

Photo Restoration

Easy as 1, 2, 3

SCUG Presentation
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Presentation posted at
www.scug.org *(Program Notes)*

Photo Restoration

- Digital photo restoration uses digital image editing techniques to remove visible damage and aging effects from photographs.
- Software such as Digital Image Pro, Paint Shop Pro, Adobe Photoshop or The GIMP is typically used.

Photo Restoration

- What do you need?
 - Computer
 - Scanner/Camera
 - Photo Editing Software
 - Time and Patience

Easy as 1, 2, 3

- 1. Preserve
 - Scan & Save
- 2. Enhance
 - Colorize (Gray scale)
 - Adjust Contrast & Brightness
- 3. Repair
 - Clone
 - Blend

1. Preserve

- Original prints will continue to deteriorate over time. Also, they are at risk to disasters such as floods or fire.
 - **Scan & save** old photos so they can be passed down through generations.
 - When saved to your computer they become Digital Images that will last forever.
 - **Digital images** do not deteriorate with time
 - they can be reprinted at any time
 - they can be shared with multiple individuals
 - they can be burned to CD's or DVD's

2. Enhance

- Original prints fade and discolor with age. Once scanned, software can be used to correct deteriorations caused by aging.
 - ***Colorize***
 - Yellowed Black & White or faded Color photos can be easily enhanced by converting them to Gray Scale.
 - ***Contrast & Brightness***
 - Adjusting the contrast & brightness will bring new life to aging photos.

Enhance (Colorize)



Enhance (Contrast & Brightness)



3. Repair

- Original prints could be torn, have scratches or blemishes. Once scanned, software can be used to repair damage.
 - ***Clone***
 - Cloning can repair a scratch or tear by painting a good selection over a damaged selection.
 - ***Blend***
 - Blending tries to cover up a damaged section by blending it with another area.

Repair (Clone & Blend)



- Here is an example of a restoration we did at a recent Graphics SIG.
- The picture was torn & taped together, also note the damage in the corners.

Photo Restoration

Easy as 1, 2, 3

- *1. Preserve*
- *2. Enhance*
- *3. Repair*

Credits

- Slide Show
 - Openoffice.org 3.0 Impress
 - <http://www.openoffice.org>
- Photo Editing Software
 - GIMP (GNU Image Manipulation Program)
 - <http://www.gimp.org>