

Topaz deNoise & Sharpen AI

An Introduction

Topaz is first out of the block with AI technology

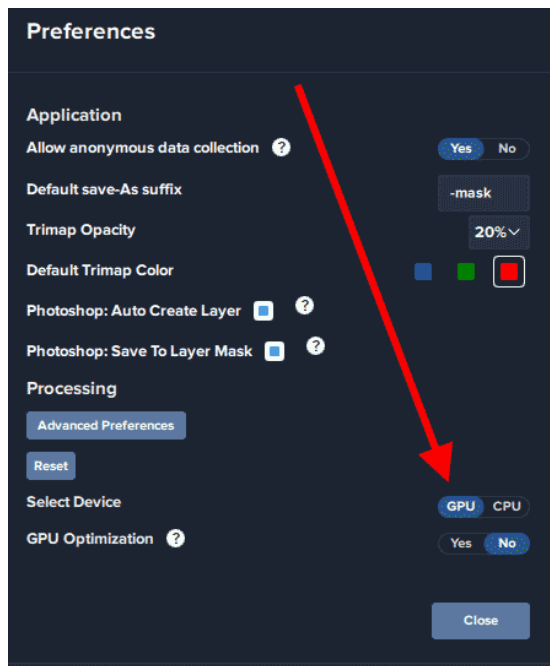
- Migrates from old analogue to 21st century digital
- To date all of the film era blurring techniques of noise reduction and sharpening are reproduced digitally
- “AI” allows us to manipulate images as we would . . . if we had time.
- All the software vendors will come on fast! (Competition is Wonderful!)
- “AI” techniques for self driving cars, etc., is at the end zone due to computation limitations

Make AI run faster!

- AI is compute intensive
- It will use either your processor or your video card “Cuda” cores.
- Using your “Cuda” cores is an option that must be enabled for each Ap
- A new video card with lots of “Cuda” cores is the least expensive way to upgrade
- Thank the gamers and bit coin miners for these developments!

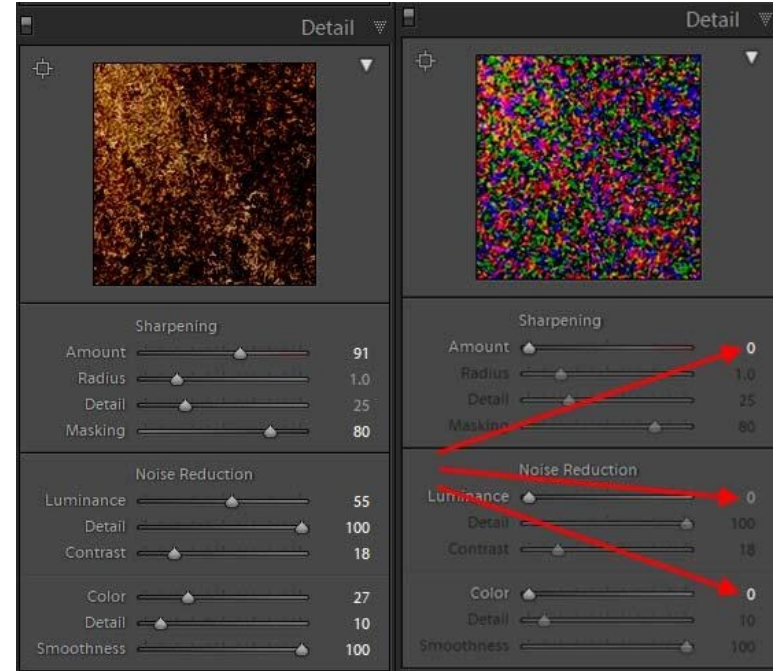
Topaz does NOT use Cuda by default

- File > Preferences > Advanced



But Before We Start . . .

- ALL Noise & Sharpening MUST be ZERO
- Any added noise & sharpening artifacts will confuse the software!



Links (if adobe reader crashes copy the link and paste into your browser)

[Joel Wolfson Webinars](#)

[Intelligent Workflow with Topaz AI Software, presented by Joel Wolfson](#)

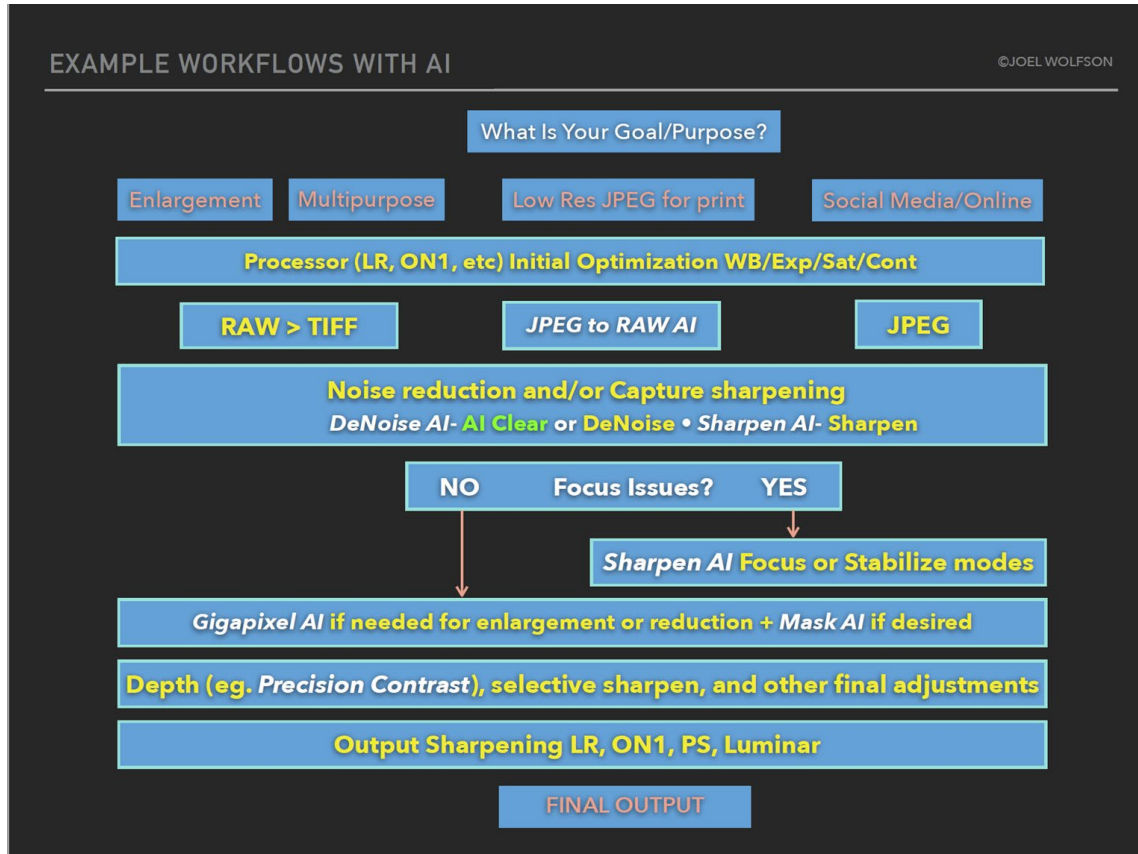
[Less Noise, More Detail with DeNoise AI, presented by Joel Wolfson](#)

[Sharpen Your Skills with Sharpen AI, presented by Joel Wolfson](#)

Joel's [Discounts page](#) has 15% off coupon for Topaz Products!

Current Bundle Promo for \$195.99 ?- 15% = \$167

Topaz AI Tools: What is the purpose?



Jpeg to Raw AI

For Old Jpeg Image or loRez Phone images; Basically 8 bit to 16 bit with AI interpolation. May as well skip dng and go to TIF

Gigapixel AI

Pump up low rez old jpeg or phone images for big prints

Adjust AI

Saves time to get somewhere more interesting

deNoise AI: Excels at noise reduction, capture sharpening, skin smoothing

1. Works with

- a. Photoshop
- b. Lightroom
- c. Capture One
- d. DxO PhotoLab
- e. On1
- f. Stand Alone
- g. Stand Alone Batch Processing

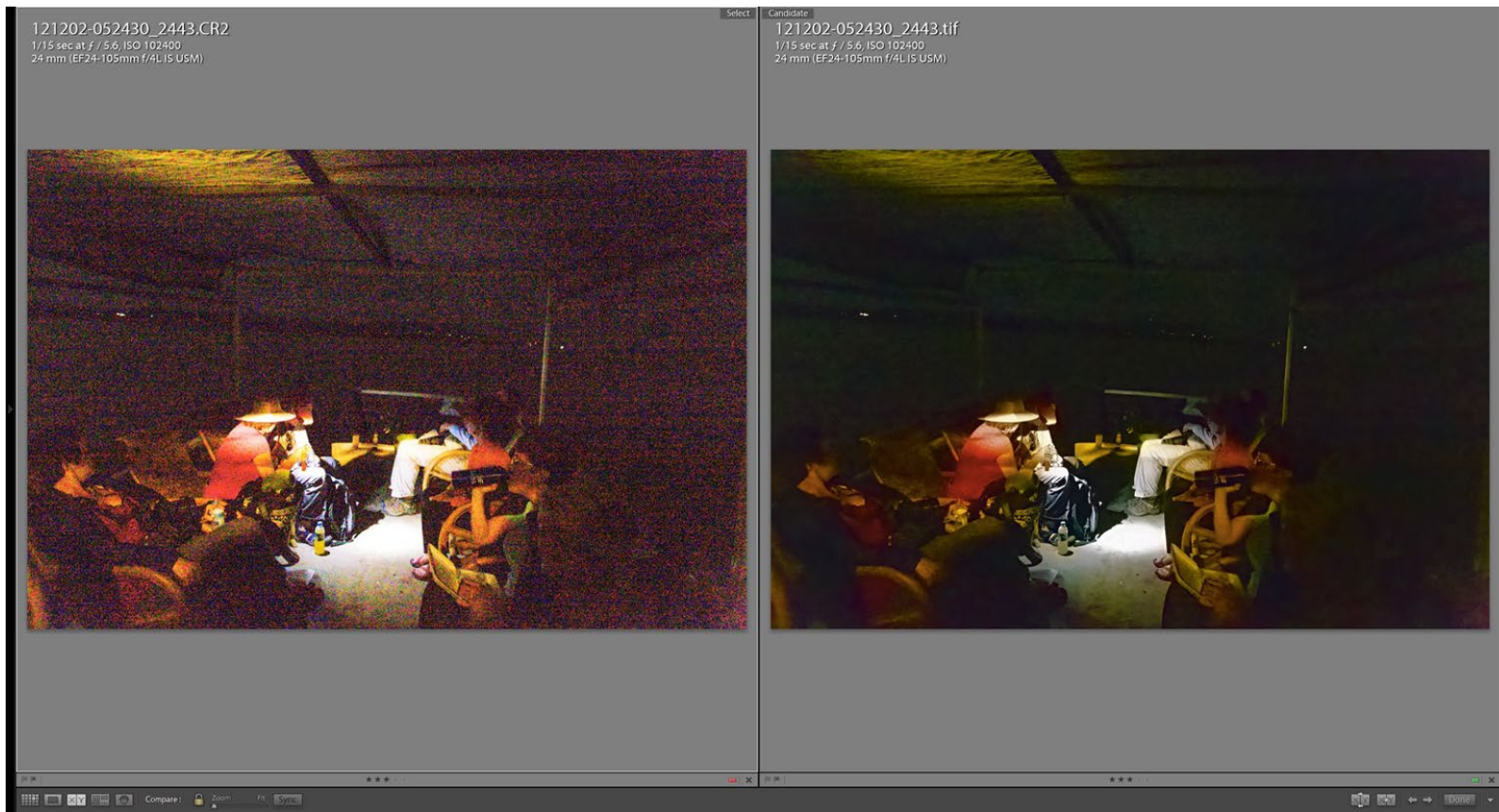
Sharpen AI

- Sharpen AI fixes focus, motion sharpening (slower than DN); really shines on focus & motion issues.
- Works with the same Apps as deNoise AI

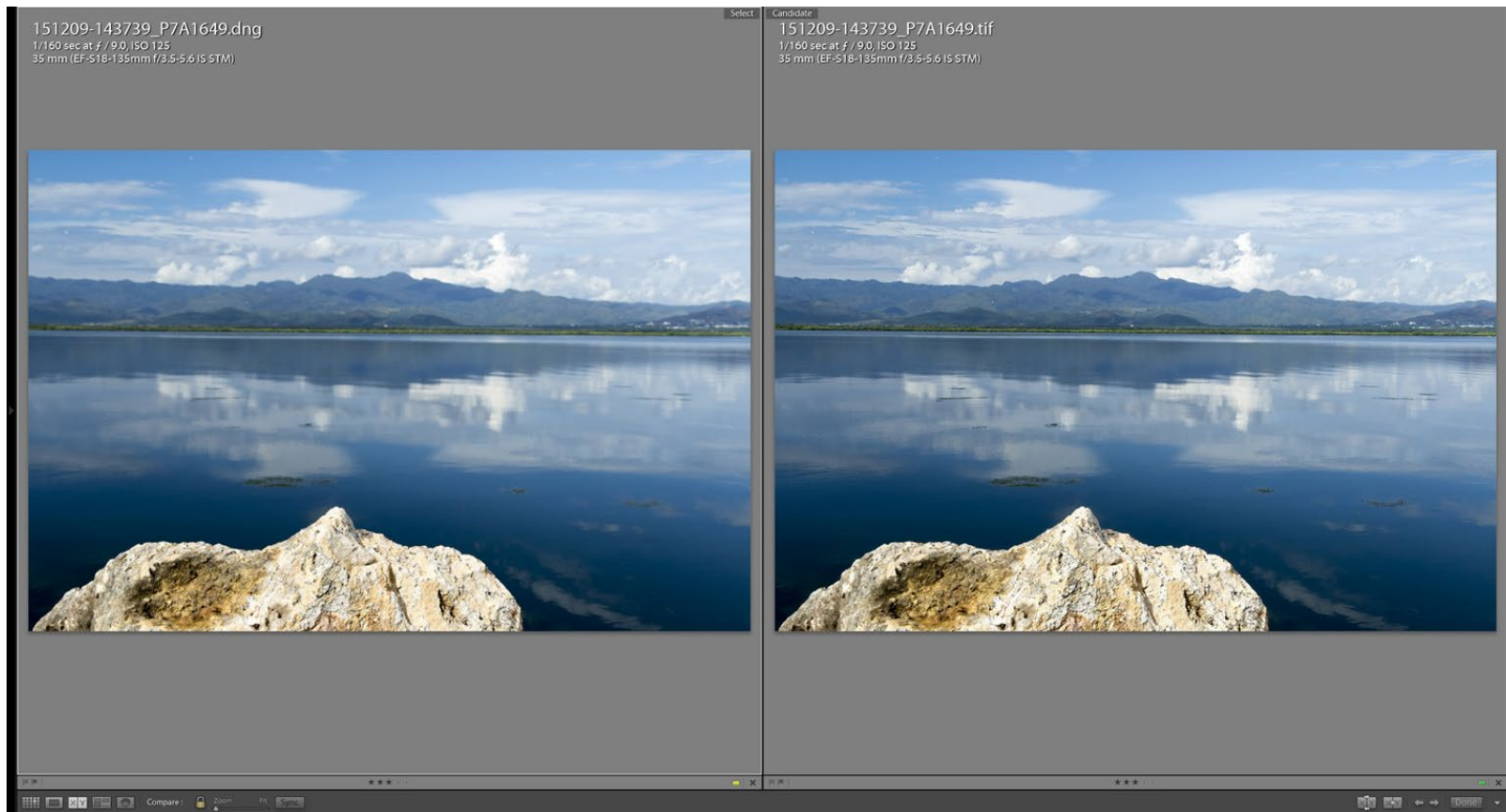
The links in the in the following eight slides are download links of zipped files with a layered tif file of the image. The layers have notes showing how the image was built. Some of the images have the “layer Comps” window filled out to easily cycle through the views.

Again, if Adobe Reader crashes simply paste the link into your browser.

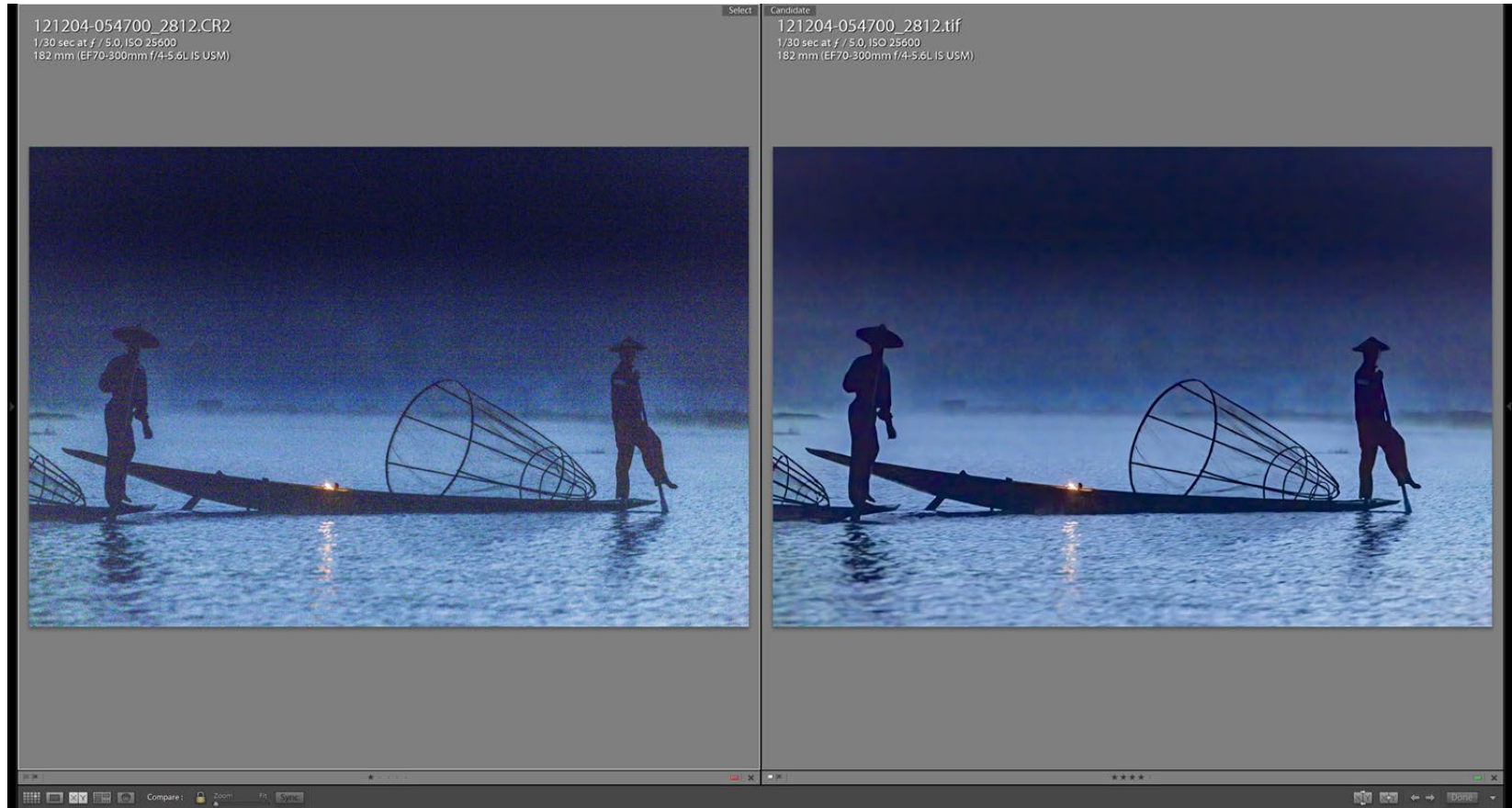
deNoise: A very high noise boat ride



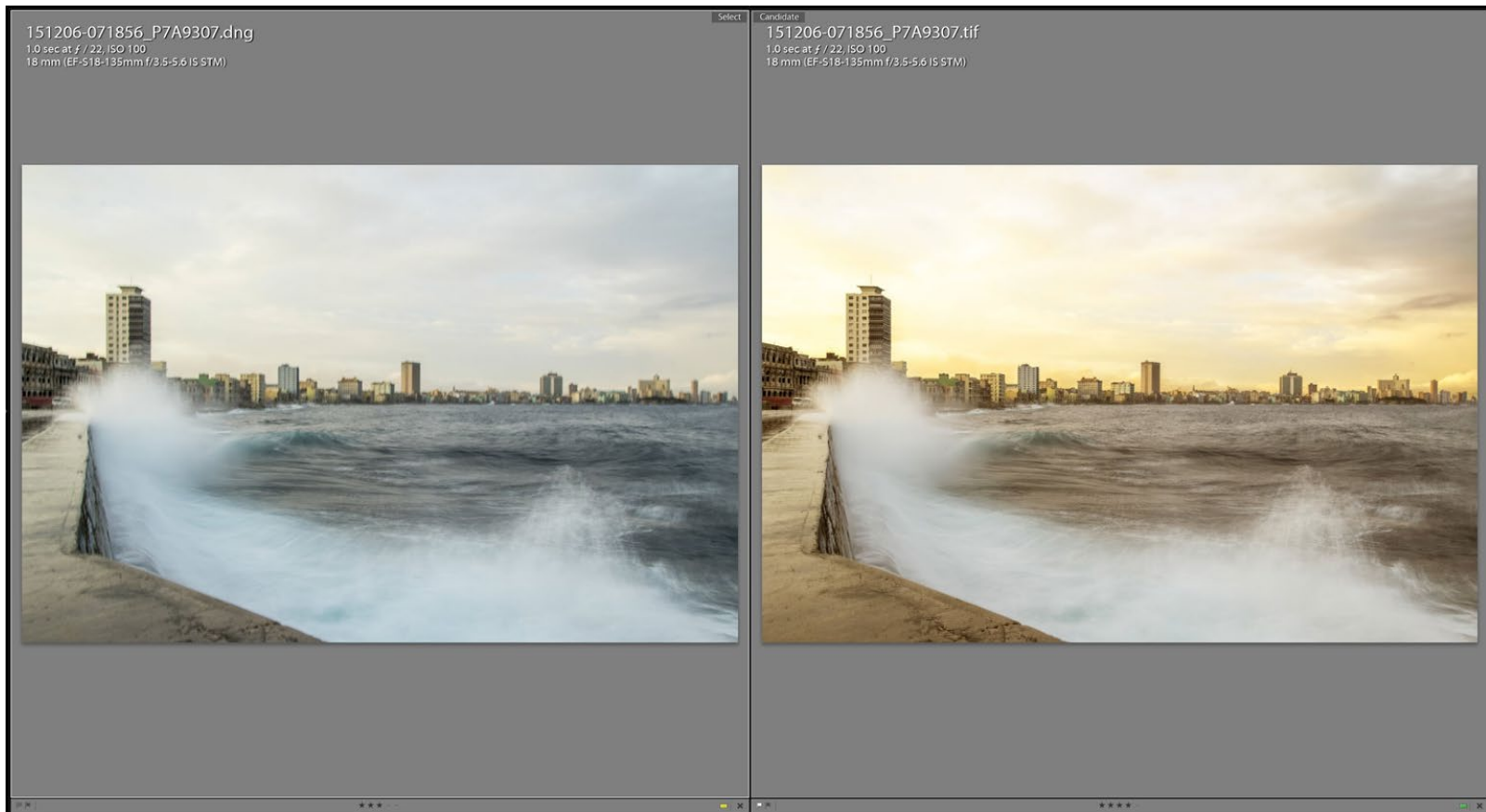
Sharpen the Mountain Range



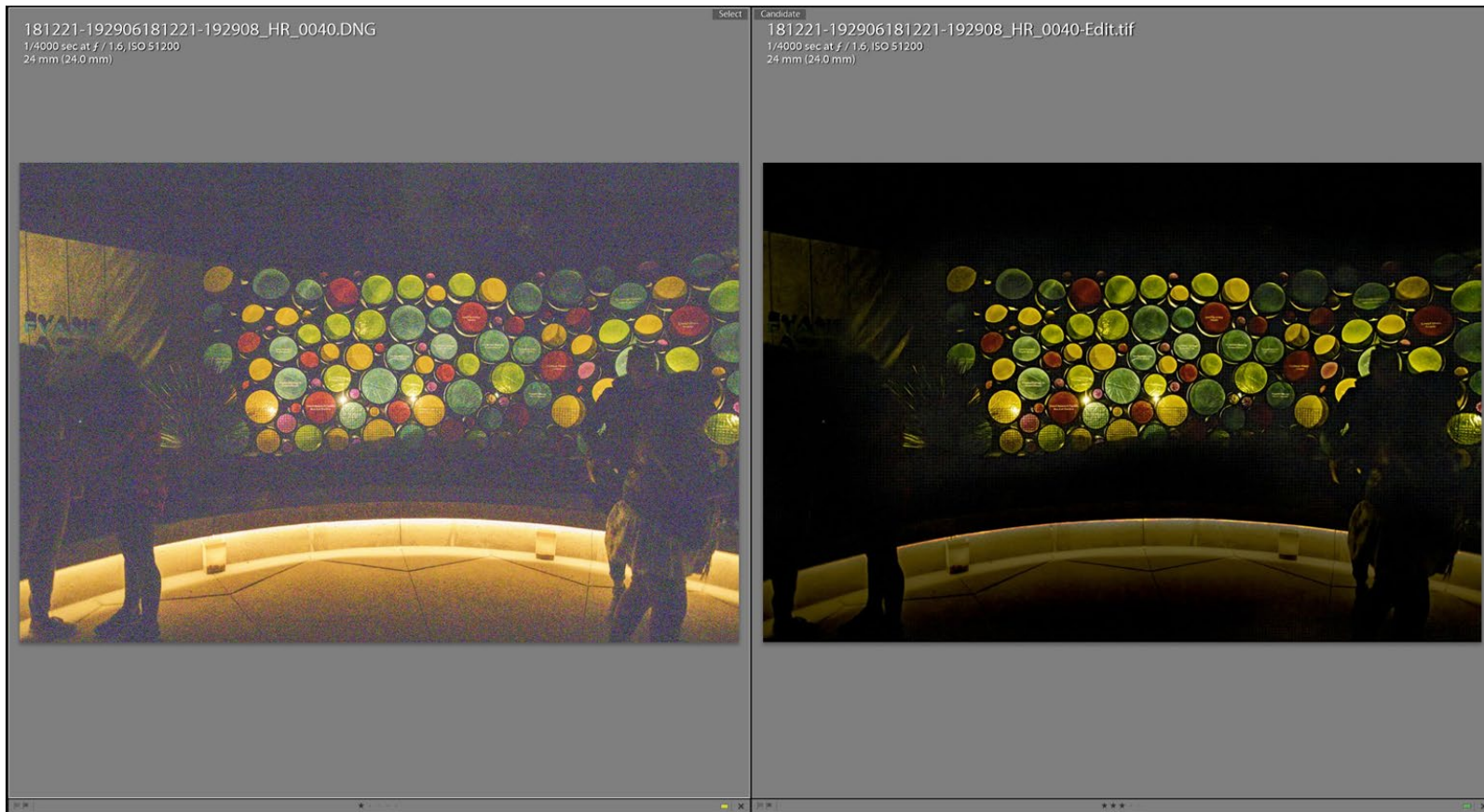
deNoise the Fishermen



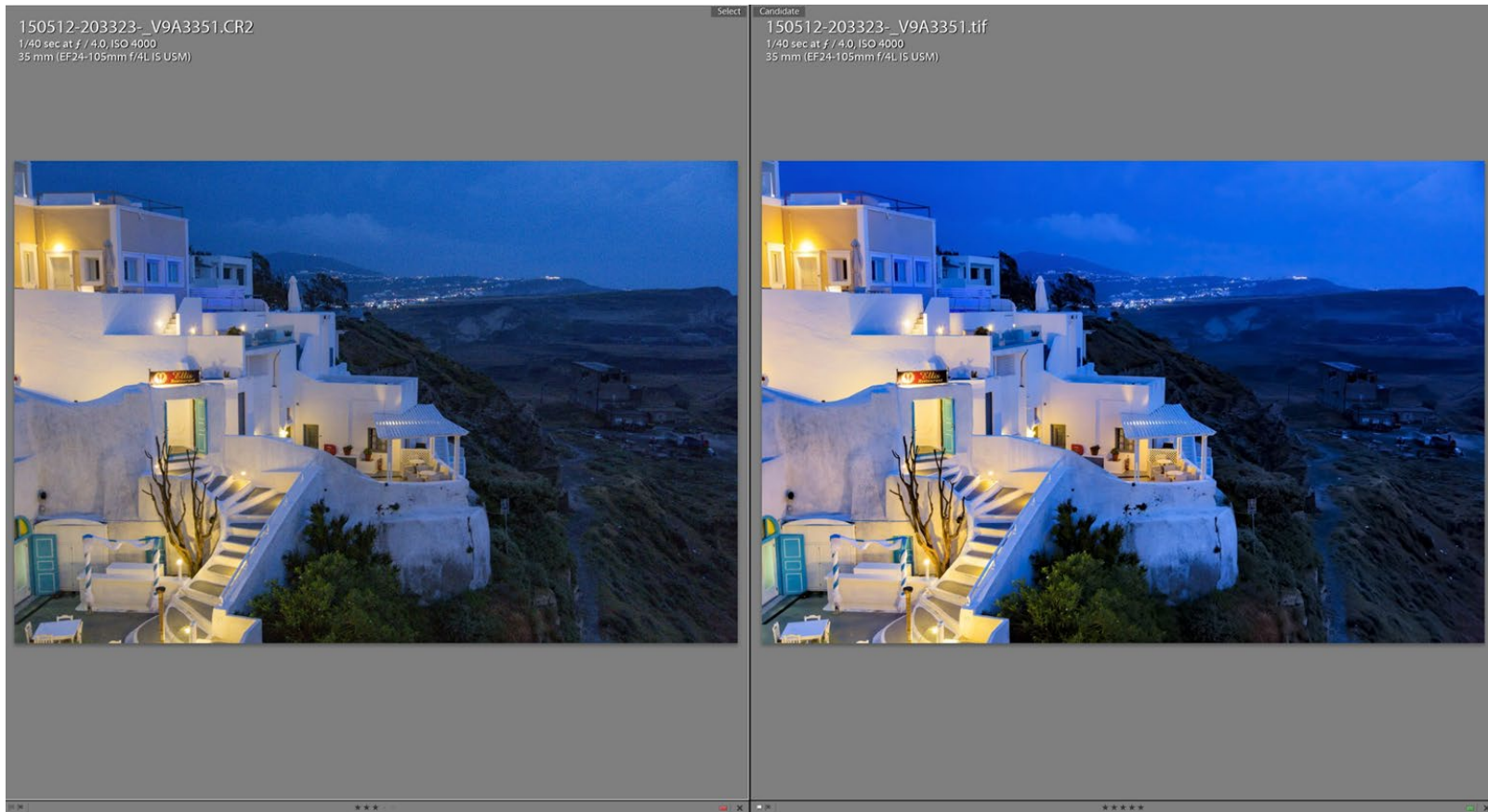
Sharpen down in Cuba



Noise in the Phoenix Desert Botanical Garden

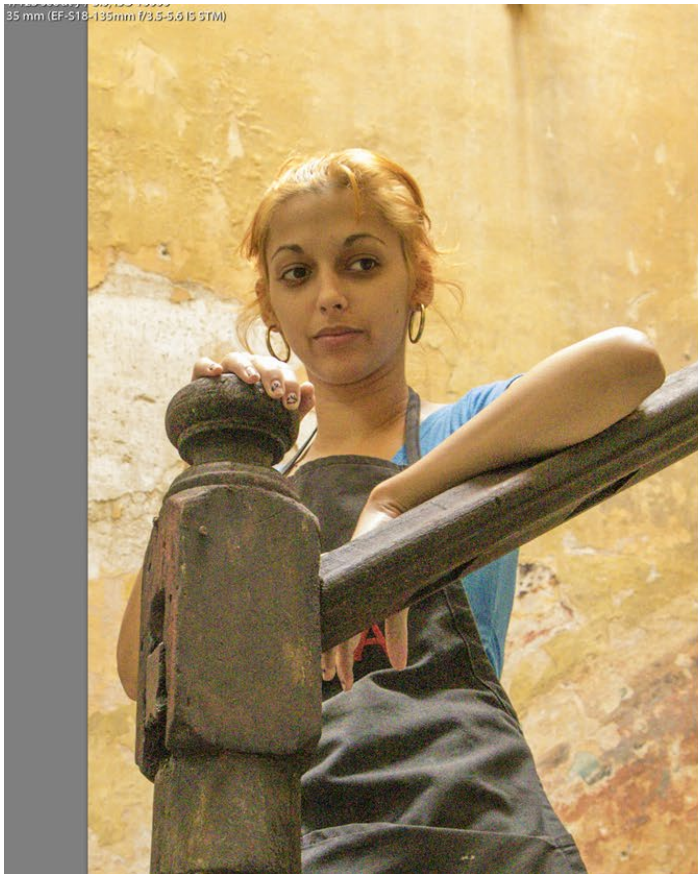


Sharpen in Santorini



Noise in Cuba

35 mm (EF-S18-135mm f/3.5-5.6 IS STM)



35 mm (EF-S18-135mm f/3.5-5.6 IS STM)



Sharpen in Slovenia

1/80 sec at f / 2.8, ISO 125
32 mm (EF16-35mm f/2.8L III USM)



1/80 sec at f / 2.8, ISO 125
32 mm (EF16-35mm f/2.8L III USM)



Considerations for video cards

- I am not an expert on video cards. I've always used nVidia chips with "Cuda" cores mostly because that's what Adobe insisted on back in the day.
- "Cuda" may be short for Baracuda but maybe not. It does sound sexy though
- The world has moved on since then. The Gamers & Bit miners created the market that we photographers benefit from.
- AMD and others have created other chip sets that are likely as capable and perhaps less expensive.
- Do your research to figure out what works for your rig & budget
- Collateral damage: if your computer is more than five years old it may be time for an upgrade
- Jerry Reece's computer was so old all we could salvage were the cobwebs!
- I salvaged the case, windows 10, & the video card. That saved 30%

Video Card Possibilities

- Less Than [\\$200 New with 1280 Cuda Cores](#)
- Less than [\\$200 Refurbished with 2304 Cuda Cores](#)
- Between [\\$200 & \\$300 with 1536 Cuda Cores New](#)
- Between [\\$200 & \\$300 New with 2304 Cuda Cores Refurbished](#)
- More than [\\$300 with More than 2300 Cuda Cores New](#)