Image File Management

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Contents

- Image file formats
- How Lightroom Classic (LrC) Works
- My current image file workflow
- Importing Images and the Catalogue
- Managing Images within LrC : Collections
- Using External Editing software from LrC
- Use of Export function
- Keeping track of competition images (PDI & Prints)
- Printing at home and using external services
- Importance of back-ups

Image File formats



Raw file ; lossless

- · Canon: CR3
- Fuji: RAF
- Nikon: NEF
- · Olympus: ORF
- Panasonic: RW2
- · Sony: ARW



TIFF or TIF Tag Image File Format (1986)

- lossless; some types are proprietary; developed by Aldus/Adobe
- Can be compressed (LZW)
- Can contain layers
- Large!

- DNG
- **DNG** Digital Negative ; generic RAW (2004)lossless; universal; developed by Adobe



PSD Native Adobe Photoshop File Format (1990)



Jpeg or Jpg (1992) Joint Photographic Experts Groups

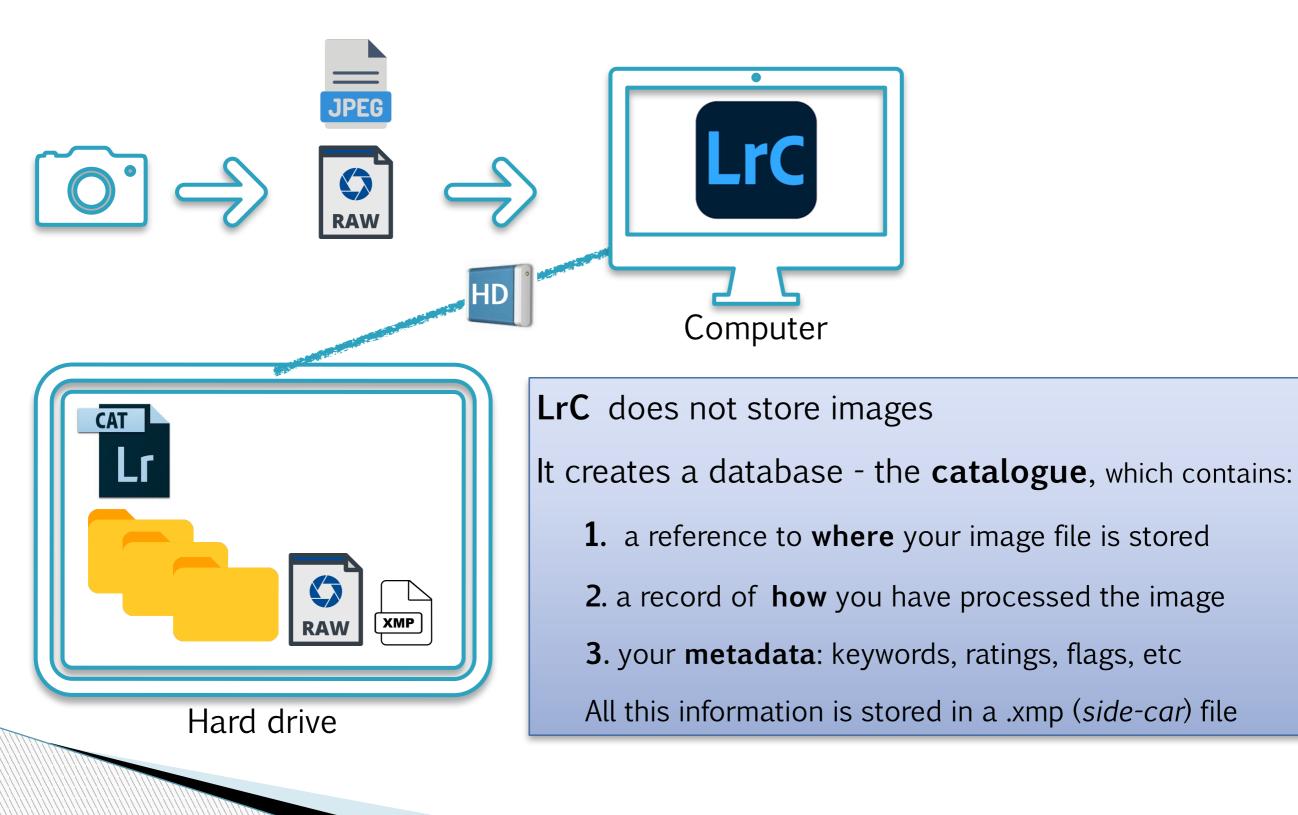
- Lossy format (10x compression)
- · Small !
- $\cdot\,$ But low resolution



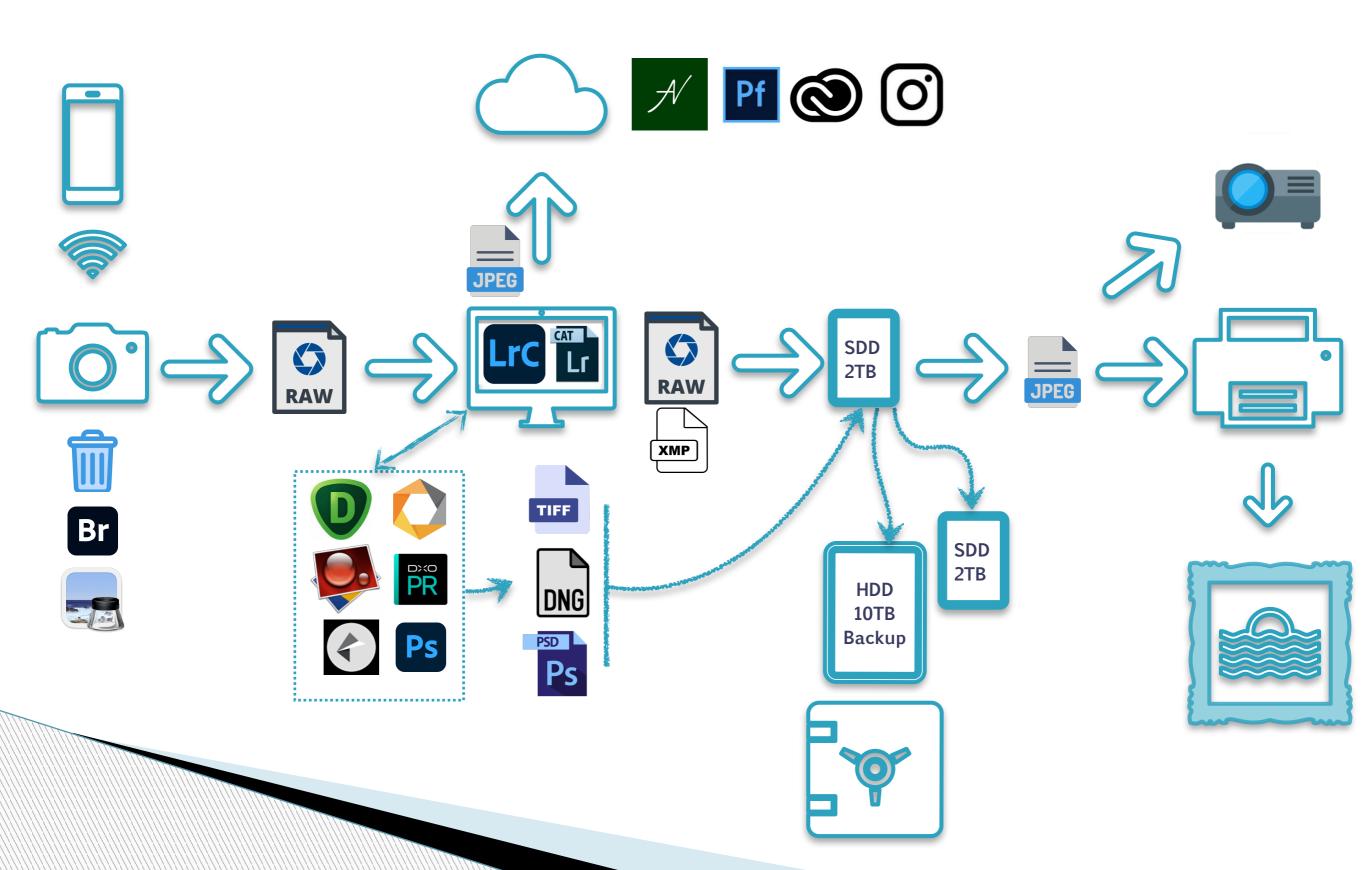
A jpeg image of a European wildcat with the compression rate increasing (righ-to-left)

- Iossless
 Can be
 - compressed (LZW)
- Can contain layers
- Large!

How Lightroom Classic works

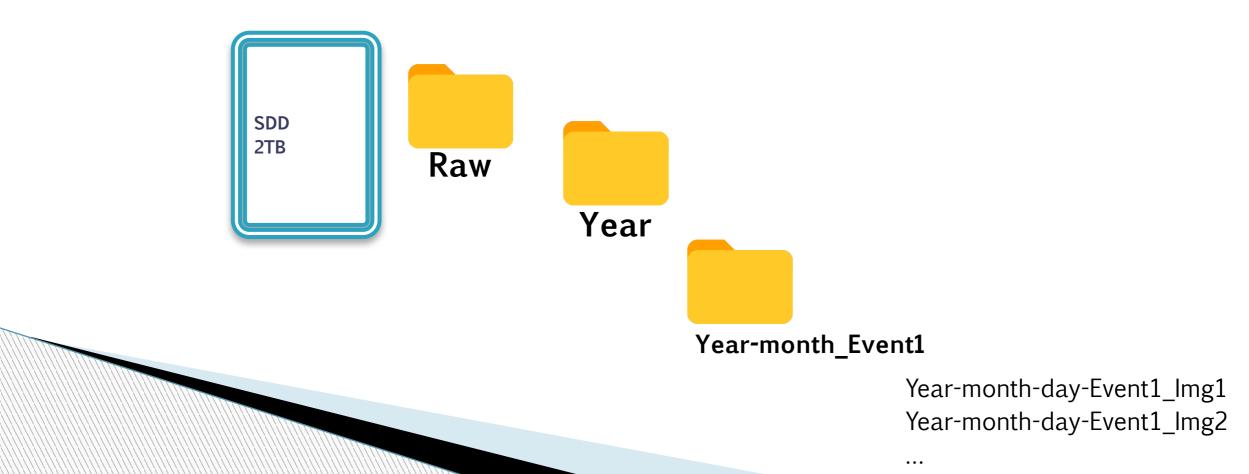


My current digital image workflow



Importing Images into LrC

- We recommend using LrC to import your images from camera or memory card
 - This will help you to.....
 - Create a new folder or put your images in a folder which already exists
 - Give your images a meaningful File Name (e.g. related to event)



Importing Images into LrC

- When you import an image onto your computer using LrC ... BEST PRACTICE
 - Image itself is not imported into LrC
 - Image itself is imported into "My Pictures" or whatever folder you store your images in your computer
 - Lightroom "views" your images

- When image is edited in LrC, it creates a file of changes which is stored within or beside your original image called an .xmp file (sometimes called a Sidecar File)
 - Original file in My Pictures is not altered
- When you view your image in LrC, you are seeing your original image plus the changes/edits you have made in LrC

Catalog/s in Lightroom



- A catalog is a database that tracks the location of the photos you are viewing in LrC and information about them
- When you edit photos, rate them, add keywords to them, or do other things to photos in LrC, all those changes are stored in the catalog as is location of .xmp file.

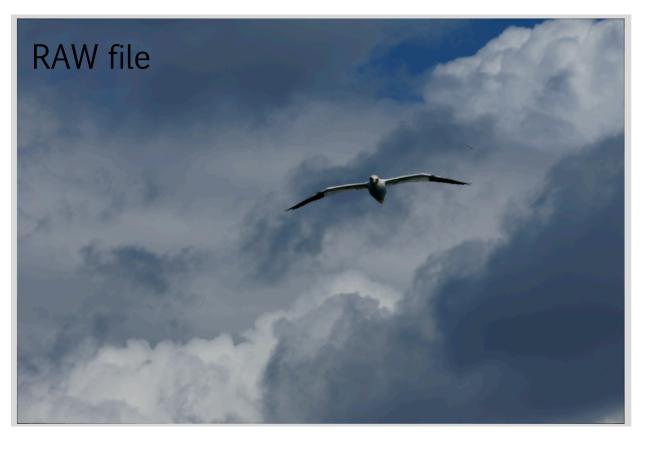


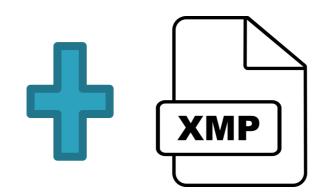
 The original photo (RAW) files themselves are not touched.



.xmp Files

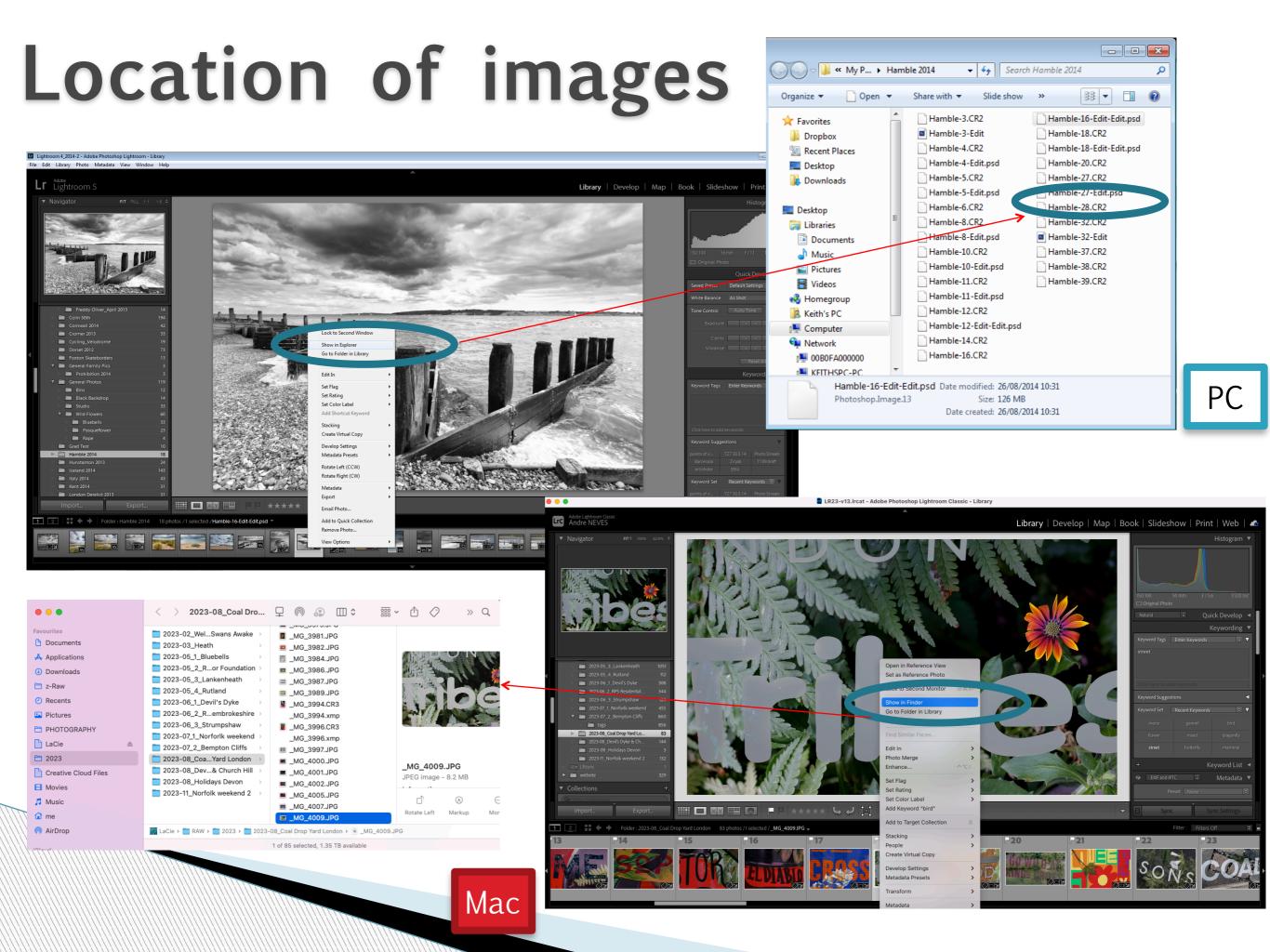
Dependent on settings and file type, you might or might not "see" the .xmp "sidecar" file in your hard drive - don't worry about this, LrC takes care of it !









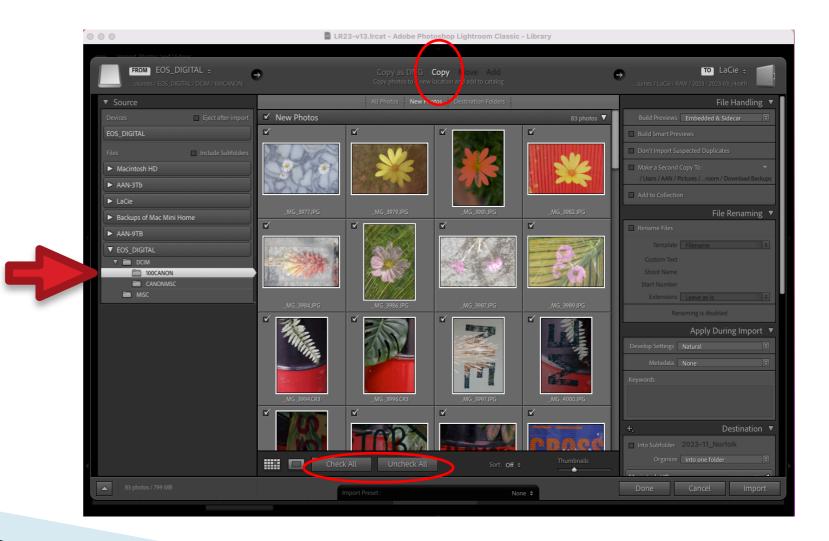


File import into LrC

- Attach camera to computer and switch camera on
- or insert memory card in reader
- Click "Import" in Library Module of LrC

	Catalog	
	All Photographs	10734
	All Synced Photographs	1091
	Quick Collection	
	Previous Import	
	Photos That Failed to Export	
▼	Folders	- +,
	Qv Filter Folders	
	Macintosh HD	247 / 494 GB ◀
	AAN-1Tb	•
	Import	Export

- Dialogue box will open and your camera or memory card reader should be listed as a Source
- Click on your camera source and all photos on camera or memory Card will be shown
- Click on Copy in the middle top of window
- Next select (by Checking or Unchecking) the photos you wish to download onto Computer and view in LrC



File import into LrC

File Handling 🔻
Render Previews Minimal
Don't Import Suspected Duplicates
Make a Second Copy To : 🚽
C: \ Users \ Keith's\ Download Backups
File Renaming 🔻
✔ Rename Files
Template Custom Name - O 🗘
Custom Text LR test 👻
Shoot Name

xtensions Leave as-is

<u>File Handling</u> Click "Don't import suspected duplicates"

File Renaming

Generally you will wish to give your filename a more useful name

Tick Rename File box

Use Custom Name-Sequence template

Type in the Text for the way you want the filename

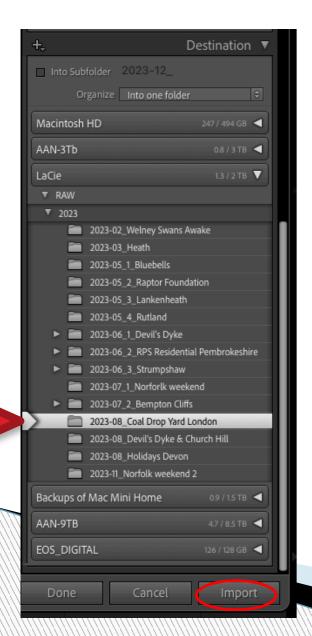
Extensions - Leave as is (that way, if the files are raw, they stay raw, if they are jpgs, they stay jpgs etc)

<u>Apply during Import</u> No need to do anything here

Арр	bly During Import	▼	
Develop Settings	None		
Metadata	None		
Keywords			

Destination- where do you want your images?

- You can either....
 - $^\circ\,$ Create a new folder using LrC within \My Pictures OR
 - Add images into an existing Folder on your Computer



- Destination setting this correctly will ensure the imported photos go into the right place on your hard drive
- In this example, I'm importing some new photos into an existing folder in my 2023 folder called "2023-08_Coal Drop Yard London"
- I have unticked "Into Subfolder" as I don't need a new folder
- To create a new folder, I would choose the target folder by clicking it first, then tick "Into Subfolder" and then type a new name for it in the **Organize** box
- Lastly click **Import** button (lower right)

Files in "2023-8_Coal Drop Yard London" Stored in external SSD drive

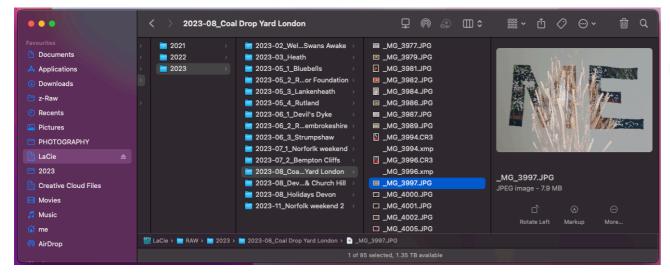


Image files and .xmp files

LrC Catalog generally stored in Pictures (main computer hard rive)

•••	< > LR23		₽ @ @ Ш≎	i• û ⊘ ⊙• ín q
Favourites Documents Applications	 20230710-SceepPRIME.tiff 20230710-ScpPRIMEXD.tiff APJ_OEMCAete_Profile_Set > 	<pre>backups > label{eq:labelee}lee}llabel{eq:labelee}l}labelee}l}}}}}} labelee} labelee} lab</pre>	 Backups Lightroom Settings LR23 Helper.Irdata 	
 Downloads z-Raw 	Canon		 LR23-v13 Helper.Irdata LR23-v13 Previews.Irdata LR23-v13 Smreviews.Irdata 	LrC
Pictures	IR23 →		 LR23-v13 Sync.Irdata LR23-v13.Ircat 	CAT
 PHOTOGRAPHY LaCie 	 Photo Booth Library Photos Library.photoslibrary 		LR23-v13.lrcat-data LR23-v13.lrcat-shm LR23-v13.lrcat-shm LR23-v13.lrcat-wal	
 2023 Creative Cloud Files 			LR23-v13.lrcat.lock LR23.lrcat LR23.lrcat	LR23-v13.lrcat Adobe Lightroom Library - 1.14 GB
Movies Music			 Temporary Import Data.db Temporary Imt Data.db-shm 	© More
me	🕮 Macintosh HD > 🛅 Users > 🛅 me > 🛅		Temporary Imrt Data.db-wal v13.lrcat I, 271.42 GB available	

When LrC is opened

 It accesses your images in Pictures

and

 It associates any changes to those images using the .xmp files

Managing images in Lightroom

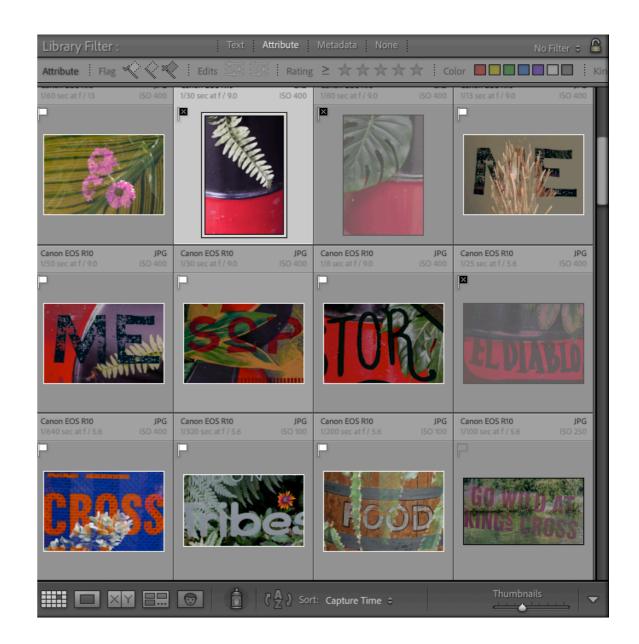
- Keywords
- Flags
- Ratings
- Colour labels
- Using all/some of these will enable you to search or categorise images

Keywords way which will help you find specific images

In Library Module Add keywords to images Find all images with a specific keyword

Rating Photos

- Flags (P=flag; U=unflag; R=reject)
- Ratings (give your images "x" stars)
- Colour Labels
- All help you to "rank" or "sort" your images
- Use whatever system works best for you



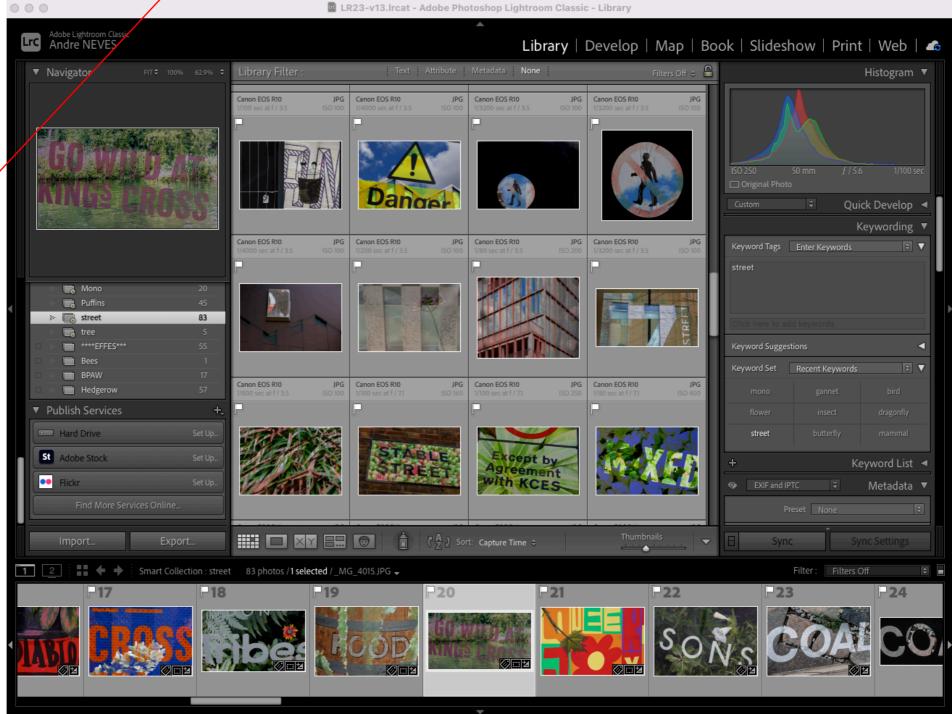
YouTube video 1 YouTube video 2

Collections – why use them?

- Collections are designed to group photos for a specific purpose
- Unlike folders, a single photo can be in multiple different collections without taking up extra space on your hard drive
- Images in Collections are views of the image they are not duplicate images
- Photos in Collections can come from any number of different folders on the hard drive

In Library Module, click here to Create a new Collection





Collections vs Smart Collections

- Collections are created by you by dragging and dropping images from multiple folders into a single place
- Smart Collections are created by you but are created automatically by using the metadata
 - Ratings, labels, keywords, etc

Collections Sets (of collections within a Collection)

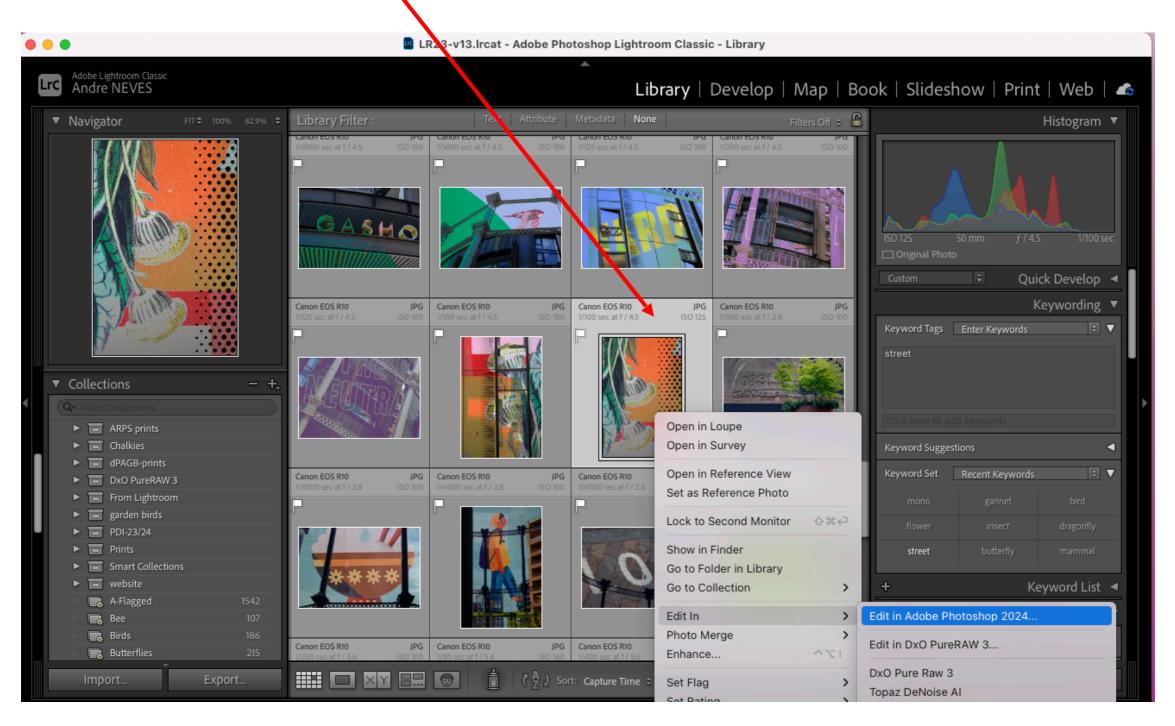
You can use collections to shortlist images for club competitions

Using External Editing software from LrC

- To avoid multiple versions of your images
 Always enter the other software *from* LrC
- Images will export from LrC
- Do your editing in external software
- Close image as a "save image" in other software and image will save back into LrC
 - But more importantly be saved in your "Original Folder"



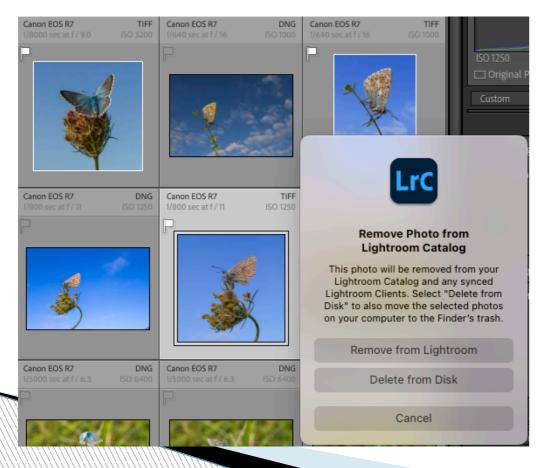
For instance, editing a photo in Photoshop...... Right mouse click the image



Avoiding multiple versions...

Target

- Keep original RAW file
- •Only store your best Final edited Image in LrC
- If you have edited in external software such as PS, remove RAW (or jpg) original from LrC but keep edited file
 - Right Mouse Image Remove from Lightroom option



If you wish you can remove the original (RAW) file from LrC ; it won't be deleted from Original Folder ! only being removed from LrC)

Delete from Disk, all "non-final" versions

Keeping track of what you enter into Competitions

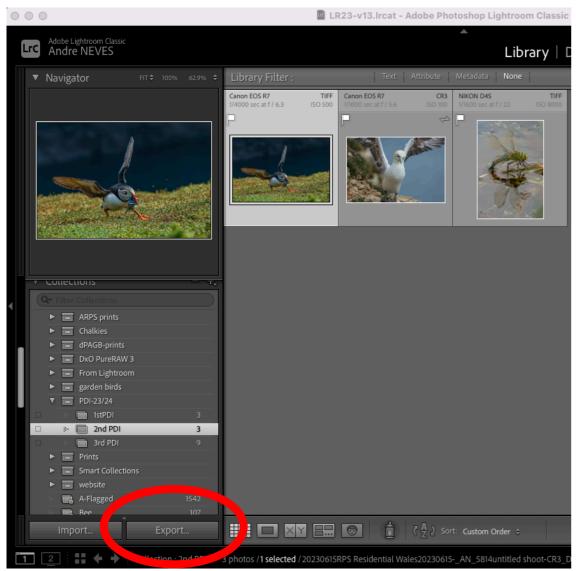
You could create collections

Or

- You could export Final Versions outside of LrC for storage
 - Benefit is you keep PDI resized versions away from final full version in LrC
 - You keep "bordered" print versions away from LrC

Exporting images

In Library Module



			Export One File
	Even end To	Hard Drive	
	Export To:		
> Lightroom Presets		Export One File	
> Helicon Focus		▼ Export Locati	
Vuser Presets			To: Desktop
PDI		Fold	ler: /Users/me/Desktop
PDI			Vent in Subfolder: 2nd PDi
			Add to This Catalog Add to Stack: Below Original ♀
		Existing File	es: Ask what to do
		V File Naming	
		✓ Rename To:	Custom Settings
		Custom Te	ext: AAN Start Number: 1
		Examp	ele: AAN-01.jpg Extensions: Lowercase
		▼ Video	
			✓ Include Video Files:
		Video Form	
		Quali	
		Quali	gv
		File Settings	
		Image Form	nat: JPEG 🕒
		Quali	ity: 100 🗌 Limit File Size To: 100 K
		Color Spa	ce: sRGB IEC61966-2.1 Sit Depth: 8 bits/component 0
			HDR Output
		▼ Image Sizing	
		✓ Resize to Fi	t: Width & Height 🕒 Don't Enlarge
			W: 1,600 H: 1,200 pixels 🕤 Resolution: 300 pixels per inch G
		V Output Sharp	ening
		Sharpen Fo	r: Screen O Amount: Standard O
		▼ Metadata	
		Inclué	de: Copyright Only
			Remove Person Info 🖉 Remove Location Info
			☑ Write Keywords as Lightroom Hierarchy
		► Watermarking	g No watermark
		Post-Process	ing Do nothing
Add	Remo	ve	

Plug-in Manager...

Cancel

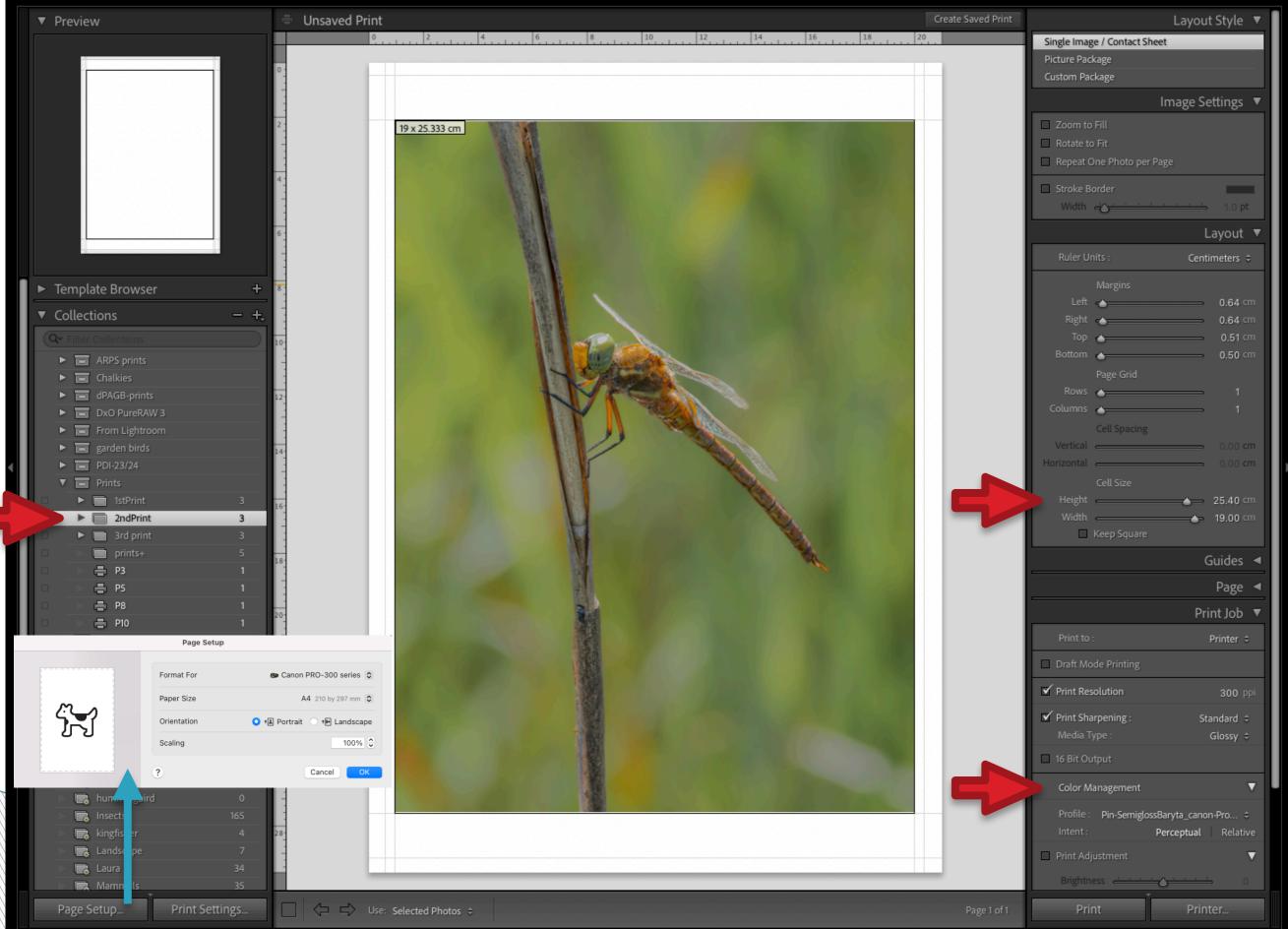
Printing



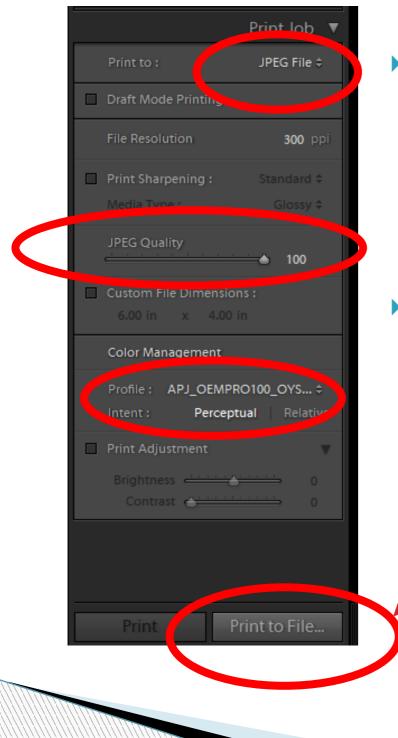
- Printing direct from LrC to a Printer
 - Straightforward
 - Use Page SetUp for paper size
 - Add Stroke if required
 - Click Rotate to Fit and then drag borders as required







To create a file to send to DS Colour



Prepare your image as previously described, then Print to "jpeg" file

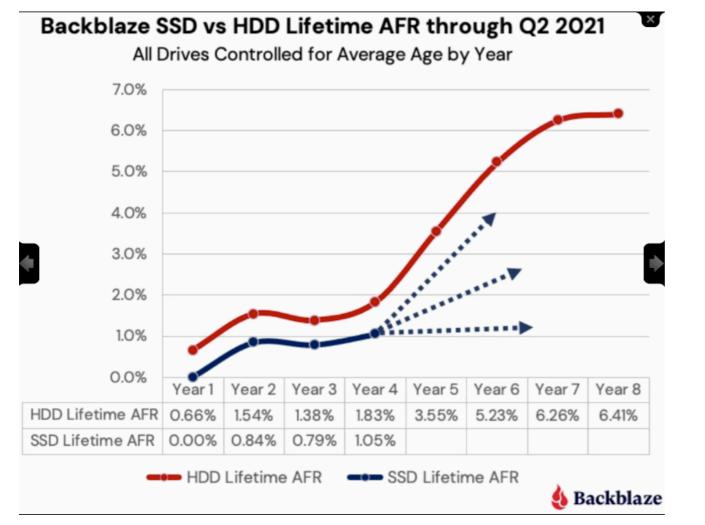
Use the DS Labs Colour profile –need to download first

When you click this box, a dialogue box will open to define where your file is stored

Importance of Backing up your images

How many members don't have their images on multiple hard drives?

Hard Drive failures may mean you loose ALL your precious photos



HDD - moving parts/heating **SDD** - heating SSD

Source

HDD : hard disk drive SDD : solid disk drive



Hard Drives are cheap Your images are priceless !



	HDD		SDD					
Model	Size	Write speed (MB/s)	Read speed (MB/s)	Write speed (MB/s)	Read speed (MB/s)		Price* (£)	Price/ Tb
WD 5TB My Passport Portable HDD USB 3.0	5 Tb	115.7	114.5	Х	Х		<u>104</u>	20.8
WD 6TB My Book Desktop HDD USB 3.0	6 Tb	190.6	189.5	Х	Х		<u>123</u>	20.5
SanDisk 2TB Extreme Portable SSD	2 Tb	Х	Х	1,000	1,050	Saba	<u>130</u>	65
Samsung 980 PRO M.2 NVMe SSD 2TB PCIe 4.0	2 Tb	Х	Х	5,000	7,000	V 1000000000000000000000000000000000000	<u>138</u>	69
Housing for Samsung 980 PRO	Х	Х	Х	Х	Х		<u>19</u>	Х

*at amazon.co.uk on 10 Dec '23

1Tb ~ 40,000 images !!! (based on 25 MB per RAW file)

