DIGITAL IMAGING: DIL & DIY

An Introduction to Digital Imaging, the Digital Imaging Laboratory and Do It Yourself Approaches.



NATHAN JONES

Archivist; Manager Digital Imaging Laboratory

808, Central Library, 419 21st Ave S, Nashville, TN 37203

615-936-1417

nathan.m.jones@Vanderbilt.edu



Photo credit: Jean and Alexander Heard Library



DIGITAL IMAGING

Standards, Calibration, Items



STANDARDS

• Federal Agencies Digital Guidelines Initiative (FADGI)



FADGI

- Technical Guidelines for Digitizing Cultural Heritage Materials
- 2007 to Present
- 1 to 4 Star Rating System
- Resolution, Clarity, Color Reproduction (QA/QC)
 - DPI, Sharpness, Color and Image Reproduction Targets
- File Formats
 - RAW, TIFF



CALIBRATION

- Proper Calibration Essential to Image Quality
- Color Checker Passport
- Golden Thread Calibration Target
- Delt.ae
 - Open Source
 - · Web Based



ITEMS

- Bound Volumes
- Documents
- Maps, Broadsides, Ephemera
- Newspapers, Magazines, Journals
- Photographs
- Scrapbooks



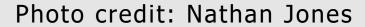
DIGITAL IMAGING LABORATORY

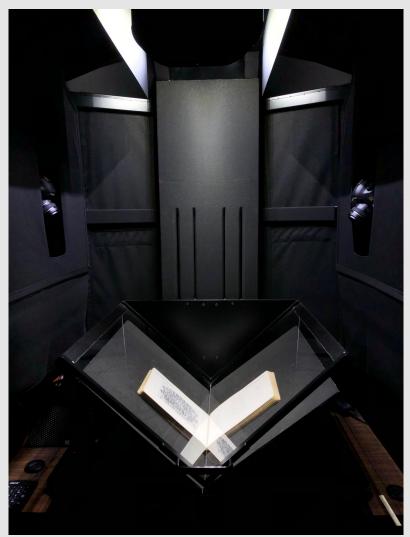
Equipment & Concerns



ATIZ BOOKDRIVE MARK II









BOOKEYE 4 OPUS



Video credit: Nathan Jones



EPSON EXPRESSION 10000XL







EPSON EXPRESSION PERFECTION V800



Photo credit: Nathan Jones



SCANNING VS CAPTURE

- Type of Item Dictates Type of Equipment
- Precision
- Speed
- Megapixels to DPI Concerns



DIY SOLUTIONS

Hardware & Software



SCANNER BIN

• Overview

• Setup



SCANBOT

Scanbot

- iOS and Andorid
- Monthly Fee
- Built-in image editing
- Built-in OCR

Demo Scanbot With Scanner Bin



POINTERS

- Ensure proper focal length, so that the image is full frame and not blurry.
- If possible, place image on a flat, solid colored, contrasting surface.
- It is not advised to use flash on glossy paper. Using flash on glossy paper will cause a glare.
- If not using Scanner Bin, ensure that light is even and does not cast shadows on the item.
- If not using a support or tripod, hold camera as steady as possible to avoid blurring the image.



BATCH PROCESSING

- <u>Imagemagick</u>
- MagickStudio



REFERENCES

- http://www.digitizationguidelines.gov
- https://xritephoto.com/colorchecker-passport-photo
- http://www.imagescienceassociates.com
- https://deltae.picturae.com
- https://www.atiz.com
- https://www.imageaccess.com/book-scanners
- https://epson.com/scanners
- http://scannerbin.com

- https://scanbot.io/en/index.html
- https://imagemagick.org
- https://warrior.imagemagick.org/MagickStudio/scripts/MagickSt udio.cgi



DEMONSTRATION



QUESTIONS ?



THANK YOU!

