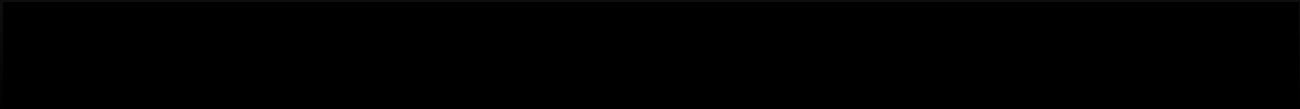


AFTER THE SHUTTER CLOSES II

John Flake



Seeing
Is
Believing

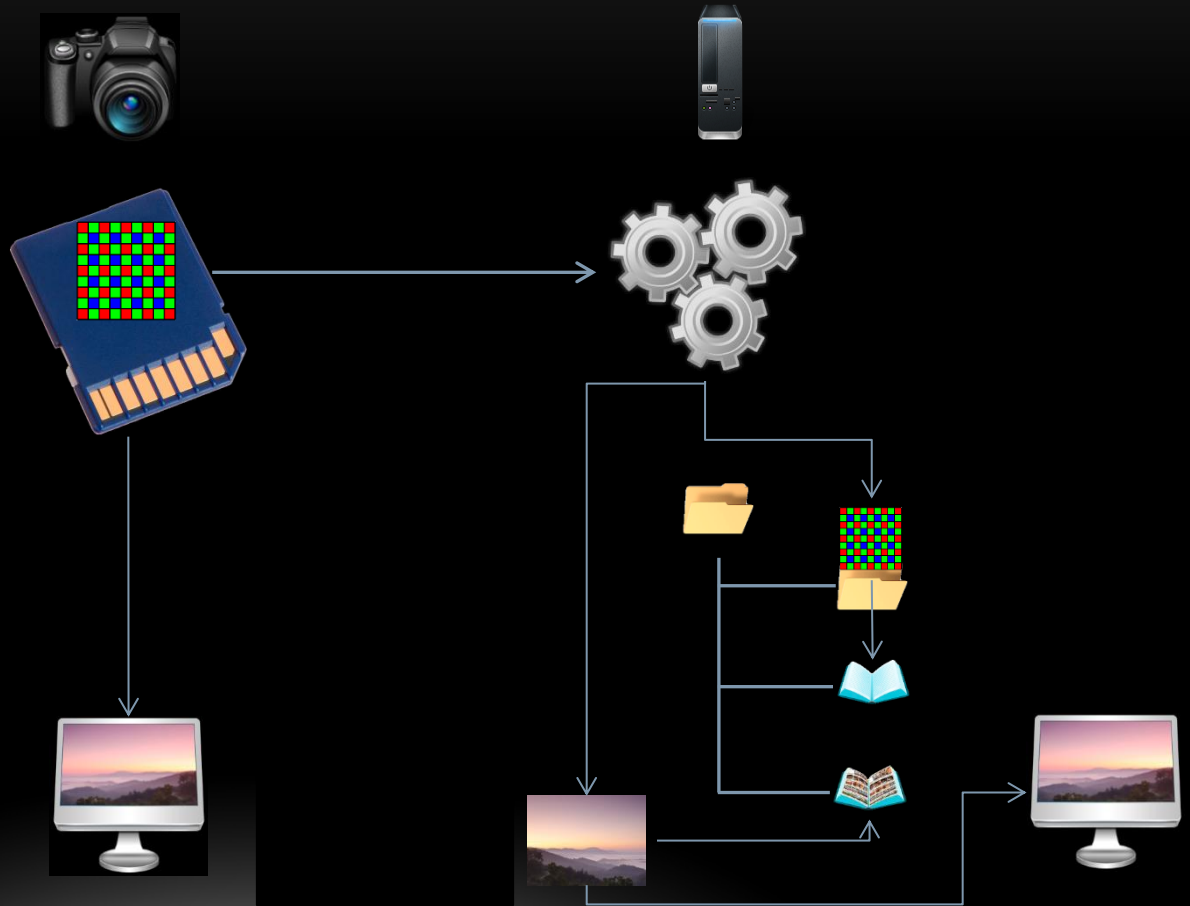


LIGHTROOM IS

- the only post-processing application most photographers will ever need.
 - Asset Management
 - Post Processing
 - Editor Integration
 - Output Management
- Lets Start with a Review

REVIEW - IMPORT

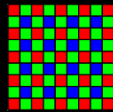
- Camera Card
 - Embedded Previews
- Prepare Catalog Import
 - Set 1.1 Preview
 - Name Photos
 - Name Destination Folder
- Lightroom Import
 - Folder
 - Raw Image
 - Catalog Database
 - Raw Image Location
 - Metadata
 - Preview Database
 - Create Preview
 - Display Preview



REVIEW – PROCESS FLOW

- RAW Processing is a **Nondestructive** Process

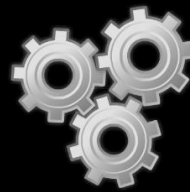
- Negative



- Metadata



- Previous Processes



- Produce Output
- Add Processes or Metadata

REVIEW – WORKFLOW

- Capture
- Import
 - Preview Size
 - Renaming
 - Location
- Organize
 - Select, Categorize, Group, Stack
 - Add metadata
- Search
- Develop & Retouch
- Export



TODAYS TOPICS

- Library
 - Keywords
 - Lineage
 - Interoperability
- Develop
 - Better Black and Whites
 - Spot Removal
 - Radial Filters
 - Soft Proofing



ORGANIZE – KEYWORDS



Keyword Area

ENTERING KEYWORDS

- Keywording
 - Keyword Tags
- Keyword Suggestions
- Keyword Set
- Keyword List

Tags

Suggestions

Sets

List

Keywording ▼

Keyword Tags Keywords & Containin... ▼

Antelope Canyon, Page, arizona, location, southwest, usa

[Click here to add keywords](#)


Keyword Suggestions ▼

Slot Canyon	Page	southwest
arizona	landscape	Horseshoe Bend
utah	COLORADO River	new mexico

Keyword Set 01 Family Grand Childr... ▼

Grand Children	Flake Julia	Flake Jena
Flake Tommy	Flake Lillian	Grand Daughter
Grand Son		

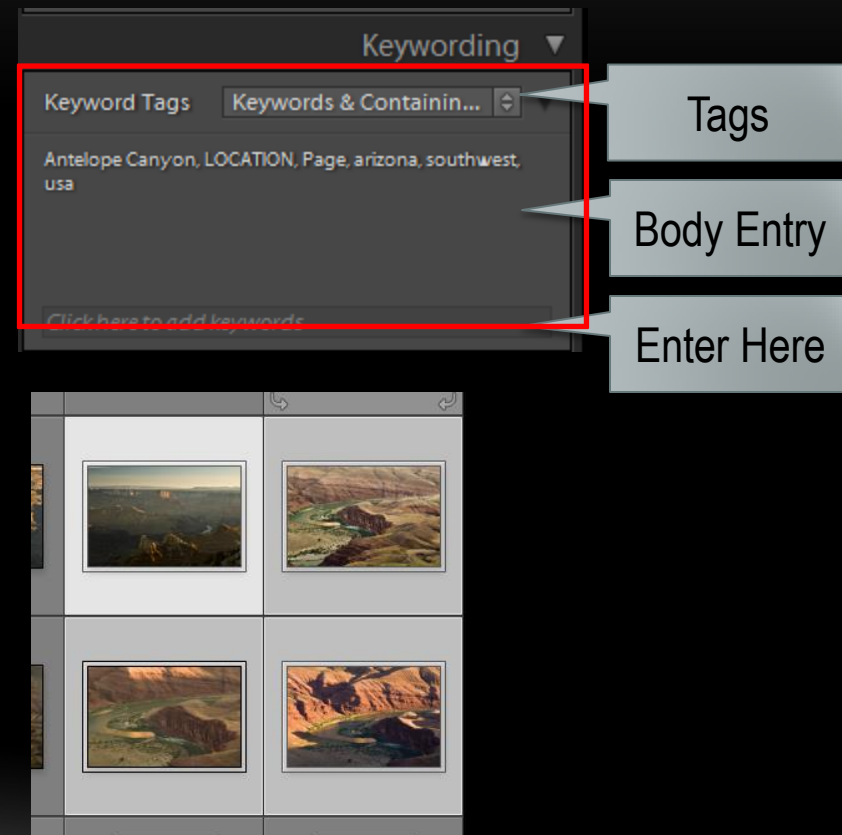
+ Keyword List ▼



- ▶ location
- ▶ People
- ▶ Photography
- ▶ sports 1
- ▶ Things

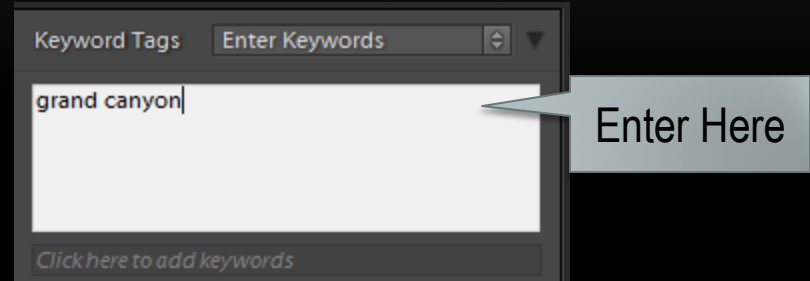
KEYWORDING

- Keyword Tags
 - Enter Keywords
 - Keywords & Containing Keywords
 - Will Export
- Keywords relate to all Selected Photos



ENTERING KEYWORDS

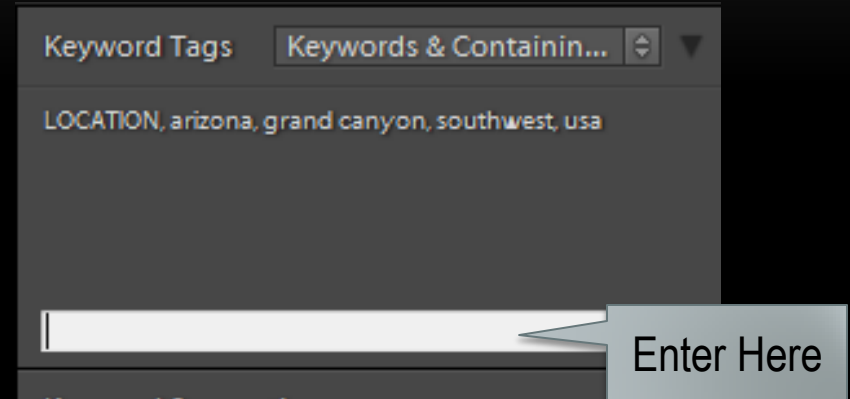
- Enter Keywords
 - Current Keywords Display
 - Enter Key Words Separate by comma



The image shows a web interface element titled "Keyword Tags". It features a search bar with the placeholder text "Enter Keywords" and a dropdown arrow. Below the search bar is a large text input area containing the text "grand canyon". A light blue callout box with a pointer directed at the text area contains the text "Enter Here". At the bottom of the interface, there is a link that says "Click here to add keywords".

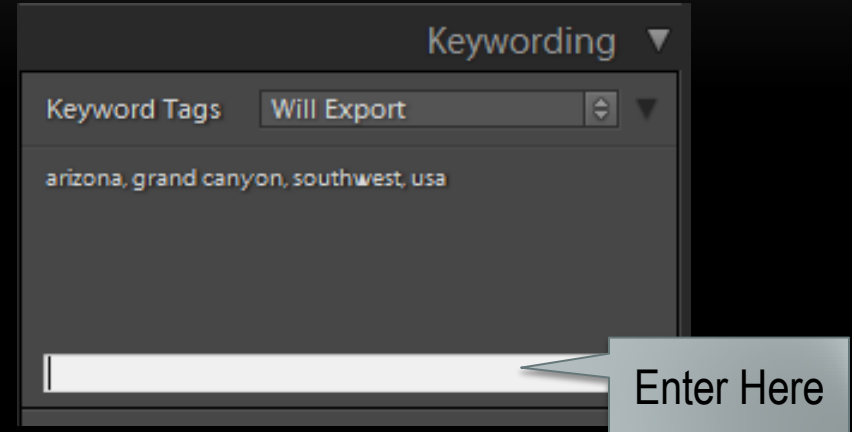
ENTERING KEYWORDS

- Keywords & Containing Keywords
 - Current Keywords Display
 - Note - LOCATION
 - Keywords Entered in Box Below



ENTERING KEYWORDS

- Will Export
 - Current Keywords Display
 - LOCATION not included
 - Keywords Entered in Box Below
- LOCATION is a container only



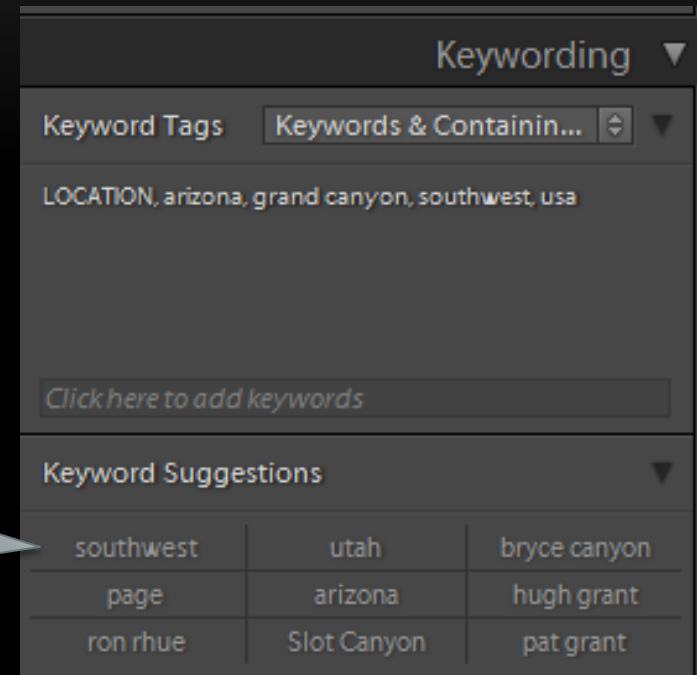
ENTERING KEYWORDS MANUALLY

- Enter when Importing - Depreciated
- In Library Module
- Positives
 - Easy
 - Free Form
- Negatives
 - More Keystrokes
 - Case make a difference
 - No Hierarchy



ENTERING KEYWORDS

- Keyword Suggestions
 - Already Exist
 - Used on Photos near Selected
 - Click on Word to Enter



Click Here

ENTER KEYWORDS

- Keyword Sets
 - Recent Keywords
 - Adobe Supplied
 - Outdoor Photography
 - Portrait Photography
 - Wedding Photography
 - Custom Sets
- Click Keyword to Add

Keyword Set		
Recent Keywords		
grand canyon	Antelope Canyon	skiing < sports
utah	park city	usa
massachusetts	pat grant	sun burst

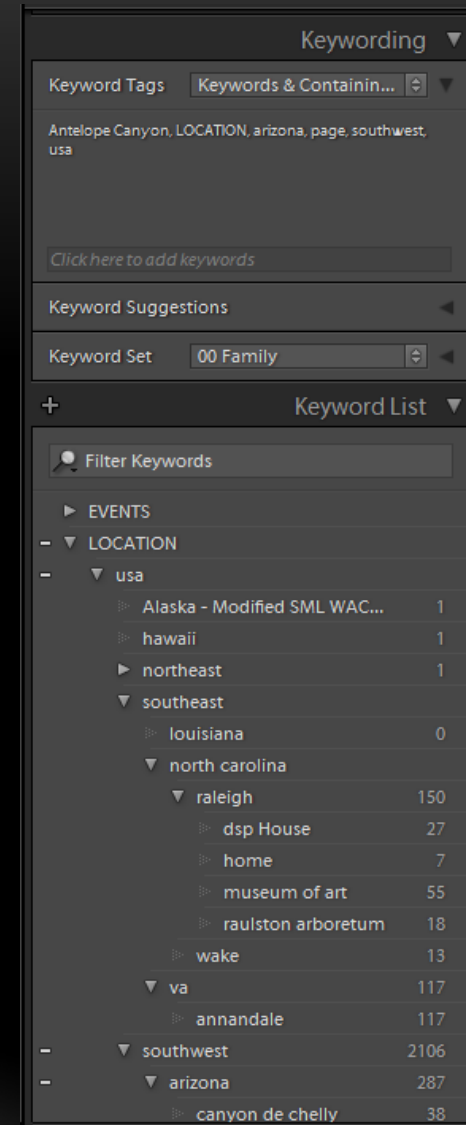
Keyword Set		
Outdoor Photography		
Landscape	Macro	Flowers & Pla...
Spring	Summer	Wildlife
Fall	Winter	People

Keyword Set		
Portrait Photography		
Outdoor	Candid	Fashion
Pets	Headshots	Individuals
Kids	Babies	Families

Keyword Set		
00 Family		
Charest Claudia	Dixon Geoff	Dixon Jared
Dixon Christine	Flake Chris	Flake Regina
Flake Jordan	Flake Cathrine	Otis

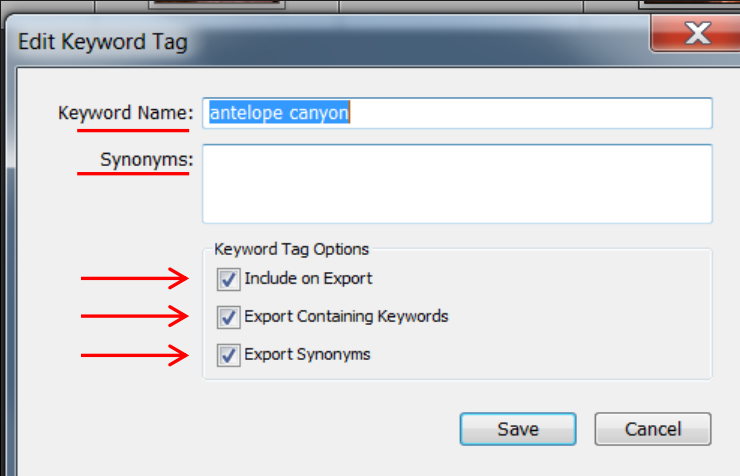
ENTERING KEYWORDS

- Keyword List
 - Structured Hierarchies
 - No Miss Typing
 - Inserts Complete Hierarchy in Selected Photos
 - Exclusions
 - Synonyms



KEYWORD TAGS

- Enter or Edit Keyword Tag
 - Add Synonyms
 - Include on Export
 - Export Contains Keywords
 - Export Synonyms
- Place holder



The screenshot shows the 'Edit Keyword Tag' dialog box. The 'Keyword Name' field contains 'antelope canyon'. The 'Synonyms' field is empty. The 'Keyword Tag Options' section has three checked options: 'Include on Export', 'Export Containing Keywords', and 'Export Synonyms'. Red arrows point to each of these three options. The 'Save' and 'Cancel' buttons are at the bottom right.

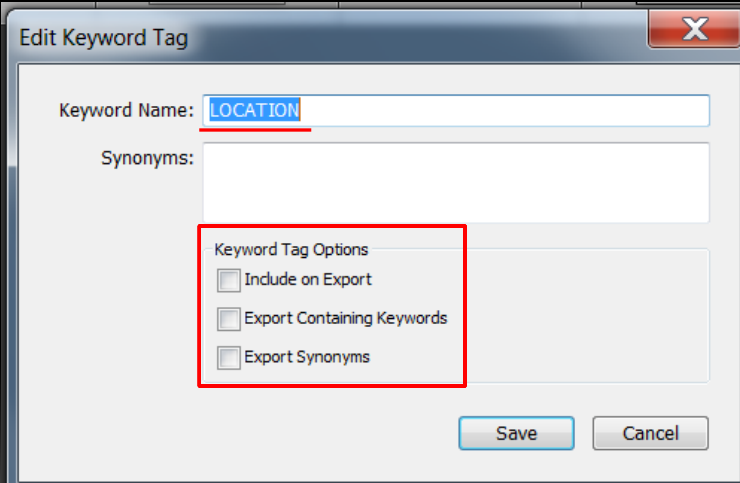
Keyword Name: antelope canyon

Synonyms:

Keyword Tag Options

- ☒ Include on Export
- ☒ Export Containing Keywords
- ☒ Export Synonyms

Save Cancel



The screenshot shows the 'Edit Keyword Tag' dialog box. The 'Keyword Name' field contains 'LOCATION'. The 'Synonyms' field is empty. The 'Keyword Tag Options' section has three unchecked options: 'Include on Export', 'Export Containing Keywords', and 'Export Synonyms'. A red box highlights the 'Keyword Tag Options' section. The 'Save' and 'Cancel' buttons are at the bottom right.

Keyword Name: LOCATION

Synonyms:

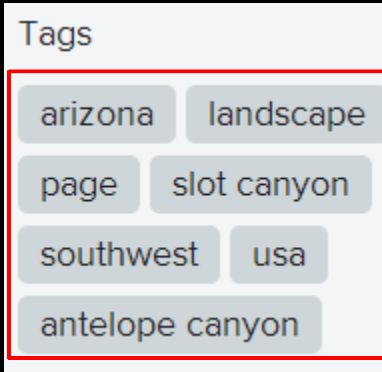
Keyword Tag Options

- ☐ Include on Export
- ☐ Export Containing Keywords
- ☐ Export Synonyms

Save Cancel

WHY KEYWORDS

- To Find a Photo
- Stock Photo Search
- Photo Sharing Site Flickr



Purple Rock

Antelope Canyon is a slot canyon in the American Southwest. It is located on Navajo land near Page, Arizona. Antelope Canyon includes two separate, photogenic slot canyon sections, referred to individually as Upper Antelope Canyon and Lower Antelope Canyon or The Corkscrew This is in Lower Antelope.



Nikon D300
17.0-55.0 mm
f/2.8



f/10.0



17.0 mm



0.4



200



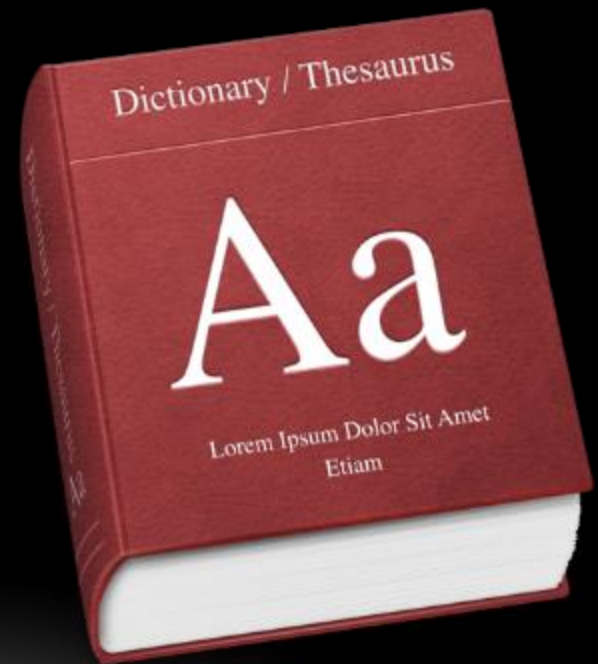
No flash



Show Exif

CONTROL VOCABULARY

- Controlled vocabulary schemes mandate the use of predefined, authorised terms that have been preselected by the designer of the vocabulary, in contrast to natural language vocabularies
- Resources
 - [Open Source Lightroom Project](#) – free
 - [Photo Keywords](#)
 - [Control Vocabulary](#)
 - [D65 Keyword List](#)
 - [Keyword Catalog](#)



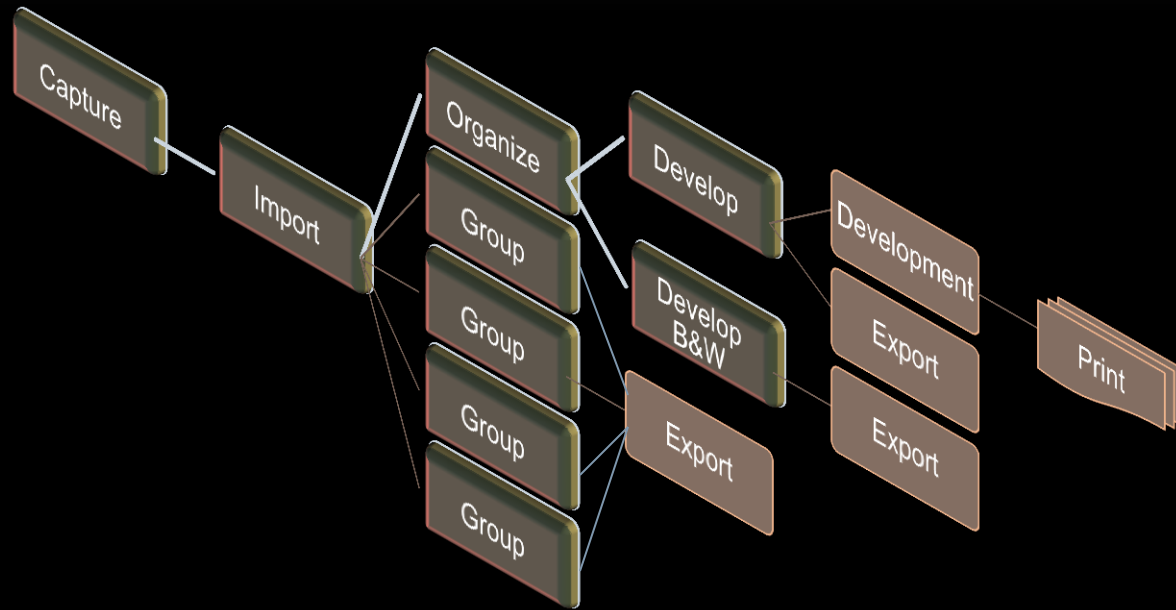
KEYWORD RECOMMENDATION

- Enter Keywords in Library Module
- Use Set
- Use Keyword Hierarchies

Keyword Set 00 Family ▾		
Charest Claudia	Dixon Geoff	Dixon Jared
Dixon Christine	Flake Chris	Flake Regina
Flake Jordan	Flake Cathrine	Otis

+ Keyword List ▾	
LOCATION	
hawaii	1
▶ northeast	1
▶ southeast	
▼ southwest	2108
▼ arizona	287
canyon de chelly	38
colorado river	81
grand canyon	16
grand falls	11
▼ page	285
antelope canyon	443
horseshoe bend	148
▼ sedona	25
Castle Rock	13
▼ colorado	158
durango	99
silverton	99
monument valley	43

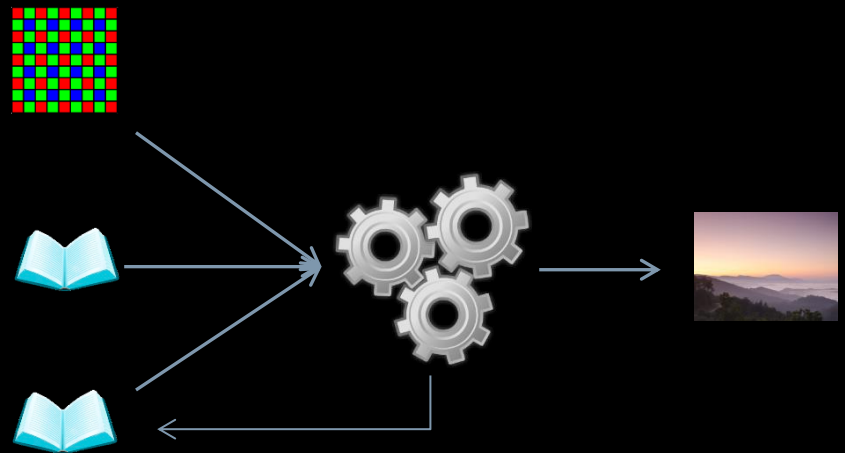
LINEAGE



a sequence of photos each of which is considered to have evolved from its predecessor.

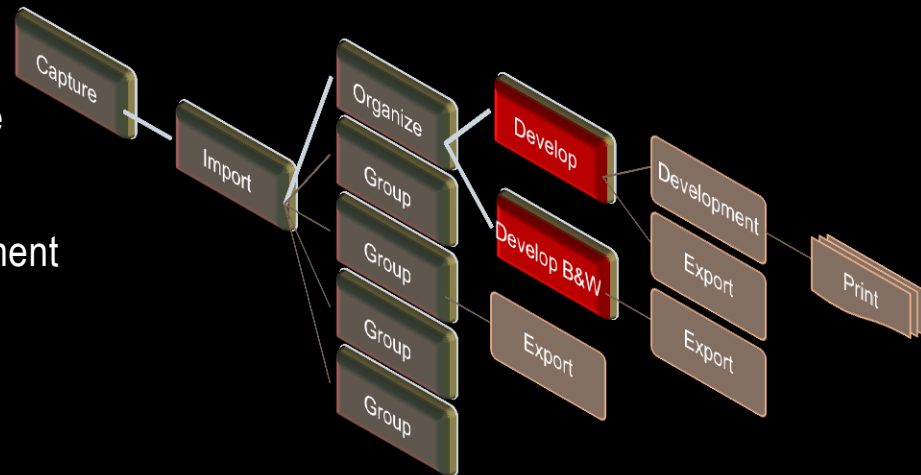
LINEAGE

- Folder
 - Imported Image
- Catalog
 - Pointer to Imported Image
 - Metadata
 - Development Steps
 - Metadata Changes
 - Actions Taken
 - Pointer to Virtual Copies



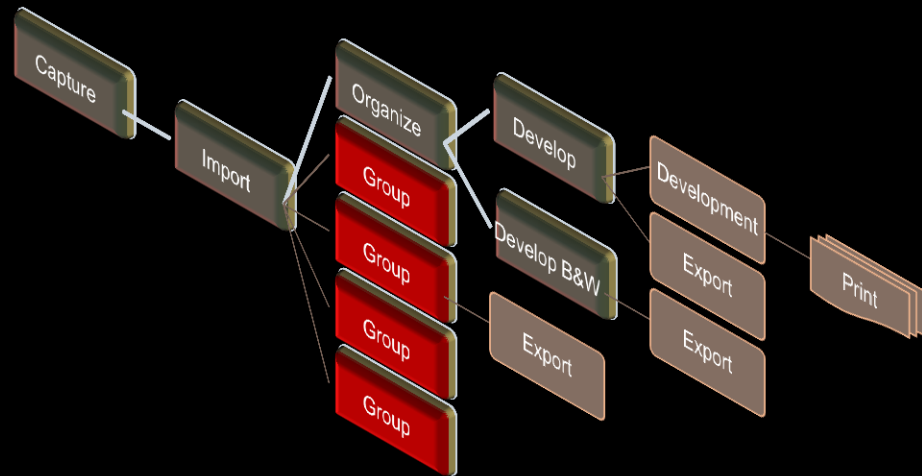
LINEAGE

- Virtual Copies
 - Current State Value
 - Branch to Difference
 - Consist of
 - Pointer to Original at then current state
 - Pointer to Metadata
 - Pointer to Development Steps
 - Multiple Outputs
- Physical Copies
 - External Edit



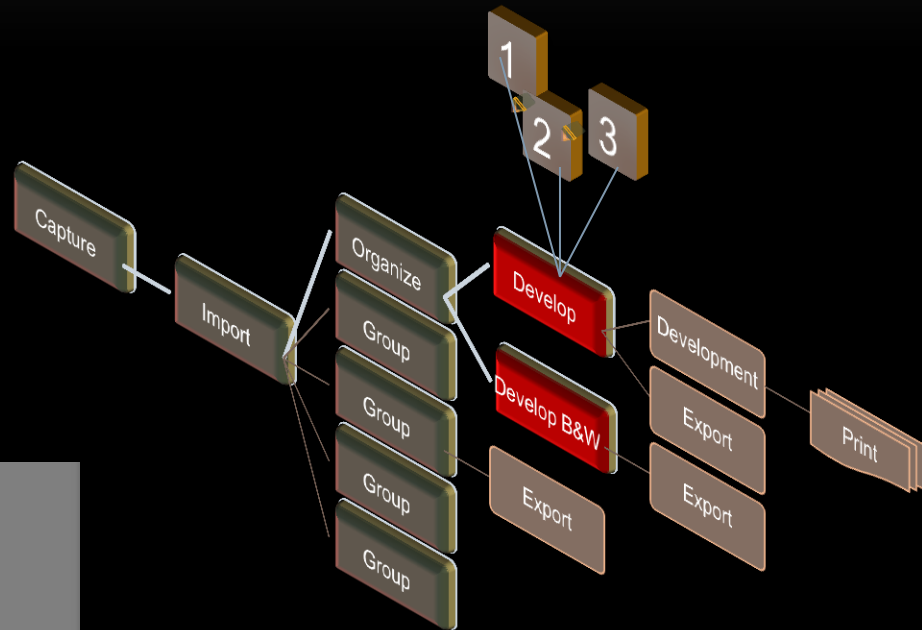
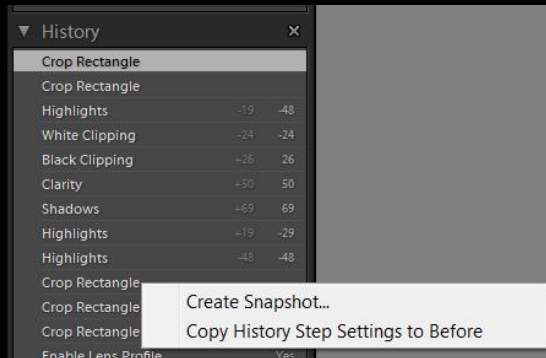
LINEAGE

- Stack
 - Create Ordered Relationship
 - Top Image Represents Group
 - Expand Stack to All Images or Collapse to One
- Contents
 - Panoramas
 - HDR
 - Reducing Footprint



LINEAGE

- Snapshots
 - Pointer to Then Current State
 - Return Point
- Use to Quickly Return to Prior State



LINAGE RECOMMENDATIONS

- Minimize Dead End Branches
 - Physical copies
 - Returns from External Editors *



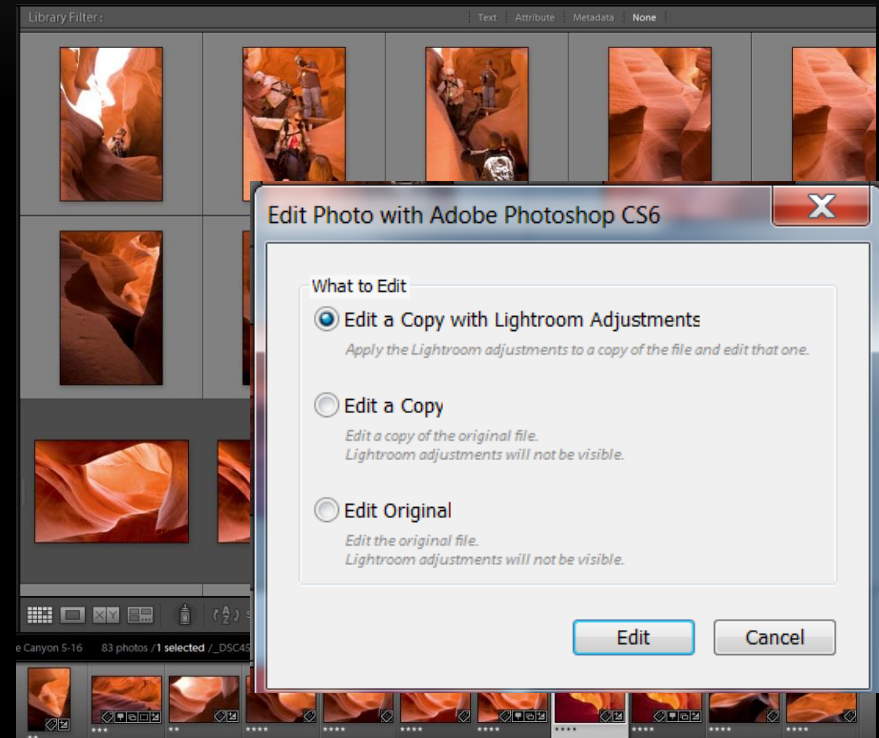
INTEROPERABILITY

- Photoshop
- Photomatrix Pro
- Nix
- Plug-In



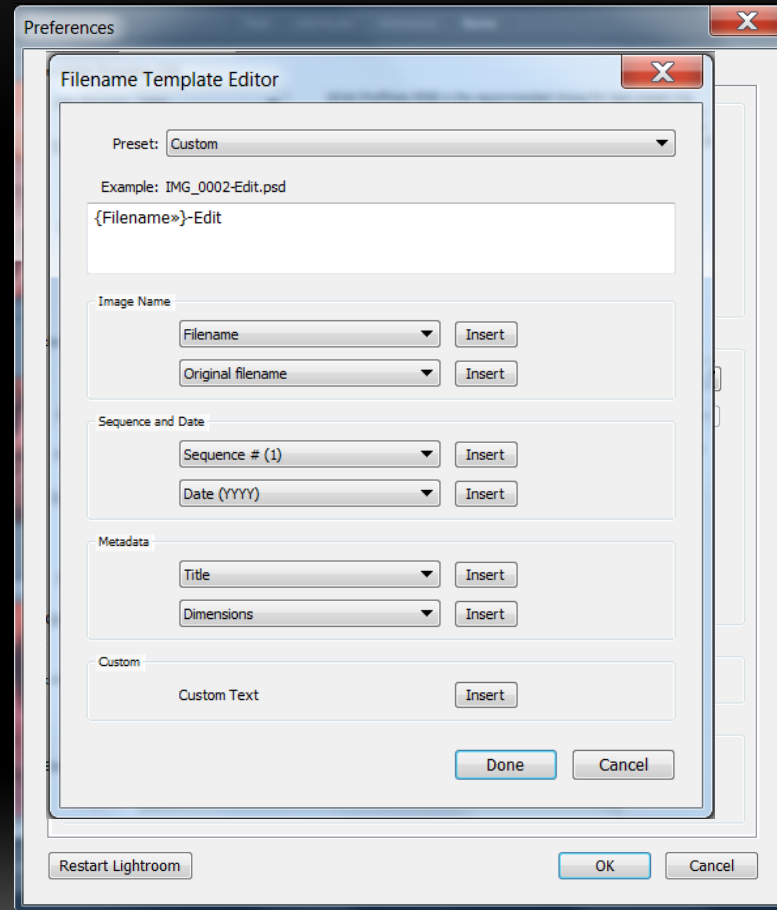
INTEROPERABILITY – PHOTOSHOP

- Right Click on Photo
 - Select Edit in Adobe Photoshop CS6
 - Edit a Copy with Lightroom Adjustments
 - Current State
 - Edit a Copy
 - Make Copy Original Version
 - Edit Original
 - Original Version or this file if Previously Edited
- Save in Photoshop saves back to Lightroom
 - Filename-Edit.tif



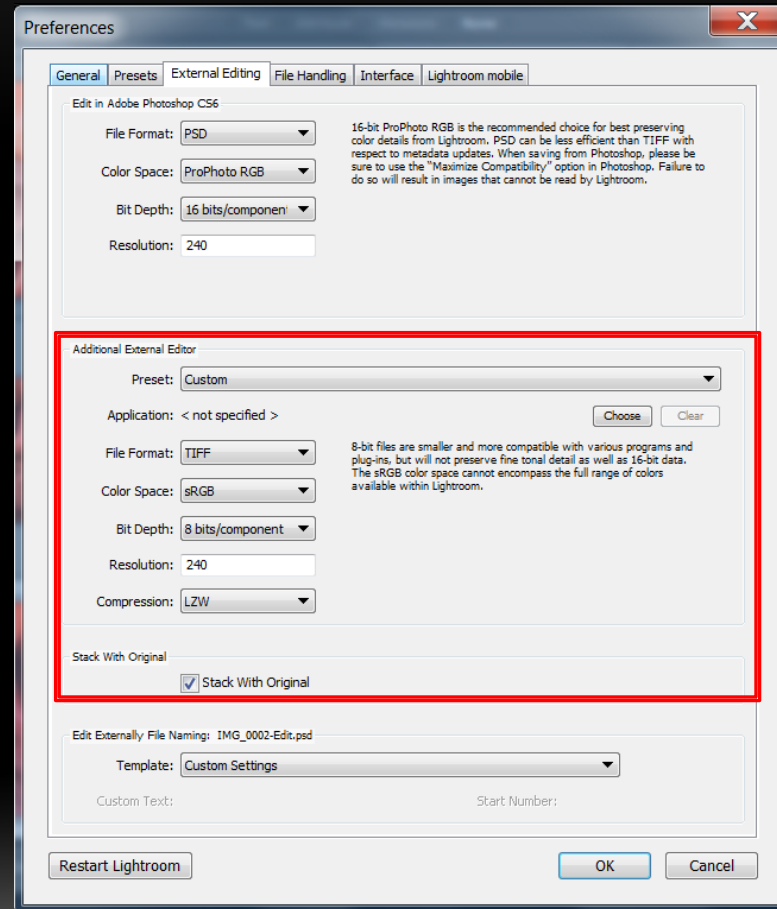
INTEROPERABILITY – PHOTOSHOP

- Preferences – External Editing
 - File Format
 - Color Space
 - Bit Depth
 - Resolution
- Control Stacking
- Edit Format
- Custom Template



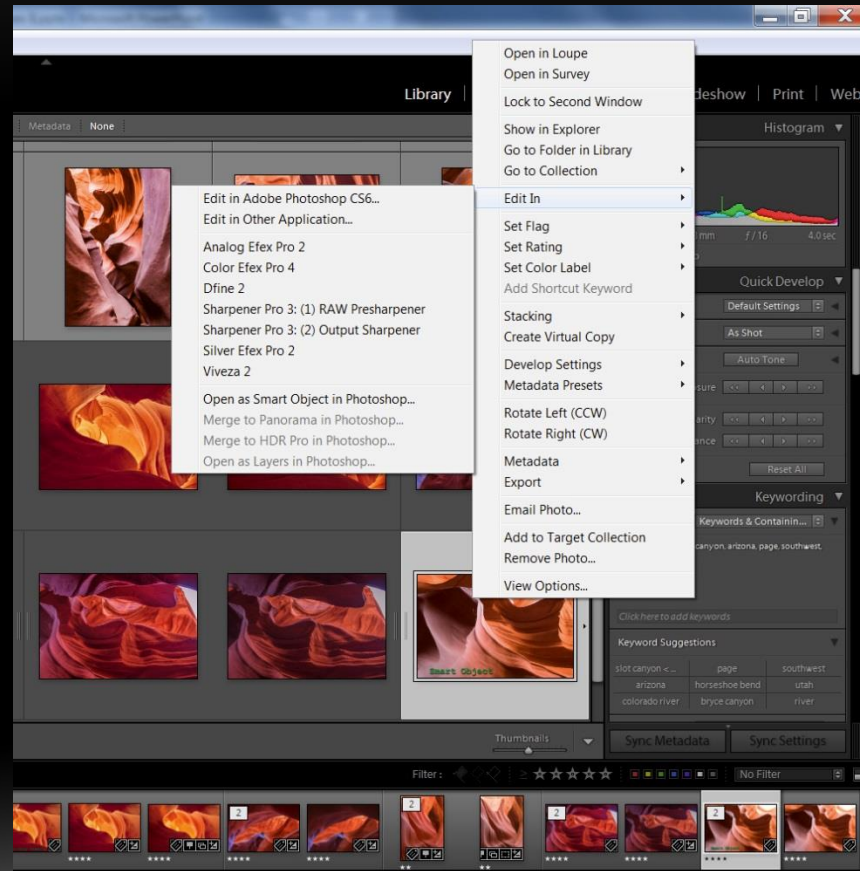
INTEROPERABILITY – PHOTOSHOP & OTHERS

- Custom Differences with Photoshop or Other Editor
 - Alternate Editor Changes
 - Save Preset



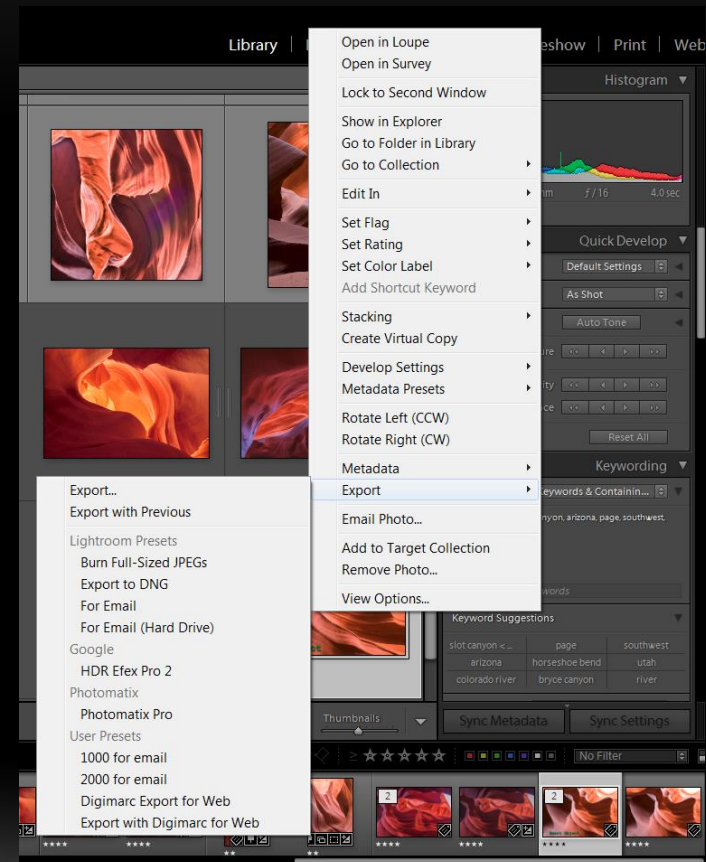
INTEROPERABILITY – PHOTOSHOP & OTHERS

- Custom Editors
 - Analogue Efex Pro 2
 - Color Efex Pro 4
 - Dfine 2
 - Sharpener Pro 3
 - Silver Efex Pro 2
 - Vivexa 2



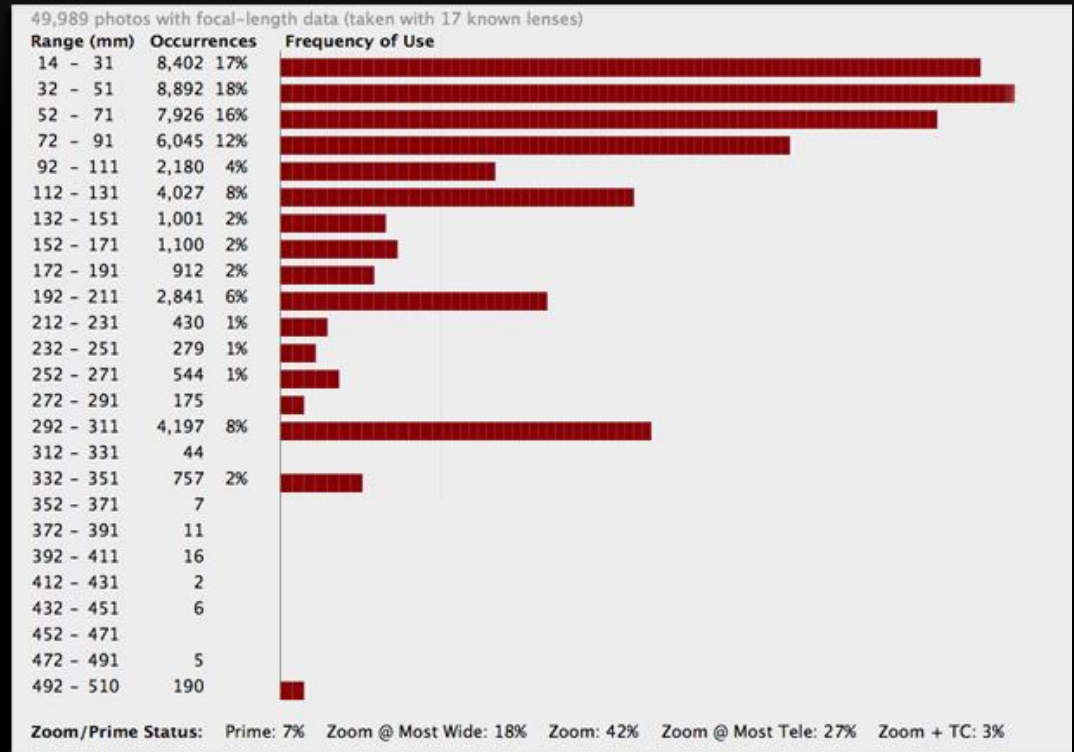
INTEROPERABILITY – OTHERS AS PLUG-IN

- Custom Editors
 - HDR Efex Pro 2
 - Photomatrix Pro
- Export Creates .tif copy first



INTEROPERABILITY – PLUG-IN

- Jeffery Friedl's Focal-length Plot
- Publishing Services
 - Flickr
 - Costco
 - Shutterfly
 - Facebook
- Use for Automation and Reduce Copies



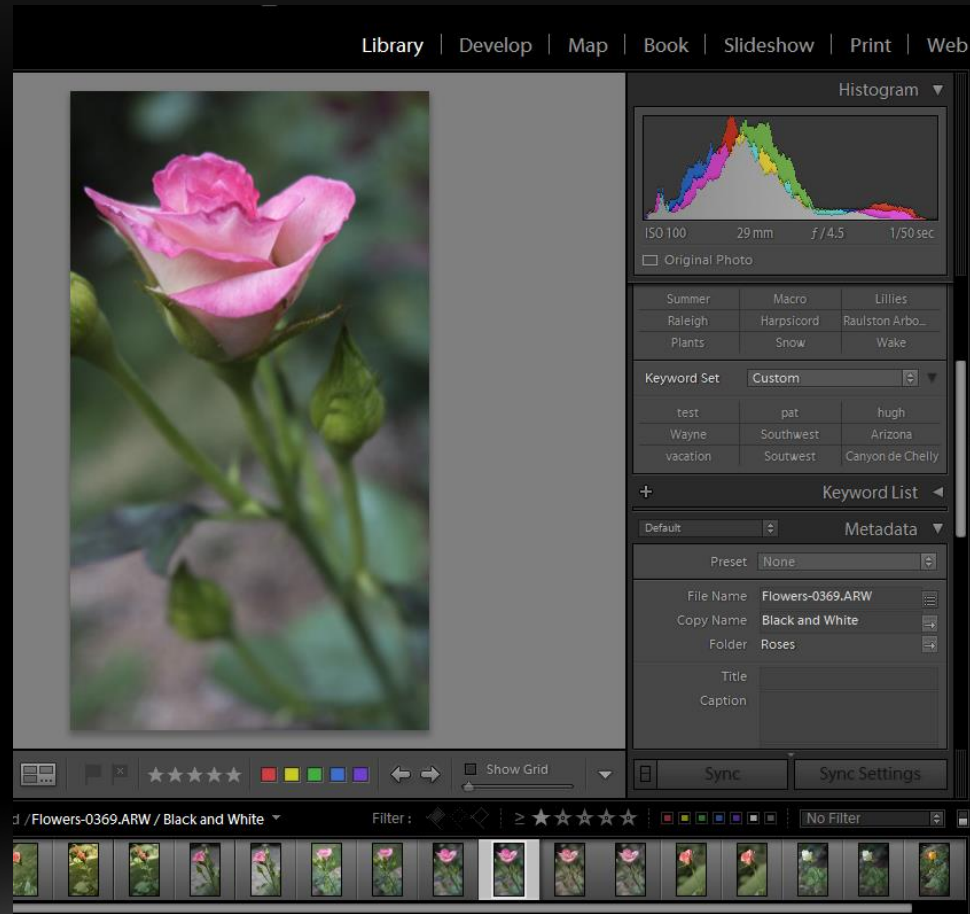
INTEROPERABILITY RECOMMENDATIONS

- Best Practice Minimize Dead-end Branches

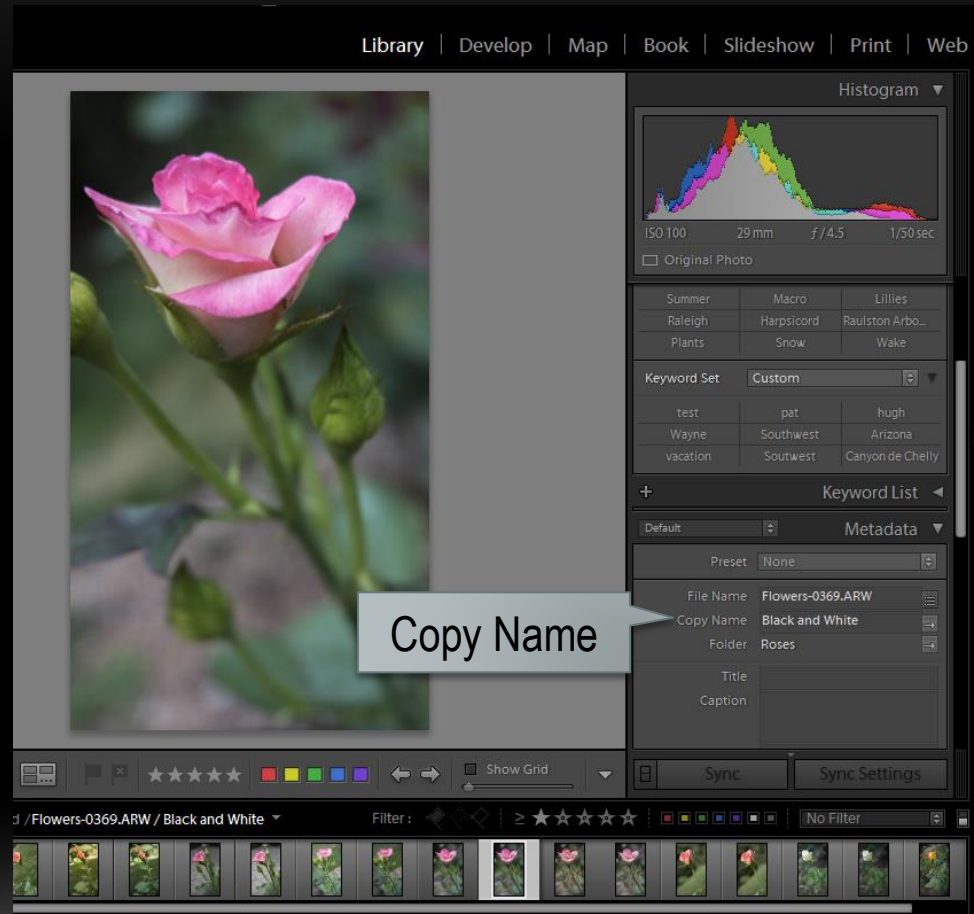


BETTER BLACK AND WHITES

- Set Starting Point
- Switch to Black and White
- Adjust
 - High Contrast
 - High Detail
- Split Toning
- Selective Coloring

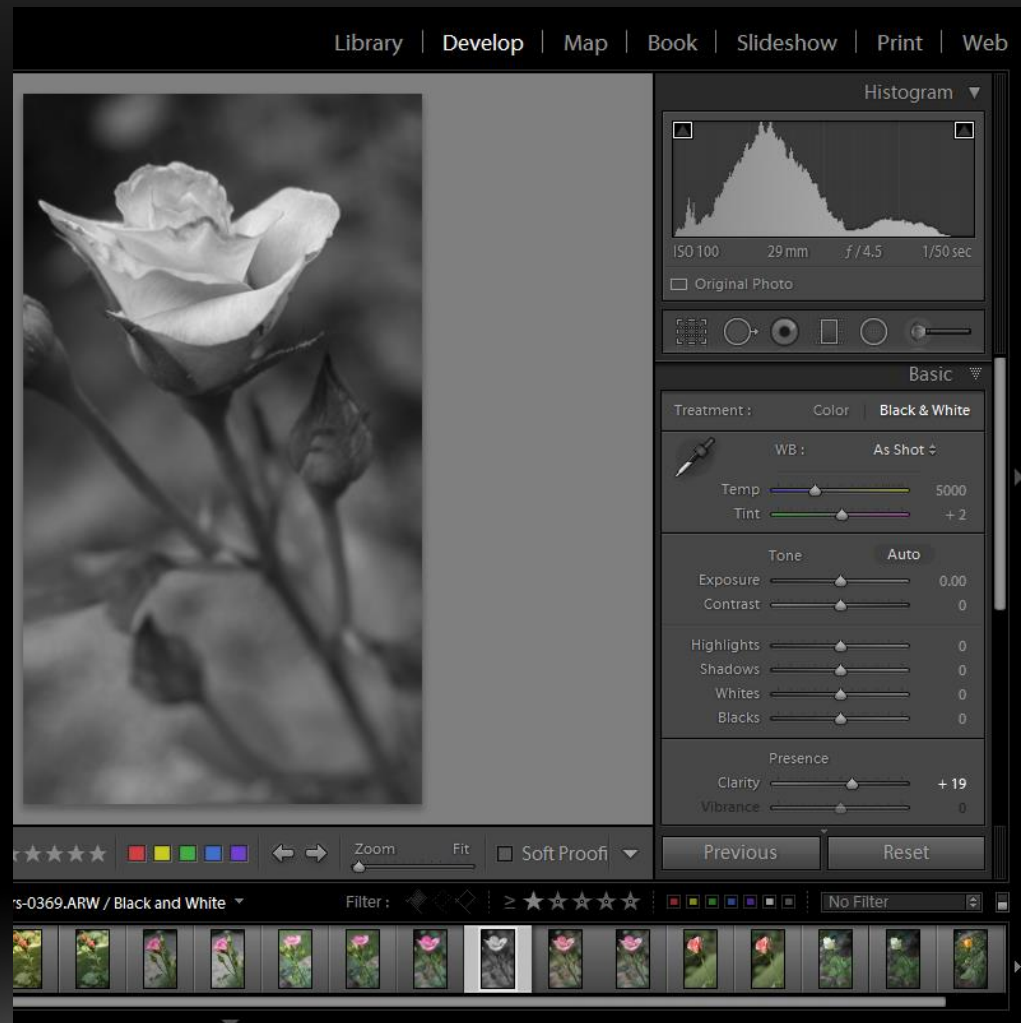


- Make a Virtual Copy
- Name it Black and White



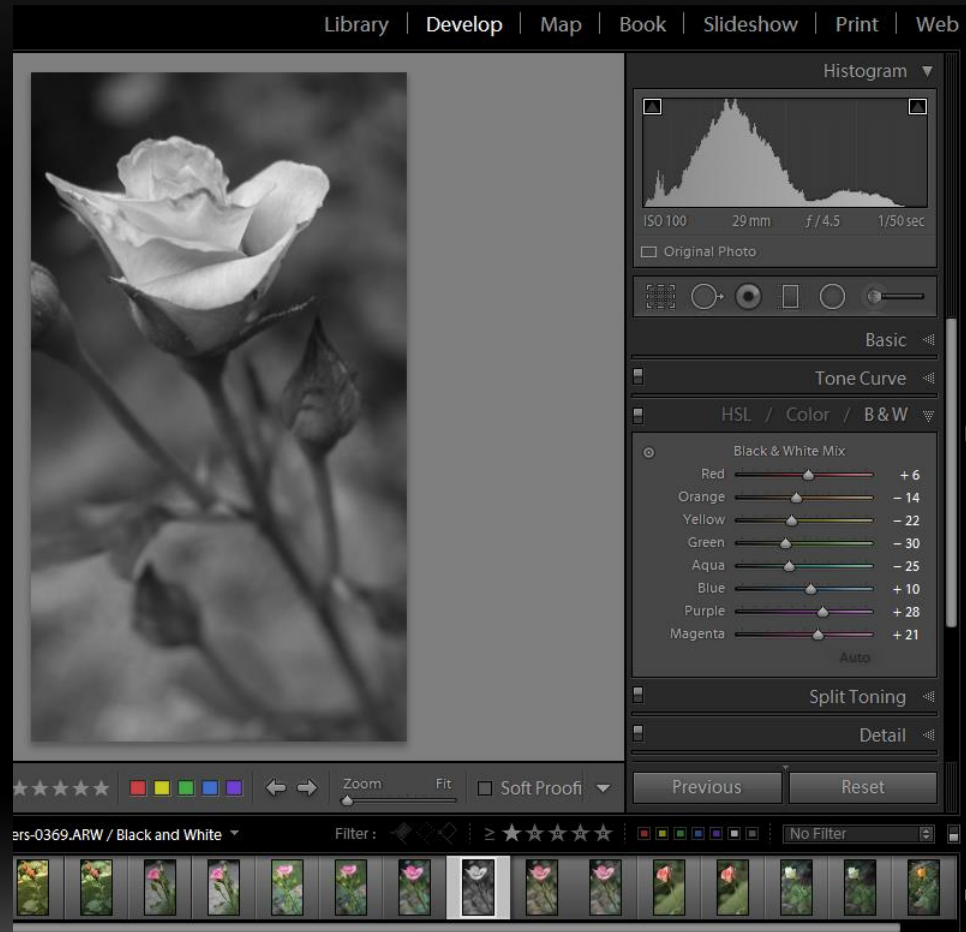
DEVELOP

- Click on Back & White
 - Vibrancy Gray
 - Saturation Gray
- Note HSL / Color / B&W State



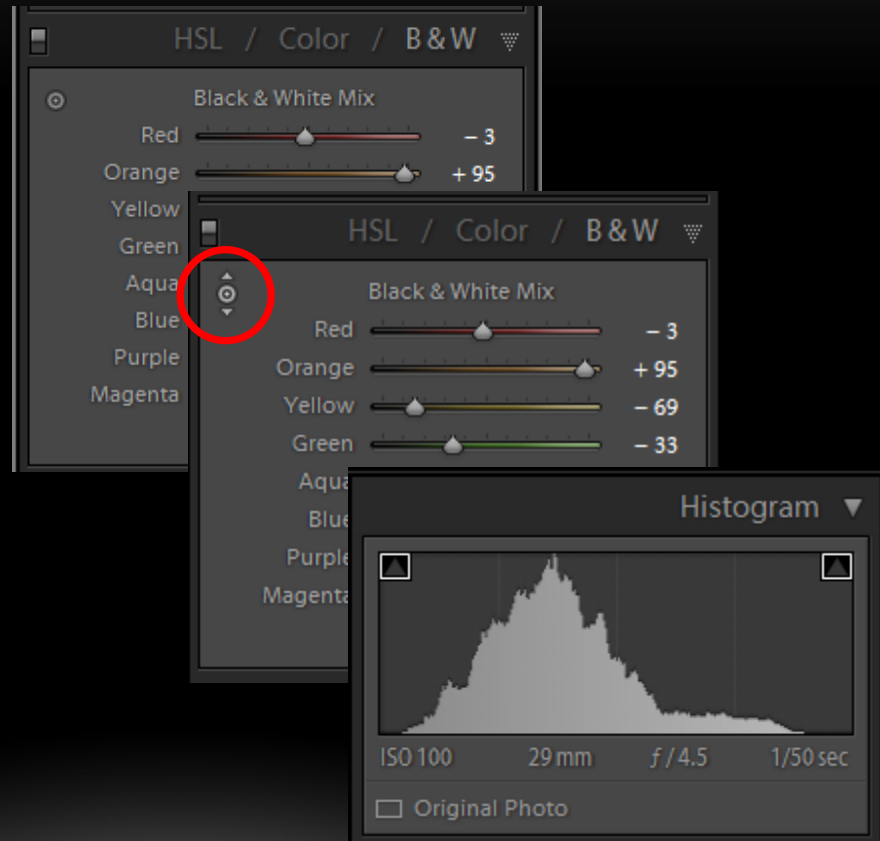
HLS / COLOR / B&W

- Select B&W
- Initialized by Previous Step or Here
- Adjust Sliders



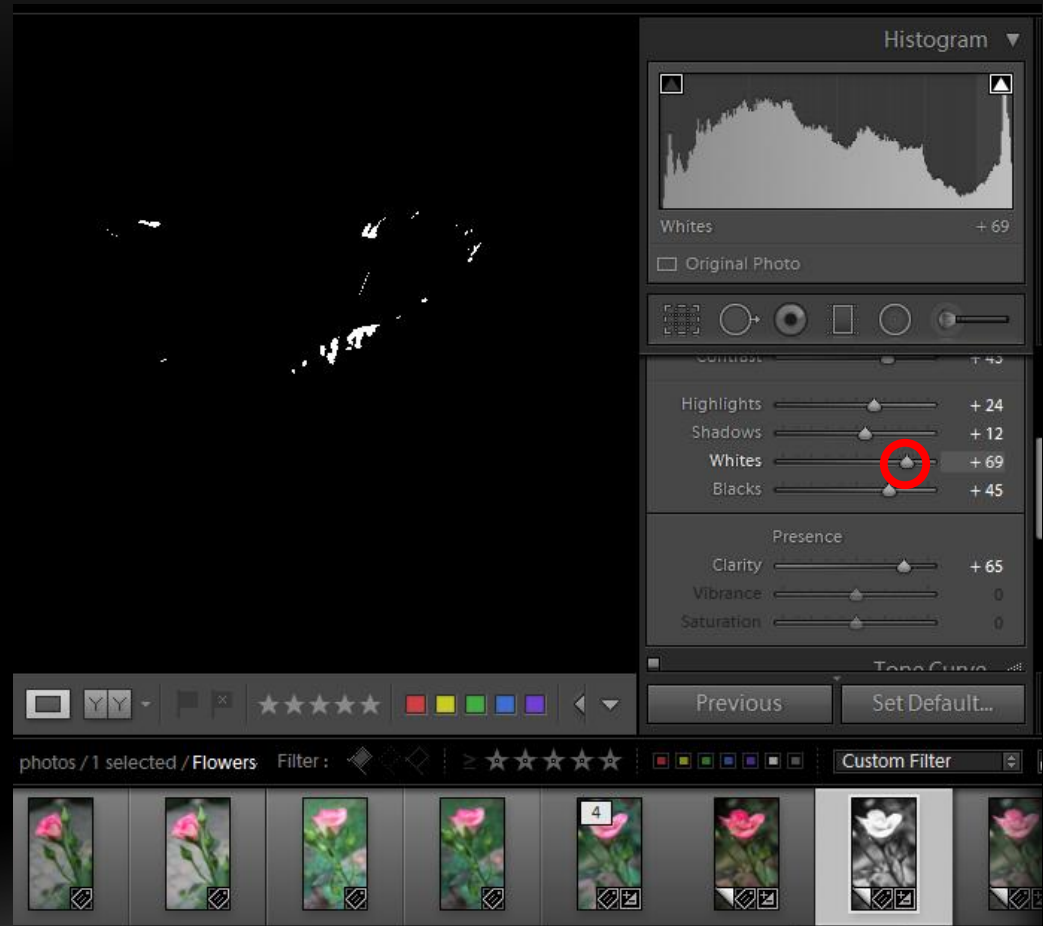
ADJUST

- Adjust Each Slider
- Adjust In Photo
- Adjust in Histogram
 - Blacks
 - Shadows
 - Exposure
 - Highlights
 - Whites



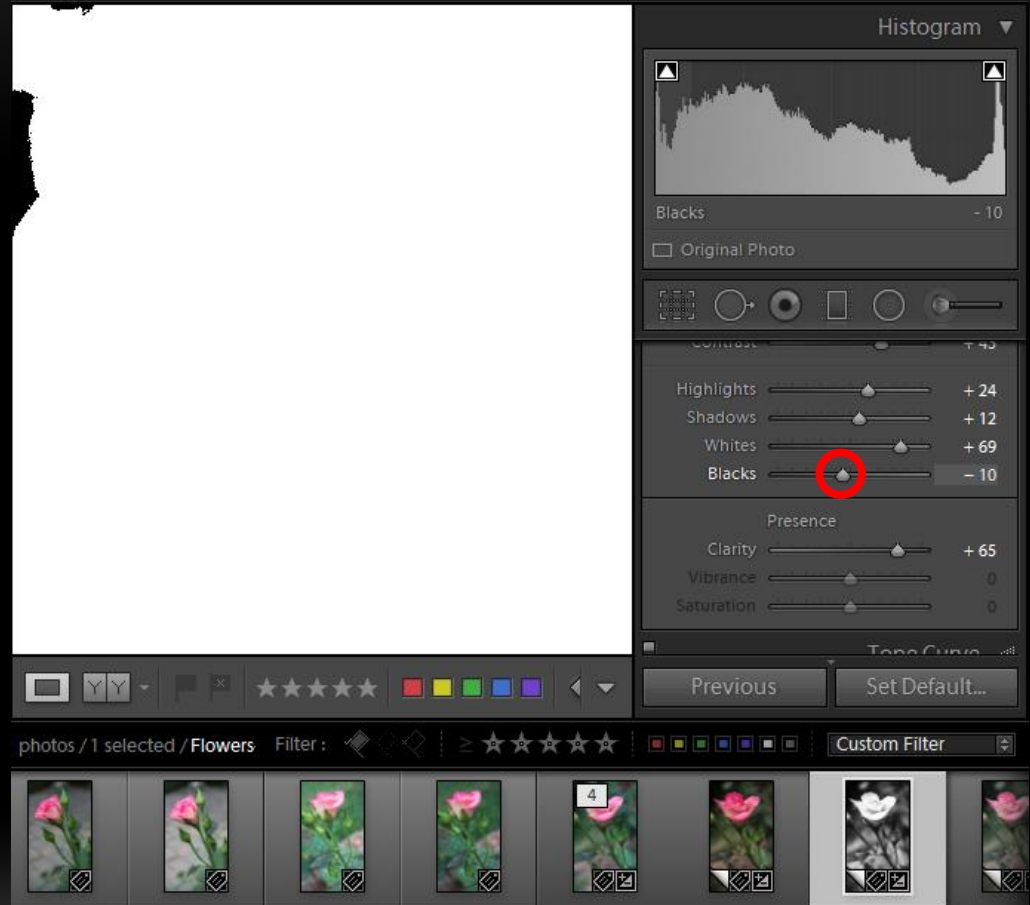
ADD POP

- Adjust White Point
 - Hold Alt (Ctrl)
 - Click on White
 - Drag Right until White Appears



ADD POP

- Adjust Black Point
 - Hold Alt (Ctrl)
 - Click on Black
 - Drag Left until Black Appears



ADD POP

- Adjust
 - Shadows Right
 - Highlights Left
 - Increase Contrast
 - Increase Clarity



ADD POP

- Detail Tab
 - Hold Down Alt (Ctrl)
 - Click on Masking
 - Drag until desired sharpening area is white
- Sharpen



SELECTIVE COLORING

- Method 1
 - Lower Saturation
 - Adjustment Brush Higher Saturation



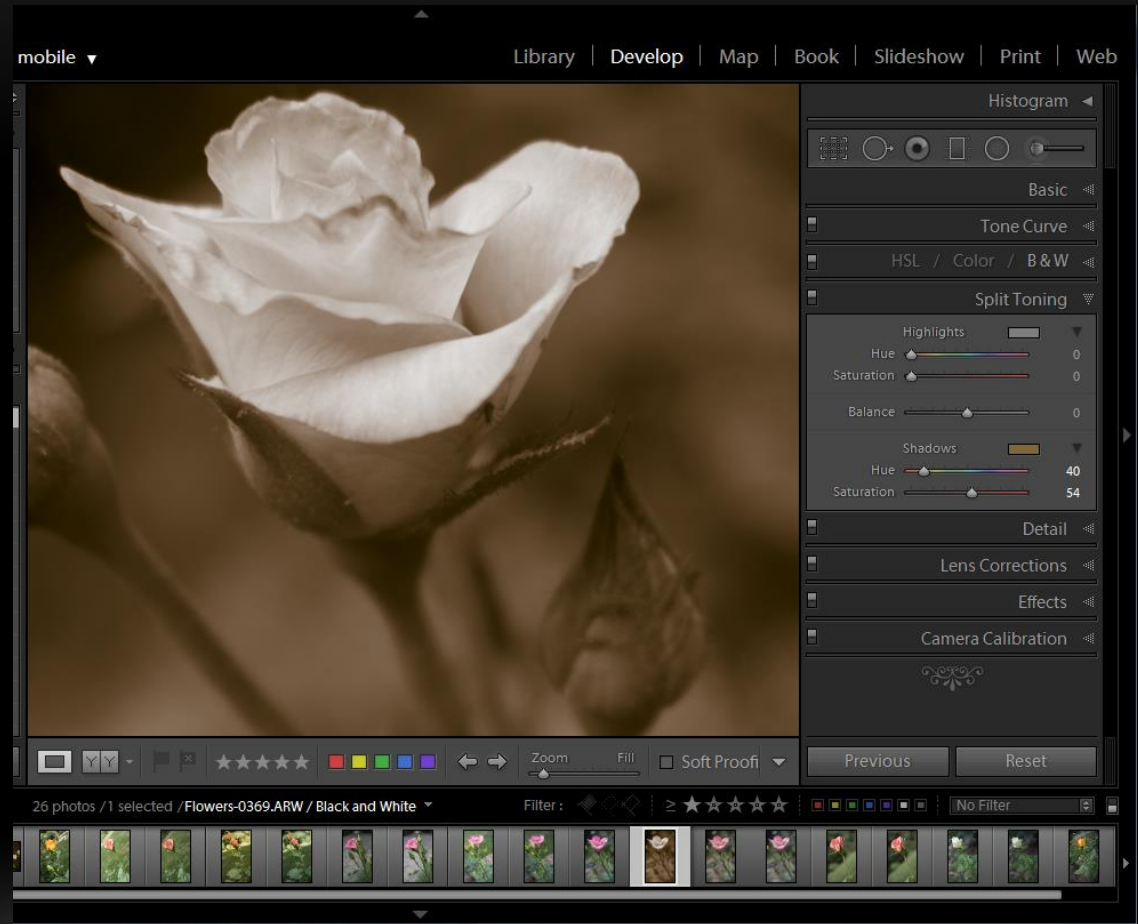
SELECTIVE COLORING

- Method 2
 - Use Color Sliders to reduce saturation by color



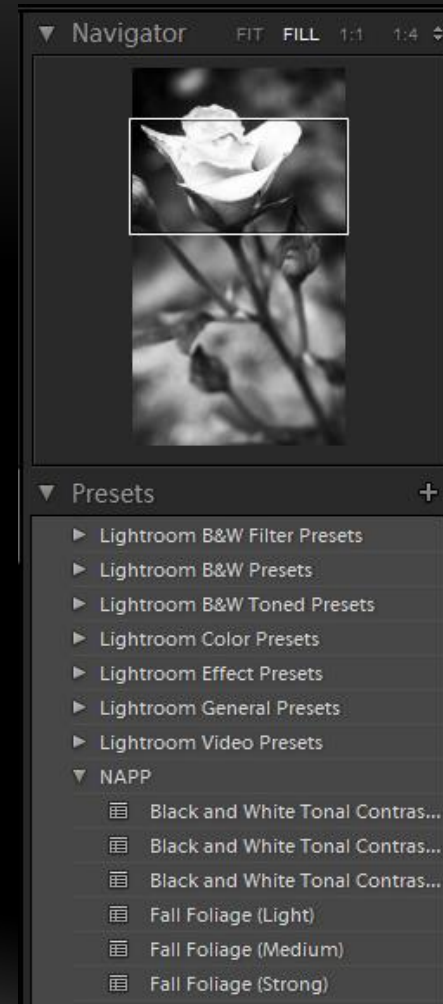
SEPIA

- Start with B&W
- Select Split Toning
- Use Shadow Only
- Start Hue 40-45
- Increase Saturation
- Experiment



RECOMMENDATIONS

- Use Lightroom Black & White Conversion
- Or Use Preset
- Create Presets



SPOT REMOVAL

- Remove Sensor Spots
- Remove Blemishes
- Remove Unwanted Elements



WORKSPACE

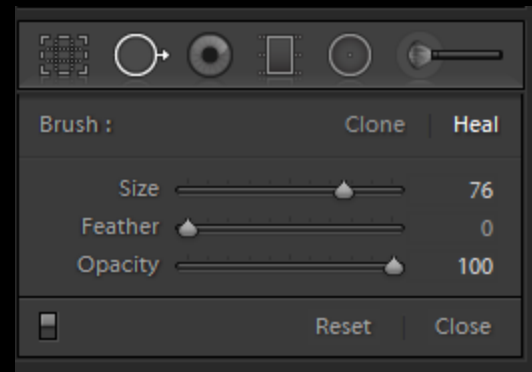
Develop

Adjustment Brush

The screenshot displays the Adobe Lightroom 5 Develop workspace. The central area shows a photograph of two people standing on a sand dune under a clear blue sky. The left sidebar contains the 'Navigator' panel with a list of actions (Export, Publish, Add Spot Removal, Auto Tone, Import) and a 'Collections' panel listing various photo collections. The right sidebar features the 'Adjustment Brush' panel, which includes a 'Histogram' at the top, a 'Brush' section with 'Clone' and 'Heal' modes, and a 'Basic' section with sliders for 'Color' (WB, Temp, Tint), 'Tone' (Exposure, Contrast, Highlights, Shadows, Whites, Blacks), and 'Presence' (Clarity, Vibrance). The bottom of the interface shows a filmstrip of photo thumbnails, a status bar indicating 'Collection: Southwest 2014' with '491 photos / 1 selected', and a 'Filter' section.

SPOT REMOVAL TOOL

- Spot Icon Highlighted
- Clone or Heal
- Size
- Feather
- Opacity
- On or Off
- Reset



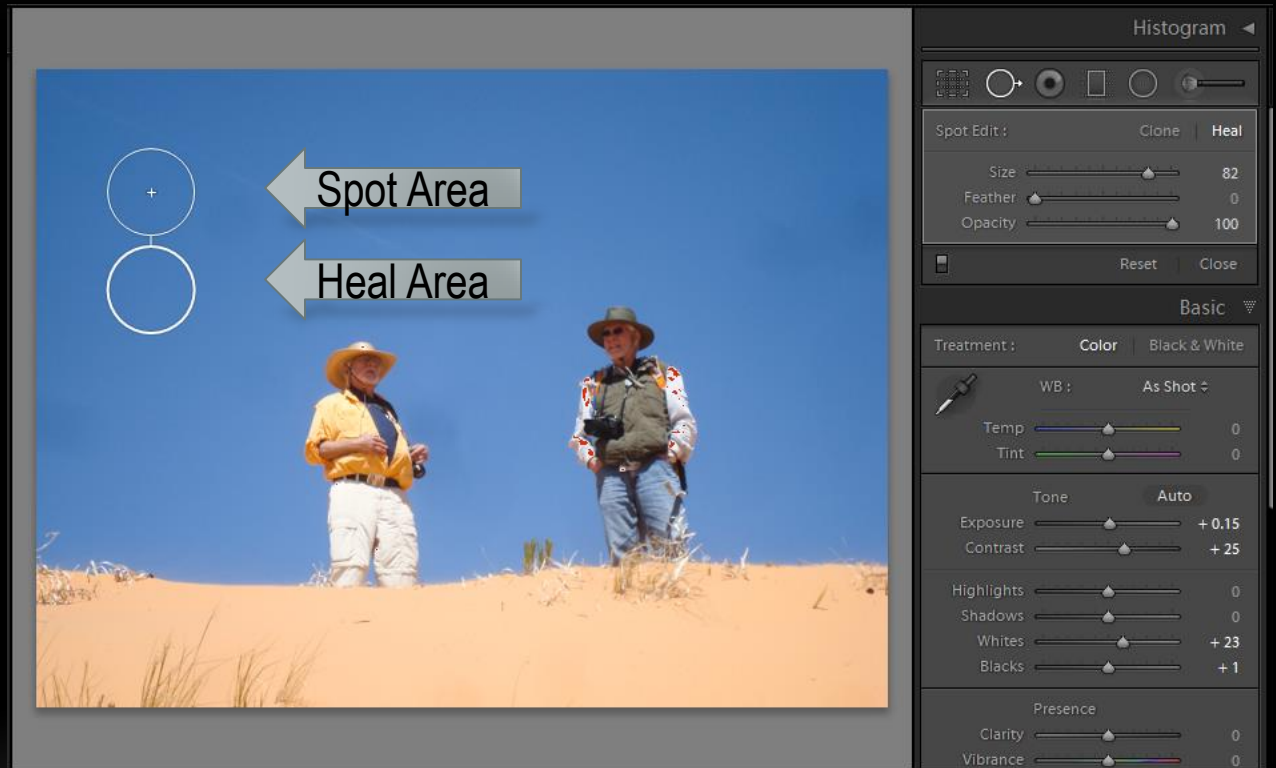
ENHANCED SPOT VISUALIZATION

- Visualize Spot
- Contrast Control
- See Spot



SPOT REMOVAL

- Size Spot Tool
- Click on Spot
- Adjust Heal Position



CONTENT AWARE OBJECT REMOVAL



Object to Remove

CONTENT AWARE OBJECT REMOVAL

- Set to Width
- Spot
 - Click at Bottom
 - Drag up
- Adjust Clone Area



RECOMMENDATIONS

- Keep Your Sensor Clean
- Visualize to Inspect for Spots
- Practice Removals



RADIAL FILTER

- Fill Flash Alternative
- Highlight Areas
- Local Adjustments



ENHANCE FACE EXPOSURE

Radial Filter



The image shows a photo editing application interface. On the left, a photograph of a man and a woman in a desert setting is displayed. The man is wearing a hat and sunglasses, and the woman is wearing a hat and a dark jacket. The background is a sandy, hilly landscape with some vegetation. On the right, a 'Radial Filter' panel is open, showing various adjustment sliders. The panel includes a 'Mask' section with 'New' and 'Edit' buttons. Below this, the 'Effect' is set to 'Saturation'. The sliders for 'Temp', 'Tint', 'Exposure', 'Contrast', 'Highlights', 'Shadows', 'Clarity', 'Saturation', 'Sharpness', 'Noise', 'Moiré', and 'Defringe' are all set to 0. The 'Color' section has a color selection icon. The 'Feather' slider is set to 50, and the 'Invert Mask' checkbox is checked. At the bottom of the panel, there are 'Reset' and 'Close' buttons. Below the photo, there is a 'Show Edit Pins' dropdown menu set to 'Always', a 'Done' button, and a 'Previous' button.

Mask : New Edit

Effect : Saturation ▾

Temp 0

Tint 0

Exposure 0.00

Contrast 0

Highlights 0

Shadows 0

Clarity 0

Saturation 0

Sharpness 0

Noise 0

Moiré 0

Defringe 0

Color

Feather 50

☒ Invert Mask

Reset Close

Basic ▾

Treatment : Color Black & White

Previous Reset

Show Edit Pins : Always ▾

Done

ENHANCE FACE EXPOSURE

- Drag around Face
- Increase Highlights
- Decrease Shadows
- Other Adjustments
 - Tint Change White Balance

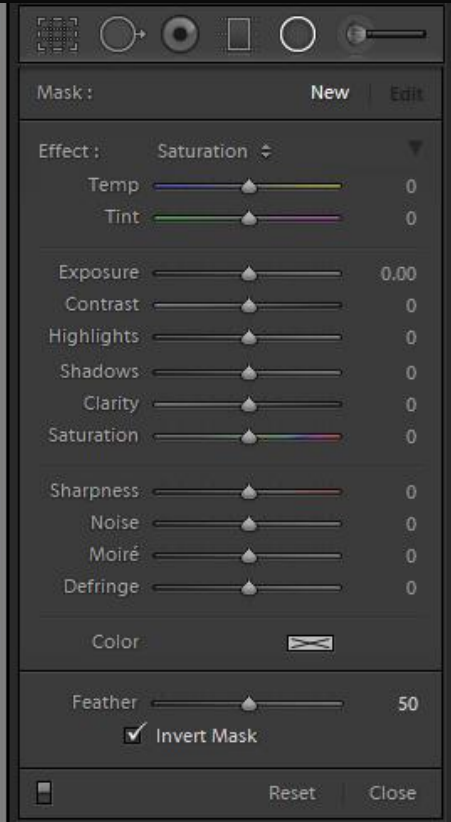


ENHANCE FACE EXPOSURE

- Right Click on Filter to Duplicate
- Or, CTRL-Alt-Click to Duplicate
- Drag to new Position
- Adjust Size and Shape



ENHANCE BACKGROUND



Background is Blown Out

ENHANCE BACKGROUND

- Uncheck Invert Mask
- Adjust Exposure



RECOMMENDATIONS

- Use as Needed



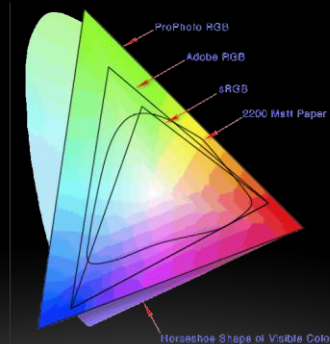
SOFT PROOFING IS

- A Simulation of How Your Image Will Look When Printed
 - Monitor View
 - Printed without Regard to Profile



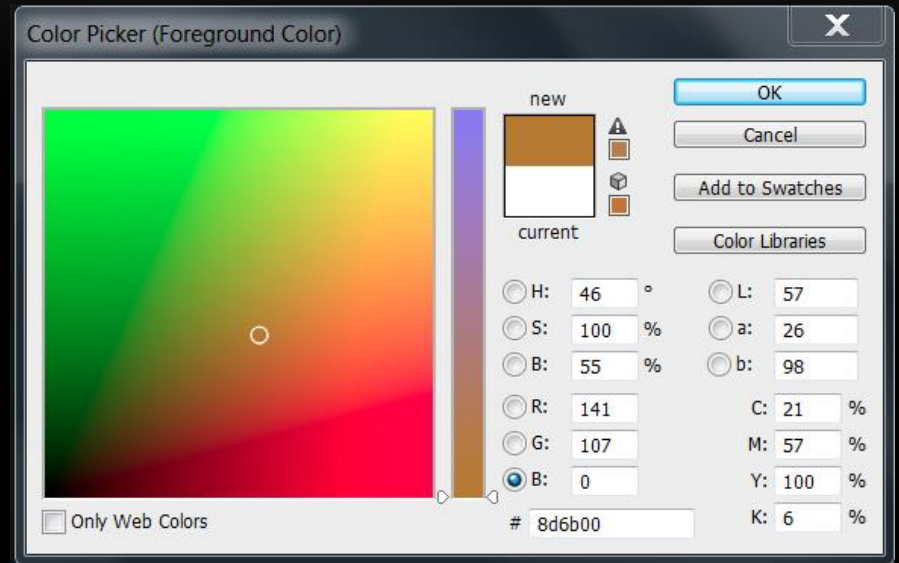
REQUIREMENTS

- Calibrated Monitor
- Output Profile
- Calibrated Output Printer



COLOR SPACE

- HSL – hue, saturation & lightness
- LAB – lightness & a – b relationship
- RGB – red, green & blue
- CMYK – cyan, magenta, yellow & black
- Values 0..255
 - RGB 226,6,0
 - CMYK 0,100,78,0



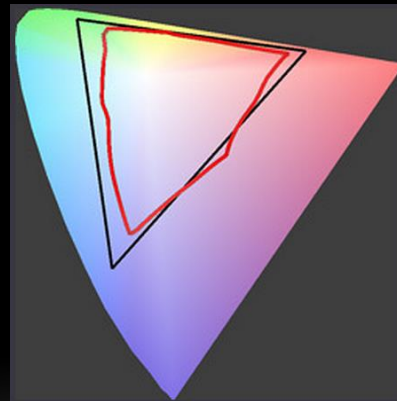
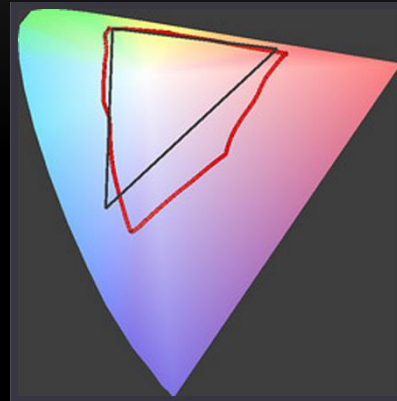
GAMUT

- The complete range or scope of something
- Color Gamut
- Monitor Gamut – See Light
- Printer Gamut – See Reflected Light



GAMUT

- Narrow Gamut Monitor
(Main Stream Display)
 - RGB Color
 - BLACK – Display
 - RED – Printer
- Wide Gamut Monitor



MONITOR

- Profile



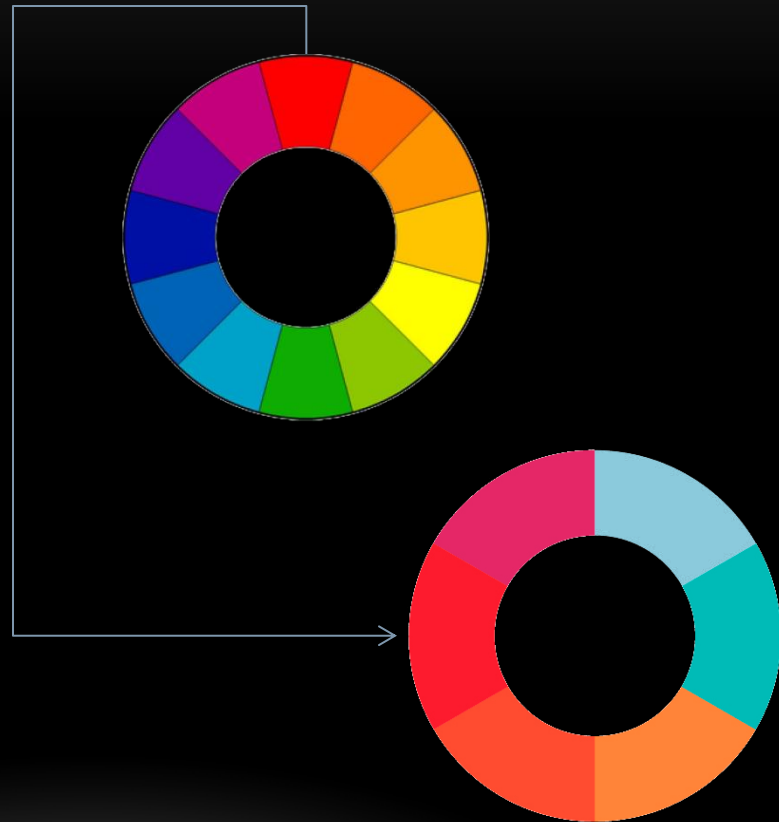
PRINTER

- Profile
- Or Download Profile from Printer



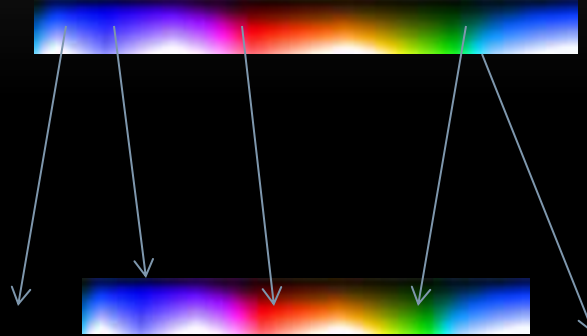
RENDERING INTENT

- Translation of Colors Between Color Spaces or Profiles
- Four Rendering Intents



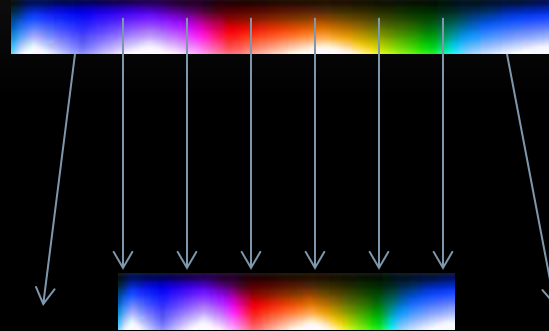
RENDERING INTENT

- Saturation
 - Bright to Bright
 - All others out



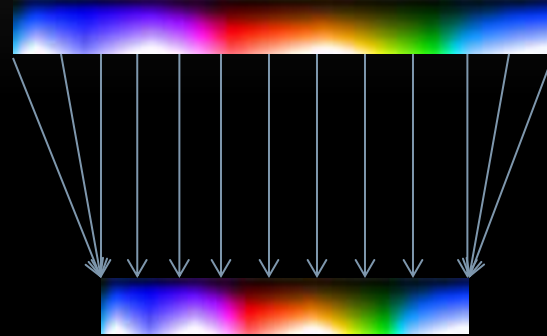
RENDERING INTENT

- Saturation
- Absolute Colorimetric
 - All In Gamut
 - Out of Gamut Discarded



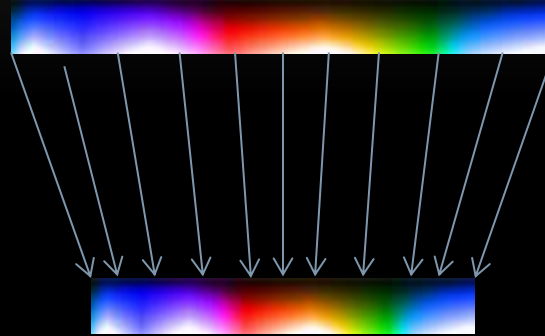
RENDERING INTENT

- Saturation
- Absolute Colorimetric
 - All In Gamut
 - Out of Gamut Discarded
- Relative Colorimetric
 - All In Gamut
 - Out of Gamut to Edge



RENDERING INTENT

- Saturation
- Absolute Colorimetric
 - All In Gamut
 - Out of Gamut Discarded
- Relative Colorimetric
 - All In Gamut
 - Out of Gamut to Edge
- Perceptual
 - All Moved Proportionally



DEVELOPMENT MODE – SOFT PROOFING

Adobe Lightroom 5
Get started with Lightroom mobile ▶

Library | Develop | Map | Book | Slideshow | Print | Web

Navigator FIT FILL 1:1 1:3

Presets +

- ▶ Lightroom B&W Filter Presets
- ▶ Lightroom B&W Presets
- ▶ Lightroom B&W Toned Presets
- ▶ Lightroom Color Presets
- ▶ Lightroom Effect Presets
- ▶ Lightroom General Presets
- ▶ Lightroom Video Presets
- ▶ User Presets

Snapshots +

History ×

Clarity	-31	19
Clarity	+50	50
Enable Lens Profile	Yes	
Import (6/25/2014 4:20:00 PM)		

Collections +

- ▶ Smart Collections
- ▶ Clouds 0
- ▶ Francis Time 0
- ▶ N Mexico, My Peopl... 13

Copy... Paste

Flowers-0369.ARW
1/50 sec at $f / 4.5$, ISO 100
29 mm (E PZ 16-50mm F3.5-5.6 OSS)

Click Soft Proofing

Histogram ▼

ISO 100 29 mm $f / 4.5$ 1/50 sec

☐ Original Photo

Basic ▼

Treatment: Color Black & White

WB: As Shot

Temp 5000

Tint +2

Tone Auto

Exposure 0.00

Contrast 0

Highlights 0

Shadows 0

Previous Reset

Zoom Fit ☐ Soft Proofing

Filter: ≥ ★ ★ ★ ★ ★ No Filter

Folder: Roses 23 photos / 1 selected / Flowers-0369.ARW

00:04

SOFT PROOFING

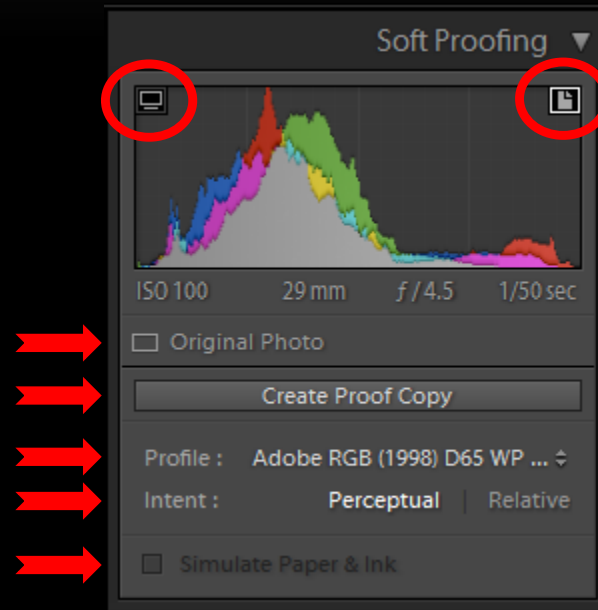
Proof Indicator

Soft Proof Panel

The screenshot displays the Adobe Lightroom 5 interface in the Develop module. The central area shows a photo of a pink rose with technical metadata: "Flowers-0369.ARW", "1/50 sec at f / 4.5, ISO 100", and "29 mm (E PZ 16-50mm F3.5-5.6 OSS)". The left sidebar contains the Navigator, Presets, Snapshots, History, and Collections panels. The right sidebar features the Soft Proofing panel, which includes a histogram, a "Create Proof Copy" button, and settings for Profile (Adobe RGB (1998) D65 WP ...), Intent (Perceptual), and Simulate Paper & Ink. Below the histogram are controls for Basic adjustments like Treatment (Color/Black & White), WB (As Shot), Temp (5000), and Tint (+2). The bottom of the interface shows a grid of 23 photos, with the current photo selected. The "Soft Proofing" checkbox is checked in the bottom right corner of the grid area.

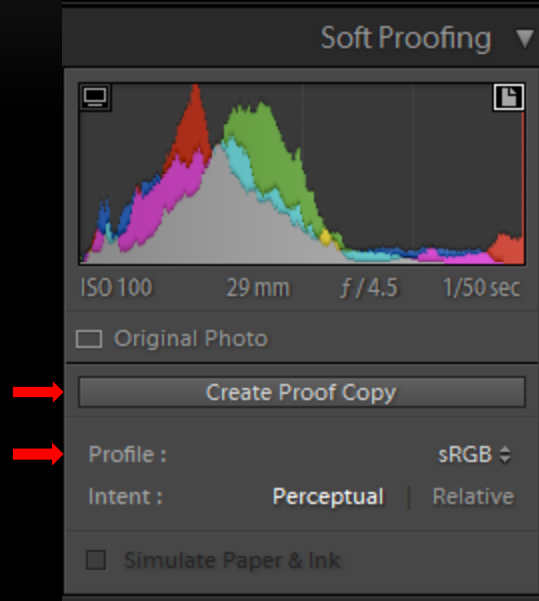
SOFT PROOFING

- Panel
 - Monitor Gamut Warning
 - Destination Gamut Warning
 - Photo State
 - Create Proof Copy
 - Profile
 - Intent
 - Simulate Paper & Ink



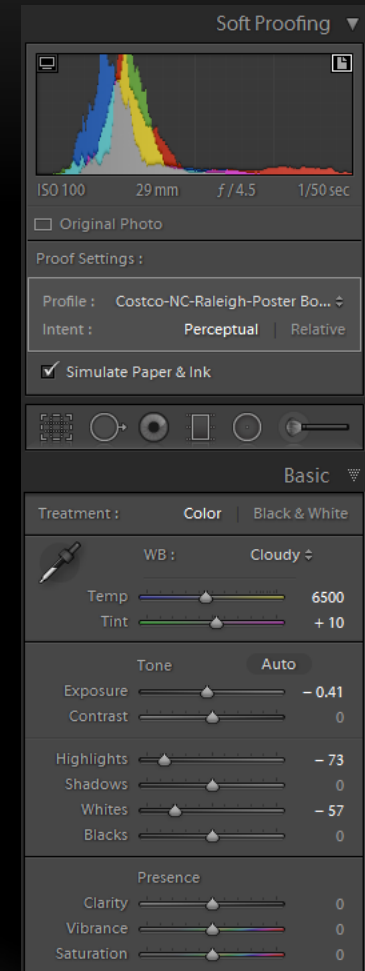
SOFT PROOFING

- Create a Proof Copy
- Set Profile
- Adjust Photo to Remove Gamut Warning (OR NOT)



SOFT PROOFING – READY FOR PRINT

- COSTCO Raleigh Poster Board Profile
- Actual Adjustments
 - Exposure – 0.41
 - White Point -57
 - Highlights -73
- Possible Adjustments
 - Contrast
 - Brightness
 - (White Point & Highlights)
 - Saturation
 - Exposure -2/3 stop



COMPARE RESULTS



Original

Soft Proofed for Costco Printer

SOFT PROOFING – RECOMMENDATIONS

- Obtain color profiles for printer
- If not available, use sRGB
- Create virtual copies of photos to soft proof if changes are needed
- Use Perceptual Rendering Intent under most circumstances
- For Web, use mainstream display space

Q&A



