



Teton Photography Club

The *Power* of
Lightroom: Finding
your work

Advanced Image Management

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Agenda for the morning

- Review the LR Library Module
- Demonstrate features to optimize work flow and performance
- Create smart collections to automate tracking of images
- Use data management tools to find images
- Use metadata to better understand your photography

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Lightroom Catalog - core

- **Virtual** spaces to store all metadata and adjustment information about images
- Does **NOT** contain the images
- Metadata:
 - Data about data
 - EXIF, camera, lens, settings
 - Owner, copyright, title, comments
 - Key words
 - Geo-tags
 - Virtual data



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Library Module Workflow - import

- Import workflow
 - Import from high-speed card reader – not camera
 - Pre-configure import destination; do not include duplicates
 - Configure “1:1” previews (expire at 30 days)
 - Convert to DNG at (after) import; do not write .XMP files
 - Rename file on import
 - Add “core” key words
 - Apply import preset of choice
- Search workflow
- Export workflow



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Library Module Workflow - import

- Import workflow
 - Apply import **preset** of choice – created in Develop module
 - Camera calibration
 - Lens corrections – chromatic aberration, distortion, and vignetting
 - Detail – color and luminance noise reduction; sharpening
 - Presence – clarity, (dehaze), vibrance, & saturation
 - Contrast and exposure (auto vs custom)
 - Camera and lens specific
 - Can be ISO specific

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Profiles are even more powerful tools

- Similar to pre-sets
 - All controls are set to neutral at start
 - Allow more variation in settings
- Standard, optional, user-defined
- Must be created in other software / imported
- Can create in Photoshop

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Library Module Workflow - search

- Import workflow
- Search workflow
 - Most important LR function
 - Search by text, attribute, or metadata – any one or all combined
 - Text – key words, file name, title, caption, description, etc
 - Attribute – flag, edits, rating, color, file type
 - Metadata – anything imaginable
 - Collections as search tools

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Collections in LR CC Classic

- Collections are virtual “pointers” to images in catalog
- Three types of collections
 - Built-in standards
 - Custom static collections defined by user
 - Custom “Smart” collections designed by user
- Images added to or deleted from collections do not affect virtual images in catalog or physical files in folders
- Deleting a collection does not delete images in catalog/folder
- Modifying or editing an image in a collection DOES change the image appearance in the catalog
- Collections can be grouped in collection sets

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Collections in LR CC Classic

- Standard collections (Catalog view)
 - All photographs
 - All synched photographs (to LR Mobile/CC)
 - Quick collection
 - Previous import
 - Previous export as a catalog
 - Duplicate files
- Standard collections (Collections view)
 - Smart Collections sets
 - All red, yellow, green, blue, purple
 - All rated as *, **, ***, ****, *****
 - All without key words
 - Last 30 days imports

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Lightroom Live

- Create an import / develop preset
- Finding stuff you lost or where you least expect it
- Create a Smart Collection
- Perform a self-diagnosis of style
- Perform a gear use study
- Perform a gear settings study
- Sharing your work on multiple devices
- Exporting or publishing - ???

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Export vs Publish

- Export places the images in a static location
- Publish uses plug-ins to manage sites
 - Sites on-line or disk/folder
 - Edits and updates are managed
 - Deletions are synchronized
 - “Smart” file management
 - Can retrieve on-line comments

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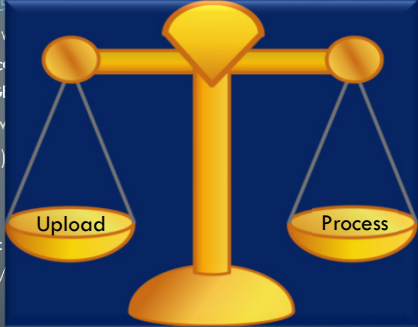
Optimization of Lightroom Speed - PC

- Keep your computer current – operating system and upgrades
- Use current Lightroom upgrade
- Minimize computer Start-up applications
- Close unused applications when editing
- Use your video processor card / graphics accelerator
- Run Disk Clean-up application (remove temporary/un-needed files)
- Defragment your computer hard drive(s)
- Always have 20-30% free drive space available

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Advanced LR Optimization

- <https://helpx.adobe.com/lightroom-classic/kb/optimize-performance-lightroom.html>
- Exceed Adobe hardware requirements
 - 64 bit multi-core processor
 - 12 GB of RAM (16 GB recommended)
- Catalog and preview storage
 - USB-2 – 35MB/sec
 - USB-3 – 400MB/sec
 - eSATA – 600 MB/sec
 - Thunderbolt – 10 GB/sec



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Optimization of Lightroom - Program

- Previews (always keep with catalog on fastest drive):
 - Create 1:1 previews on import
 - Delete 1:1 previews when not needed
 - Embed previews
 - Create and use "Smart Previews" for edits
 - Preview from Library not Develop Module
- Reduce the number of presets
- Consider DNG format for your raw files
- Optimize (& back-up) your LR catalog on exit
- If remains slow – close Lightroom and re-open
- If **all** else fails, consider additional catalog(s)
 - Last step if it can be done – personal vs client, special projects, etc.
 - This will really make it hard to find any image in 10 seconds!



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Advanced Display Tips

- Large, high resolution displays take time to generate
- 2560 x 1600 pixel native resolution on a 30" Retina display
 - Can reduce display size to 1:2 or even 1:3 to increase speed

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Advance Optimization Tips

- Create 1:1 previews on import (slows import / speeds workflow)
- Keep Standard previews small (at or above pixel size)
 - Set Quality to low or moderate
- Keep Catalog and Previews together (on fastest drive)
- Save 1:1 previews for as long as they will be needed
- Turn off auto-write to XMP
- Optimize Catalog on every exit
- Increase CameRaw cache size (20 GB)

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Optimization Workflow

- Take advantage of Lightroom's background operations
- Use Spot Removal and Local Adjustments Brush first
- Clear history if many adjustments are being made
- Lens corrections and Transform
- Local adjustments – gradient and radial tools
- Global adjustments at any time
- End with Details – Noise Reduction and Sharpening
- Avoid “unnecessary” corrections

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Summary

- Database functions of Lightroom save you time
- Work up-front pays huge dividends for years to come
- Lightroom helps you understand how you photograph
- Lightroom helps you determine value / need of gear
- Optimizing lightroom is valuable
- Workflow is important and helps efficiency



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