



What ruins a photo?

- Poor composition
 - Lack of clear/obvious subject, foreground, background
 - Clutter and distractions, edges & corners
- Improper exposure
 - Over-exposure & distracting highlights
 - Under-exposure (sometimes fixable in PP)
- <u>Unintentionally</u> blurred image
 - Out of focus / improper depth of field
 - Subject moves too fast for set shutter speed
 - Camera shake

Learning Objectives

- At the end of this session, you will be able to:
 - Identify the possible causes of blah images
 - Select best images for post-processing/editing
 - List means to enhance white balance, hue, and saturation
 - List means to optimize contrast, vibrance, and clarity
 - Understand techniques to sharpen an image
 - Use local adjustments to make images pop
 - Identify useful post-processing filters & plug-ins
 - Obtain more pleasing and dynamic images

How do you define Pop?

- · Clearly identified subject with foreground and background
 - Good composition leading viewer through image
- Tack sharp
 - Focused, good depth of field, no diffraction or blur issues
- Proper exposure (luminosity, tonality, brightness)
- Good contrast (whites, blacks, good dynamic range)
- Sharp corners and edges (no cut-offs)
- Appropriate color saturation & 'vibrance'
- · Highlights and lowlights; depth to image
- Other?

File Type and image POP

- RAW files (.CR2, .NEF)
 - Large file size
 - Non-viewable image data
 - EXIF and other metadata and JPEG thumbnail (.XMP)
- DNG (Adobe, .DNG)
 - Smaller file size, non-proprietary
 - Non-viewable, slightly compressed image data
 - No .XMP side-car file needed
- JPEG images (.JPG, .JPEG)
 - Highly compressed, much smaller image file
 - Edited by camera/software
 - Each save loses data (lossy compression)

Luminance levels (brightness) per RGB channel

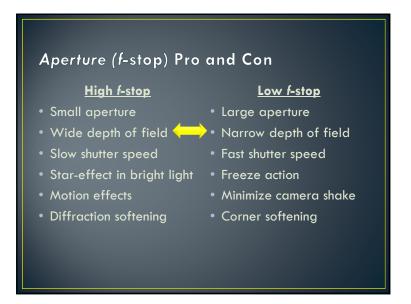
JPEG compression JPEG compression is "lossy" Each save causes data to be lost Frequent saves degrades image Not affected by opening and closing only https://www.ea.mboundlight.com/

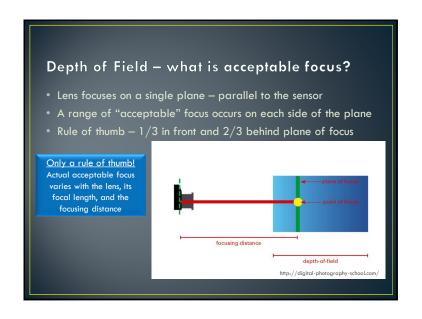
Exposure Control Triangle

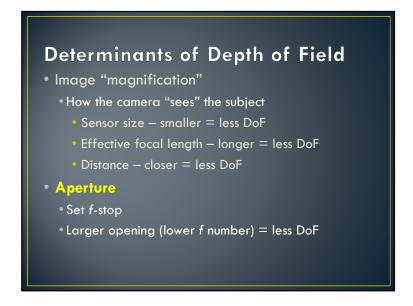
- Three elements control exposure
- ISO sets sensor sensitivity
- Aperture controls amount of light
- Shutter speed controls duration of exposure
- But don't forget "Exposure Compensation" is often essential

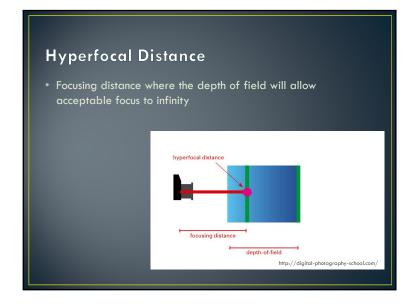
Any change in one factor requires an equal and opposite sum change in the other two factors

One "stop" or EV (exposure value) implies a doubling or halving of exposure.

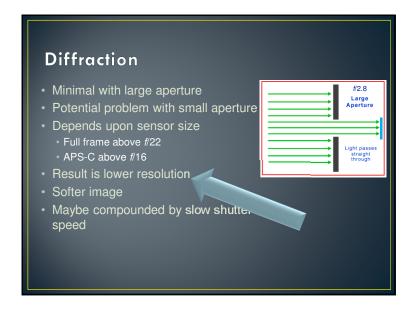












Post-processing Sharpening

- Not really sharpening
- Local contrast adjustments of "edges"
- Noise reduction / sharpening paradox
- Lightroom or CameRaw clarity slider
- Lightroom or CameRaw sharpening
- Photoshop sharpening tools
- Other software sharpening tools

Keys to sharper images

- Camera stabilization
- Appropriate lens
- Appropriate shutter speed
- Choose best focusing mode
- Always consider best motion blur for moving subjects
- Apply noise reduction and sharpening in postproduction

Post-processing / Editing

- Exposure / luminosity intensity of light
- Contrast / tonality range of luminosities
- Saturation (intensity of color)
- White balance
- Level and crop
- Sensor dust
- Distractions
- Digital noise reduction
- Sharpen

Compositional Elements

Direct the viewer

- Focus emphasize the primary subject and add context
- Lines natural, artificial, and implied
- Shape repetition, regularity, irregularity
- Frames real and implied
- Tonality exposure and contrast
- Color bright directs

- Editing?

Composition

- Right lens for subject and distance
- Fill the frame
- Clearly defined subject
 - Simplify the image
 - Eliminate clutte
 - Check your edges and corners
- Foreground, subject, background relationship
- Rule of thirds avoid "bulls-eyes"
- Leading lines
- Patterns (exception to the pattern)
- Natural frames

Ask yourself, in one word, what is the picture?

Composition Goals

- Create impact
- Stimulate imagination
- Emotion is key

Composition Technique

- Look, see, create vision of what you are creating
- Isolate and simplify
 - Lens selection
 - Depth of field
 - Field of view
- Subject, background and foreground
- Clean edges and corners
- Point of view height and angle
- Good to great = impact

Composition

- Avoid a centered subject no bull's eyes
- Rule of thirds
- Leading lines
- Natural frames
- Create tension with negative space
- Understand light
 - Depth and dimension are created by angle of light
 - Shadows are as important as highlights
- Visual pathway into image

Composition is about balance

Aspect ratio

Foreground/background

Format

Viewer's path

Shapes

- Point of view
- Edges and corners
- Texture and detail
- Arrangement
- Gradations

• Lines

Negative/positive space

• Focus

- Contrast
- Shadows & reflections
- Color
- Post –production and editing impact

LightRoom vs PhotoShop

LightRoom

- Synchronized editing
- Image storage system
- Database / search engine
- Adobe Camera Raw
- Image-level editing
- image level culting
- Non-destructive edits
- Limited local edits

PhotoShop

- Single image editing
- Bridge is viewer
- Adobe Camera Raw
- Pixel-level editing
- Destructive edits
- Smart objects
- Layers & overlays
- Masks
- · Content-aware fill

The programs are different but complementary.





Post-processing (Editing) Goals

- Optimize white balance and tint
- Optimize overall exposure and contrast
- Correct saturation problems
- Enhance local exposure and contrast
 - Dodge & burn; clarity
- Crop for final use (straighten, fix corners and edges)
- Eliminate distractions: clone, heal, blur, etc.
- Create vignette
- Merge images: HDR, panorama, focus-stacking
- Other local adjustments, filters, etc.

Develop Module • White and black points; highlights, shadows • Exposure, contrast – dynamic range • Color temperature, white balance, and tint • Presence (pop) - clarity, vibrance, saturation • Crop, level, clean-up, filters • Local adjustments • Gradient & radial filters, brush, spot removal • Dodge and burn • Tone curve, HSL, split-tone • Lens corrections and perspective control • Sharpness; luminance & color noise reduction • Special effects – post-crop vignette, grain





Exposure & Contrast Use histogram! Gross exposure to shift curve right or left Set white and black points Open shadows and highlights Fine tune each luminance segment Add clarity for mid-tone details Consider vibrance - if exposure is increased Preserves skin tones; acts only on unsaturated hues Consider saturation - if exposure is increased Use with extreme care Add contrast (if needed); check tone curve for fine

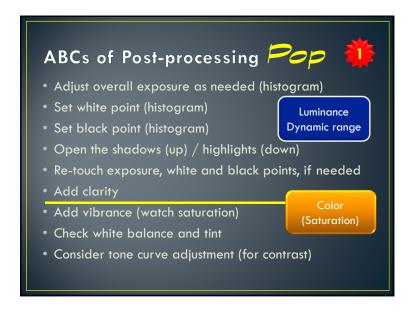
Application of processing

- Eliminate distractions
- Focus attention on subject

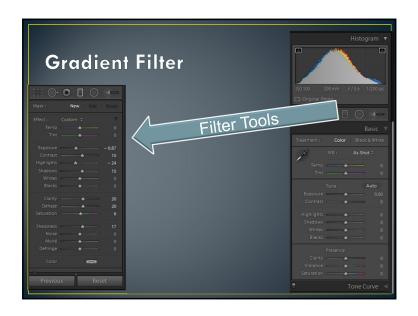
detail contrast adjustments

- Add 'depth' to image
 - Color / saturation / vibrance
 - Contrast / sharpness / clarity
 - Dodging and burning
- Keys to creating











Detail Panel

- View image at 100% at high contrast interface
- Look for color noise correct
- Look for luminance noise correct
- Sharpen but "mask" when needed to avoid over-sharpening in uniform contrast areas (sky)
- Detail rule:
 - Luminance noise reduction + sharpening = 100
 - Luminance noise reduction + sharpening = 80
- Don't forget noise reduction and sharpening in import presets
 - Noise reduction: 15-25% (low ISO)
 - Sharpening: 20-40% (very sharp)

ABCs of Post-processing



Review

- Adjust overall exposure as needed (histogram)
- Set white point (histogram)
- Set black point (histogram)
- Open the shadows (up) / highlights (down)
- Re-touch exposure, white and black points, if needed
- Add clarity
- Add vibrance (watch saturation)
- Check white balance and tint
- Consider tone curve adjustment (for contrast)
- Consider local adjustments, pre-sets, and filters

Good to Great Photographs

- Good photographs
 - Proper exposure
 - Sharp focus
 - Nice composition
 - Good subject
- Great photographs
 - Emotional impact / visual tension
 - Creativity and style
 - Feeling and emphasis
 - Seeing and understanding
 - Unique perspective / lighting

Summary

- The Teton Photography Group and Art Association of Jackson Hole thank you for joining us today and invite you to future
- Enjoy your photographic opportunities
- Understand your photography gear
- Critically review and share your images
- Experiment with new techniques and perspectives
- Learn composition techniques
- Practice, practice, practice but most of all enjoy making photographs

Thank you for joining us!