of the Timeline, the Hand tool to move around, etc. Move and pause mouse over tool to read its name label, and there are tools that have hidden tools underneath which are accessed by clicking and holding on them.

7 **Linked Selection** (Left Button) If this is green Video & Audio are linked and will move together.

Snapping (Right Button) If this is green clips and tools will 'snap' to the one closest or to the Playhead.

8 Playhead

The Sequence (Timeline)

- 1. Drag desired clip from bin to sequence, drop it into the V1 (Video track One) row of the sequence
- 2. Drag the next clip into sequence, placing it either next to the first clip, or in another track. Creating another track is achieved by dragging a clip so that it is above the default V1 track and dropping it in the blank space. There can be 99 layers of video and audio.
- 3. To play the Timeline, position the playhead at the beginning of the clip by clicking the mouse there and press the space bar.
- 4. There are many ways to navigate around the sequence:
 - a. Scrub (click-drag) the playhead left or right. This is made easier by Zooming in or out.
 Press apple + or or
 Zoom in Tool (Z) or,
 View Slider (diag. 1)
 - b. scroll with arrows (diag. 2)
 - c. move the slider left or right (diag. 3)
 - d. use the
 - playhead in the canvas window (diag. 4).



Tool Palette

To the right is an inconspicuous vertical bar. This is the tool palette with 9 icons. When you click on an icon it will expand to show you options in the same family of tools.

- 1. The most commonly used tool is the default selector at the top. The top three icons are selector tools of some kind or other. These are to highlight clips and move them.
- 2. The next three icons are edit tools: roll, ripple, slip, slide, and razor blade. These are to trim and help you match motion in a movement sequence or to sync movement to sound.
- 3. The 7th icon is for view tools. These make clips in the Timeline larger or smaller.
- 4. The 8th is for image modification tools. These are for cropping or distorting the image.
- 5. The 9th is for keyframe tools. These are to create or delete keyframes. Especially helpful on a motion path or audio graph.

You will become familiar with these as you work with your clips in the Timeline.

To select a tool either click on that icon or use the keyboard shortcuts. Holding the pointer over the icon will tell you what the icon is and its keyboard shortcut. (A – Selection Tool, B – Razor Blade Tool etc)



Editing

Putting a program together means putting clips, or parts of clips into a sequence. You do not have to start at the beginning. You can build sequences of sections and then copy these sections into a new sequence. If you have a sequence that you like, you should make a copy of it before tweaking it further so that you can always go back to something you liked if your new idea doesn't pan out. You can make multiple versions of a sequence to try out ideas.

The first objective in editing is to get the program flowing, to get your clips in the correct order, and to make sense out of your story. This can be done with straight cuts that do not require rendering (which eats time). Save all transitions, and effects until you are happy with your straight cut edit.

- 1. Double click the first clip you want to use in the **browser** window. It will appear in the **source** window (on the left).
- 2. Play the clip by hitting the space bar, and stop it when you get to the place you want to make the in edit. You can use the left and right arrow keys to move back and forth a frame at a time to find your exact edit point.
- 3. When you find the edit point, press the **I** key (for IN)
- 4. Then Play the clip until you get to the end of the part you want to use and when you have the precise frame, hit the **O** key (for OUT)
- 5. Pick up the clip by clicking on the image in the Viewer window and drag in to the sequence window it will give you options like insert or overwrite. Choose one this will then place the clip you have trimmed into the sequence where the play-head is placed in the way you have chosen. Or just place it into the sequence or drop it back into the **Browser**
- 6. Or pick up the clip from the browser and place into the sequence to trim it there. Pick up the In Point by placing the Selection Tool (keyboard shortcut A (for Arrow)) over the beginning of the clip click and trim.
- 7. Or, in the sequence split the clip with the blade tool (B) or hit ctrl v (split at playhead)

Moving clips or blocks of clips around.

If you need to insert a clip amongst many others here are some ways to do it.

- 1. It is safest to make a gap to insert it otherwise you can put audio or graphic clips out of alignment with other clips.
- 2. To make a gap:
 - a. **Apple click** on the clips you need to move to select them then pick them up and move them to the right.
 - b. **Click drag** to the side of the clips then continue over the clips to select them (marquee) then move them to the right.
 - c. **tttt** The preferred method is to use the track tool. Hit 't' four times this will select everything to the right of the playhead then move the selected clips to the right.

3. To move vision or sound independent of one another

Sometimes you will need to separate vision or sound.

Hit the **'Linked Selection'** tool – (**Shift-L**) - top right of the sequence. This will unlink the two – remember to reset.

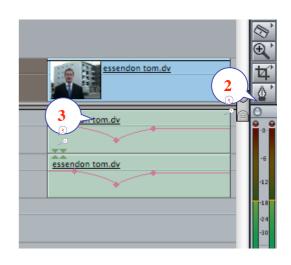
Final Cut Pro Handbook by Paul Ritchard

Audio

- 1. Click on the Audio Keyframe tool (1)
- 2. Using the pen tool (2) you can click and drag - creating and moving keyframes to change the level at that point in time. The audio will increase or decrease to the next keyframe or the end of the clip.



- 3. Or use the selection tool to click drag the whole line up or down to change overall clip volume.
- 4. Your audio should peak at the -12db point in the audio meter



Effects

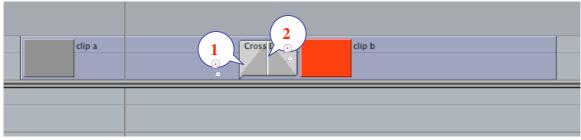
There are numerous effects which can be divided into three categories: transition, filters and generators.

Transitions

- 1. To use a basic transition, you must have two adjacent clips that have been trimmed at the tail of the first and the head of the second. ie. There is an overlap created.
- 2. Click on the intersection of the two clips. The transition shape will appear then hit apple-T. The default cross dissolve will appear.
- 3. To change length of dissolve drag (1) and to slide disslolve- drag (2)

or my prefered method

4. Using the pen tool as outlined in **audio** above you can alter the opacity and do vision fadeouts



Rendering

Video – you will notice that a red line has appeared in the Timeline over the effects you have created.

Audio - you will hear a beeping sound when you try & play.

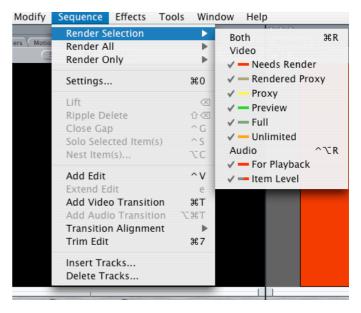
This indicates they need to be rendered before you can view them. To render **Sequence > Render Selection > All** (or just **Video**) There are many other options here but that's enough for now.

 OR – apple 'A' then apple 'R' – this will render all

Effects & Video / Audio Filters

Go Effects then apply the effect or filter you need then Render Open the Video Filter bin.

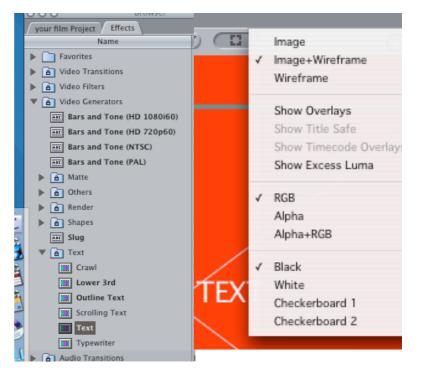
Choose a different filter for each clip. Highlight, drag and drop.



Titling

Titles using the Video Generator in the Browser window.

- 1. Select Video Generators > Text
- Drag the **Text** (Title) in to the sequence above the clip that the title will be superimposed onto. Make sure playhead is over clip.
- Double click on the title and click on the **Controls** tab in the **Viewer** window.
- 4. Type over SAMPLE TEXT change the font, size etc.
- In the Canvas window you can pick up the title and position it. Make sure **Canvas** set to Image + Wireframe



Sequence 1

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SAMPLE TEXT

Pt 2 - Finishing the Edit in Final Cut Pro

Text on Screen

A suggestion for text on screen in Final Cut Pro

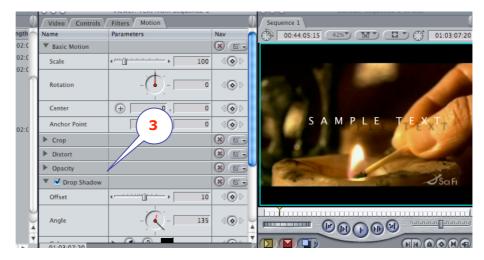
Once you have your **Text** clip which you've got from **Video Generators** you can start manipulating the title to get it working graphically. These are some select tips:

- 1. Select **Colour** (1) and change the colour so that it is in contrast with the background image to stop it 'reversing out'. i.e. white on black (dark)
- Increase the **Tracking** (2) so it is not too 'bunched up'
- Then try a Drop Shadow(3) under the motion Tab. Changing the Offset can make it a border that makes white text stand out on white or bright areas.

Start refining the font, colour, size, shadow, tracking,

placement, aspect etc. of your text as you are editing. Unless you're well trained in graphics it takes a long time before the text on screen becomes 'resolved'.





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SciFi

Supers for journos (in the J suites)

Open the journo template on the desktop. In the sequence there will be the clockleader and some template supers.

- 1. Select both the blue bar and text ie. Shift click or click drag.
- 2. Copy both and paste into your sequence above the vision where it is needed
- 3. Double click on the title and click on the **Controls** tab in the **Viewer** window.
- 4. Type over SAMPLE TEXT change the font, size etc.
- 5. If it needs rendering refer to page 9

Adding Motion to your title

- 1. Double-click on the title clip so it reappears in the viewer.
- 2. Click on the Motion tab.
- 3. Open Basic Motion.
- 4. Make sure the playhead in the viewer is at the beginning of the title.
- 5. Adjust the scale, the rotation, the center, and the anchor point by moving the sliders or typing in a value. As you tab the changes will appear on the screen.
- 6. To secure these changes at the beginning of the clip, click on the green keyframe button. This creates a keyframe on the graph.
- 7. Drag the playhead forward in the viewer.
- 8. Once again, change the values of scale, rotation, center and anchor point. As you change the value, a new keyframe is created on the graph. This is creating motion
- 9. Drag the playhead another few seconds forward and change the values.
- 10. Finally, drag the playhead to the end of the title and change the values.
- 11. By dragging the playhead you can review what you've done. If you want to change these values you can skip forward or backward by clicking on the arrows on either side of the green keyframe buttons.
- 12. Render your Title.

Recording Voiceover (for journos)

To record voiceover you can capture it straight onto the computer without vision – this is how.

- 1. Go File, Log and Capture (close this window when finished)
- 2. click on the Clip Settings tab
- 3. change capture from aud + vid to audio only
- 4. then click on Capture Settings tab
- 5. change device control from **firewire pal** to **non controllable device**
- 6. change input select on video recorder to a3 then turn speakers down
- 7. when you are ready to record hit Capture 'Now'
- 8. hit **esc** on keyboard to stop capturing

When finished - reset all settings or you are sabotaging the next user!

Importing music from a CD

Importing jpegs, gifs, stills, quicktimes etc.

Drag the tracks or files you need into your folder.

Note: You should have copyright clearance or use copyright free music.

Open a Bin to place it in.

Choose File>Import. Go to your folder. Open the CD. Import the Track.

Exporting to quicktime – full quality and making DVDs

- 1. In your finished sequence go File Export to Quicktime (save it into student drive in a folder with your name or film on it)
- 2. Check the 'Make Movie Self Contained' box
- 3. This is great for archiving your finished product for show-reel and exhibition as it is full quality copy of your work.
- 4. Or drag it into Toast and make a dvd from there.
 - a. Open Toast
 - b. Select the Video Tab on the right
 - c. Under the Advanced tab on the left check DVD-Video
 - d. Delete the camera in the window and drag your quick time into the window
 - e. Insert DVD then press 'big red'

Exporting to quicktime, quicktime conversion & compressor - See Paul for advice

Use these to convert, compress or encode for dvd and web.

Mastering to tape / recording to tape

2 methods:

- 1. Print to Video
 - 1. Go File > Print to Video
 - 2. Check
 - a. colour bars (5 secs) and
 - b. countdown
 - c. five secs of black at the end.
 - d. Automatically start recording
 - 3. Insert Tape and cue it up (i.e. not over your footage)
 - 4. Press ' OK'
 - 5. Journos once that is done got to the dub suite near tex office and dub to vhs or \mbox{dvd}

2. crash recording – only when you cannot 'Print to Video'

- 1. Place the playhead at the beginning of the sequence in black
- 2. Roll the record deck i.e. press play and record for five secs
- 3. Press play in the sequence
- 4. Once the program has played out let the deck continue to record for another five secs

Colour correction and or / manipulation.

Note: Check the hard or soft manuals for extensive explanations. The soft manual is on the desktop of the computer or under Help in Final Cut Pro. Staff and techs have hard copy manuals.

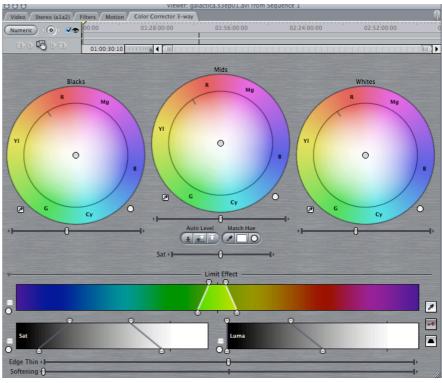
The colour spectrum of light is a combination of Red, Blue and Green. When they are combined equally you get white whereas with paint & ink when you combine Red, Blue and Yellow you get black. Paint is additive and light is subtractive. (<u>http://ian-</u>

<u>albert.com/graphics/addsubcolor.php</u>) If you look at the colour spectrum you see that Red at 11 o'clock is opposite Cyan at 5 o'clock. If you subtract cyan from an image it goes red. The top half of the circle is the warm

colours and the bottom cold.

Colour Corrector 3-Way. Double click on the clip you need to change.

Go Effects > Video Filters > Colour Correction > 3-Way Colour Corrector. If you had an incorrect white balance you could correct a blue cast by adding yellow. To do this you would drag the colour pointer in the whites slowly away from blue. i.e. towards yellow. If it is required you would do it in the mids and the blacks. The slider below the colour wheel adjust the Luminance (exposure) of the blacks for example. The slider below that adjust the Saturation (the intensity of colour - Chrominance. If you slid it to the left it would de-saturate - Black & White - monochromatic. The Limit Effect allows you to Limit the effect



of manipulation to a specific colour, saturation or luminance.

Colour Grading. Your colours, hues should be designed in pre-production but there is always colour grading and manipulation done in post. Grading is where you correct exposures and white balance discrepancies in the editing. (When you shoot in film you do this at the transfer to video process – telecine.) You find a shot in the scene that is the master shot or the most colour/exposure correct shot or the shot that is hardest to correct etc. and grade/match the other shots to that.

Colour Manipulation. When shooting on video you often attempt to make it look more 'filmic'. There are many ways to do this – blacken the blacks, saturate the colours, make it cooler, soften the image, feather the edges, drop the second field, scratch the film, put dust on the image etc.

Many of these effects take it away from the natural, but flat look of video. An easy method is to make the image cooler and increase the contrast. (A common mistake is to make it warmer – this often makes it look murky and colours lose their contrast- warmth is genrally done in the production design). To make it cooler start in the blacks and slide towards cyan. You could try it in the mids and whites as well. When colour grading and manipulating only spend five minutes on it every editing session. It is easier to get caught up in it and waste hours. Once you're happy with it, towards the end of the fine cut, you can copy and paste those effect attributes to all of the desired clips.

15

Making Mpeg2s for DVD using compressor

This process makes the best quality mpeg2s because you have control over the compression and it compresses clip specific (see Seth's DVD production guide).

- 1. Click on the sequence to manage
- 2. Go File > Export > Using Compressor
- 3. It will open up **Compressor** and load your sequence into Batch Monitor
- 4. Select your **Settings** (1) - you will need to create a video and audio file. Select 'media video' then 'media audio'. These are optimized for
- 5. Then select the **Destination**(2) – where you want the compressed file to go.
- 6. Now you can select **Submit** to start the compression – a 10 min film might take up to 2hrs or
- 7. Go to another sequence in Final Cut and repeat the procedure – you can compress multiple sequences in the batch monitor by putting them in

the Batch or Queue - this way you can set it off over night because it might take all night.

8. These files (mpeg2 and ac3 dolby digital audio) can be imported directly into any DVD production application: DVD studio pro, iDVD or Toast without having to be encoded.

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quality whilst playing on as many DVD players as possible.

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| template Project-template | 2 entries | | | |
| | media vid | Choose a destination | tenplm2v | |
| Ĩ | media audio | Source Desktop User's Movies Folder Cluster Storage compressor files media tv2 mpegs | in plo.ac3 | |
| | | Other | | |
| Cluster: This Computer : | | _ | | Priority: (High ;) |
| | | | | Submit |
| In can set it off | over night h | ecause it n | hiaht tak | e all |

Media Managing

This process involves making a new project and media identical to the source project in every way except that unused footage and media outside the in & out points is deleted. On average a project of say 15GB might be reduced to 2GB. (Fantastic for archiving)

- 1. Click on the sequence to manage
- 2. Go File > Media Manager
- 3. I recommend using these settings described in the picture
- 4. Press **Browse** to locate where to create this new project.
- 5. Put in a new folder I call it 'mm the name of your project' mm: media managed
- 6. Then go Choose
- 7. Call your project the same name
- 8. Go Save It should only take a few minutes.
- 9. Once this is done you can delete your Capture Scratch folder (all your footage) with confidence.

Note! Never do this at RMIT or your place of work unless you have permission.

10. Never delete your project folder. You might need to Batch capture some footage in at some point and you need to clip references in your original project

| | Media Manager |
|--------------------|---|
| | |
| unused render f | new project containing the items you have selected. Include active Multiclip angles only. Delete media from the duplicated items. Copy media files referenced by the duplicated items, including |
| | |
| Original | 5.5 GB |
| Modified | 2.1 GB |
| | (move your cursor over bar graph for more information) |
| - Media | : |
| Сор | y media referenced by duplicated items. |
| | Include render files. |
| Re | compress media using: DVCPRO - PAL 48 kHz 🛟 |
| | lude master clips outside selection. |
| _ | |
| _ | ete unused media from duplicated items. |
| | Use Handles: 00:00:01:05 |
| | Include affiliate clips outside selection. |
| Base | media file names on existing file names |
| | |
| Projec | t: |
| 🗹 Du | plicate selected items and place into a new project. |
| | Include nonactive multiclip angles. |
| Madia | Destination: |
| Media | |
| /Users/ | Browse |
| /Users/ | |
| /Users/ | Cancel |
| /Users/ | Cancel |