

Data Integration and Quality w. OpenRefine

Richard MARCIANO

University of Maryland
AI-Collaboratory

Monday, June 14, 2021 – 1:00 to 2:30 p.m.
LEADING Bootcamp – Week 2

<https://ai-collaboratory.net/cas/>

contact@ai-collaboratory.net 

<http://ai-collaboratory.net>



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Advanced
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UNIVERSITY OF
MARYLAND



<https://openrefine.org/download.html>

OpenRefine 3.4.1

The latest stable release of OpenRefine 3.4.1, released on September 24, 2020.

Please backup your workspace directory before installing and report any problems that you encounter. A change log is provided on [the release page](#).

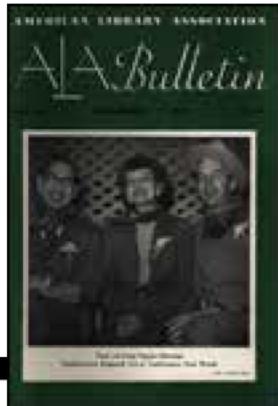
- **Windows kit**, This requires Java to be installed on your computer. Download, unzip, and double-click on `openrefine.exe` or `refine.bat` if the former does not work.
- **Windows kit with embedded Java**, includes OpenJDK Java, available under the GPLv2+CE license. Download, unzip, and double-click on `openrefine.exe` or `refine.bat` if the former does not work.
- **Mac kit**, Download, open, drag icon into the Applications folder and double click on it. You do not need to install Java separately.
- **Linux kit**, Download, extract, then type `./refine` to start. This requires Java to be installed on your computer.

Data Processing in the Library School Curriculum

Drexel Institute of Technology
University of Maryland
University of North Carolina

Methods Analysis	Data Processing in the Library	Info. Systems Analysis	Research Emphasis
X	X		
	X	X	X

Robert M. Haye



ALA Bulletin

Vol. 61, No. 6 (June XXXX), pp. 662-669 (8 pages)

<https://www.jstor.org/stable/25697657>

Published by: American Library Association

1. Library school students generally lack the technical background necessary for data processing work as such, and yet, as library school graduates, they will find themselves in a world where that technology will play an increasingly important role. They must be given a sufficient orientation to be able to fit data processing into the context of library goals and purposes. The intent of the introductory course is to bridge the gap between their existing background and their future work.

2. There is a great and ever-growing need for library systems analysts, educated as librarians but with the technical tools for competent work with data processing technology.



Mapping CT to Library & Archival Science Education & Research

"To reading, writing, and arithmetic, we should add computational thinking to every child's analytical ability."

(Wing, 2006)

"... a form of problem solving that uses modeling, decomposition, pattern recognition, abstraction, algorithm design", and scale.

"Automating the Detection of Personally Identifiable Information (PII) in Japanese-American WWII Incarceration Camp Records.", CAS#5 Workshop

Richard Marciano, William Underwood et al.

Link: <https://ai-collaboratory.net/wp-content/uploads/2020/03/2.Marciano.pdf>

"Reframing Digital Curation Practices through a Computational Thinking Framework", CAS#5 Workshop

Richard Marciano et al.

Link: https://ai-collaboratory.net/wp-content/uploads/2020/04/ReframingDC-UsingCT_final.pdf

Viewpoint Jeannette M. Wing

Computational Thinking

It represents a universally applicable attitude and skill set everyone, not just computer scientists, would be eager to learn and use.



Computational thinking builds on the power and limits of computing processes, whether they are executed by a human or by a machine. Computational methods and models give us the courage to solve problems and design systems that no one of us would be capable of tackling alone. Computational thinking confronts the riddle of machine intelligence: What can humans do better than computers? and What can computers do better than humans? Most fundamentally it addresses the question: What is computable? Today, we know only parts of the answers to such questions.

Computational thinking is a fundamental skill for everyone, not just for computer scientists. To reading, writing, and arithmetic, we should add computational thinking to every child's analytical ability. Just as the printing press facilitated the spread of the three Rs, what is appropriately incestuous about this vision is that computing and computers facilitate the spread of computational thinking.

Computational thinking involves solving problems, designing systems, and understanding human behavior, by drawing on the concepts fundamental to computer science. Computational thinking includes a range of mental tools that reflect the breadth of the field of computer science.

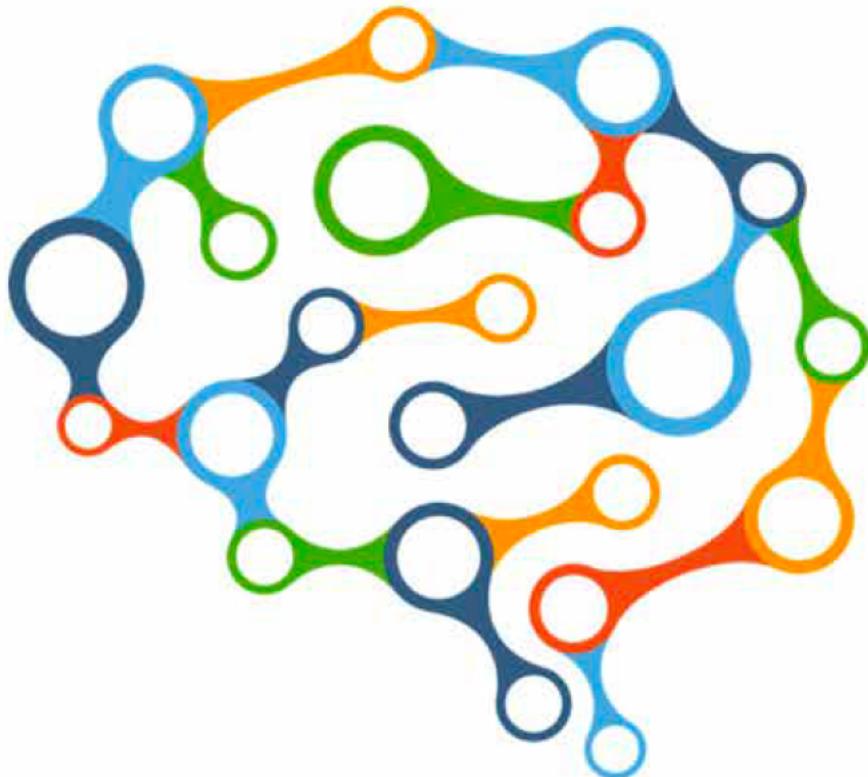
Having to solve a particular problem, we might ask: How difficult is it to solve? and What's the best way to solve it? Computer science rests on solid theoretical underpinnings to answer such questions pre-

cisely. Stating the difficulty of a problem accounts for the underlying power of the machine—the computing device that will run the solution. We must consider the machine's instruction set, its resource constraints, and its operating environment.

In solving a problem efficiently, we might further ask whether an approximate solution is good enough, whether we can use randomization to our advantage, and whether false positives or false negatives are allowed. Computational thinking is reformulating a seemingly difficult problem into one we know how to solve, perhaps by reduction, embedding, transformation, or simulation.

Computational thinking is thinking recursively. It is parallel processing. It is interpreting code as data and data as code. It is type checking as the generalization of dimensional analysis. It is recognizing both the virtues and the dangers of aliasing, or giving someone or something more than one name. It is recognizing both the cost and power of indirect addressing and procedure call. It is judging a program not just for correctness and efficiency but for aesthetics, and a system's design for simplicity and elegance.

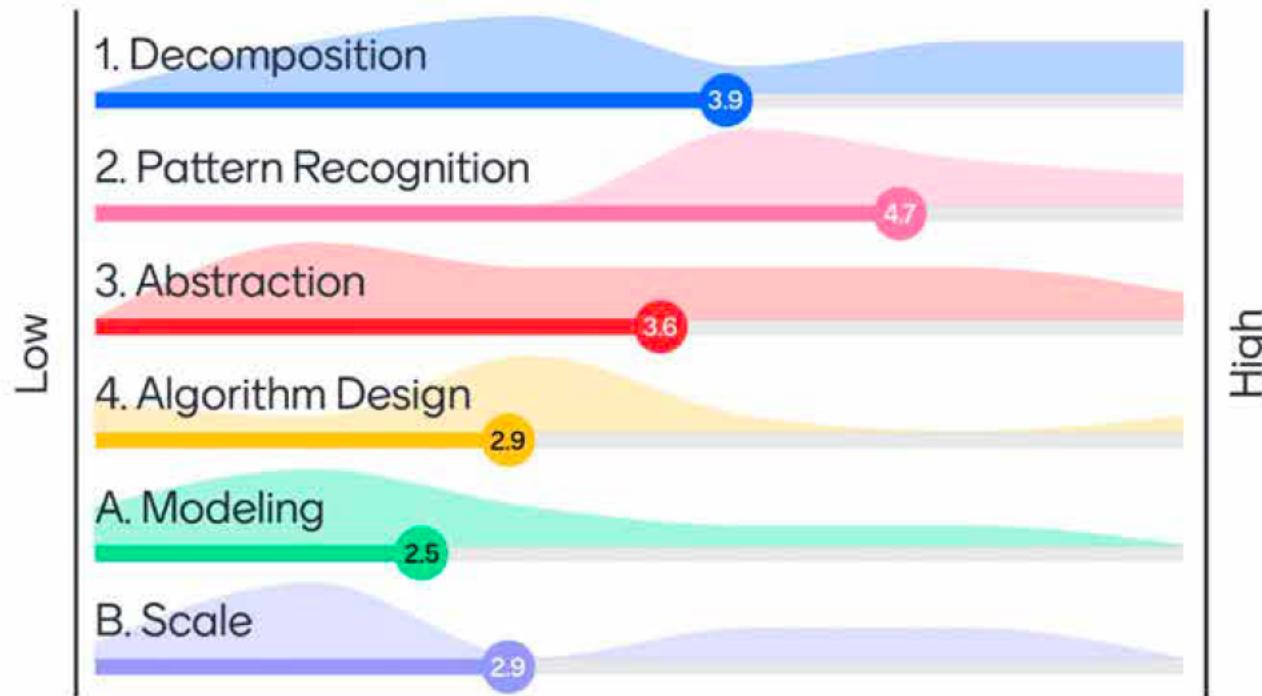
Computational thinking is using abstraction and decomposition when attacking a large complex task or designing a large complex system. It is separation of concerns. It is choosing an appropriate representation for a problem or modeling the relevant aspects of a problem to make it tractable. It is using invariants to describe a system's behavior succinctly and declaratively. It is having the confidence we can safely use, modify, and influence a large complex system without understanding its every detail. It is



Computational Thinking Components

- **1. DECOMPOSITION**
 -Breaking a large problem into smaller more manageable parts
- **2. PATTERN RECOGNITION**
 -Recognizing which parts are the same and the various attributes we can use to define them
- **3. ABSTRACTION**
 -Filtering out the data you need and what you don't based on the attributes
- **4. ALGORITHM DESIGN**
 -Planning the step-by-step instructions that need to be carried out to achieve the goal
- **A. Modeling**
 - Reformulating seemingly difficult problems into solvable forms using reduction, transformation, recursion, and simulation.
- **B. Scale**
 - Solving problems that are large enough they require forms of automation

Rate your level of comfort [on a scale from 1-6]:



This slide is about Computational Archival Science. Computational archival science is a blend of: (1) computational (2) archival thinking.

David Weintrop:

- CT-STEM
Practices Taxonomy

CITATION

Bill Underwood:

- CAS#4:
Analysis of the remaining eleven workshop papers indicates that the research that they report also involves CT.

https://ai-collaboratory.net/wp-content/uploads/2020/02/16_OpenMic_Bill-Underwood.pdf

- CT-LASER Practice:
Motivation for Integrating CT into UMD MLIS program in Library and Archival Studies, with examples of CT Practices being used in Archival Studies Research

https://ai-collaboratory.net/wp-content/uploads/2020/04/Underwood_CompThinkInArchResearch.pdf

DP

Data Practices

Collecting Data

Creating Data

Manipulating Data

Analyzing Data

Visualizing Data

MS

Modeling & Simulation Practices

Using Computational Models to Understand a Concept

Using Computational Models to Find and Test Solutions

Assessing Computational Models

Designing Computational Models

Constructing Computational Models

CPS

Computational Problem Solving Practices

Preparing Problems for Computational Solutions

Programming

Choosing Effective Computational Tools

Assessing Different Approaches/Solutions to a Problem

Developing Modular Computational Solutions

Creating Computational Abstractions

Troubleshooting and Debugging

ST

Systems Thinking Practices

Investigating a Complex System as a Whole

Understanding the Relationships within a System

Thinking in Levels

Communicating Information about a System

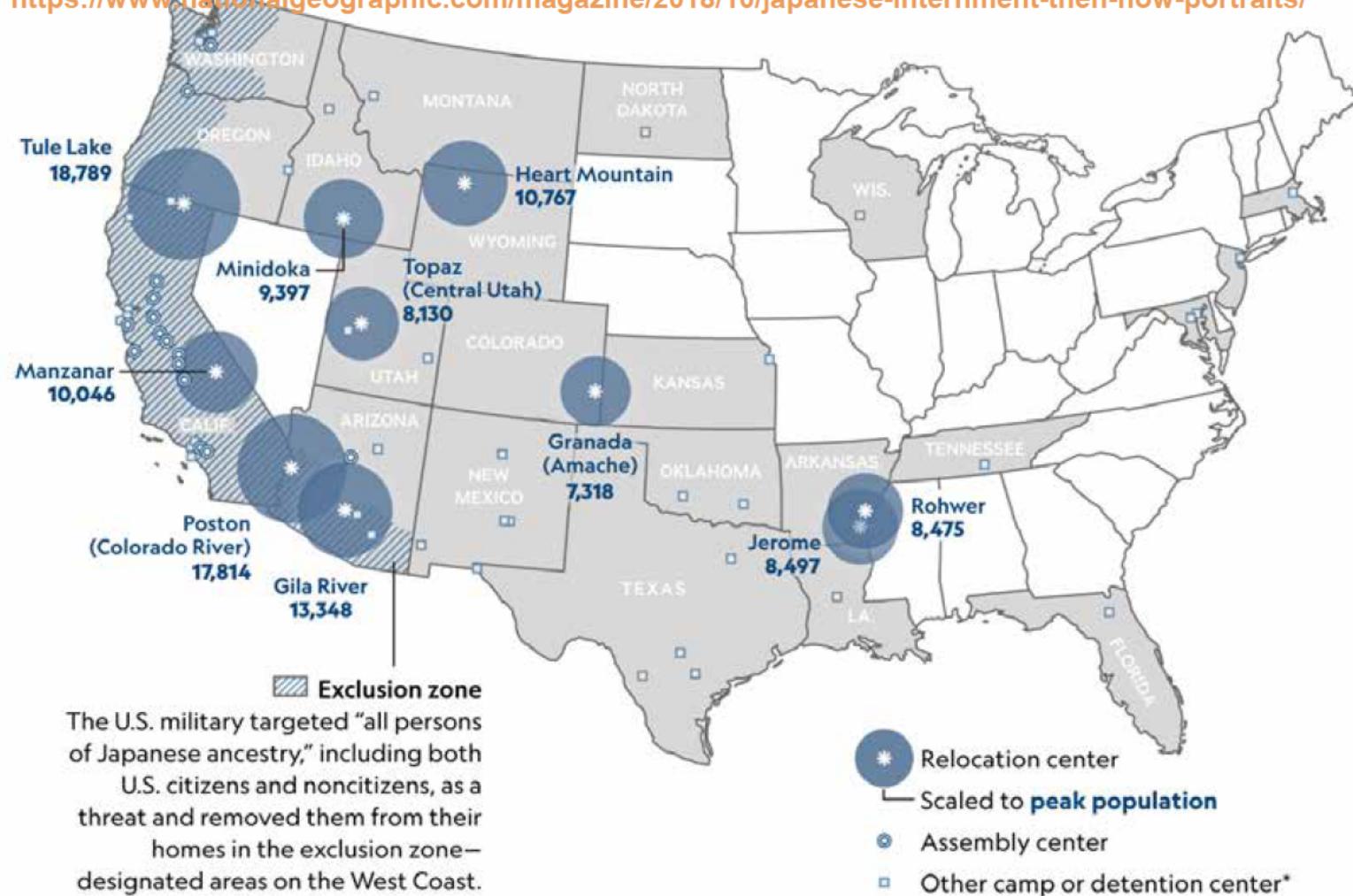
Defining Systems and Managing Complexity

Example of CAS with a CT-LASER mapping

Automating the Detection of Personally Identifiable Information (PII) in
Japanese-American WWII Incarceration Camps

Proceedings of IEEE Big Data Conference 2018, CAS Workshop: Dec. 13, 2019, Seattle, WA.

- “Automating the Detection of Personally Identifiable Information (PII) in Japanese-American WWII Incarceration Camp Records.”
Richard Marciano, William Underwood et al.
Link: <https://ai-collaboratory.net/wp-content/uploads/2020/03/2.Marciano.pdf>

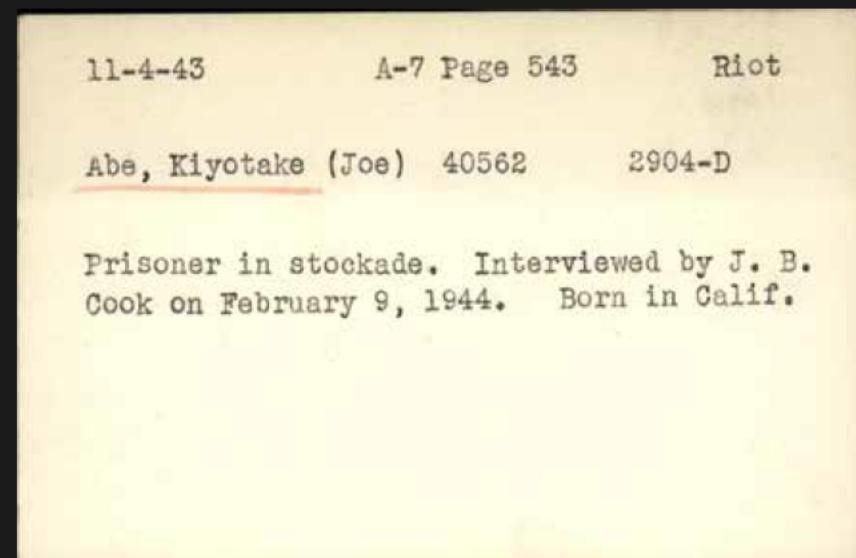


The records of the WRA (Record Group 210 from 1941-47) at the National Archives in Washington D.C. and Maryland, are comprised of over 100 series with motion picture films, drawings of incarceration centers, photos, maps, correspondence, yearbooks, rosters, etc.

Series 51 & 52 have immense value for survivors of the camps, their families, and historians, yet they are still not accessible.

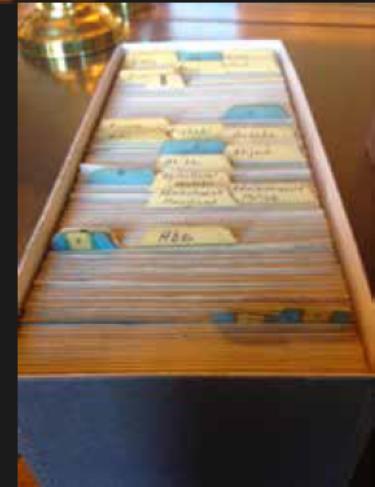
Series 51, the “Internal Security Case Reports” from 1942 to 1946, comprises narrative reports prepared by camp investigators, police officers, and directors of internal security, relating cases of alleged “disorderly conduct, rioting, seditious behavior,” etc. at each of the 10 camps, with detailed information on the names and addresses in the camps of the persons involved, the time and place where the alleged incident occurred, an account of what happened, and a statement of action taken by the investigating officer.

Automating the Detection of Personally Identifiable Information (PII) in Index Cards to Internal Security Case Reports



- 364: Topaz UT (1%)
1,202: Poston AZ (5%)
1,578: Gila River AZ (6%)
763: Granada CO (3%)
533: Heart Mountain WY (2%)
2,146: Manzanar CA (9%)
2,343: Minidoka ID (9%)
15,648: Tule Lake CA (63%)
468: Rohwer/Jerome AK (2%)

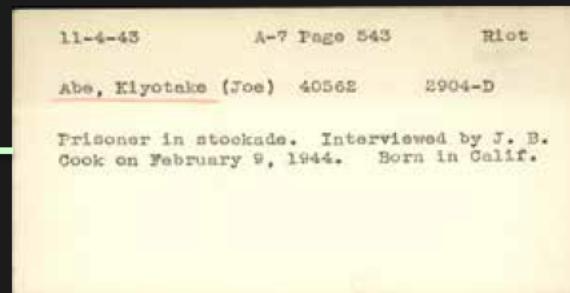
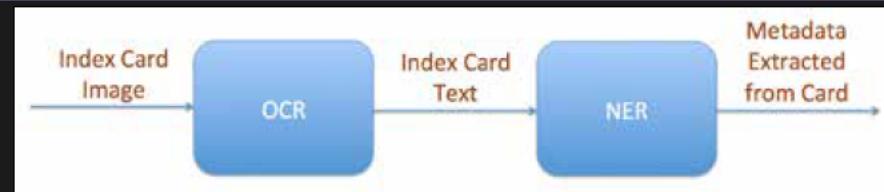
25,045



Data Practices	Modeling & Simulation Practices	Computational Problem Solving Practices	Systems Thinking Practices
Collecting Data	Using Computational Models to Understand a Concept	Preparing Problems for Computational Solutions	Investigating a Complex System as a Whole
A. Creating Data	Using Computational Models to Find and Test Solutions	G. Programming	Understanding the Relationships within a System
B. Manipulating Data	Assessing Computational Models	Choosing Effective Computational Tools	Thinking in Levels
C. Analyzing Data	E. Designing Computational Models	Assessing Different Approaches/Solutions to a Problem	Communicating Information about a System
D. Visualizing Data	F. Constructing Computational Models	H. Developing Modular Computational Solutions	Defining Systems and Managing Complexity
		I. Creating Computational Abstractions	
		J. Troubleshooting and Debugging	

A. Creating Data

"The increasingly computational nature of working with data in" **archival science** "underscores the importance of developing computational thinking practices in the classroom." "Part of the challenge is teaching students that answers are drawn from the data available." "In many cases" **archivists** "use computational tools to generate data... at scales that would otherwise be impossible."



Japanese Name	Last Name	First Name	Anglo Name	Incident Date	Year	Age	Residence ID	Family Number
Y	Abe	Kiyotake	Joe	11-4-43	1943		2904-D	40562

B. Manipulating Data

"Computational tools make it possible to efficiently and reliably manipulate large and complex" archival holdings. "Data manipulation includes sorting, filtering, cleaning, normalizing, and joining disparate datasets."



Japanese Name	Last Name	First Name	Other Name	Incident Date	Year	Age	Residence ID	Family Number
Y	Abe		James	10/5/1942	1942	20	2803-A	
Y	Abe	Makoto		10/7/1942	1943	43	1206-A	
Y	Abe	Sakichi		11/2/1942	1942	62	5315-B	
Y	Abe	Shigeki		5/1/1943	1943	43		
Y	Abe	Kiyotake	Joe	11/4/43	1943		2904-D	40562
N	Jensen	Lloyd	H.	11/16/43	1943			



Maryland



The Maryland State Archives Presents:

LEGACY OF SLAVERY IN MARYLAND

An Archives of Maryland Electronic Publication



- <http://slavery.msa.maryland.gov/>
- <http://slavery2.msa.maryland.gov/pages/Search.aspx>
→ Runaway Slave Ads: 12,112 records

Certif. Freedom: 1. Archival Crawling → 2. Data Cleaning → 3. Data Analysis

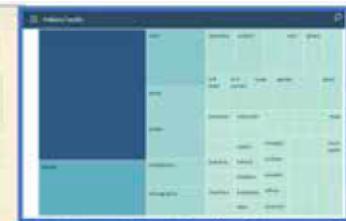
City Dirs.: 1. Internet Archives → 2. Data Cleaning → 3. Data Modeling → 4. Data Analysis

2 files:

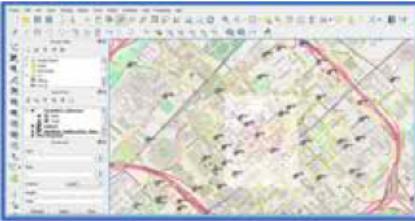
- RunawaySlaveAds.xlsx → <https://cases.umd.edu/github/cases-umd/Legacy-of-Slavery/blob/master/index.ipynb>
- Charlotte_1911_CITY-DIR.txt



Graph Databases:
Alexis, Rosie



Data Visualization:
Emily, Phillip, Sara



Geospatial Transformations:
Cliff, Matt

Spring 2021 Datathon Showcase

Computational Storytelling Using Jupyter Notebooks

Thursday, May 6, 2021:
6:00 – 7:00 PM



Digitization Management:
Annabel, Bo, Britton

Advanced
Information
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Category	Sub-Category	Item	Value
1	1.1	1.1.1	1.1.1.1
1	1.2	1.2.1	1.2.1.1
1	1.3	1.3.1	1.3.1.1
1	1.4	1.4.1	1.4.1.1
2	2.1	2.1.1	2.1.1.1
2	2.2	2.2.1	2.2.1.1
2	2.3	2.3.1	2.3.1.1
2	2.4	2.4.1	2.4.1.1
3	3.1	3.1.1	3.1.1.1
3	3.2	3.2.1	3.2.1.1
3	3.3	3.3.1	3.3.1.1
3	3.4	3.4.1	3.4.1.1
4	4.1	4.1.1	4.1.1.1
4	4.2	4.2.1	4.2.1.1
4	4.3	4.3.1	4.3.1.1
4	4.4	4.4.1	4.4.1.1
5	5.1	5.1.1	5.1.1.1
5	5.2	5.2.1	5.2.1.1
5	5.3	5.3.1	5.3.1.1
5	5.4	5.4.1	5.4.1.1
6	6.1	6.1.1	6.1.1.1
6	6.2	6.2.1	6.2.1.1
6	6.3	6.3.1	6.3.1.1
6	6.4	6.4.1	6.4.1.1
7	7.1	7.1.1	7.1.1.1
7	7.2	7.2.1	7.2.1.1
7	7.3	7.3.1	7.3.1.1
7	7.4	7.4.1	7.4.1.1
8	8.1	8.1.1	8.1.1.1
8	8.2	8.2.1	8.2.1.1
8	8.3	8.3.1	8.3.1.1
8	8.4	8.4.1	8.4.1.1
9	9.1	9.1.1	9.1.1.1
9	9.2	9.2.1	9.2.1.1
9	9.3	9.3.1	9.3.1.1
9	9.4	9.4.1	9.4.1.1
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10	10.2	10.2.1	10.2.1.1
10	10.3	10.3.1	10.3.1.1
10	10.4	10.4.1	10.4.1.1
11	11.1	11.1.1	11.1.1.1
11	11.2	11.2.1	11.2.1.1
11	11.3	11.3.1	11.3.1.1
11	11.4	11.4.1	11.4.1.1
12	12.1	12.1.1	12.1.1.1
12	12.2	12.2.1	12.2.1.1
12	12.3	12.3.1	12.3.1.1
12	12.4	12.4.1	12.4.1.1
13	13.1	13.1.1	13.1.1.1
13	13.2	13.2.1	13.2.1.1
13	13.3	13.3.1	13.3.1.1
13	13.4	13.4.1	13.4.1.1
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14	14.2	14.2.1	14.2.1.1
14	14.3	14.3.1	14.3.1.1
14	14.4	14.4.1	14.4.1.1
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15	15.2	15.2.1	15.2.1.1
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16	16.3	16.3.1	16.3.1.1
16	16.4	16.4.1	16.4.1.1
17	17.1	17.1.1	17.1.1.1
17	17.2	17.2.1	17.2.1.1
17	17.3	17.3.1	17.3.1.1
17	17.4	17.4.1	17.4.1.1
18	18.1	18.1.1	18.1.1.1
18	18.2	18.2.1	18.2.1.1
18	18.3	18.3.1	18.3.1.1
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19	19.2	19.2.1	19.2.1.1
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20	20.4	20.4.1	20.4.1.1
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21	21.2	21.2.1	21.2.1.1
21	21.3	21.3.1	21.3.1.1
21	21.4	21.4.1	21.4.1.1
22	22.1	22.1.1	22.1.1.1
22	22.2	22.2.1	22.2.1.1
22	22.3	22.3.1	22.3.1.1
22	22.4	22.4.1	22.4.1.1
23	23.1	23.1.1	23.1.1.1
23	23.2	23.2.1	23.2.1.1
23	23.3	23.3.1	23.3.1.1
23	23.4	23.4.1	23.4.1.1
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32	32.4	32.4.1	32.4.1.1
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33	33.4	33.4.1	33.4.1.1
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34	34.2	34.2.1	34.2.1.1
34	34.3	34.3.1	34.3.1.1
34	34.4	34.4.1	34.4.1.1
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35	35.2	35.2.1	35.2.1.1
35	35.3	35.3.1	35.3.1.1
35	35.4	35.4.1	35.4.1.1
36	36.1	36.1.1	36.1.1.1
36	36.2	36.2.1	36.2.1.1
36	36.3	36.3.1	36.3.1.1
36	36.4	36.4.1	36.4.1.1
37	37.1	37.1.1	37.1.1.1
37	37.2	37.2.1	37.2.1.1
37	37.3	37.3.1	37.3.1.1
37	37.4	37.4.1	37.4.1.1
38	38.1	38.1.1	38.1.1.1
38	38.2	38.2.1	38.2.1.1
38	38.3	38.3.1	38.3.1.1
38	38.4	38.4.1	38.4.1.1
39	39.1	39.1.1	39.1.1.1
39	39.2	39.2.1	39.2.1.1
39	39.3	39.3.1	39.3.1.1
39	39.4	39.4.1	39.4.1.1
40	40.1	40.1.1	40.1.1.1
40	40.2	40.2.1	40.2.1.1
40	40.3	40.3.1	40.3.1.1
40	40.4	40.4.1	40.4.1.1
41	41.1	41.1.1	41.1.1.1
41	41.2	41.2.1	41.2.1.1
41	41.3	41.3.1	41.3.1.1
41	41.4	41.4.1	41.4.1.1
42	42.1	42.1.1	42.1.1.1
42	42.2	42.2.1	42.2.1.1
42	42.3	42.3.1	42.3.1.1
42	42.4	42.4.1	42.4.1.1
43	43.1	43.1.1	43.1.1.1
43	43.2	43.2.1	43.2.1.1
43	43.3	43.3.1	43.3.1.1
43	43.4	43.4.1	43.4.1.1
44	44.1	44.1.1	44.1.1.1
44	44.2	44.2.1	44.2.1.1
44	44.3	44.3.1	44.3.1.1
44	44.4	44.4.1	44.4.1.1
45	45.1	45.1.1	45.1.1.1
45	45.2	45.2.1	45.2.1.1
45	45.3	45.3.1	45.3.1.1
45	45.4	45.4.1	45.4.1.1
46	46.1	46.1.1	46.1.1.1
46	46.2	46.2.1	46.2.1.1
46	46.3	46.3.1	46.3.1.1
46	46.4	46.4.1	46.4.1.1
47	47.1	47.1.1	47.1.1.1
47	47.2	47.2.1	47.2.1.1
47	47.3	47.3.1	47.3.1.1
47	47.4	47.4.1	47.4.1.1
48	48.1	48.1.1	48.1.1.1
48	48.2	48.2.1	48.2.1.1
48	48.3	48.3.1	48.3.1.1
48	48.4	48.4.1	48.4.1.1
49	49.1	49.1.1	49.1.1.1
49	49.2	49.2.1	49.2.1.1
49	49.3	49.3.1	49.3.1.1
49	49.4	49.4.1	49.4.1.1
50	50.1	50.1.1	50.1.1.1
50	50.2	50.2.1	50.2.1.1
50	50.3	50.3.1	50.3.1.1
50	50.4	50.4.1	50.4.1.1
51	51.1	51.1.1	51.1.1.1
51	51.2	51.2.1	51.2.1.1
51	51.3	51.3.1	51.3.1.1
51	51.4	51.4.1	51.4.1.1
52	52.1	52.1.1	52.1.1.1
52	52.2	52.2.1	52.2.1.1
52	52.3	52.3.1	52.3.1.1
52	52.4	52.4.1	52.4.1.1
53	53.1	53.1.1	53.1.1.1
53	53.2	53.2.1	53.2.1.1
53	53.3	53.3.1	53.3.1.1
53	53.4	53.4.1	53.4.1.1
54	54.1	54.1.1	54.1.1.1
54	54.2	54.2.1	54.2.1.1
54	54.3	54.3.1	54.3.1.1
54	54.4	54.4.1	54.4.1.1
55	55.1	55.1.1	55.1.1.1
55	55.2	55.2.1	55.2.1.1
55	55.3	55.3.1	55.3.1.1
55	55.4	55.4.1	55.4.1.1
56	56.1	56.1.1	56.1.1.1
56	56.2	56.2.1	56.2.1.1
56	56.3	56.3.1	56.3.1.1
56	56.4	56.4.1	56.4.1.1
57	57.1	57.1.1	57.1.1.1
57	57.2	57.2.1	57.2.1.1
57	57.3	57.3.1	57.3.1.1
57	57.4	57.4.1	57.4.1.1
58	58.1	58.1.1	58.1.1.1
58	58.2	58.2.1	58.2.1.1
58	58.3	58.3.1	58.3.1.1
58	58.4	58.4.1	58.4.1.1
59	59.1	59.1.1	59.1.1.1
59	59.2	59.2.1	59.2.1.1
59	59.3	59.3.1	59.3.1.1
59	59.4	59.4.1	59.4.1.1
60	60.1	60.1.1	60.1.1.1
60	60.2	60.2.1	60.2.1.1
60	60.3	60.3.1	60.3.1.1
60	60.4	60.4.1	60.4.1.1
61	61.1	61.1.1	61.1.1.1
61	61.2	61.2.1	61.2.1.1
61	61.3	61.3.1	61.3.1.1
61	61.4	61.4.1	61.4.1.1
62	62.1	62.1.1	62.1.1.1
62	62.2	62.2.1	62.2.1.1
62	62.3	62.3.1	62.3.1.1
62	62.4	62.4.1	62.4.1.1
63	63.1	63.1.1	63.1.1.1
63	63.2	63.2.1	63.2.1.1
63	63.3	63.3.1	63.3.1.1
63	63.4	63.4.1	63.4.1.1
64	64.1	64.1.1	64.1.1.1
64	64.2	64.2.1	64.2.1.1
64	64.3	64.3.1	64.3.1.1
64	64.4	64.4.1	64.4.1.1
65	65.1	65.1.1	65.1.1.1
65	65.2	65.2.1	65.2.1.1
65	65.3	65.3.1	65.3.1.1

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*Aaron Amelia, domestic s/s Tryon
Abbey Simeon A (Mary A), supt const Genl Fire Exch Co, h 104
Central av
ABBOTT F C & CO (F C Abbott), real estate and Southern Mill
stocks and bonds, Trust Bldg—phone 228 (see side lines and
Index for Advs)
ABBOTT FREDERICK C (Annie B), (F C Abbott & Co), and
pres-trs Suburban Realty Co, h 1804 s Boulevard—phone 1064
Abbott Margaret Miss, h 1804 s Boulevard
Abe: Jenkins A, tel opn Son Ry, Ind 307 n Graham
Abel Abram (Faunie), trav s/n, h 506 w 16th
*Abel Belle, h 14 Boundary st
Abernathy C L, h Lawyer's rd
Abernathy Clement E (Cora), emp Char Lea Belt Co, h 1117 s
Tryon
Abernathy Cora Mrs, boarding 1117 s Tryon, h same
Abernathy David M (Eudora), h 1216 w 4th ext
Abernathy Elizabeth Miss, h 439 Mint
Abernathy Hannah, h 7 Bellinger
Abernathy Jno W (Nannie), carp, h Sunnyside
*Abernathy Jos, lab, h 422 w Hill
Abernathy Lewis (Annie), carp, h 422 w Hill
Abernathy Connie Miss, stenogr Burwell & Dunn Co, h 414 Templeton
av
Abernathy E Glenna, doms Burwell & Dunn Co, h 409 w 11th
Abernathy Gertrude Miss, sister Little-Long Co, h 306 w 11th
Abernathy J Lee (Della), painter, h Severville
Abernathy J S Dr, h Beatty's Ford rd
Abernathy J. F (Alice), blacksmith w/ Trade, ext. h Severville
Abernathy Lillian Miss, widow Elford's Dept Store, h Severville
Abernathy Margaret K, wid Jas C 2 Jct
Abernathy Mildred Miss, rms 607 n Davidson
Abernathy Nellie J Miss, Makor Pound & Moore Co, h 311 n College
Abernathy Thos J (Lulu), emp City, h 414 Templeton av
Abernathy W Leslie, mech W S Abernathy, h 409 w 11th
Abernathy Wm S (Mannie), auto rep 29 w 4th, h 409 w 11th
Abernathy Wm (Lulu), 316 s College
Academy of Music, 210-212 s Tryon; J S Crovo, mng'r
Acme Barber Shop, 28% s Tryon; E R Kirkinan prop
ACME PLUMBING CO, 21-26 e 4th; M B Hunter pres, H P
Hunter sec-treas
*Adams Anna, chfr, h 1021 s Church
*Adams Belle, maid Ryley Bldg, h 418 w 2d
*Adams Berry A (Edith), poster W S Cramer, h Severville
*Adams Beulah Miss, h 419 Elizabeth av
ADAMS CHAS C (Kate), with 1st Natl Bank, h 905 s Tryon
Adams Compton (Cora), mill id, h Elizabeth Mills
Adams Dorothy Miss, stenogr Oceorge Mills Co, rms Y W C A
*Adams Edward (Mittie), driver Rhyne Bros, h 205 w Palmet
Adams Geo, tailor Harry Miller Jr, Ind 15 s Church
Adams Grains & Provision Co, 200 e Trade; J J Adams pres, G H
Brookborough vepres, H B Fowler sec-treas
*Adams Henry (Doris), lab, h 200 Middle

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INSURANCE; INVESTMENTS; HOMES
P. M. BROWN, Pres. G. G. GALLAWAY, V-Pres.
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Adams Henry L (Fantie S), route agt So Ry Co, h 327 n Tryon
Adams Jas (Gertrude), mng'r, h 419 Elizabeth av
*Adams Jno, chfr, h 1021 s Church
Adams Jno J, pres Adams G & P Co, and Char Pepsi-Cola Co, h
306 e 6th
Adams Jno W (Cora), cond'r S A L Ry, h 211 n Caldwell
*Adams Jos (Violet), cooper, h 1011 s Church
Adams Jos Q Rev (Leslie), h 1509 s Boulevard
Adams Jules M Miss, h 1021 s Church
*Adams Kate, laund, h Groveton
Adams Lafayette N, clk Son Ry, h 327 s Tryon
Adams Lawrence A (Sister B S Moore & Co), rms 405 s Tryon
Adams Lauric A (Margaret N), mill wd, h Elizabeth Mills
*Adams Leland, porter J P Stowe & Co, h 403 s Myers
*Adams Lizzie, h 309½ w Morehead
Adams Luis Miss, clk Belk Bros, rms Y W C A
Adams M Grace, wid Geo O, h 601 n College
Adams M Luther (Mamie), h Groveton
*Adams Major, waiter Buford Hotel
*Adams Mattie, h 719 n Graham ext
Adams Pattie V Miss, stenogr, bds 206 s Caldwell
Adams Rembeh (Helle), lab Y & B Co, h 419 w 2d
Adams Rosa, h 711 s Caldwell
Adams Rufus, lab, h Greenville
Adams Rufus, driver Stand J F & Co, h Ross Town
Adams Salie H Miss, ass't Carnegie Library, h 707 n Church
ADAMS THADDEUS A (Emma), aty at law, 214-216 Law Bldg—
phone 116 and v-pres R G Auten Elec Co, h Clement av, E H
—phone 1400
*Adams Violet, servant 208 w Trade
Adams Wheeler F (Mamie), mldr, h 283 s Cedar
Adams Wm E, with The Chronicle, rms 200½ s Church
ADAMS WINSTON D, city editor Charlotte Daily Observer, rms
Y W C A
Adcock Jas F, mill wrkr, h 916 Calvine av
Adcock Miller S, wid Jas M, h 916 Calvine av
Adelsheimer Henry S (Lizzie), mill wrkr, h 1216 Louise av
ADER CHAS E (Bertha), cir mngr The Chronicle, h 704 s Church
*Adkins King, lab, 600 s Myers
Adkins Walter D (Lemon E), lineman, h (r) 285 e 12th
Actina Fire Insurance Co of Hartford Conn, 3012 Realty Bldg; F C
Clarke, spf agt
Afro-American Mutual Insurance Co, 412 e 2d; T L Tate pres-
treas, T R Mack v-pres, J W Crockett sec-mngr
*Agers Nancy, cook, h 206 Wilson
*Agers Sallie, laund h 420 Jackson
Ahans Herman (Frances E) tailor 203 w 4th, h 204 s Church
AHRENS FRED W (Laura), v-pres Mutual Bldg & Loan Assn, h
19 s Morehead
Aikell Jos, conf 217 e Trade, rms 223 w Trade
Aiken Geo W M (Barbara), supt Queen City M & G Wks, h 1120
s Caldwell
Aiken Henry, rms 9 e 3d
*Aiken Walter (Ella), lab, h 600 e 2d

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*Aiken Wm (Ella), driver W I Henderson Gro Co, h 525 e 8th
Akers Jos J, clk clk Saenger Ry, h 804 s Tryon
Alben Ino C, prezntor News Pub Co, h 210 s McDowell
Albee Louise Miss, wid Floyd L Lilas Co, h 10 w 11th
Albee S Emma, wid J F, h 210 s McDowell
Albrecht Gesha, wid Martha, h 402 Elizabeth av
Albright Fred L, clk P O, h 15 s Caldwell
Albright Judson D (Belle C), U S int rev officer, h 15 s Caldwell
Albright Elizabeth Miss, nurse Char Sanatorium, rms 12 w 7th
Albert Conrad M (Victoria), mem, h Severville
Aldred Jas A (Mather), clk, h Severville
Aldred Win L, Rev (Martha), evangelist, h Severville
Aldridge Miller S, wid Wm A, h Harrill st, Belmont Park
Alexain Nicholas, emp Met Cafe, rms 226 n Tryon
Alexander Adelaide, h 519 (999) s 1st
Alexander Adeline, h Lutherian st
Alexander Albert W (Alice), foreman Char Cordage Co, h 821 e 4th
*Alexander Alfred (Willie), driver, h 1016 e 2d
*Alexander Allen (Lazelle), lab, h 6 10th s adl
*Alexander Alvey, lab, h Lindeker st
*Alexander Andrew (Bessie), grm 155½ w Boundary, h 311 e Stonewall
*Alexander Andrew W, rms 415 n Myers
Alexander Annie Miss, stenogr C M Street, h 610 n Graham ext
Alexander Annie L Miss, phys 410 n Tryon, h same
Alexander Arnold F (Alice), laundryman, h 1424 e 5th
*Alexander Bernard, porter Young's Steam Baking Co
*Alexander Besse, h 1006 e 1st
Alexander Blanche, maid, h 17 Spring
Alexander Blandine Miss, mchr J E Ivy Co, h 610 n Graham ext
Alexander Bros (J H and L H), groc and mddrs, Graham ext w 14th
*Alexander Burdette, porter Colonial Club
Alexander C P H Providence rd
*Alexander Calvin (Estherine), lab, h 212½ w 1st
Alexander Carl L, clk, h 268 e Oak
*Alexander Carrie, clk Gaither's st
*Alexander Carson, chauffeur J E S Davidson, h 209 s Middle
*Alexander Chas, lab, h 10 n A
Alexander Chas F (Mary), clk P O, h 308 e Worthington av
Alexander Chas J (Sac), dentist 913-914 Realty Rd, h 906 n Tryon
Alexander Chas V, clk King's Ess College, rms 202 s Church
Alexander Chester W, emp J M Porter, h 1116 e Tryon
Alexander Clyde, clk, postman, h 301 n Brevard
*Alexander Daniel (Patsy), lab, h 527 e 1st
Alexander Decatur C (Alice), porter Colonial Club, h 313 e 1st
Alexander Edna Miss, nurse St Peters Hospital, rms same
Alexander Edsel (Louisa), lab, h 1012 e Stonewall
Alexander Eleanor Miss, h 900 s Tryon
Alexander Eli (Jeannie), gro Oil Town, h same
*Alexander Elizabeth, laundryress, h (r) 414 s College
Alexander Ellen, h 600 s McDowell
Alexander Emma V, wid Wm S, h 610 n Graham ext
*Alexander Ephraim (Alice), driver Cole & Smith, h Stonewall
bed & B & B

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Afro-American (1893-1988); Apr 26, 1930; ProQuest Historical Newspapers: The Baltimore Afro-American
pg. 1

Cop Wants \$25,000 for Misplaced Asterisk

ASHEVILLE, N. C. — Lon Powers, white, of local police force, has filed suit in County Court against the Commercial Service, inc., the Piedmont Directory Company and the Miller Press, inc., promoters and publishers of the Asheville city directory, for \$12,500 punitive and \$12,500 compensatory damages.

In the directory, the policeman said, his name appeared with an asterisk, the symbol employed to denote citizens of the Negro race.

