

Jumping Into Born Digital:

Working with the born digital materials of the Science Education

Curriculum Collection

Krystal Thomas and Timothy Kanke Friday, May 9, 2014



Why?

- SAA Jump In Initiative held in 2013 was the catalyst
- These materials are ticking time bombs for data loss
- Involvement of the donor through an addition to the collection
- Interesting materials and problems not your usual straight forward born digital files

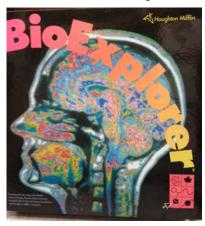


Science Education Curriculum Collection

- Documents the creation and development of science teaching materials produced by FSU's science education program from the 1960s until 2005.
- The Interactive Media Science (IMS) projects were specifically the focus of our survey









Questions to Start With...

- What do we actually have?
 - Physically and Digitally
- Can we access these materials?
- How do we access these materials?
- How are the physical items stored?



Conducting the Survey









The Numbers

- Est. maximum of 4380.3 GB (or 4.3 TB) of information (on external media)
- 1750 items spread over six boxes including 3.5" floppy disks, CDs, micro cassettes, DAT, DVC, VHS, DVDs, EX drives, Jaz disks, laser disks, 8mm magnetic tape
- Apple IIGS and Macintosh G3 systems along with external hard drives are not included in TB estimate



New Questions

- What are we preserving?
 - Pedagogy
 - Historical computer code
 - Gaming experience
- How do we access the digital items?



Preservation

- Minimal processing
- Transfer to modern data storage

Access

- Computer museum
- Emulation
- Migration / Porting



Challenges

Commitment of resources

Preserving outmoded cutting edge

technology









Possible Data Transfer Solutions

Using original equipment

or

Specialized controller (e.g. Kryoflux)



Possible Access Solution

Combined Approach:

Emulation for games

Migration for images and documentation



Next Steps

Procure resources for data transfer

Organize the collection for future retrieval

Explore avenues for emulation



Thank You

Krystal Thomas

kmthomas@fsu.edu

Tim Kanke

tjk11b@my.fsu.edu