HANDLING COMPLEX MEDIA

HOME   ABOUT   2020 SYLLABUS   ASSIGNMENTS   PRESERVATION PLAN

01

Introduction to Handling Complex Media

January 28, Tue 5:30pm – 9:30pm

721 Broadway, Room 652

Topics

Introductions, syllabus review, course format and goals

Creating a Preservation Plan

Video and discussion: Preservation Plan for the The Furbee Organ

Optional Readings

Oleksik: Janet Cardiff and George Bures Miller's The Killing Machine

Lab

Analyze Complex Media Object & create Preservation Plan

Present Preservation Plan for Complex Media Object

02

Virtualization

February 4, Tue 5:30pm – 9:30pm

721 Broadway, Room 652

Topics

Introduction to Virtualization and Emulation

How Computers Work: Hardware

Readings

Rothenberg: The Emulation Solution. Avoiding Technological Quicksand (1998) *[SECTION 7 & 8 ONLY]*

McKeehan, Dietrich, Kim, Rhonemus How to Party Like it's 1999: Emulation for Everyone

Tour the Virtual Desktop (online emulator)

Recommended

Johnson: Considering Emulation for Digital Preservation (2014)

Rothenberg: The Emulation Solution. Avoiding Technological Quicksand (1998) [FULL DOCUMENT]

Granger: Emulation as a Digital Preservation Strategy (2000)

Rosenthal: Emulation & Virtualization as Preservation Strategies (2015)

Reference

Krzyzanowski: Rutgers Department of Computer Science History of Operating Systems

Lab

Introduction to **VirtualBox**

Mount CD ROM ISO in VirtualBox // Windows 95

Download Oregon Trail ISO

Internet Archive CD-ROM Software Library

03

Microcontrollers

February 11, Tue 5:30pm – 9:30pm

721 Broadway, Room 652

Guest Lecturer: Sasha Arden, Institute of Fine Arts

Topics

Introduction to the Arduino Microcontroller

Microcontrollers for Conservation

Readings

Banzi: How Arduino is open-sourcing imagination

Lab

Introduction to the Raspberry Pi

Raspberry Pi with DHT11 Temperature/Humidity Sensor

Exercise files

DHT11 Wiring Diagram
Download, install, and run Adafruit's DHT11 sensor software

04

Troubleshooting Theory & Documentation

February 18, Tue 5:30pm – 9:30pm
721 Broadway, Room 652

Topics

Troubleshooting Theory, Systems Mapping & Documentation
Discuss Midterm Assignment

Readings

Dulaney, Certification Magazine: A guide to troubleshooting theory from a CompTIA A+ perspective|
Acaroglu: Tools for Systems Thinkers: Systems Mapping
Markdown Guide: What's Markdown?

Recommended

Jonnasen & Hung: Learning to Troubleshoot

Lab

Using Markdown for Documentation
   Wordpress: Markdown quick reference cheat sheet
Open Lab Time for Assignment One

DUE: PROJECT PROPOSAL, FRIDAY, FEBRUARY 21ST

05

Digital Forensics: BitCurator & Disk Imaging

Guest Lecturer: Eddy Colloton, Project Conservator of Time-Based Media at the Hirshhorn Museum

Topics

Forensics: Basic concepts and usage for investigation and preservation
Forensic disk imaging for archiving and preservation
*NOTE: *Nicole is away for conference*

February 25, Tue 5 30pm
– 9:30pm
721 Broadway,Room 652

Readings

Digital Preservation Coalition: Digital Preservation Handbook – Digital Forensics

Lee, Woods & Garfinkel Extending Digital Repository Architectures to Support Disk Image Preservation and Access

Resources

Disk imaging resources from Eddy Colloton

Recommended

Rechert et al Characterization of CD ROMs for Emulation based Access

Valizada et al: Cloudy Emulation – Efficient and Scalable Emulation-based Services

Task Force on Technical Approaches for Email Archives Exploring Email Emulation

Cochrane: Designing a Universal Virtual Interactor (UVI) for digital objects

Lab

Explore the BitCurator Enviroment

Disk Imaging using Guymager software

Add CD ROM drive (physical) or ISO disk image (virtual) to VirtualBox

Access disk image data using BitCurator Disk Image Access (export files from disk image)

06

Emulation as a Service

March 3, Tue 5:30pm –
9 30pm
721 Broadway, Room 652

Guest Lecturer: Ethan Gates, Software Preservation Analyst at Yale Libraries

Topics

Class discussion: From Bitstreams to Heritage & the BitCurator Environment

Using emulation in archives and repositories

Computing environments and Virtual Box

Readings

Owens: Emulation as a Service (EaaS) at Yale University Library (2014)

Gates: Classroom Access to Interactive DVDs

Scott A Second Christmas Morning The Console Living Room

Resources

Gates emulation resources repository

Internet Archive: Tour the Console Living Room

RHIZOME: The Theresa Duncan CD-ROMs

Lab

Open Lab Time for Midterm Assignment

07

Floppy Disks & Kryoflux

March 10, Tue 5:30pm – 9:30pm

721 Broadway, Room 652

Guest Lecturer: Shira Peltzman, Digital Archivist at UCLA Library

Topics

Archiving and preserving data stored on floppy disks

Readings

Peltzman & Waugh The Archivist's Guide to KryoFlux An Unofficial Manual

The Archivist's Guide to KryoFlux (Read pages 1–6, review/skim remainder of the guide)

Recommended

Waugh: A Dogged Pursuit: Capturing Forensic Images of 3 5" Floppy Disks

Lab

Open Lab Time for Midterm Assignment

SPRING RECESS
March 16 - March 22

08

Midterm Presentations

March 24, Tue 5 30pm
9:30pm
721 Broadway, Room 652

Students give presentations for Assignment One

DUE: MIDTERM ASSIGNMENT, FRIDAY, MARCH 27TH

09

HCM in Museums I: The Complex Medium of Sound

March 31, Tue 5 30pm
9:30pm
721 Broadway, Room 652

Topics
Handling Complex Media in Museums
The Complex Medium of Sound

Readings
Pip Laurenson: Authenticity, Change and Loss in the Conservation of Time-based Media Installations
Oleksik: Rewind: A Brief History of Caring for Video Art in the United States

Recommended
Bishop: Evolving Exemplary Pluralism
Fino Radin The Nuts and Bolts of Handling Digital Art
Phillips: Implementing Time-based Media conservation in Museum Practice
Brost: A Documentation Framework for Sound in Time-based Media Installation Art

Gates: See what you hear: Audio Calibration for Video
Digitization
Roeck: Preservation of digital video artworks in a
museum context
van Saaze et al: Adaptive Institutional Change: Managing
Digital Works at the Museum of Modern Art

Lab

Open Lab Time for Final Assignment

10

Artist's Studio and Archive

April 7, Tue 5 30pm
9:30pm
721 Broadway, Room 652

**Guest Speaker: Jon Deringer, Electronic Arts
Intermix (EAI)**

Topics
The Artist's Studio and Archive

Readings
Lozano-Hemmer: Best Practices for Conservation of
Media Art from an Artist's Perspective or download the
audio-only version
Gallery emails - PDF
EAI: Artist Description: Bill Viola
Laurenson The Management of Display Equipment in
Time-based Media Installations

Recommended
EAI resource guide
Matters in Media Art website:
www.mattersinmediaart.org
Lozano Hemmer Level of Confidence

Lab

Open Lab Time for Final Assignment

11

HCM in Museums II & Discussion of Conservation Ethics

April 14, Tue 5:30pm – 9:30pm

721 Broadway, Room 652

Guest Speaker: Kate

Topics

Handling Complex Media in Museums

Conservation Ethics

Readings

AIC Code of Ethics and Guidelines for Practice

V&A Ethics Checklist

Richmond: The Ethics Checklist - 10 Years On

Ashley-Smith: A Role for Bespoke Codes of Ethics

SAA Core Values Statement and Code of Ethics

Recommended

Mellon Conservation Initiative

MoMA-Mellon Media Conservation Initiative

    The Acquisition Process - Getting Started

    The Acquisition Process - video

Lab

Open Lab Time for Final Assignment

12

Digital Film

April 21, Tue 5:30pm – 9:30pm

721 Broadway, Room 652

Topics

Digital Film

Readings

FADGI Digitizing Motion Picture Film Exploration of the Issues and Sample SOW

Digital Dilemma No.1 (Sections 5 & 6)

Digital Dilemma No.2 (Progress report, Section 5)

For Review

NETFLIX Specifications and Guides - especially Production/Post production

NETFLIX Technology Resources - especially IMF Tools

& Assisted QC Tools

Digital Cinema Initiatives Current Spec - look over the sections of DSM, DCDM and DCP

Academy Color Encoding System

Embedding Metadata in DPX Files FADGI Report

Lab

Open Lab Time for Final Assignment

13

Software Based Art

April 28, Tue 5:30pm – 9 30pm

721 Broadway, Room 652

Topics

Software-Based Art

Readings

Engel & Wharton: Source code documentation as a conservation strategy for software based art

Engel & Phillips (2019) - Applying conservation ethics to the examination and treatment of software- and computer-based art

> Part I
> Part II

Phillips, et al: Restoring Brandon, Shu Lea Cheang's Early Web Artwork

Recommended

Lialina & Lurk: Owning Online Art: Selling and Collecting Netbased Artworks

Scott The Hidden Shifting Lens of Browsers

Fino-Radin: Digital Preservation Practices and the Rhizome Artbase

Case studies

https://walkerart.org/magazine/net-art-conservation-piotr-szyhalski

https //www cooperhewitt org/2013/08/26/planetary collecting-and-preserving-code-as-a-living-object/

http://www.vam.ac.uk/shekou/how-we-collected-wechat/

Lab

Open Lab Time for Final Assignment

14

Last Class: Student Presentations

May 5, Tue 5:30pm – 9:30pm

721 Broadway, Room 652

DUE: FINAL PROJECT, FRIDAY, MAY 10TH

Handling Complex Media: CINE-GT 1805

Moving Image Archiving and Preservation

New York University