

Radical Collaboration between Computer Science and Archival Science to Educate Next Generation Archivists

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OS Software in Archival Education

- Rapidly changing technology has a significant impact on archival workflow and archival education.
- Open source software designed for archival purposes frequently used in graduate archival classrooms
 - BitCurator born-digital archives
 - ArchivesSpace archival description
- AS components / CS components

BitCurator – AS

- Reducing the risk of inadvertent changes
- Creating authentic copies of digital content
- Reflecting original order of materials
- Establishing trustworthy chains of custody
- Discovering and exposing associated contextual information
- Identifying and documenting duplicate files
- Identifying/redacting sensitive information

BitCurator – CS

- Computer hardware environments
 - Information processing speed, binary processing capacity, RAM, storage space
- Virtual machine
 - Operating systems, emulation technology
- Computer boot process
 - Normal booting, bootable USB
- Computer file directory systems

ArchivesSpace – AS

- Principles of provenance and original order
- Hierarchical / multi-level description
 - Data entry interfaces
 - Collection, series, file, item levels
- ISAD (G) General Rules
 - From general to specific
 - Relevant to the level of description
 - Linked to its immediate higher level
 - Not repeated at lower levels to avoid redundancy

ArchivesSpace - CS

- Archivists' Toolkit to ArchivesSpace
- Database driven web technology
- AchivesSpace software + database
- Use MySQL for any data intended for production, including data in a test instance that you intend to move over to a production instance
- MySQL Community Edition

A freely downloadable version of the world's most popular open source database

Radical Collaboration

- Radical collaboration between computer science and archival science needed to educate next generation archivists
- Archival graduate students
 - Mostly with humanities and social sciences background
- Knowledge of backend computational infrastructure and frontend archival meaning needed for future archival career