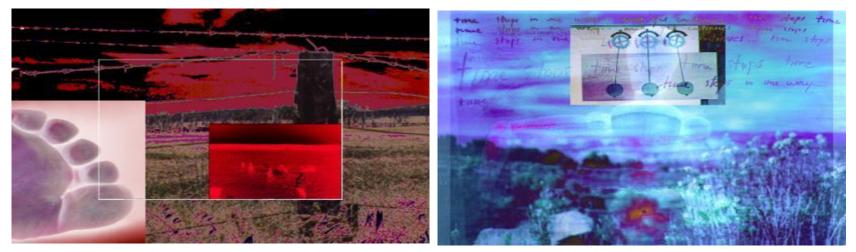
### Preserving and Emulating Digital Art Objects



Dianne Dietrich, Digital Scholarship Fellow, Cornell University Library Madeleine Casad, Curator for Digital Scholarship, Cornell University Library Jason Kovari, Head of Metadata Services and Web Archivist, Cornell University Library







#### Preservation and Access Framework for Digital Art Objects

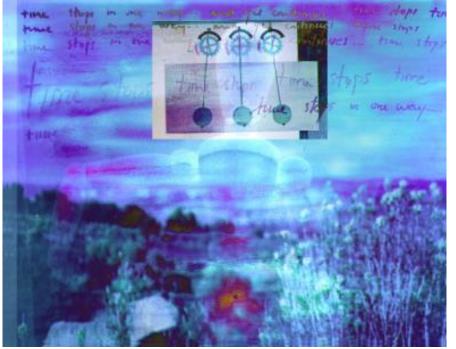
Test bed: 100 born-digital artworks created for CD-ROM, dating back to the early 1990s.







#### Cultural Heritage at Risk: Preservation challenges



- Media fragility
  - Complex technical composition
- Interrelated dependencies
  - Third-party apps and plugins
  - Obsolete Hardware
  - Operating Systems
- Original documentation possibly missing or incorrect
- Lack of established best practices for archival preservation





## User Community & Access

"I am worried about context and artistic intent – how do we retain authenticity in the long term?"

"Access to past works are incredibly valuable to me – understanding works not just for their message but also for their technical [aspects that] help new media artist[s] evolve [this] area of practice."



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# Disk Imaging & Visual Documentation

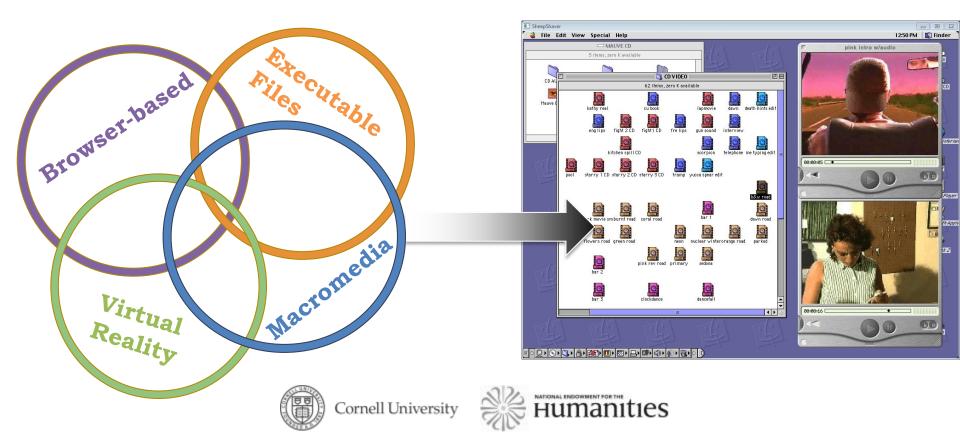
Linux device : /dev/sr0 Device size : 671913984 (671.9MB) Format : Linux split dd raw image - file extension Image path and file name: /media/sdb1/datadrive/emulation/mac_system Info path and file name: /media/sdb1/datadrive/emulation/mac_system Hash calculation : MD5, SHA-1 and SHA-256 Source verification : on Image verification : on No bad sectors encountered during acquisition. No bad sectors encountered during verification. Successfully
MD5 hash verified source SHA1 hash verified source SHA256 hash verified source: SHA256 hash verified source: SHA2
Acquisition started : 2013-12-03 12:21:17 (ISO format YYYY-MM-DD HH: Verification started: 2013-12-03 12:23:45 Ended : 2013-12-03 12:26:13 (O hours, 4 minutes and 56 Acquisition speed : 4.33 MByte/s (O hours, 2 minutes and 28 second Verification speed : 4.36 MByte/s (O hours, 2 minutes and 27 second

- Sector-by-sector copy of disc; retain structure and contents
- Separate data from fragile media
- Provide evidence we have made a trustworthy copy





## Analysis & Access



## Metadata

- Descriptive Metadata MARCXML
- Technical Metadata DFXML
- Preservation Metadata PREMIS
- Emulation Documentation Narrative
- Sector Notes Documentation Narrative
- Artwork Visual Documentation VRA Core
- Classifications Narrative



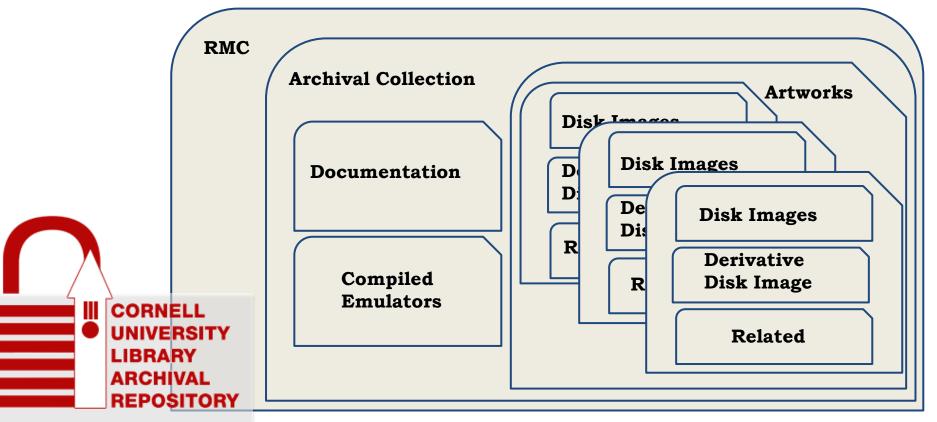
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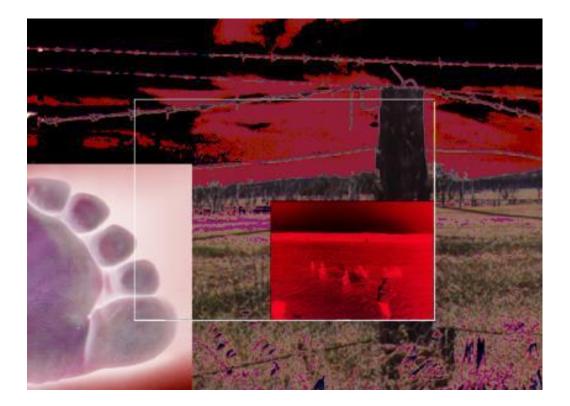


qpagesm.JPG ome projectCURRENTw atticfloor1.JPG atticfloor2.JPG atticslats1.JPG attick odend.jpg atticwood.jpg attic.wrl Copy of attic.wrl familv1.ipg Kissell1.GIF linked media familvphoto familyintro.html kissel

## Ingest

#### (into Cornell University Library Archival Repository)





#### Questions?





















#### And thank you to the PAFDAO team and advisory board Grant PIs: Oya Rieger, Timothy Murray







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## Image credits (in order of appearance)

- Norie Neumark; Shock in the Ear (screenshot from Contact Zones webpage: <u>https://contactzones.cit.cornell.edu/artists/neumark.html/</u>)
- Physical CD David Thomas; The Encoded Eye, The Archive, and its Engine House
- Mauve Desert. Adriene Jenik; Mauve Desert: a fiction in translation for CD-ROM. Screen captures, Dianne Dietrich.
- The Home Project. Annette Barbier, Drew Browning. Directory listing screen capture, Dianne Dietrich.
- CULAR Logo Courtesy of Michelle Paolillo



