



A POSITIVE APPROACH TO DIGITIZING NEGATIVES (AND OTHER TRANSMISSIVE FILM FORMATS)

presented by

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WHAT WE WILL COVER

- Transmissive formats
- Negatives vs. prints choosing one over the other
- Prepping transmissive materials for digitization
- Equipment
- Making processing decisions





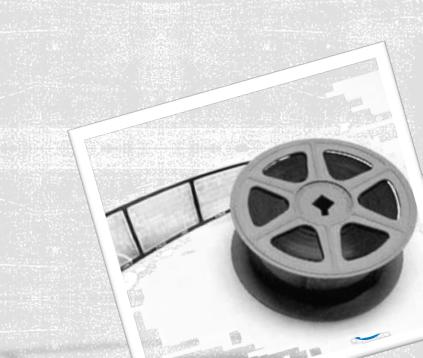






TRANSMISSIVE MATERIAL FORMATS

- Roll film
- Sheet film
- Slides
- Nitrate negatives
- Glass plate negatives
- Lantern slides
- Aerial film
- Microfilm
- Microfiche
- Motion picture film



Audience Participation

WHAT DO YOU HAVE IN YOUR COLLECTIONS?

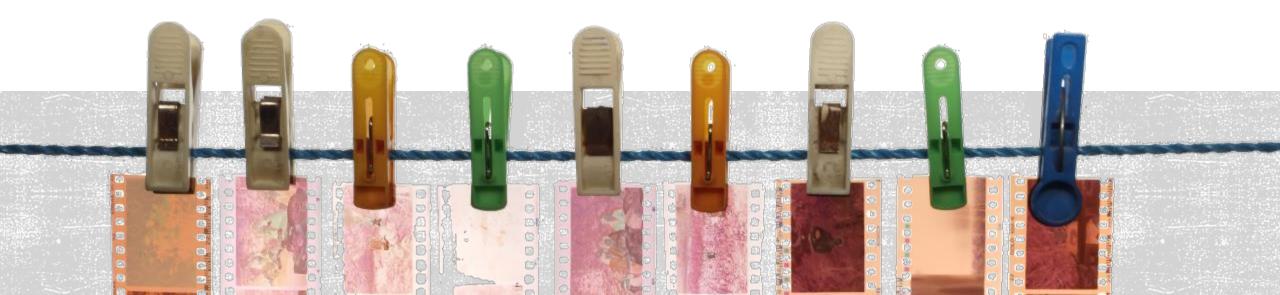
Please use the poll window!

- Roll film
- Sheet film
- Slides
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- Aerial film
- Microfilm
- Microfiche
- Motion picture film



THE POSITIVES AND NEGATIVES OF DIGITIZING TRANSMISSIVE MATERIALS

If you have prints and negatives in your collections, which should you use for digitizing?



Audience Participation

WHICH ONE DO YOU THINK TURNED OUT BETTER?

Please use the poll window!

Left image ▼



Berkeley Folk Music Festival Archive, Charles Deering McCormick Library of Special Collections, Northwestern University Libraries. A project supported by the National Endowment for the Humanities

Right image 🔻



NEGATIVE VS. PRINT

Negative ▼



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Print 🔻



BENEFITS OF DIGITIZING FROM NEGATIVES



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Greater detail and options for enlargement

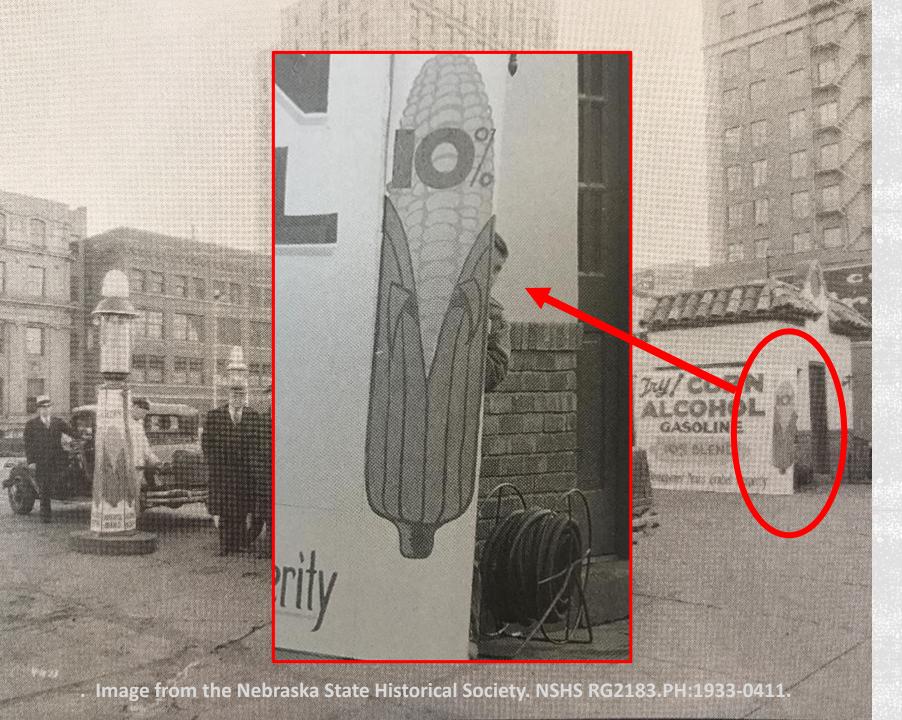
Image courtesy of Randall Sell, who is a good sport.

NO ISSUES WITH COLOR LOSS

Negatives help avoid issues with color degradation common in color photographs printed between the 1970s and 1990s



SEE GREATER DETAIL



SEE GREATER DETAIL



SEE WHAT ISN'T THERE



SEE WHAT ISN'T THERE



PRINTS VS. NEGATIVES AND THE BENEFITS OF PRINTS



BENEFITS OF DIGITIZING FROM PRINTS

Original Negative V



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Print created by photographer – captures the exact artistic intent



DAMAGED NEGATIVES



DIGITIZED IMAGE



Boys place wreath at Marquis de Lafayette statue in Union Square Park, New York City. Circa 1934. The Boys' Club of New York Records, MS 3000, The New-York Historical Society.





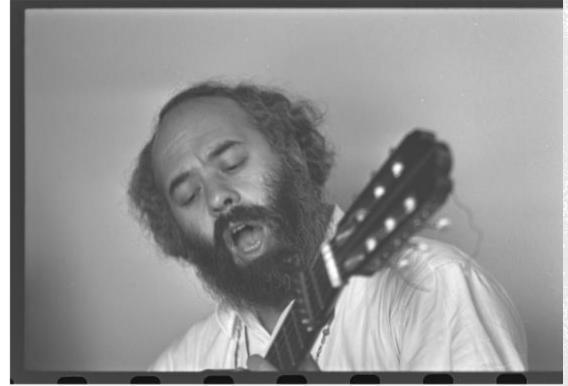
COMMON ISSUES WITH NEGATIVES THAT IMPACT THE REFORMATTING PROCESS

- Dust Build-up
- Fogging
- Scuff marks or scratches
- Kinked or buckled film
- Over-processing due to chemical residue
- Acetate or nitrate film
- Slide mount degradation



A CASE FOR DUST REMOVAL





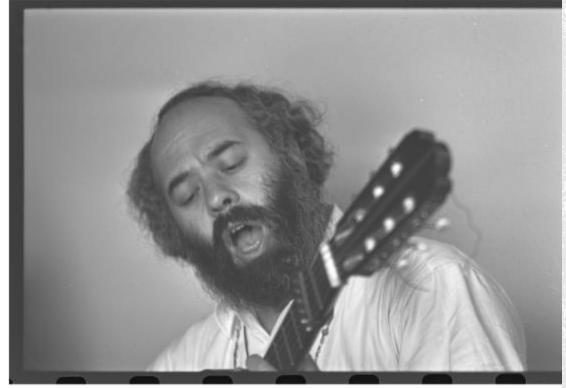
Scan from negative showing dust and fibers.

Scan from same negative, after dusting with ionized compressed air.



A CASE FOR DUST REMOVAL





Scan from negative showing dust and fibers.

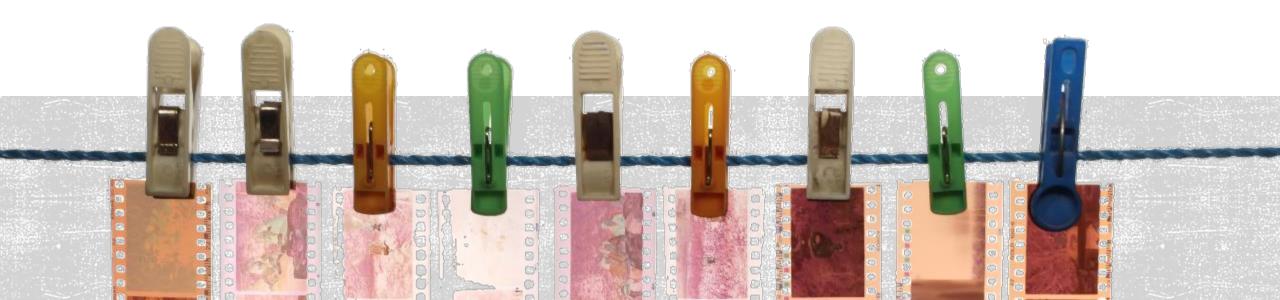
Scan from same negative, after dusting with ionized compressed air.



Audience Participation



Please use the chat window!



O EQUIPMENT OPTIONS





EQUIPMENT

- Phase One IQ180 camera
- 72mm lens
- 120mm macro lens with extensions tubes
- Film stage
- Light box
- Magnification range from 300 PPI to 5000 PPI



Advanced Carriers:
Detented Movement for Maximum Throughput



Basic Carriers: 35mm Strip Film, 120mm Strip Film, 4x5 Sheet Film

EQUIPMENT

Film stage compatible with all film types and sizes as well as 3rd party holders for large format and glass plate negatives.







PRESERVATION COPY VS. ARTIST'S INTENT

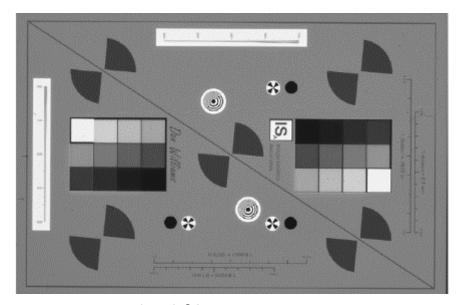
Negative V



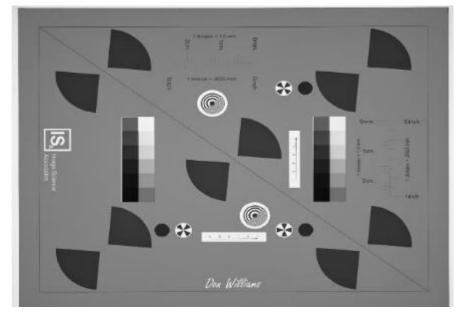
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Print V





35mm standard film target



4x5 standard target

TARGETS

These standard film targets are used with the Image Science Associates DICE software to validate:

- Tonescale
- Sampling frequency
- White balance
- Resolution



IT8 target_ektachrome

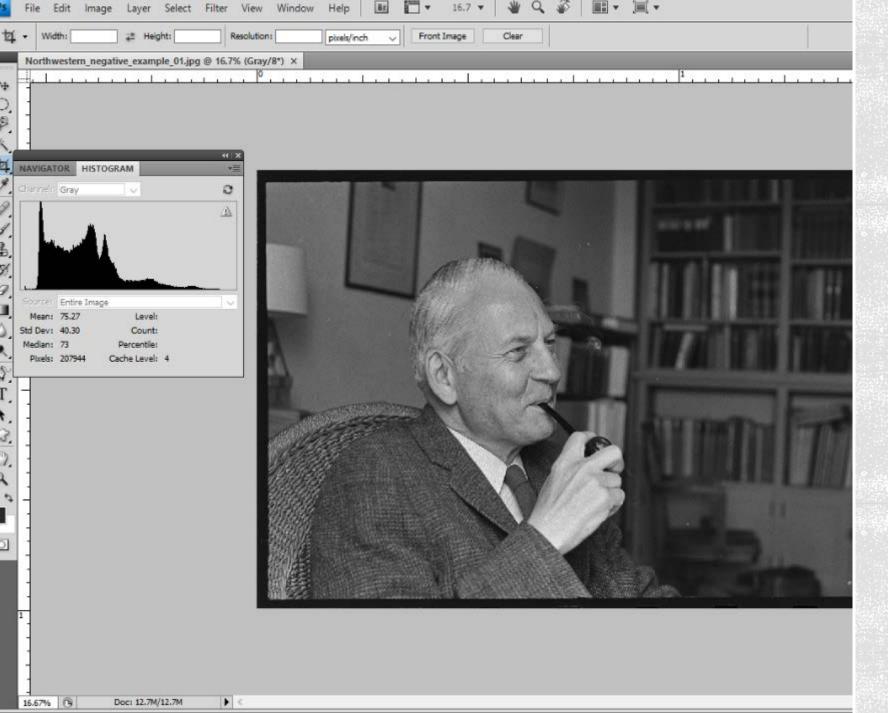


IT8 target_kodachrome

TARGETS

These targets are used to profile color values for slides





CAPTURING ALL OF THE DATA IN THE NEGATIVE

- Intention is to capture the archival copy of a negative, which includes all of the highlights and shadows of the image.
- This image shows the histogram with no clipping.
- This would be considered the archival copy.

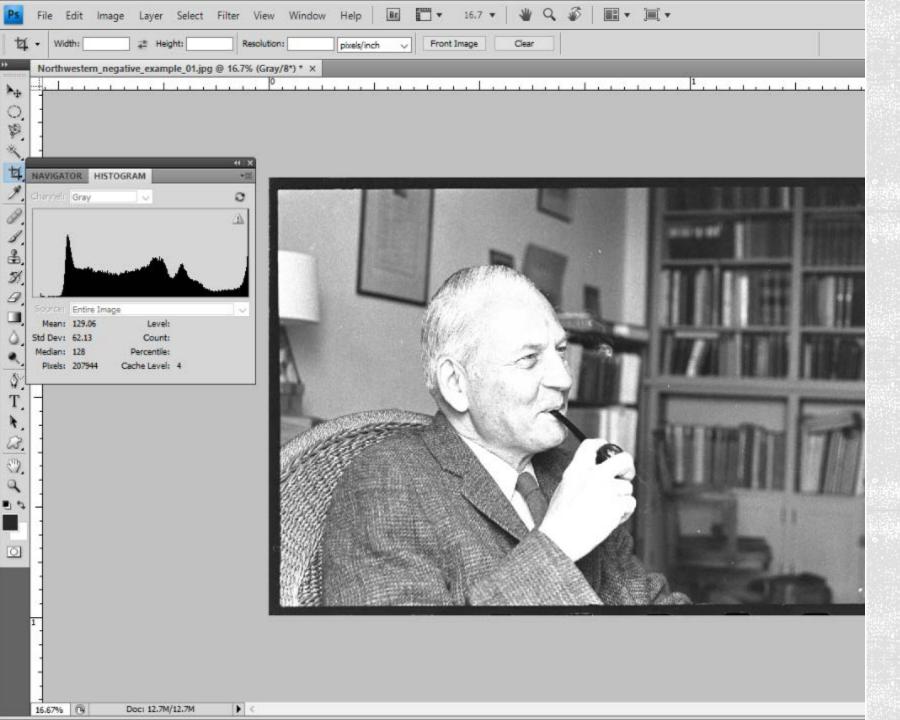
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CAPTURING ALL OF THE DATA IN THE NEGATIVE

- Intention is to capture the archival copy of a negative, which includes all of the highlights and shadows of the image.
- This image shows the black scale of the histogram being clipped.

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CAPTURING ALL OF THE DATA IN THE NEGATIVE

- Intention is to capture the archival copy of a negative, which includes all of the highlights and shadows of the image.
- This image shows the light colors of the image being clipped or "blown out."

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Audience Participation



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THANK YOU FOR JOINING US TODAY!

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For further inquiries, please contact us:

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