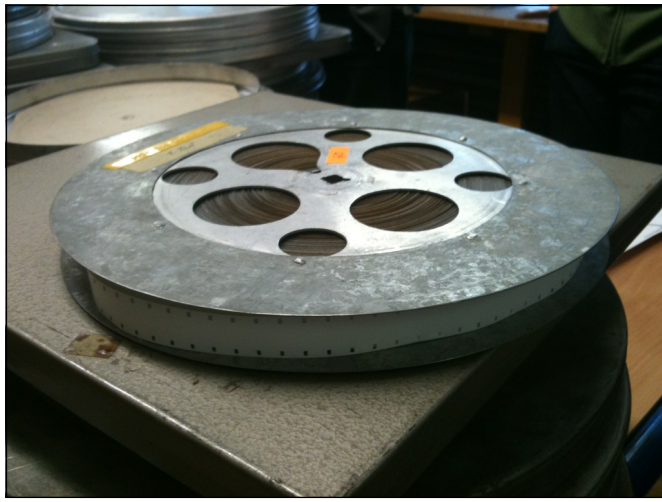




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The Preservation of Home Movies. A Report from the Field

Digital Film Restoration within Archives

Krems, 21–23 September 2011
Reto Kromer • reto.ch Ltd

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Archive's Activity

- acquisition
- cataloguing
- preservation (conservation and restoration)
- access

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Table of Contents

- An ounce of ethics
- The digital tsunami
- Analogue photochemical and digital methods
- The «plastic looking» and «sharp immobile» future

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An Ounce of Ethics

- the probability a masterpiece or a document is available in its integrity in the future is increased
- all the existing possibilities before taking an action remain open after the action
- every step is carefully documented

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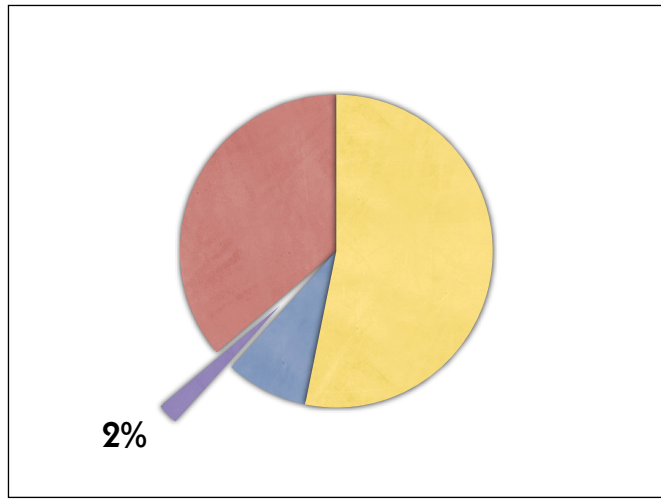


7

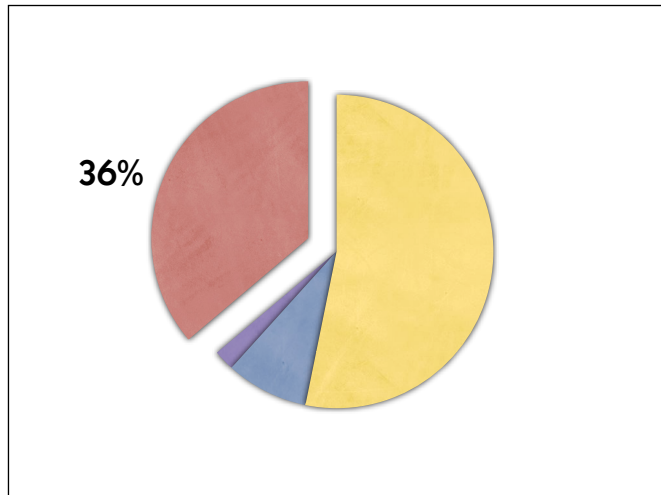
Tera, Peta, Exa... and Beyond

- Access
- Conservation
- Digital born
- Restoration
- Catalogue

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Challenges

- Training
- Management
- Workflow
- Best practices
- Guidelines

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Current Small Gauge Formats

- 9.5 mm («Pathé Baby»)
- 16 mm
- various 8 mm flavors
- Super 8

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Image

- negative-positive
- reversible
- b/w
- colour
- Kodachrome
- lenticular («Kodacolor», «Agfacolor»)
- Dufaycolor

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Sound

- music cassette
- commag
- sepmag
- comopt
- mono
- stereo

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Typical Issues

- flicker
- sharpness
- stability
- splices
- overexposed, underexposed
- projection speed
- scratches

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Fix priorities

- restoration
- digitalisation for access
- conservation
- «special» conservation
- elimination

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9.5 mm Workflows

- analogue reduction onto Super 8
- analogue blow-up onto 16 mm
- analogue blow-up onto 35 mm
- digital blow-up onto 16 mm
- digital blow-up onto 35 mm
- SD digitalisation
- HD digitalisation
- 2K digitalisation

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16 mm Workflows

- analogue reduction onto Super 8
- analogue copy onto 16 mm
- analogue blow-up onto 35 mm
- digital copy onto 16 mm
- digital blow-up onto 35 mm
- SD digitalisation
- HD digitalisation
- 2K digitalisation

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8 mm Workflows

- analogue blow-up onto Super 8
- analogue blow-up onto 16 mm
- analogue blow-up onto 35 mm
- digital blow-up onto 16 mm
- digital blow-up onto 35 mm
- SD digitalisation
- HD digitalisation
- 2K digitalisation

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Super 8 Workflows

- analogue copy onto Super 8
- analogue blow-up onto 16 mm
- analogue blow-up onto 35 mm
- digital blow-up onto 16 mm
- digital blow-up onto 35 mm
- SD digitalisation
- HD digitalisation
- 2K digitalisation

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Be Effective!

Only one cost efficient solution exists:

- keep the «originals»
- more preventive actions on «originals»:
 - improve insulation
 - improve air conditioning
 - improve containers/packaging
- less handling of the «originals»

And lot of easy available digital access copies!

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