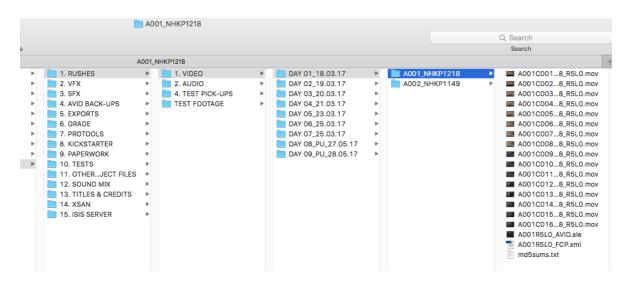
DIT NOTES AND USING THE CLONE TOOL IN DAVINCI RESOLVE

The important aspect of DITing is to have a clear, strict system in place for storing your rushes so that you know where all of your footage is at all times.

You should have at least two back-ups of your footage as well as your Master Storage drive. For example, you WSMAD/Rushes Server Workspace would be your Master Storage Drive and you would then have two other External Hard Drive back-ups that are stored in different places.

In each of your drives you must have a clear folder structure that is consistent throughout the entire shoot. Below is an example folder structure. Note the folders were all created in advance of copying over the footage. Do not chance names once you have copied your files over!



The A001_NHKP1218 folder relates to the Camera Card Information, with the A001 being the Roll number and the NHKP1218 being the Serial Number. It is a good idea to keep track of the serial numbers of each card, as should any cards result in errors during the DIT process, then you will know exactly which card to take out of rotation!

Alternatively, instead of using A001 etc. you may end up simply calling it CARD01.

Similarly, it is up to you on which naming conventions you wish to use for the entire folder structure. The Days/Date could simply be DAY01. This is used more often as it is simpler and easier to read.

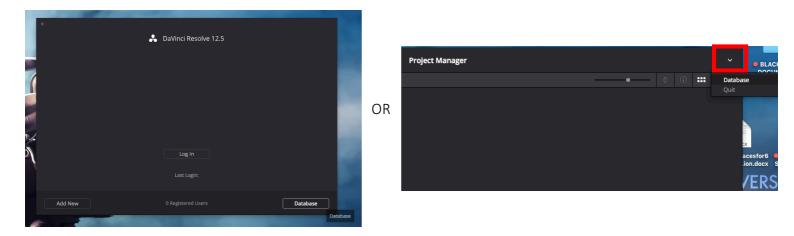
The most important thing is that you create the folders in advance of copying over the footage and that the system you use is consistent throughout the shoot and throughout all three back-ups!

HOW TO CLONE USING DAVINCI RESOLVE

DaVinci Resolve is available to download free online. It contains checksum software which will perform an algorithm on your footage and again on the footage transferred to check for exact data duplication without errors. This is much safer than drag and drop!

Make sure your folder structure is in place before starting!

1. Open DaVinci Resolve and create a Database. If the Project Manager screen comes up and you are not concerned with saving/reopening the exact same project later then skip to Step 3.



2. Click on Create and then label your project a name you will remember. You have to type these exact details in if you ever want to reconnect to this database. Then click on host and navigate to the folder you want to save the Database to. If you're using the University Computers then use your workspace on the R&S/VideoSAN Server. Then click Create Database and double click on the Database in the Database Manager to open it.

		🚴 DaVinci Resolve 12.5					Database Manager		
					Label	Name	Host	Schema Last Updated	Remark
		Database Manager			cloningproject		/Volumes/VideoSAN/201		Disk datab
Label	Name	Create New Database	st Updated	Remark	demo		/Users/bowersl/Desktop		
demo				Disk database					
		Label cloningproject							
		Host 018/FILM/MG_MAD_6CINE005_DOC_10_R	5						
		Driver DISK V							
		Cancel Create New Database							
					Restore	Backup Connect		Delete	Create

3. Click New Project or Rename the Untitled Project by right-clicking and selecting rename. Name it based on what it will be used for. Double click the project to open it.

x	Project Manager		~
Untitled Project			
	Rename Project		
	Cloning Project		
	Cancel OK		
🔒 DaVinci Resolve 12.5		New Project New Folder Open	

4. Sometimes DaVinci Resolve will automatically place all Drives in the column on the left, including the Camera Card. If everything is plugged in and you can't see them, then you can add them by going into Preferences. Click Media Storage and then Add the relevant folders/drives e.g. your External Hard Drives, Rushes Server and Camera/Sound Cards. Click Save and restart DaVinci Resolve.

			Media Storage		
ć	DaVinci Resolve File Edit	Trin	System		
	Davinci Resolve File Eult	11111	Media Storage	Mount	Mapped Mount
	About DaVinci Resolve		Video I/O and GPU		
\sim	Destaurance	Clon			
	Preferences ೫,	CIOII	Control Panels		
	Services ►		Advanced		
	Hide DaVinci Resolve 第H Hide Others て第H Show All			This location should be permanently connected	ist will be used to store gallery stills and cache files. d to your system. hed local and network storage locations
> = > =	Quit DaVinci Resolve 業Q				
> 🚐	VideoSAN				
> 🚐	wsmad				
					Cancel Save

5. You Drives/Folders will now be in the left column. Click the Clone Tool button and a new window will appear in the middle (between Media Storage Browser and the Playback Window. Click Add Job to begin the Cloning Process.

•••	Cloning Project	
Media Storage	Cloning Project	
■ < > CANON		34% 🗸 °
 CANON CREW A DPP Intern Macintosh HD VideoSAN VideoSAN wsmad Nolumes/wsmad/WSMAD-FILM-R 	No jobs in Queue	
Favorites	Add Job Clone	I
🗈 🗸 < > Master		
Master		

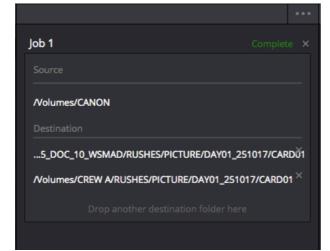
6. Drag and Drop your entire Camera Card into the Source Area. Make sure you take the whole top folder, or simply drag and drop the Card as shown in the column on the left rather than a folder.

						Cloning Project		
$\mathbf{\nabla}$	🚍 Media Storage	Clone Tool				Cloning Project		
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	ideoSAN							
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> 🚍 🔨	Volumes/wsmad/WSMAD-FILM-R							
Favorite	s							
						Add Job Clor	ne	
	< > Master							

7. Drop your **Folders** from each Drive that you wish to copy the footage into, in the Destination area. You can add multiple drives/folders and so can Clone/Back-Up your rushes to all three drives at once on the University Computers (Rushes Server and 2 Hard Drives). These folders need to be made before you start Cloning!

• •						Cloning Project		
\checkmark	🛅 Media Storage	Clone Tool				Cloning Projec	t	
	> DAY01_251017		:≡	Q				34%
> 📕 (CANON	File Name	Reel Name		Start	Job 1		
~ 🚐 (CREW A	CARD01						
> FT	VSKILLS							
~ RI	JSHES							
~	PICTURE					/Volumes/CANON		
:	DAY01_251017							
> 🔜 🛛	OPP Intern	U				5_DOC_10_WSMAD/RUSHES/PICTURE/DAY01,	251017/CARD01	
> 🚐 I	Macintosh HD							
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- 🗸 🔜 🗤	vsmad							
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> M	G_ISLS_TEST_2							
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Favorite	S							
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						Add Job	Clone	
e	< > Master							
	< > Master							

- 8. You can add more than one job if you want. For example, if you had multiple camera cards to clone or one camera card and one sound card. Just click Add Job to add more. It will clone each job one at a time. Once you've hit clone you cannot add another job until it has finished cloning.
- 9. Click Clone to start cloning your footage. You will get a time remaining and then a Green Complete when the transfer has finished and the Checksum is all fine.
 - Any errors will be flagged in Red try the transfer again, troubleshooting errors by checking connections or swapping card readers/cables if possible.
 - b. If you have continued error messages then take the card out of rotation, labelling it as "Possible Error". Try and playback any transferred clips and then inform your DOP via the Focus Puller and the Producer of the potential problem for them to decide if they need to reshoot.



Job 1		
/Volumes/CANON		
5_DOC_10_WSMAD/RUSHES	PICTURE/DAY01_251017/CAF	DŬ1
Nolumes/CREW A/RUSHES/PI	CTURE/DAY01_251017/CARDO	n×
Cloning in Progress		
00:00:39 remaining	Stop	

10. Check the file size on the copied folders on all drives is the same as the original. Once you are satisfied then check the footage plays back in software such as QuickTime or VLC. Scrub through it quickly to check no errors appear.

CARD01 Info	🗧 😑 💼 PRIVATE Info	CARD01 Info			
CARDO1 205.2 MB Modified: Today, 11:10 AM	PRIVATE 205.2 MB Modified: Tuesday, December 15, 2009 at 10:42 PM	CARDO1 205.2 MB Modified: Today, 11:14 AM			
Add Tags	Add Tags	Add Tags			
General: Kind: Folder Size: 205, 22,772 bytes (205,3 MB on disk) for 4 items Where: OREW A + RUSHES + PICTURE + DAYO1_251017 Created: Today, 11:10 AM Ghifted: Today, 11:10 AM Ghared folder Locked Wore info:	▼ General: Kind: Folder Size: 205,225,818 bytes (205.3 MB on disk) for 2 items Where: CANON Disk image: /Volumes/wsmad/WSMAD-FILM-RUSHES/ MC_MAD_AK_WORKFLOWDEMO-DONOTDELETE/AVCHD CAMERA.ding Create: Thursday, January 1, 1970 at 1:00 AM Modified: Tuesday, December 15, 2009 at 10:42 PM Shared folder □ Locked	♥ General: Kind: Folder Size: 206,233,870 bytes (205.3 MB on disk) for 4 items Where: wsmad x WSMAD-FLM-RUSHES > RUSHES 2017-2018 > MC MAD_SCINCOS_DOC_10_WSMAD > RUSHES > PICTURE > DAY01_251017 Server: smb://worKspace.westminister.ac.uk/wsmad/WSMAD-FILM- RUSHES/RUSHES 2017-2018/ MG_MAD_SCINE005_DOC_10_WSMAD/RUSHES/PICTURE/ DAY01_251017/CARD01 Created: Today, 1110 AM			
▶ Name & Extension:	▼ More Info:				
▶ Comments:		More Info:			
▼ Preview:	Name & Extension:	Last opened: Today, 11:13 AM			
	Comments: Preview:	Name & Extension: Comments:			
▼ Sharing & Permissions:		T Preview:			
You can read and write	<i>F</i>				
	▼ Sharing & Permissions:				
	You can only read	V Sharing & Permissions:			
		You have custom access			
		Name Privilege #: INTRANET/IG_MAD_6.CL C Custom #: INTRANET/IS-MacTech C Read only #: INTRANET/IS-MacTech C Custom #: INTRANET/IS-MacTech C Custom #: INTRANET/IS-MacTech C Custom #: INTRANET/IS-MacTech C Custom #: INTRANET/IM_CMAD_FIL C Custom #: INTRANET/IM_CMAD_FIL C Custom #: Gov David & Mrite			

11. You may also be required to fill out a DIT log. This is essentially a written document that confirms that each back-up contains the exact same material, noting down the exact sizes and number of files on each back-up. Below is a screenshot of an example DIT log.

CAMERA	ARRI ALEXA	RESOLUTION	2K	PRODUCER	Ben Groves
RAW	2048x1152	FRAME BATE	25p	DIRECTOR	Jamie Thornham
ASPECT RATIO	2040/1102		230	DIT	Amanda Fox
CODEC	ProRes4444	CHECKSUM	YES		

	NAME	MAKE/MODEL	CAPACITY	SERIAL NO.	
HARD DRIVE 1	UNSPEAKABLE THINGS_HARD DRIVE A	G-DRIVE 0G03125	3TB	S/N:P8JJL3VP	
HARD DRIVE 2	ARD DRIVE 2 UNSPEAKABLE THINGS HARD DRIVE B		3TB	SN:P8JJ2PLP	
RUSHES SERVER	MG_MAD_2FTP602	N/A	7.8TB	N/A	

UNSPEAKABLE THINGS

DIT Log - Shoot Day 07 - Sunday 26/03/17

	VIDEO FILES									
STORAGE	ROLL NO.	SERIAL NO.	FIRST CLIP NAME	LAST CLIP NAME	FOLDER SIZE	NO. ITEMS	PLAYBACK TEST?	NOTES/ ERRORS		
CAMERA CARD	A019R5L0	NHKP1103	A019C001_170326_R5L0	A019C014_170327_R5L0	49.97GB	17	YES			
HARD DRIVE A	A019R5L0	NHKP1103	A019C001_170326_R5L0	A019C014_170327_R5L0	49.97GB	18	YES			
HARD DRIVE B	A019R5L0	NHKP1103	A019C001_170326_R5L0	A019C014_170327_R5L0	49.97GB	18	YES			
RUSHES SERVER	A019R5L0	NHKP1103	A019C001_170326_R5L0	A019C014_170327_R5L0	49.97GB	18	YES			

	VIDEO FILES									
STORAGE	ROLL NO.	SERIAL NO.	FIRST CLIP NAME	LAST CLIP NAME	FOLDER SIZE	NO. ITEMS	PLAYBACK TEST?	NOTES/ ERRORS		
CAMERA CARD	A020R5L0	NHKP1148	A020C001_170327_R5L0	A020C006_170327_R5L0	14.63GB	9	YES			
HARD DRIVE A	A020R5L0	NHKP1148	A020C001_170327_R5L0	A020C006_170327_R5L0	14.63GB	10	YES			
HARD DRIVE B	A020R5L0	NHKP1148	A020C001_170327_R5L0	A020C006_170327_R5L0	14.63GB	10	YES			
RUSHES SERVER	A020R5L0	NHKP1148	A020C001_170327_R5L0	A020C006_170327_R5L0	14.63GB	10	YES			

SOUND FILES							
STORAGE	ROLL NO.	FIRST FILE NAME	LAST FILE NAME	FOLDER SIZE	NO. ITEMS	PLAYBACK TEST?	NOTES/ ERRORS
SOUND CARD	S015	74T01.WAV	76T02.WAV	564.7MB	17	YES	
HARD DRIVE A	S015	74T01.WAV	76T02.WAV	564.7MB	17	YES	
HARD DRIVE B	S015	74T01 WAV	76T02 WAV	564 7MB	17	YES	