Digital Forensics Paper and Project Assignment

Author

Jane Zhang

Description

This is a paper and project assignment that asks students to review literature on digital forensics' applications in digital archives, and gain hands-on experience using digital forensics tools to acquire and manage born-digital archival materials.

Learning object type

Lesson plan/materials

Learning objectives

This learning object might be used in a lesson to satisfy the following learning objectives:

- Articulate the relationship between actions taken during acquisition and processing of born-digital materials and their long-term preservation and access.
- Practice using tools in the BitCurator Environment.

Assignment

LSC 761 Electronic Records and Digital Archives
Spring 2019

Digital Forensics Paper and Project (30%)

Digital forensics paper due Tuesday, April 23, 2019 before class
Paper presentation and tool demo due Tuesday, April 30, 2019 in class

Task:

Review literature and tools of digital forensics' applications in digital archives, and gain hands-on experience on using digital forensics tool to achieve acquisition and management of born-digital archival materials

Description

- Select at least five articles that introduce theory and practice of digital forensics to the digital archival community

- Select two to three digital forensic tools designed to help archivists to process born-digital archival materials

- Use the BitCurator quick start guide to download the software and complete the following two essential tools (http://distro.ibiblio.org/bitcurator/docs/BitCurator-Quickstart-v2.pdf):

  - Use the Imaging and Recovery tools to create raw and forensically-packaged disk images from physical media
  - Use the Forensics and Reporting tools to process the file system and generate reports

- Review your selected articles and tools and write an 8-page paper on "digital forensics and its applications in digital archives." Your paper should discuss key purposes and functions of digital forensics and explain how and they will help archivists achieve long-term preservation of digital archival materials.

- Participate in the class panel presentation on "digital forensics and its application in digital archives" (each student 10 minutes on a prior-assigned topic). Participate in a team-based BitCurator software user experience sharing (10 minutes) and reporting (5 minutes).

Submission

- Include your name, course number, assignment title, and submission date on top of the first page of your paper
- Submit your paper via the course site (Assignments -> Digital Forensics Project)

BitCuratorEdu Learning Object
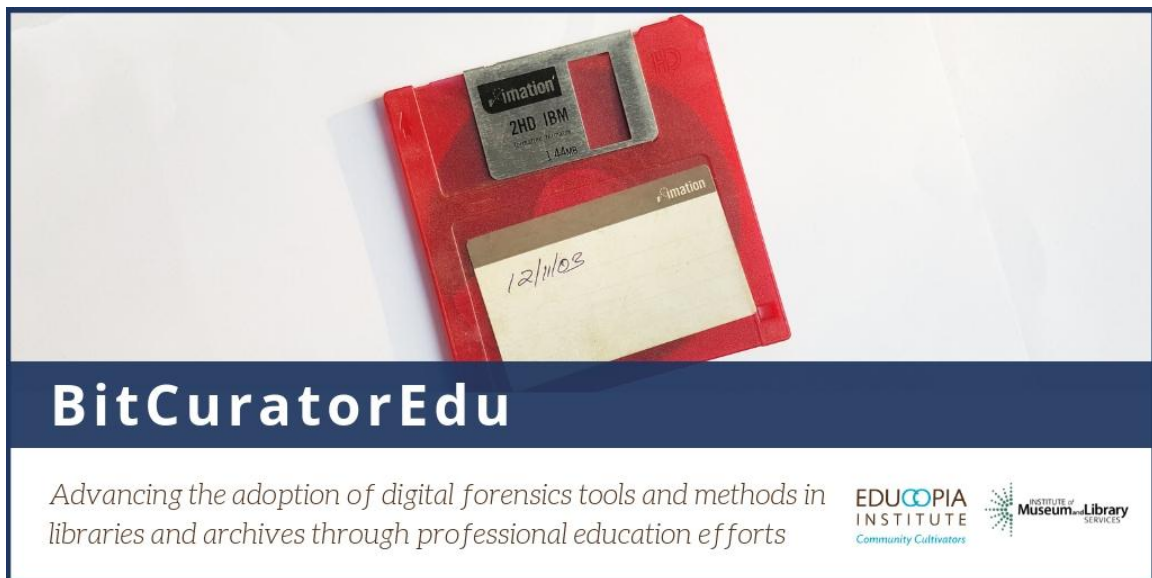
This resource was released by the BitCuratorEdu project and is licensed under a <u>Creative Commons Attribution 4.0 International License</u>.

Most resources from the BitCuratorEdu project are intentionally left with basic formatting and without project branding. We encourage educators, practitioners, and students to adapt these materials as much as needed and share them widely.

The <u>BitCuratorEdu project</u> is a three-year effort funded by the <u>Institute of Museum and Library Services (IMLS)</u> to study and advance the adoption of digital forensics tools and methods in libraries and archives through professional education efforts. This project is a partnership between <u>Educopia Institute</u> and the <u>School of Information and Library Science at the University of North Carolina at Chapel Hill</u>, along with the <u>Council of State Archivists (CoSA)</u> and several Masters-level programs in library and information science.