THE WOODLANDS CAMERA CLUB
PROCESSING YOUR PHOTOS SIG
MARCH 15, 2021

ENLARGING IMAGES FOR PRINTING IN LRC & PS

WHICH TOOL SHOULD I USE TO ENLARGE MY PHOTOS?

- Adobe has made a lot of improvements over the past few years in both PS and LrC in the process used to enlarge images

- For most printing needs (including large prints) the tools in LrC and PS are good enough to get the results needed for typical viewing situations (i.e., from a couple of feet away)

- Various plug ins and other tools are available to do the job, but often don't do any better than LrC or PS

FIRST STEPS

- Before enlarging, crop your image to the Aspect Ratio that matches the print size you plan to use. This allows you to select the area that will be printed rather than relying on the printer or an automated tool to crop.

- For example, if you plan to print 16 X 20, crop your image to a 4 X 5 or 8 X 10 aspect ratio

- This can be done in LrC, ACR, or PS

ENLARGING IN PS 2021

- Open your image in PS; Click on Image > Image Size

- In the Dialog Box, first enter the resolution in pixels per inch; then enter the width or height in pixels or one of the other measurements allowed; Make sure the link is on between width and height so the Aspect Ratio is maintained

- Choose a Resample method - Preserve Details 2.0 is the latest method and is preferred

- Click Okay and you're done

ENLARGING IN LRC

- Select the image in the Library Module and Click on Export

- Set a destination (e.g., desktop, same folder as original, etc)

- In File Settings, choose Format (JPG, TIFF, etc)

- In Image Sizing, choose a measurement (e.g., Long Edge); enter desired size and resolution

- Adjust any other Export settings needed

- Click on Export and you're done

Refined Upsizing in Lightroom and Photoshop

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Refined Upsizing in Photoshop

- Crop to Desired Aspect Ratio

- Upsize in Photoshop as per DAR demo

- THEN Use Camera Raw Filter to:

  - ✦ Reduce Noise (Detail Panel)

  - ✦ Sharpen (Detail Panel)

  - ✦ Add Grain (Effects Panel)

- Export in format for printing or large digital display

Refined Upsizing in Lightroom Classic

- Crop to Desired Aspect Ratio

- Export to Desired Size in a lossless format (TIFF) **and Add to Catalog**

- Develop Upsized Image in LrC:

  - ✦ Reduce Noise (Detail Panel)

  - ✦ Sharpen (Detail Panel)

  - ✦ Add Grain (Effects Panel)

- Export in format for printing or large digital display

March 2021 Updates to Photoshop (Adobe Camera Raw)

- Super Resolution - Uses machine learning to double linear resolution of image while preserving detail and reducing artifacts

- New sort options for ACR filmstrip

- Ability to edit Develop panels (hide or change order)

- Apple ProRAW profile added to Basics panel

"Super Resolution" in ACR

- From ACR, upsizes images to double linear resolution (4X pixel count)

- Uses machine learning (AI) to preserve details and reduce artifacts due to upsizing

- Not available in ACR Filter

- Not YET available in Lightroom Classic, but "coming soon"

- Currently only upsizes 2X; cannot apply twice

References

The Easy Way to Resize (Enlarge) Your Photo with Photoshop or Lightroom

https://mattk.com/the-easy-way-to-enlarge-your-photos/

Video on Enhanced Upsizing for printing by Mitch Boyer

https://www.youtube.com/watch?v=vc_W6gINFho

Video on March 2021 PS Update by MattK

https://www.youtube.com/watch?v=JpI_NfrKod8

Article on Super Resolution by Eric Chan

https://blog.adobe.com/en/publish/2021/03/10/from-the-acr-team-super-resolution.html#gs.vbphsu

Video on Super Resolution by Julieanne Kost

https://www.youtube.com/watch?v=-uNdijku7iY