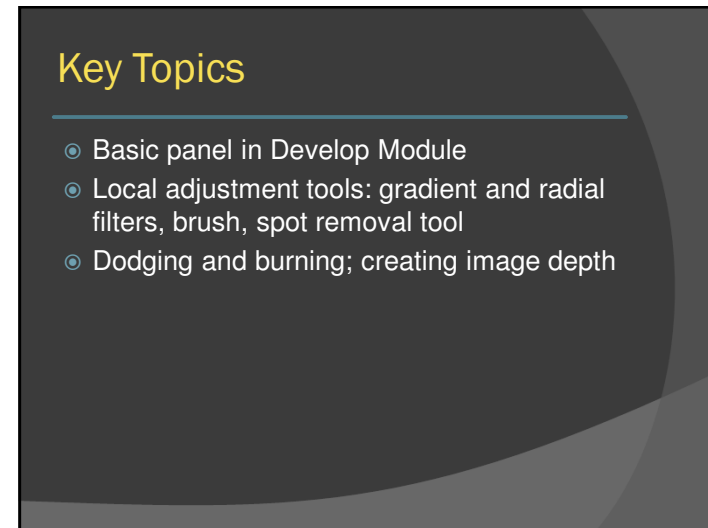
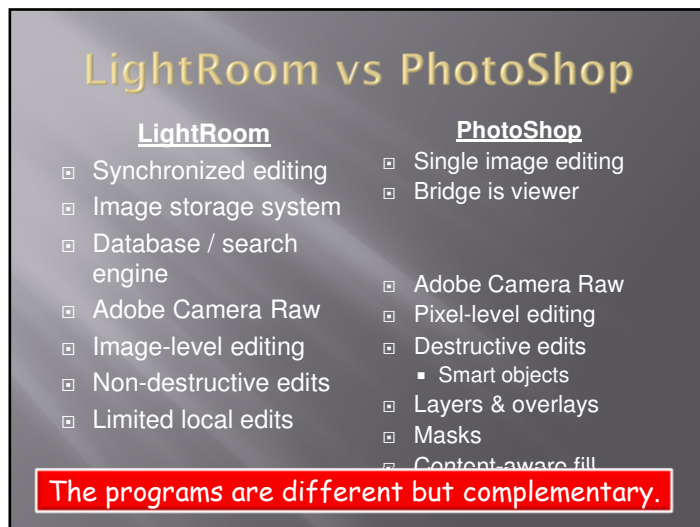




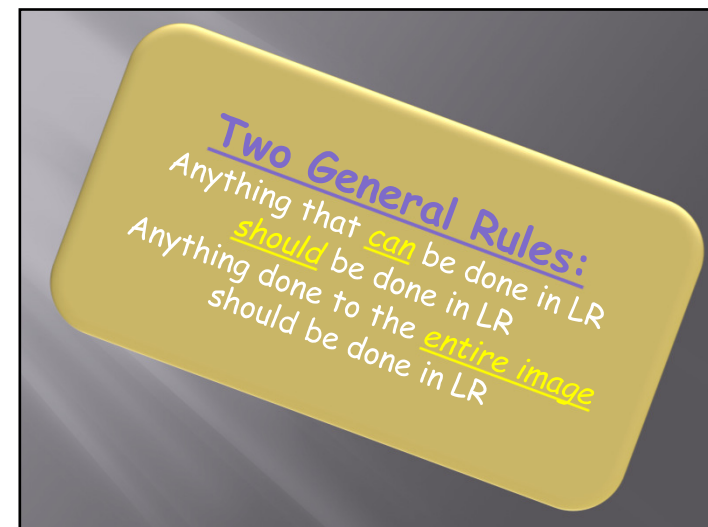
1



2



7



8

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.

10

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

12

Learn Keyboard Shortcuts

- ▣ Instant access to common tools or views
- ▣ Need help? Ctrl + / (Cmd + / on Mac)
- ▣ **E**- loopE view; **G**- Grid view; **D**- Develop module; \ - before/after toggle
- ▣ **X** – delete; **P** – Pick (flag), **U** - Unpick
- ▣ **Z** – toggle Zoom
- ▣ **F** – Full screen
- ▣ **I** – image Information overlay toggle
- ▣ **Tab** – view side panels toggle

13

Develop Module Panels

- ▣ **Local adjustment tools** – gradient, radial, brush, clone
- ▣ **Basic** – exposure & color correction
- ▣ **Tone curve** – contrast and dynamic range
- ▣ HSL – Hue, Saturation, Luminance, (B&W)
- ▣ Split Toning*
- ▣ Detail – noise reduction and sharpening
- ▣ Lens Corrections – aspect error, chromatic aberration
- ▣ Effects – vignette and grain; de-haze
- ▣ Camera Calibration*

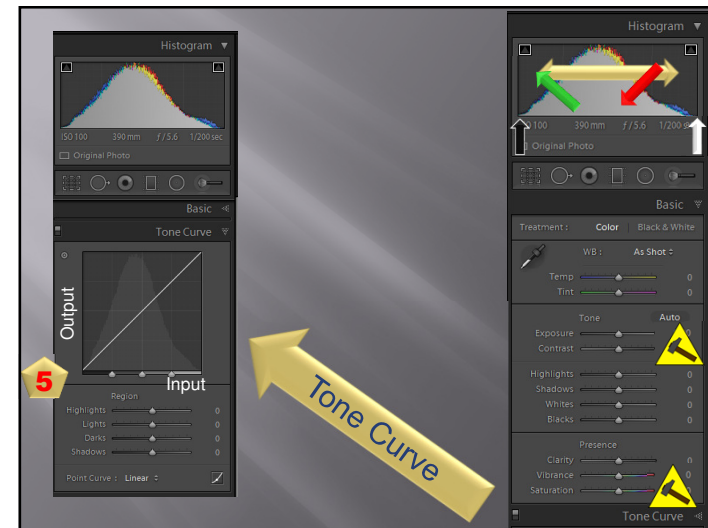
* = very low use

20

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 detail contrast adjustments

22



23

Local Adjustment Tools

- Non-destructive edits
- Affect less than entire image
 - Multiple effects can be **combined**
- Tone curve & HSL
- Spot removal tool (brush)
- ~~Red eye tool~~
- Gradient (graduated) filter tool
- Radial filter tool
- Local adjustments brush (tool)

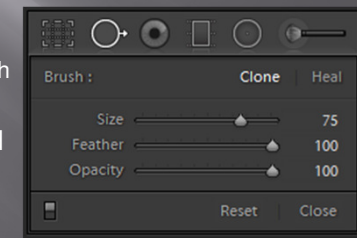
(New) Tools

- Auto-mask brush
- Luminance mask
- Color mask

24

Clone vs Heal

- Both functions hide selected regions
- **Clone**
 - Exact copy of pixels – hue, saturation & luminance
- **Heal**
 - Texture copied
 - Hue & saturation match
 - Softer blend effect
- Sometimes combined

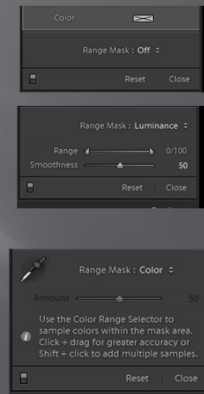


27

Gradient Tool Graduated Filter

Functions

- Replace graduated neutral density filter for camera
- Linear adjustments
- Feathered edge softening
- Temperature, tint, exposure, contrast, black & white points, highlights & shadows, clarity, dehaze, saturation, sharpen, color correction / toning
- Range masking



35

Radial Filter Tool

Functions

- Replace harsh vignette
- Oblong adjustments
- Feathered edge softening
- Temperature, tint, exposure, contrast, black & white points, highlights & shadows, clarity, dehaze, saturation, sharpen, color correction / toning
- Range masking

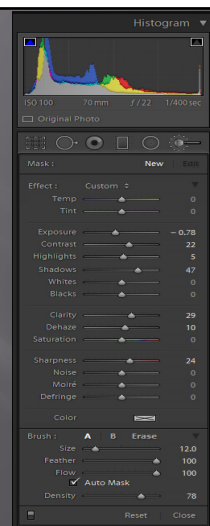


37

Adjustment Brush

Functions

- Local exposure adjustments
 - Traditional dodge & burn
- But far more:
 - WB & tint
 - Contrast & clarity
 - Dehaze
 - Saturation (not vibrance)
 - Sharpen
 - Colorize
- **Auto Mask**
- Size, feather, flow, density



39

Local Adjustments - scrubby slider

- Can create a series of edits under any local adjustment tool
- Scrubby slider allow strength of all effects

40

Application of processing

- ▣ Eliminate distractions
- ▣ Focus attention on subject
- ▣ Add 'depth' to image
 - Color / saturation / vibrance
 - Contrast / sharpness / clarity
 - Dodging and burning
- ▣ Keys to creating *Pop*

41

Summary

Lightroom:

- ▣ Powerful database for image organization
- ▣ Non-destructive, image-level edits
- ▣ Seamless integration with other Adobe and many third-party products
- ▣ Simple local editing to add drama to image

Photoshop:

- ▣ Pixel level, destructive edits
- ▣ Powerful tool for fine editing

47