

# **RETHINKING APPROACHES TO TEACHING DIGITAL RECORDS**

Clayton State and Computational Archival Thinking

# CLAYTON STATE

Course	Student Pop	Focus
ARST 5150 Archives and The Web	Graduate	Archives
ARST 5300 Digital Preservation	Graduate	Archives
ARST 5100 Archives and Technology	Graduate	Archives

Instructor: Joshua Kitchens, CA

Primarily teaches digital preservations, archives and technology, Program Director



Demographics:

30 Students program wide  
2 Full-Time Faculty  
CSU Prodominately Black Serving institution

# CT INTEGRATION

Course	CT	AI	Assignment Ex	Collection
ARST 5110 Archives and The Web	<ul style="list-style-type: none"> <li>A2. Creating Data</li> <li>A4. Analyzing data</li> <li>C3. Choosing Effective Tools</li> </ul>	<ul style="list-style-type: none"> <li>Access,</li> <li>Preservation,</li> <li>Description</li> <li>Ethics</li> </ul>	<ul style="list-style-type: none"> <li>Final Project – Online Product</li> </ul>	<ul style="list-style-type: none"> <li>Densho – Camp Entry Data</li> </ul>
ARST 5300 Digital Preservation	<ul style="list-style-type: none"> <li>A2. Creating Data</li> <li>A4. Analyzing data</li> <li>B3 Assessing Computational Models</li> <li>C5 Defining Systems</li> <li>C3. Choosing Effective Tools</li> </ul>	<ul style="list-style-type: none"> <li>Preservation</li> <li>Access</li> </ul>	<ul style="list-style-type: none"> <li>Portfolio</li> <li>Weekly Activities</li> </ul>	<ul style="list-style-type: none"> <li>Densho – Camp Entry Data</li> </ul>
ARST 5100 – Archives and Technology	<ul style="list-style-type: none"> <li>A1 Collecting Data</li> <li>A2. Creating Data</li> <li>A4. Analyzing data</li> <li>B.1. Using Computational Models,</li> <li>B2 System relationship</li> <li>C5 Defining Systems</li> <li>C2. Programming</li> <li>C3. Choosing Effective tools</li> <li>D2. Relationships</li> <li>D2. Relationships</li> <li>D4. Communicating</li> <li>D5. Managing Complexity</li> </ul>	<ul style="list-style-type: none"> <li>Def of a Record</li> <li>Access</li> <li>Appraisal</li> <li>Preservation</li> <li>Provenance</li> <li>Acquisition</li> <li>Description</li> <li>Management</li> </ul>	<ul style="list-style-type: none"> <li>Json encoding</li> <li>Tool Analysis Portfolio</li> <li>Development Environment Setup and Use</li> </ul>	<ul style="list-style-type: none"> <li>Densho – Camp Entry Data</li> </ul>

# STUDENT RESPONSE

- ARST 5110
  - Excelled at Jupyter Notebook introductions’
  - Created projects that engaged computational ideas
- ARST 5100
  - Students are highly engaged with reviewing and understanding tool effectiveness
  - Creating a development environment was challenging
  - Jupyter Notebooks is coming in a few weeks (Fingers Crossed)
- ARST 5300
  - Engagement with different tools for digital preservation has been positive
  - Some student having trouble with various tool installs and usages

## Assignment

In this assignment, we will be exploring ways that we can work with archival data using computational thinking. This assignment contains two sections. **Section 1** is about learning how to work with the jupyter note book **Section 2** is doing some analysis of that notebook. You'll notice that this is a copy of the CASE notebook on the Japanese Internment Camps in take form. This is a modified version that we will be using for our assignment. Turn in the downloaded jupyter notebook to D2L. When you've completed your assignment download your notebook as a .inybp file.

### ▼ Section 1

+ Code + Text

### ▼ Exploring Data from WRA Form 26

We are going to learn how to use the features of a Jupyter Notebook further through analyzing a sample dataset. Later this term we will be working with a larger portion of the data. As a reminder, the data we are working with comes from a record created (Form 26) by the War Relocation Authority (WRA) at the beginning of the Japanese American internment. This are records of individual and family "evacuations" to internment camps. The file [WRAForm26.csv](#) was supplied by [Densho](#), and organization dedicated to "preserving, educating, and sharing the story of World War II-era incarceration of Japanese Americans".

Our first step in exploring this data is to load the file into a Pandas data frame.

```
[ ] #Loading files from google drive
    from google.colab import files
    uploaded = files.upload()
    import io
```

# TECH RELUCTANCY



# PROJECTS

- ARST 5100
  - Portfolio Project
  - Development Environment and Computer Journal
  - Data Analysis in Jupyter Notebook
- ARST 5110 Digital Project Focusing on Under Representative Groups
  - Twitter Analysis of Yiddish Language Speakers
  - Documenting Covid in Long Term Care Facilities



# LESSONS LEARNED

- Early exposure to CT thinking is key to student success
- Tech reluctance among students is an obstacle
- Rethinking Program Curriculum and Course Content
  - ARST 5100 Archives, Records and Tech -> Introduction to Digital Information and Records
  - ARST 5110 Archives and the Web -> Digital Humanities