

Purpose(s)

- Record & share my experiences digitizing & color-correcting hundreds of old slides
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Assumption/Disclaimer

- Slides are standard 2x2 inch cardboard or plastic slides made from 35mm, 110, or 126 format film.
- Disclaimer: There are other ways to do this work! Here are some examples.
 - "outsource" the work: https://www.astoundvideo.com/index.php
 - Equipment rental:
 https://services.ezphotoscan.com/rent-photo-scanner-photo-slide/



Tools - Hardware

- An inexpensive Epson Perfection V370 scanner that can scan four slides at a time. Resolution up to 4800 dpi.
- https://epson.com/For-Home/Scanners/ Photo-Scanners/Epson-Perfection-V370 -Photo-Scanner/p/B11B207221





05/15/20

Tools - Software

- VueScan (https://www.hamrick.com/): scanning; pro version costs less than \$100
- Image viewer s/w that can flip images left/right and up/down; comes with your operating system; e.g., eye-of-mate, ms photos, etc.
- DigiKam (https://www.digikam.org/): batch processing of slides for doing color correction, adding metadata, etc.; free
- My operating system was Ubuntu Mate (Linux), but tools work on Windows or MAC OS as well.

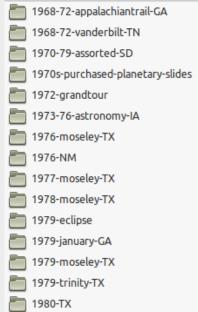
Major Steps (PSPSP)

- Prepare the slides
- Scan the slides
- Process the results to correct color, add metadata, etc.
- Save/Preserve selectively and carefully
- Publish on the web so that the results can be shared (using Google Photos)
- Don't forget: enjoy the nostalgia; have fun sharing the results with others; learn more about your family and ancestors.



Preparing the Slides

- Organize into groups, collections, etc.
 according to rules that make sense to you.
- by date, by date and location, by location, by subject, etc.
- e.g., 1981-SD, 1981-honeymoon, 1981-january-TX, . . .
- Develop your plan! This is the measure twice, cut once step.
- Get to know your slides again!
- Decide how/if you want to integrate them into your family tree.





Integrating Photos with a Tree

- Various <u>optional</u> things to consider . . .
- Put images in the image gallery that your family tree software uses. (issue: duplicates versus pointing the software to your pictures folder)
- Put links to special photos in the notes in your tree. e.g., note for Dennis Bates, /home/craig/Pictures/family_Bates-Loy/Dennis/1939Grand mas.jpg
- Maybe your tree software has a slick way of integrating a photo and its metadata with your tree.
- Note the issue that one photo may pertain to multiple people. DigiKam handles this nicely – maybe be satisfied with it.



Scanning Process (1)

- Select 4 slides; load the scanner "frame"
- pay attention to order
- "this side toward screen" should be up



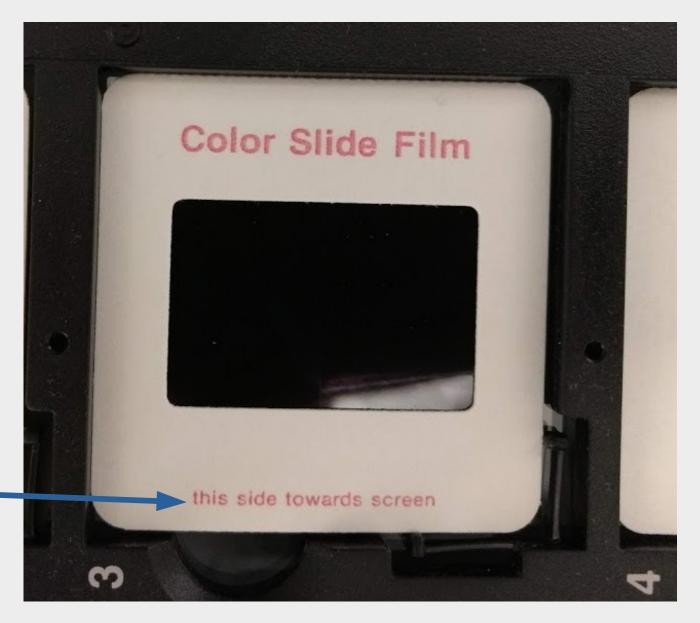
Load Slides (1)



Note scan sequence!



Load Slides (2)



Scanning Process (2)

- Configure VueScan: batch processing, destination folder, auto file naming, cropping, output format (e.g., jpeg), resolution
- Note: automatic cropping for 35 mm slides only; manual otherwise
- Note: you can ask for automatic color correction, but it may be more efficient to do this using digiKam
- Do a preview scan (and adjust cropping and/or color adjustments as desired)
- Scan!

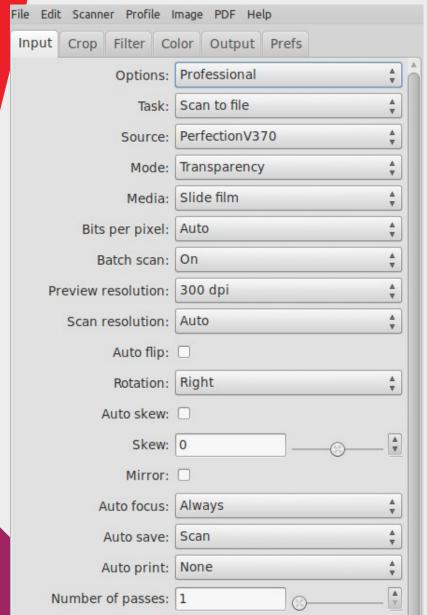


Scanning Process (3)

- Review the four resulting images using your image viewer and correct any left/right or up/down issues
- Copy these to a destination folder
- Repeat until your current set of slides is done.
- Back up the results on a separate medium (e.g., drive)



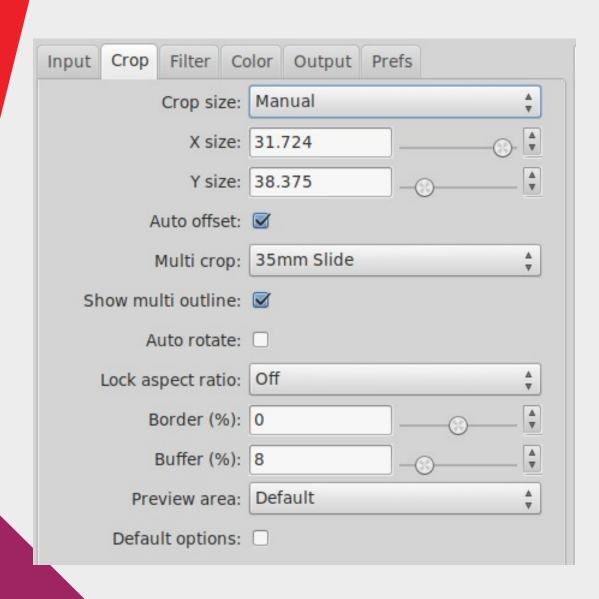
Configuration - input



Auto print:	None	▼
Number of passes:	1	A
Scan from preview:		
Multi exposure:		
Lock exposure:		
Red analog gain:		▼
Green analog gain:	1	A
Blue analog gain:		A
Default folder:	/home/craig/Desktop/scan	▼ @
JPEG file name:	YYYY-MM-DD-0001+.jpg	▼ @
Default options:		
Delaule options.		
Preview Sca	n Op	tions+

05/15/20

Configuration - Crop

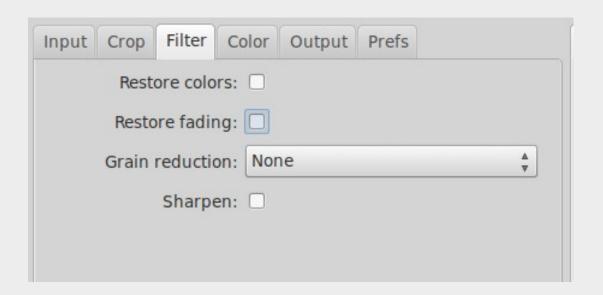


Example shown is for a non-standard 2x2 slide that required manual crop area adjustment.

For standard 35 mm slides, crop size should be set to "auto."

05/15/20

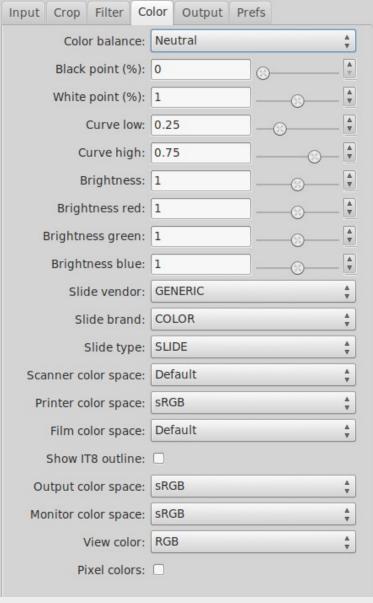
Configuration - filter



You can correct various problems here. For example, you could address fading here.

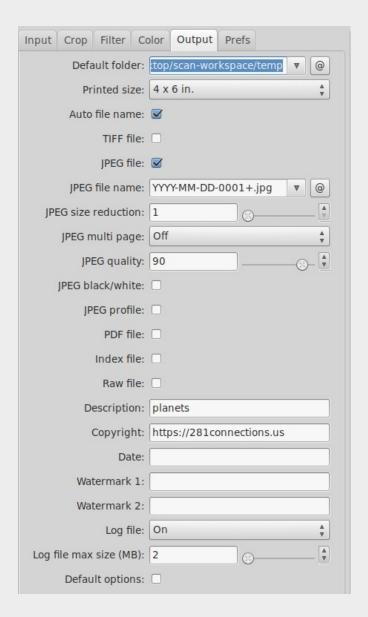
I eventually elected to do fading correction in large batches using digiKam.

Configuration - color



Standard neutral setting(s) worked well.

Configuration - output



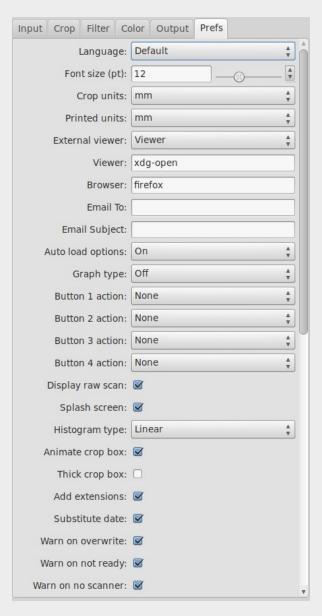
Define the folder where you want the scan results to be put.

I used auto file naming & used the default format shown here. (date plus a number)

Output format set to jpeg.

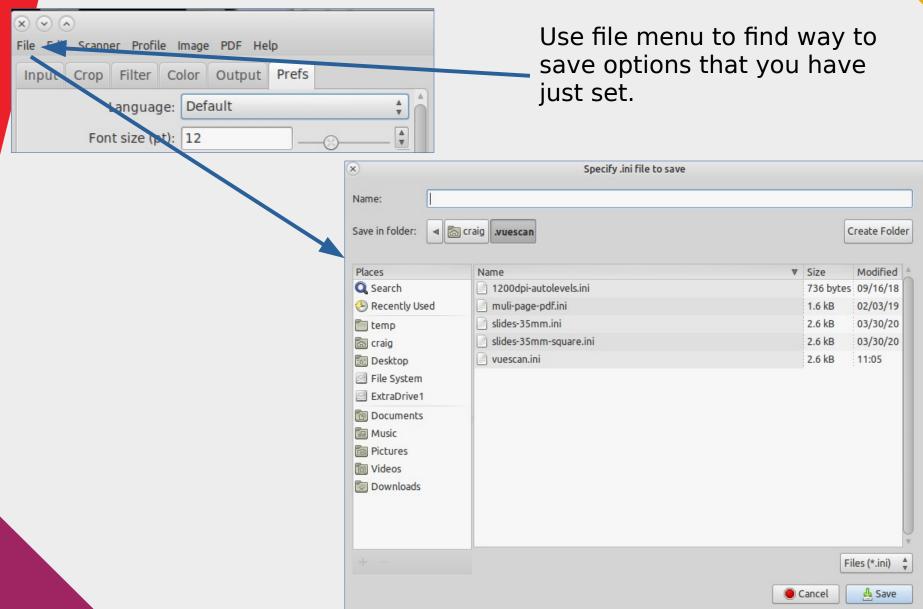
Use description & date & copyright fields if you want, but these can be changed in digiKam.

Configuration - prefs



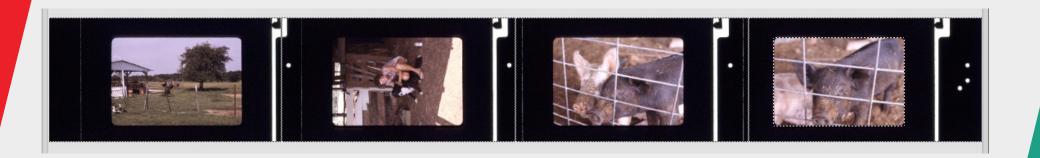
I chose the system defaults.

SAVE options settings!!!!



Preview

Preview scan is used to make sure all looks well, to adjust the crop window, and to decide on filter options (if you use them).



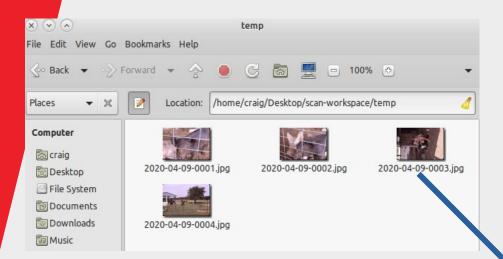
Scan

When you click the scan button, each slide is scanned in order automatically and saved.

You may notice that for each slide there is a calibration phase and then the final scan, after which the final image is revealed.



Review



Use your local image viewer to double-check the results and to correct rotation problems.



Save

- Move images to folder named for the batch that you are working on
- Move that to its final destination (in this case, the "presentation" folder)
- Do a backup to another medium (using a utility like grsync)
- You now have two copies of your work and a clean workspace



DigiKam Batch Processing (1)

- Note: NEVER work on original files; always work on copies unless you like working without a net
- Auto-correct colors that have changed with time
- Add metadata values (requires the creation of a template, which is easy)
- Demo using digiKam



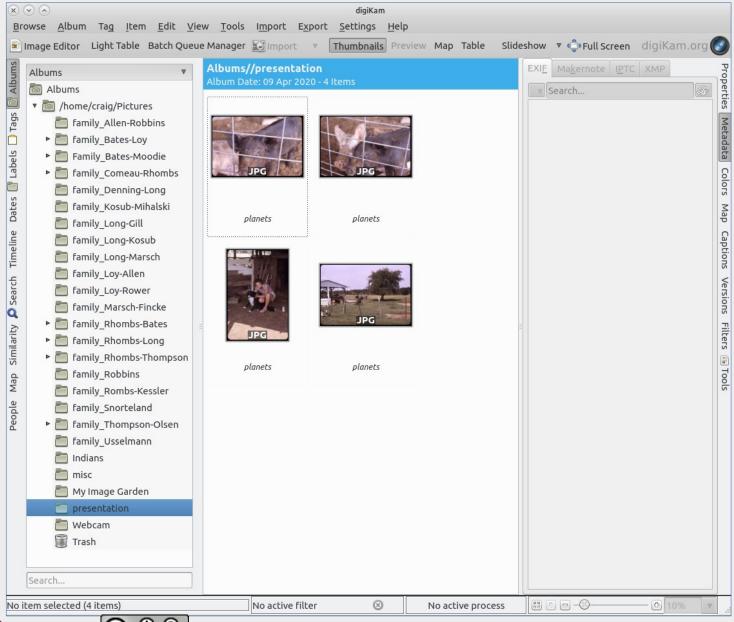
DigiKam Batch Processing (2)

- Navigate to a folder of images
- Select the ones that you want to modify
- Define a workflow (and save it): e.g., auto color correction, add metadata, over-write the original image(?), etc.
- Execute the batch processing on the selected group.
- Repeat for every folder or select images in multiple folders at one time until done.
- Backup (again!)

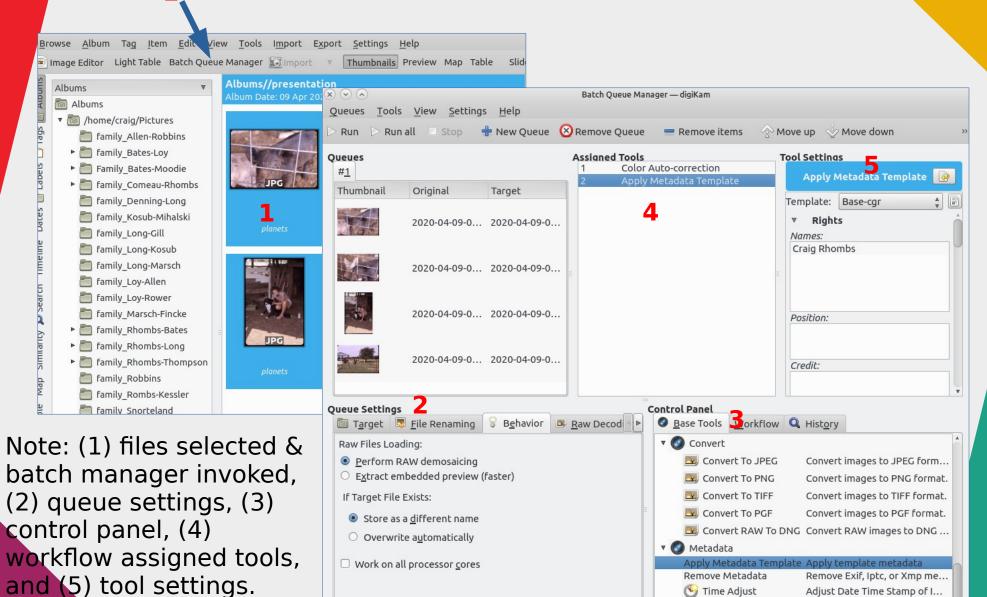
05/15/20



Navigate to images



Batch Workflow



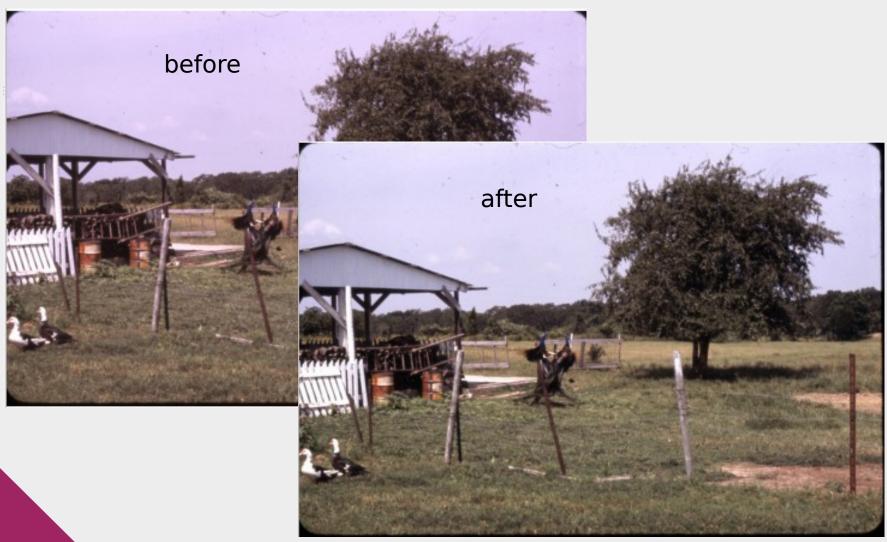
▼ Custom Tools

Current Queue: 4 items / 8 tasks - Total: 4 items / 8 tasks

Ready

Execute and Check Results

Click "run" and inspect the results.





Repeat

- Backup results
- Repeat until you are done



Saving the Originals

- UMN suggestions: https://sites.google.com/a/umn.edu/preservat ion-resources/saving-your-personal-treasures/ preservation-survey-results
- Photo boxes, polypropylene sleeves, etc.
- Digital media need periodic attention to deal with physical aging and technological obsolescence
- Consult with a library archivist
- Don't save everything (ouch!)
 - Who gets all this when you are gone?



05/15/20

Sharing the Results

Using Google Photos (approach/avoidance)



- Be mindful of privacy when sharing
- Log on and open "photos" in browser
- Optionally configure "photos" for free storage
- Create a shared album, name it, select processed photos, drag & drop them into the album
- Modify sharing options as appropriate; get link to album & save it
- Share link, not the photos themselves

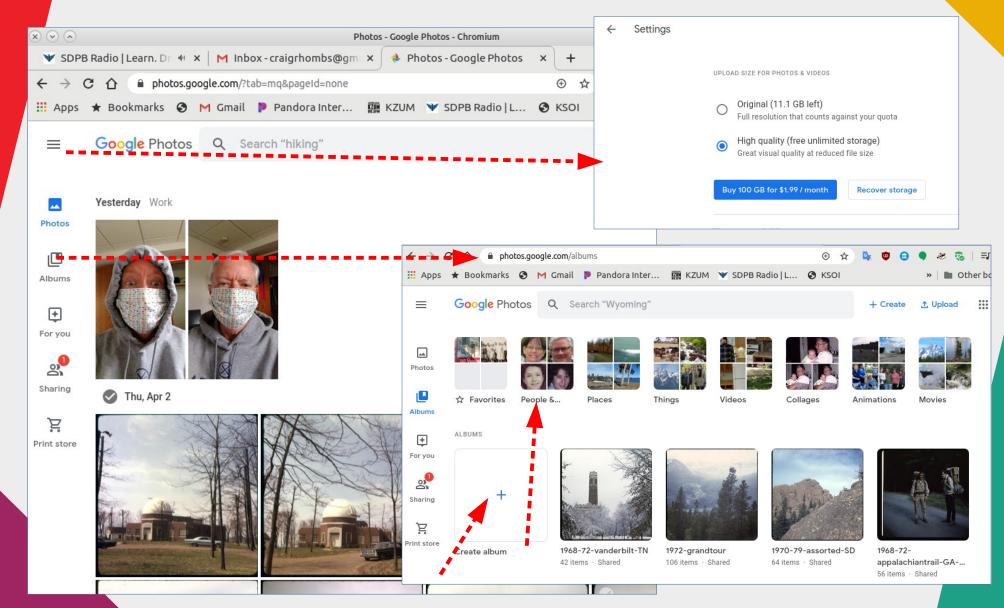


Facial Recognition

- "Googs" is going to do this automatically!
- Your job is to add names and correct the results.
- You can define an album dedicated to pictures of a person if you want
- Share link(s) as appropriate



On-line Google Photos Demo



05/15/20





