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## Intro Lightroom

- WELCOME!
- Paul Sauter and Michael Lalor
- + Brain Trust!
  
- Toilets
- Emergency exits
- Kitchen – Coffee/Tea

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## Disclaimer

- My own view and workflow – many other ways of doing things!
- I'm still learning too! Constantly!
- Windows, but very similar for Mac
- Mainly Lightroom, but also applicable to other programmes

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## Contents

**DAY 1**

- Lightroom? Why?
- RAW and JPEG: a reminder;
- Where are my Files, Folders, Catalogs?
- How do I "import", flag, rate, make a collection?

**DAY 2**

- Editing ("Develop")
- Exporting and Printing
- Photoshop

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## Caution

- Editing can be a bit tricky!
- Much more variation/variables in editing software than in cameras!
- And with some software you can do more than with others;
- We'll show a workflow to keep you on track.

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## Editing? – Why?

- Enhancing the image, improving the message
  - Original image may not have the right crop, exposure, colour balance or may have some distracting elements;
- Making an already good image even better
  - Can I make a bad image into a good one??
- Process and improve RAW files

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 **Editing? – Why?**

- Can I make a bad image into a good one??
  - Poor subject: no
  - Poor composition: maybe yes
  - Wrong focus: no
  - Wrong depth of field: no, maybe
  - Wrong shutter speed/no tripod: no
  - Wrong exposure: maybe
  - So, get the basics right first!! In camera!

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 **Editing? – Why?**

**Few examples:**

- Fix exposure

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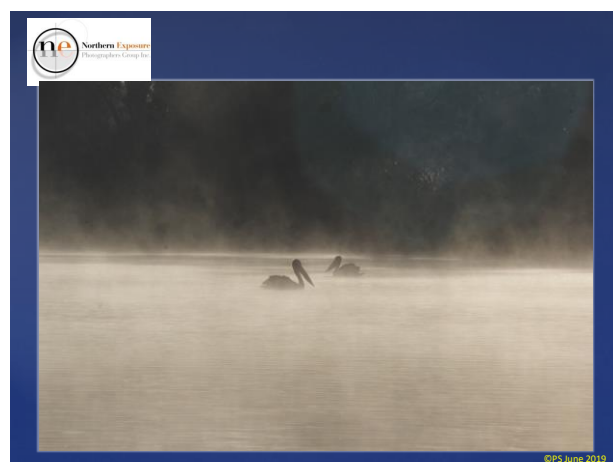
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 **Editing? – Why?**

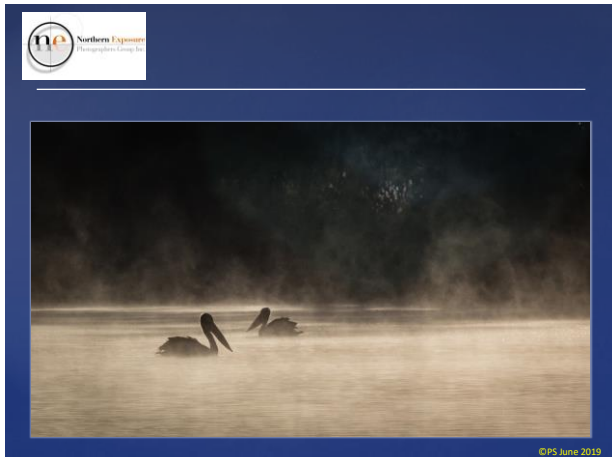
- Improve composition (crop)

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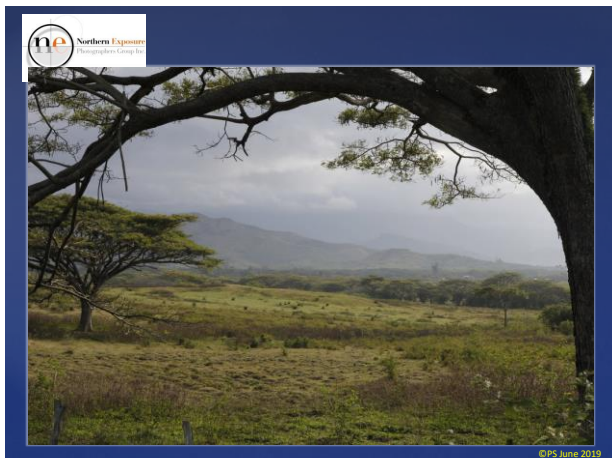


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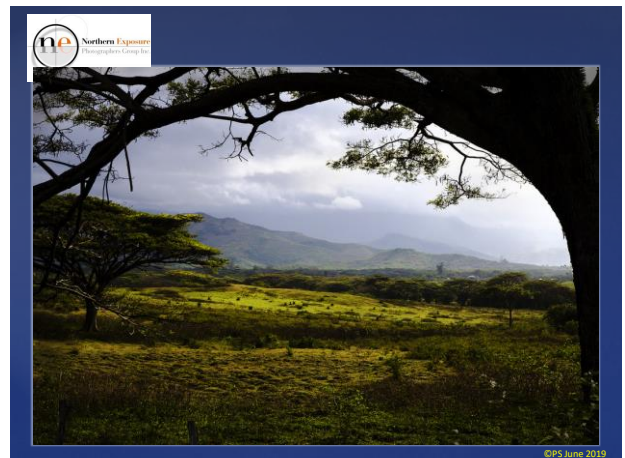
## Editing? – Why?

- Improve quality of RAW, and draw the eye (dodge and burn)

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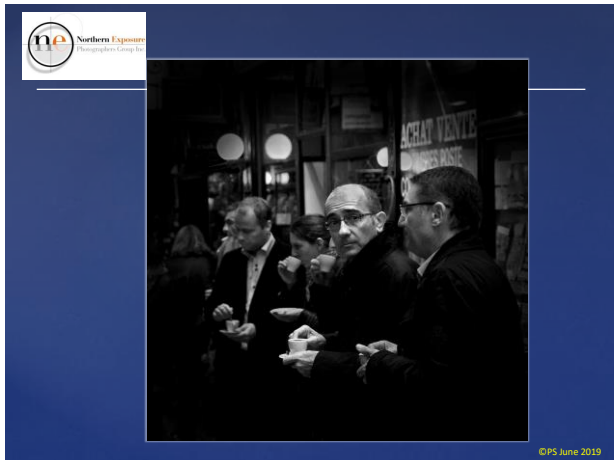
## Editing? – Why?

- Don't let the eye escape (d&b, crop, vignette)

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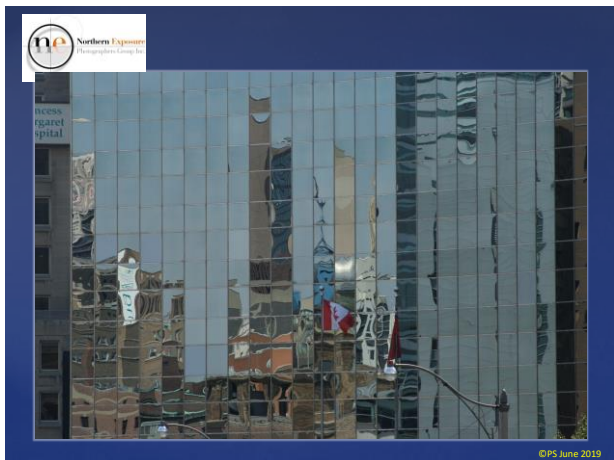


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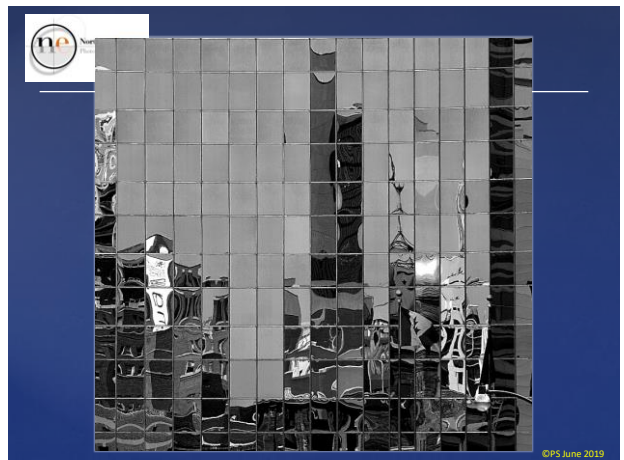
Editing? – Why?

- B&W conversion (+ crop and straightening lines)

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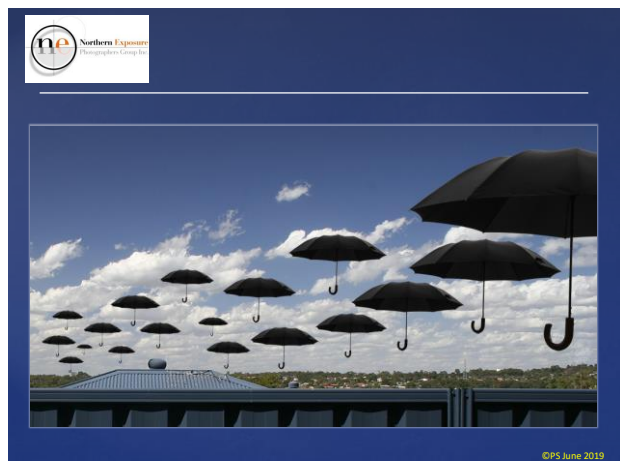


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Editing? – Why?


- Compositing – in Photoshop

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 **Editing – Rules**

- Is it allowed?
- **Most competitions yes, but check the rules:**
- e.g. ANZANG
- “The removal, alteration, addition or relocation of elements within the image is not allowed.”

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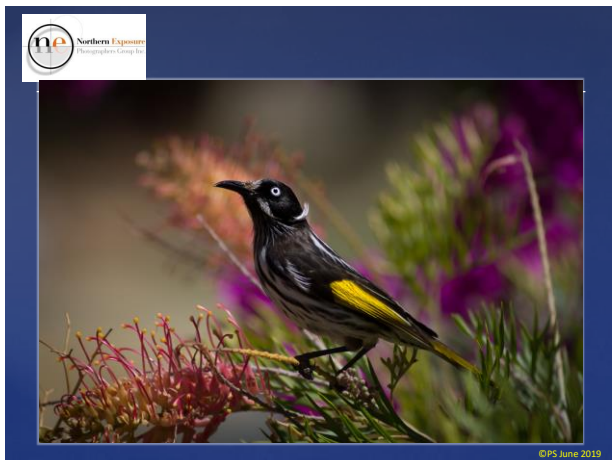
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 **Editing – Rules**

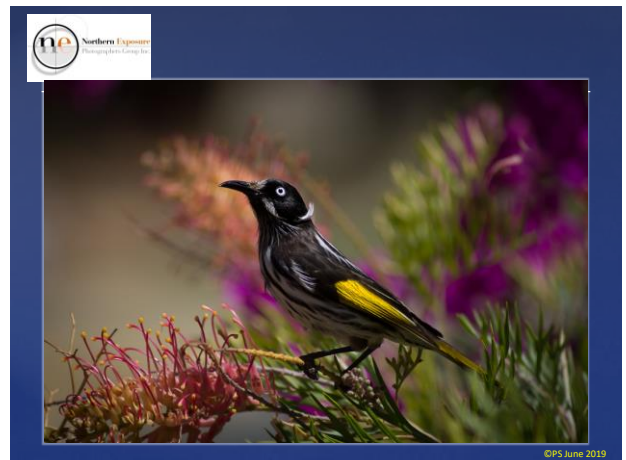
- **NEPG rules:**
  - Any involvement of a digital process in the origination, manipulation, storage or printing of an entry is irrelevant to its eligibility;
  - All elements of an image need to be photographic in nature and created by the member;
  - All post production and editing must have been done by the member entering the image.

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 **Lightroom? – Why?**

- Previous Adobe Camera Raw + Photoshop/EL
- Now Lightroom (+ Photoshop)
- Easily move between the two in Creative Cloud (CC)
- “Easy” to use
- Good deal (?) for LR+PS
- Lightroom (CC) for phone/tablet
- I’d like to KIS(S)! – debatable!

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 **Lightroom? – Why?**

- You can do almost anything in LR;
- then go to PS to do anything extra;
- and back to LR for export, printing etc.

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## Lightroom? – Why?

	Lr Lightroom CC	Ps Photoshop CC
Crop, rotate, and straighten images	•	•
Organize images	•	
Tag and rate	•	•
Process raw files	•	•
Convert to black and white	•	•
Retouch photos	•	•
Combine images		•
Isolate objects	✓	•
Remove objects	✓	•
Make panoramas	•	•
Work on desktop	•	•
Work on mobile	•	
Work on web	•	

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## Lightroom? – Why?

- **Lightroom:**
  - very similar to Camera Raw for PS
  - different from Camera Raw for EL
  - different file-handling and treatment than PS
- **Lightroom Classic: for desktop**
- **Lightroom: for mobile**

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## Lightroom? – Why?

	Lightroom Classic	Lightroom
Where you prefer to do your digital photography work	Desktop only	Desktop, mobile and web
Location of originals	Local hard drive	Cloud
File backup	Not included	Automatic
Ease of use	Most comprehensive	Intuitive, streamlined
Organisation and photo search	Manual keywords	Automatic tagging and intelligent search

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## Software

- **Windows 10 Photos / Google Photos**
- **Mac: Preview**
- **(Picasa)**
- **Nikon/Canon/etc software**
- **Affinity (AU\$79) (Mac and Windows)**
- **PhotoDirector \$75 or \$49/yr subscription**
- **On1 Photo Raw \$80 or \$130/yr subscr**
- **CaptureOne (U\$299/U\$20/m)**

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## Software

- **LR+PS through Adobe Creative Cloud: \$14/m, \$171/yr**
- **Elements \$145**
- **LR6 \$204 (Officeworks)**
- **Creative Suite CS6 for US\$151?**
- **CC Pros: updates, (relatively) cheap PS+LR**
- **CC Cons: stops when payments stop (some functionality left for LR)**

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## Software

### Adobe Creative Cloud (CC)

	LR plan	CC Photo plan 20 GB	CC Photo plan 1TB
Lightroom	✓	✓	✓
Lightroom Classic		✓	✓
Photoshop		✓	✓
Storage	1TB	20GB	1TB
A\$/mo	\$14.29	\$14.29	\$28.59
A\$/yr	\$171.48	\$171.48	\$343.08

may 2019 prices

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## Camera Settings

some relevant camera settings:

- RAW and/or jpg
- Color Space (sRGB, AdobeRGB)
- White Balance

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## Camera Settings

RAW ↔ JPEG

- CR2/NEF/others ↔ jpg
- all image data ↔ processed in camera
- large files ↔ small files
- needs processing ↔ use straight away

_MG_7758.CR2	10/03/2016 13:45	CR2 File	20,919 KB	5184 x 3456
_MG_7758.JPG	10/03/2016 13:45	JPG File	4,399 KB	5184 x 3456
_MG_7759.CR2	10/03/2016 13:45	CR2 File	22,113 KB	5184 x 3456
_MG_7759.JPG	10/03/2016 13:45	JPG File	4,959 KB	5184 x 3456
_MG_7760.CR2	10/03/2016 13:46	CR2 File	23,819 KB	5184 x 3456
_MG_7760.JPG	10/03/2016 13:46	JPG File	5,845 KB	5184 x 3456
_MG_7763.CR2	10/03/2016 13:49	CR2 File	25,505 KB	3456 x 5184
_MG_7763.JPG	10/03/2016 13:49	JPG File	7,605 KB	3456 x 5184

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## Camera Settings

- use RAW! (or later .....
- better dynamic range
- better White Balance adjustments
- but bigger files, need processing
- can set your camera to RAW or RAW+JPEG
- Set max quality for RAW or JPEG
- or maxRAW + med/lowJPEG

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## Camera Settings

Canon example

JPEG only

RAW only

RAW + large JPEG

RAW + small JPEG

2018_08_18_3755.CR2	18/08/2018 12:19	CR2 File	21,333 KB	5184 x 3456
2018_08_18_3755.JPG	18/08/2018 12:19	JPG File	737 KB	1920 x 1280
2018_08_18_3756.CR2	18/08/2018 13:54	CR2 File	22,210 KB	5184 x 3456
2018_08_18_3756.JPG	18/08/2018 13:54	JPG File	1,209 KB	1920 x 1280

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## Camera Settings

Color Space

sRGB

AdobeRGB

sRGB	Adobe RGB
Colors display correctly on web	It is the larger color space
Simplest workflow	Usually better for printing
Prints look fine	Can convert to sRGB for web display
but	but
It is the smaller color space	Won't display correctly on web without conversion

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## Camera Settings

Color Space


- with RAW: doesn't matter: set color space during (PS)/after (LR) processing (next week)
- with jpg for web etc: camera sRGB
- with jpg for printing: camera AdobeRGB

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## Camera Settings

- **Color Space**
  - on your camera



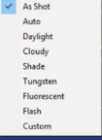
Color space: sRGB, Adobe RGB

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## Camera Settings

- **White Balance**
  - *“white balance in digital photography means adjusting colors so that the image looks more natural”*
    - with RAW: use camera Auto; correct afterwards in software;
    - or, if preferred: a fixed setting for a shoot; correct afterwards in software;
    - jpg: use Auto or preset as required, e.g. Daylight, Cloudy, Tungsten.



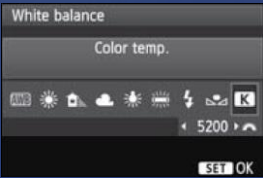
White Balance: As Shot, Auto, Daylight, Cloudy, Shade, Tungsten, Fluorescent, Flash, Custom

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## Camera Settings

- **White Balance**
  - on your camera



White balance: Color temp., 5200

White balance: As Shot, Auto, Daylight, Cloudy, Shade, Tungsten, Fluorescent, Flash, Custom

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## LR – start

### Open Lightroom

- from CC (use this one!)
  - only when on-line!
  - shows upgrades
- from desktop shortcut
  - if not online



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## LR - screen

### Screen Layout

- tabs: Library – Develop – Print
- bottom L: Import – Export
- and lots of others



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## Library tab

- **Navigator**
- **Catalog (database)**
- **Folders (where the images linked to LR are stored)**
  - shows “?” when previously imported but now not connected (or renamed)
- **Collections (like albums)**
- **Publish Services (Facebook)**



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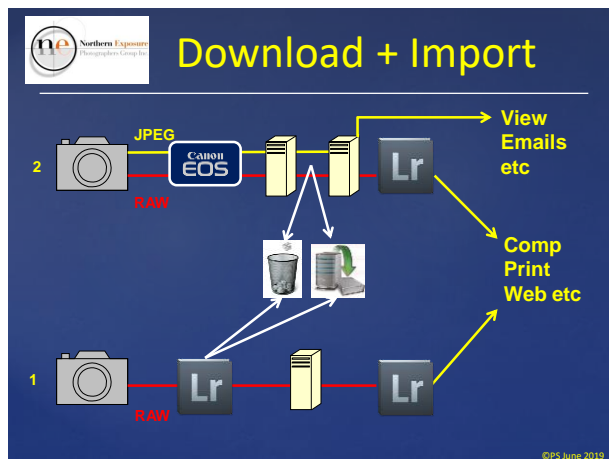


## Download + Import

- Downloading
  - directly via LR to storage drive (+backup) and LR at same time;
  - via camera software to drive, then later to LR.

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## Download + Import

if you do RAW+JPEG

- you only need to import RAW:
  - LR>Edit>Preferences
  - untick "Treat JPEG files ..."

Import Options

- Show import dialog when a memory card is detected
- Select the "Current/Previous Import" collection during import
- Ignore camera-generated folder names when naming folders
- Treat JPEG files next to raw files as separate photos

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## Download + Import

- Downloading – option 1
  - directly via LR to storage drive and LR at same time
  - Copy as DNG Copy  
Copy photos to a new location and add to catalog
  - preset subfolder and file name
  - also to back-up drive
  - choose a Keyword (optional)

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## Download + Import

- from camera/card:
  - Import....: This is a **Copy** from card to computer! + automatic **Link** to LR Catalog
  - work from left to right!
  - Left: Select source: **Camera**
  - Centre: **Copy All Photos/New Photos**
  - Right: To: select location/default
    - adjust file and folder names
    - add Metadata, Copyright, Keywords

Copy as DNG Copy Move Add  
Copy photos to a new location and add to catalog

All Photos New Photos Destination Folders

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## Download

- Downloading – option 2
  - via camera software to storage drive
    - preset subfolder name
    - preset file name
  - rename subfolder - optional
  - back-up
  - import to LR later

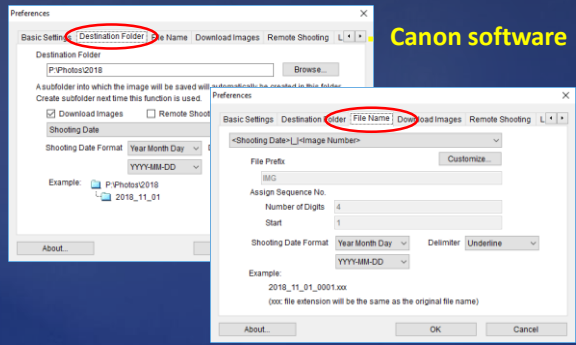
Copy as DNG Copy Move Add  
Add photos to catalog without moving them

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## Download

**Canon software**

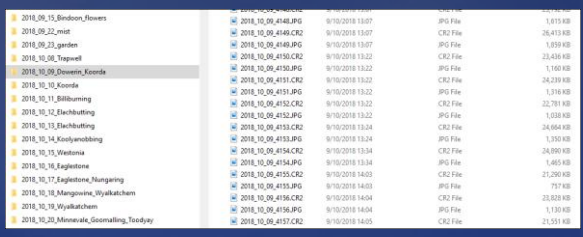


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## Download

- manually rename folders in Explorer, optional!



- CULL unwanted images (unsharp, over/under exp)
- back-up!

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## Import to LR

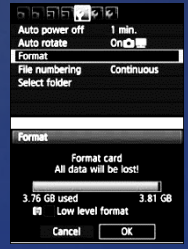
- previously downloaded images:
  - Import... (Import=Add, don't copy!)
 
  - select single image or all images in folder
  - add Metadata, Copyright, Keywords

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## Format Card

- After download, and backup(!),
  - and after checking that that all has worked!
  - Format card (in camera),
  - this also deletes images;



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## Files and Catalogs

- Where are my images
  - RAW<sub>(CR2/NEF)</sub>/jpg?
  - on e.g. C:\drive Pictures folder (Windows)
  - or on separate drive
  - regardless of software!
  - leave them there!
  - back-up at download! on external drive/cloud

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## Files and Catalogs

- LR is non-destructive, links ("import") to a (RAW) file, rather than importing/copying;
- linking and editing info in database:
  - Lightroom Catalog-2.lrcat (e.g. 497Mb for 24,000 photos)
- thumbprints in folder:
  - Lightroom Catalog-2 Previews.lrcat (e.g. 6.6 Gb)
- in C:\..\Pictures\Lightroom
  - best on desk/laptop, not external
- leave them, only need one Catalog!

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## Files and Catalogs

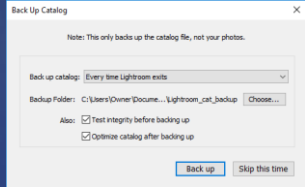
- so, unlike PS, you don't have to save an image when you've done some editing, your edits are saved in the Catalog.
- There is no File>Save As..!
- It combines RAW+Edits when you Export!
- So, backup your Catalog!

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## Files and Catalogs

- make backup of Catalog to external (LR will ask if you exit); Catalog only! Not the photos



- move photos using LR, otherwise it loses them!

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## Files and Catalogs

- Photos get lost if you delete, rename, or move them: “?”;
- move photos using LR;
- or find them back: “find missing folder”




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## Flags/Ratings

- In Library and Develop module: “Select Toolbar Content” to see options (small arrow lower right)
- set Flag, Stars or Colours from the bottom Toolbar
- click on Filters Off>Flagged (bott-right) to select images with Flags or Ratings

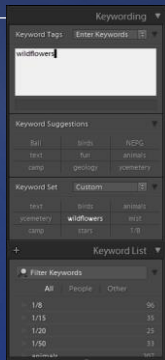


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## Keywords

- Select an image, and enter or select a Keyword;
- Click on an arrow on the Keyword List, to select all relevant images.



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## Collections

- What do you want to do with your photos?!
- Print, Digital, Photobook, Facebook, Web??
- Collect those photos you want in a Collection (links only, no copies!)
  - click + on Collections to Create a new one;
  - rhc: “Set as Target Collection”
  - find a photo, in any folder, hit “b”. Done, easy!
- One image can be in more collections
- Edits show in all collections

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## Editing – next week


**Vision-driven workflow:**

- Identify Intent
- Minimise Distractions
- Maximise Mood
- Draw the Eye

*with thanks to David duChemin  
craftandvision.com*

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## Export – next week

1. **To create a JPEG for projection, emails, photobooks etc**
  - File>Export or Library>Export button
  - Set various items: sRGB for projection/web
  - Check specific requirements (dimensions, max file size, etc)
  - Add as a new Preset

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## Export – next week

2. **To create a TIFF/JPEG for external printing**
  - File>Export or Library>Export button
  - Set various items: AdobeRGB for ArtsEdge printing
  - Check specific requirements
  - Add as a new Preset

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## Lightroom

**SEE YOU  
NEXT WEEK!**

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