IMPROVING UX IN DIGITAL COLLECTIONS

INTRODUCTION

LIBRARY OF CONGRESS COLLECTION

COLLECTION

Code of Federal Regulations

The Code of Federal Regulations (C.F.R.) is "the codification of the general and permanent rules by the department and agencies of the Federal Government." This is a historical collection of the Code...

Collection Items: View

232,465 Items

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Administrative L

Shipping list no.: 200 and 0268-P. Distributed to some depository libraries in microfiche. Includes bibliographical references. "Serial no. 10." Also available in digital form on the Library of Congress Web site.

STUDENT

Sam Solomon is a graduate student of the University of Washington's MLIS program and an independent researcher on this project. She designed this report and presentation.

SPONSOR

Jennifer González is a Librarian (Senior Legal Information Specialist) in the Digital Resources Division of the Law Library of Congress. She maintains and oversees metadata projects within the digital collections.

PROJECT BACKGROUND



The Law Library of Congress has compiled and provided digital access to the publications of the Federal Register from 1936 to 1993 and the Code of Federal Regulations from 1938 to 1995. The digital collections require updated organization and metadata to optimize user experience.

This project researched LLOC and similar collections to identify suggestions for improving UX design through actionable solutions.

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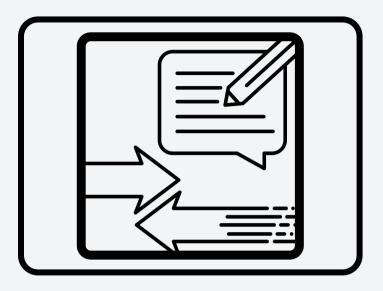
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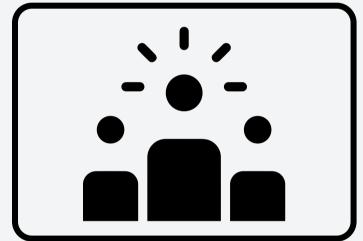
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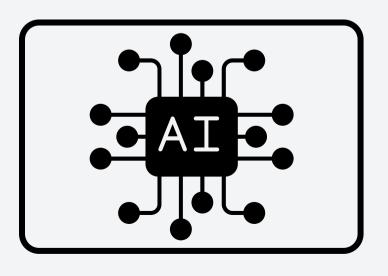
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OBJECTIVES







- UX / UI DESIGN

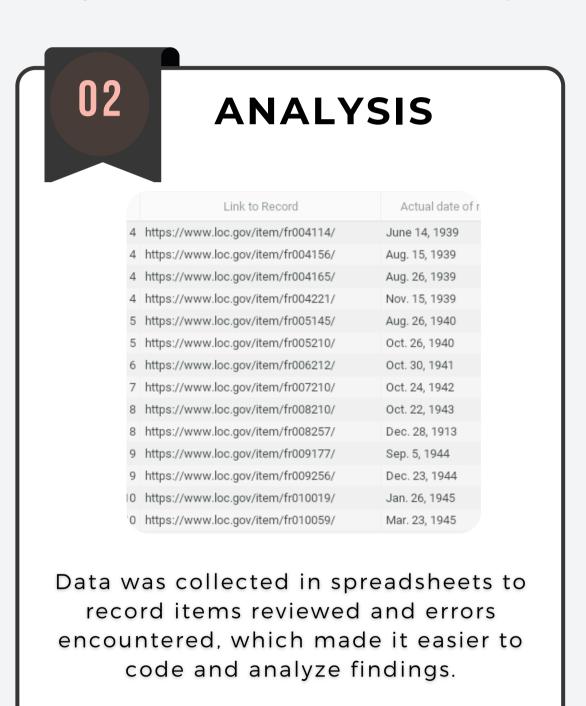
 IDENTIFY OPPORTUNITIES FOR IMPROVEMENT
- O2 ACCESSIBILITY
 INCREASE ACCESS TO AND WITHIN THE COLLECTIONS
- USER ENGAGEMENT WITH VISUAL DESIGN
- OPTIMIZE COLLECTIONS, WITHOUT COMPROMISING SECURITY AND ACCESS

RESEARCH APPROACH

Summary of actions and research surprises.



I reviewed over 1000 item records in each collection. Key features of the approach for individual records included evaluating metadata, URL, and the link to PDF. I also reviewed the overall organization, filters, and search functions of both collections.





ANALYSIS OFTHE CURRENT SYSTEM

KEY INSIGHTS

FRIDAY, AUGUST 9, 1974 WASHINGTON, D.C.

Volume 39 ■ Number 155

Pages 28605-28867

PART I



HIGHLIGHTS OF THIS ISSUE

of any document published in this issue. Detailed table of contents appears inside.

MEDICARE—HEW expands coverage for aged and disabled; effective 8-9-74.

SOCIAL SECURITY—HEW publishes introduction to supplemental income program and establishes citizen-ship and residency requirements; effective 8-9-74....... 28625

VA liberalizes eligibility requirements for tutorial train-

(Continued inside)

MEDICAL SCHOLARSHIPS—HEW authorizes grants to students agreeing to practice in physician shortage areas; effective 8–9–74...... 28729

WAGE DETERMINATIONS—Labor Department decisions for Federal and Federally assisted con-

PART IV:

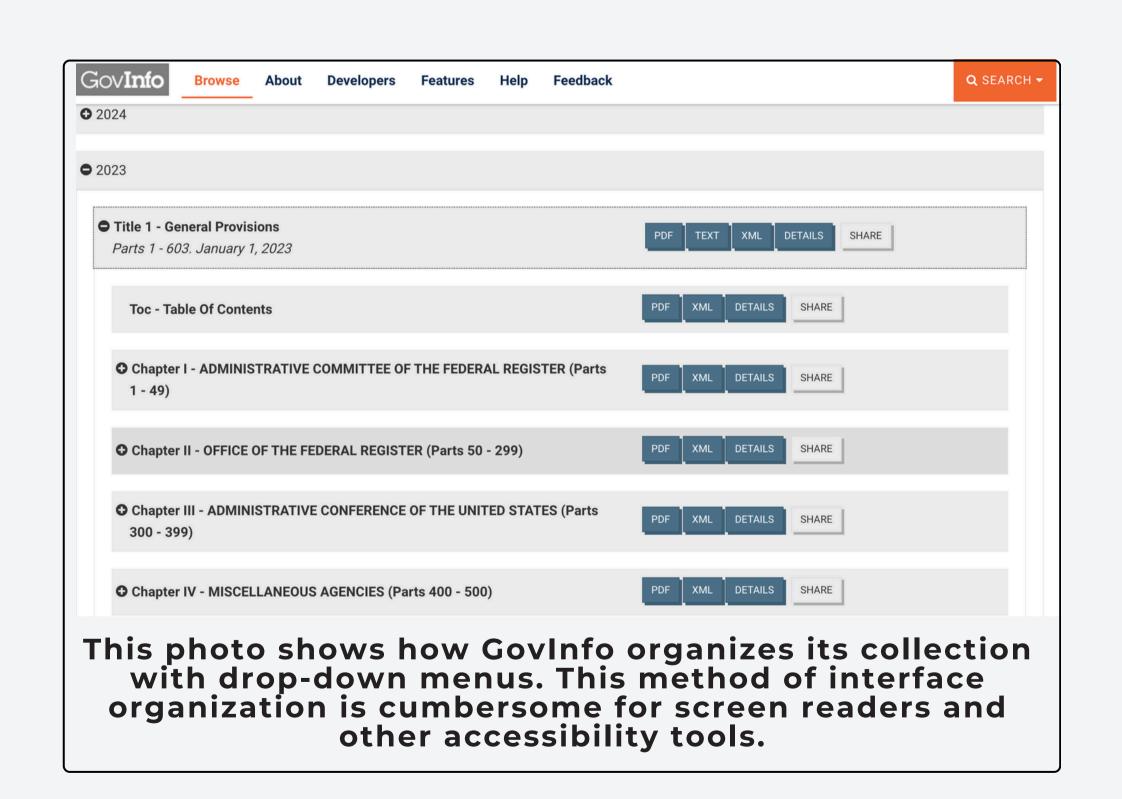
PETROLEUM ALLOCATION—
er relationships and allocation levels for aviation
fuels; comments by 8–22–74
FEA proposal amending reporting requirements and adjusting obligations and purchasing op-portunities for crude oil refiners (2 documents); comments by 8-23-74. FEA announces 8-19-74 as quarterly report filing date......

No. 155-Pt. I---1

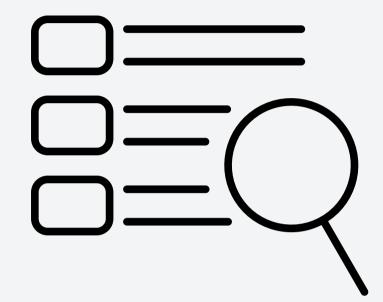
ADVANTAGES



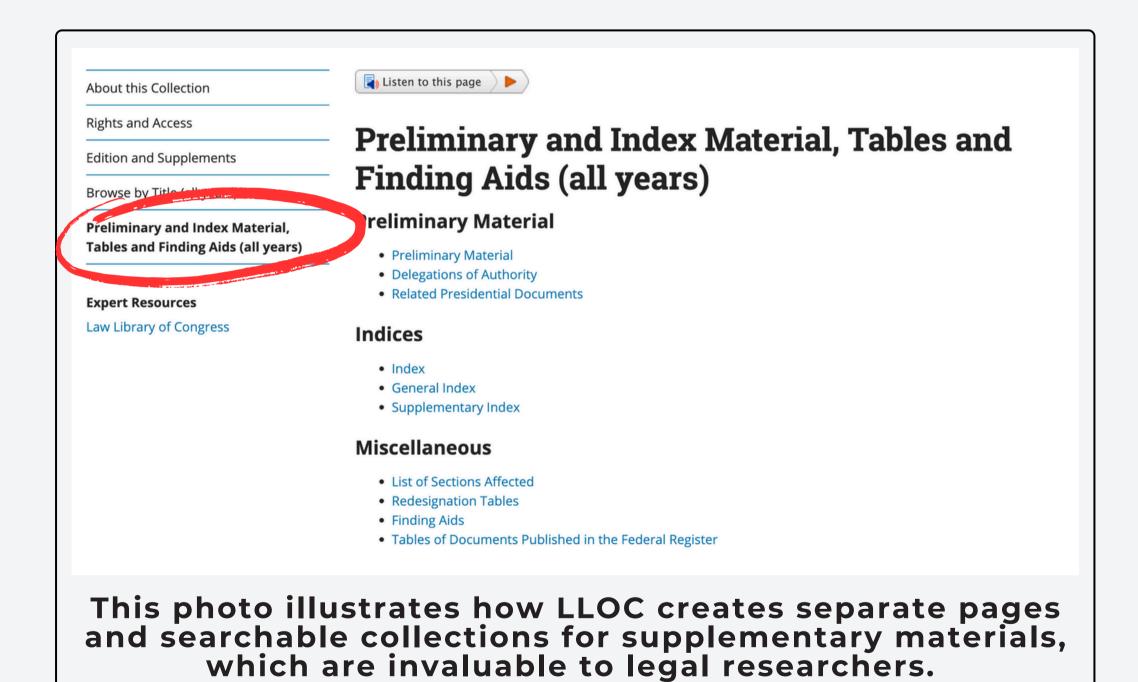
The overall organization of LLOC encourages users to navigate and browse more so than other FR / CFR collections.



ADVANTAGES

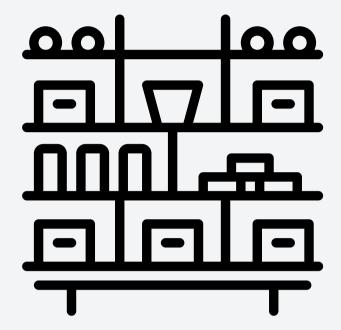


access to Indexes,
Preliminary Materials,
etc, by adding them to
navigable menus and
compiling the materials
in their own, searchable
collections.



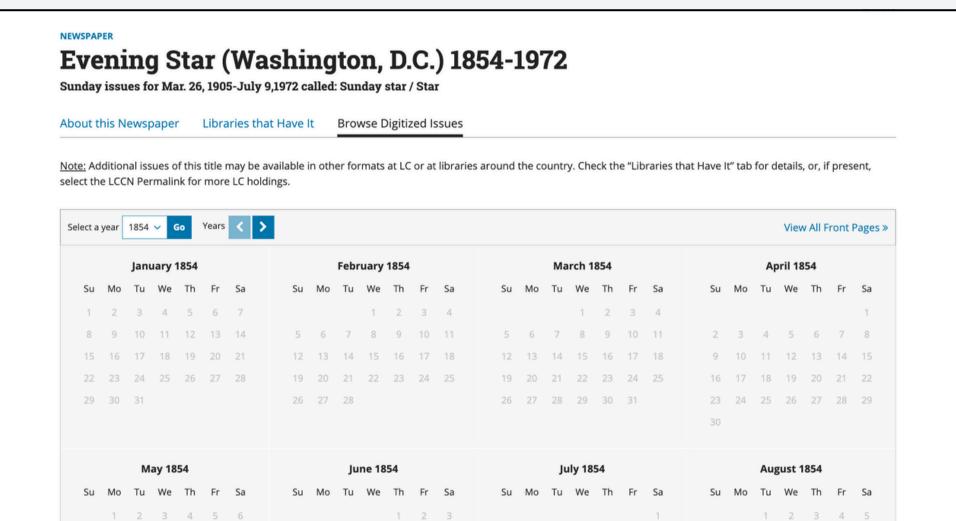
RECOMMENDATIONS

KEY INSIGHTS



- Lists of Volumes and Titles can be organized more logically through manual curation.
- The Federal Register can be reorganized like other newspapers in LOC, streamlining how users filter and browse items.

REORGANIZATION



This photo illustrates how FR periodicals may be organized with an interactive calendar view. This would be particularly helpful for users looking or particular dates.



- Subject metadata can be strengthened in different ways per collection.
- FR doesn't have differential subjects, rather "global" metadata to connect items to the greater LOC collections.
- Some subjects in CFR are redundant, or spelled incorrectly.
- There is subject metadata that is outdated and even offensive.

STRENGTHENING METADATA

Import and Export [2,777]

Imports and Export [1]

Imports and Exports [81]

Alcoholic Beverages [1,296]

Alcoholic Bevergaes [8]

Native Americans [5,066]

Indigenous Peoples [4,949]

American Indians [4,938]

Adult Indians [4]

REDUNDANT, INCONSISTENT, AND OUTDATED METADATA IS HARMFUL TO THE ACCURACY OF THE COLLECTION AND THE GROUPS REPRESENTED.

Created / Published

July 7, 1942 (Tuesday)

Headings

- Law
- Law Library
- United States
- Government Documents
- Government
- Executive Agencies
- Federal Register
- Administrative Law and Regulatory Procedures
- Executive Orders
- Federal Regulations
- Proclamations
- Agency Notices
- Periodical

THIS SET OF SUBJECT HEADINGS

APPEARS FOR EVERY ITEM RECORD IN

THE FR, WITHOUT OTHER, SPECIFIC

SUBJECTS. THESE SUBJECTS CONNECT

TO THE OVERALL LOC COLLECTION BUT

FAIL TO HELP USERS DIFFERENTIATE

BETWEEN ITEMS.

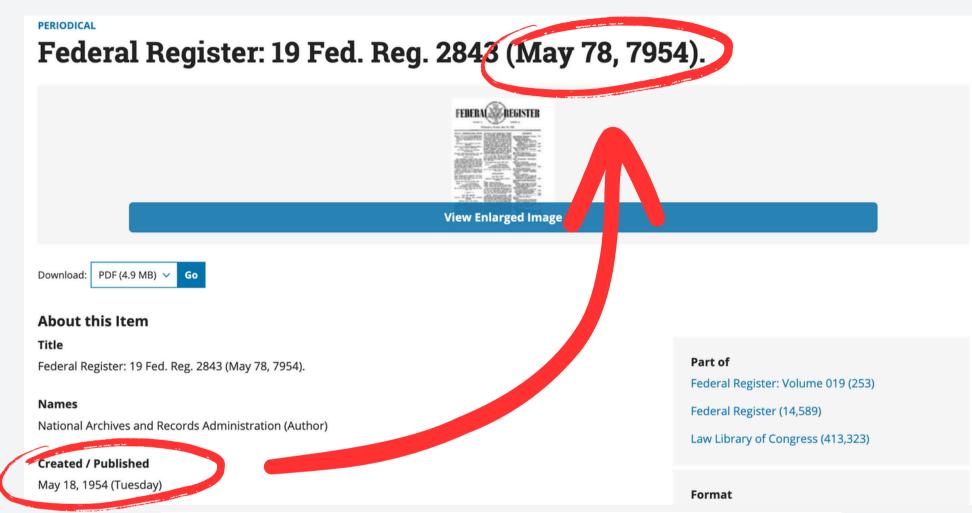


Checking individual records revealed that the OCR that captures the dates for items in the Federal Register had occasionally read the date wrong.

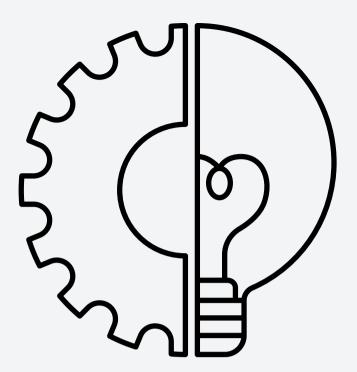
This affected the metadata for the date, title, citation, and more.

I found and recorded these errors in addition to my research on the collections, compiling the data and links to the item records in a spreadsheet for my sponsor to review upon presentation of my deliverable.

STRENGTHENING METADATA

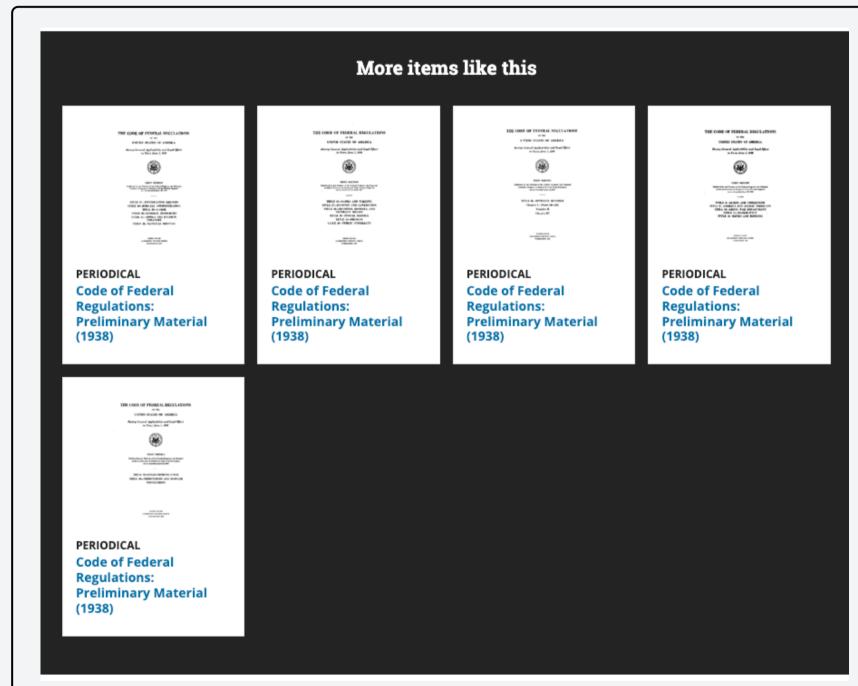






Interactive embeds, dynamic widgets, digital visuals, and Al encourage users to interact with the collections and can improve overall user experience.

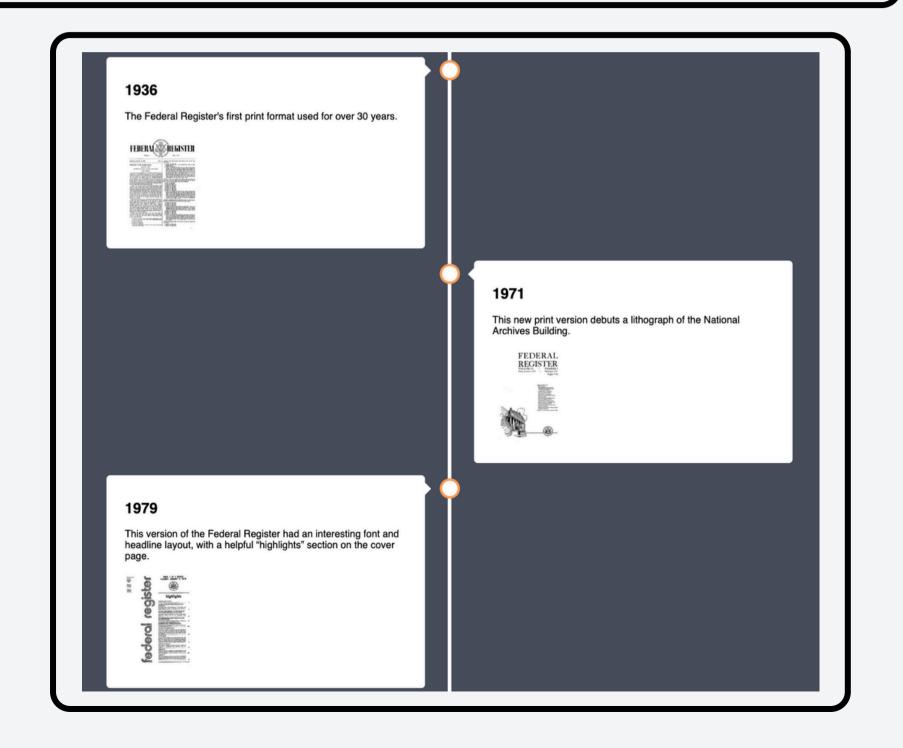
INNOVATING WITH VISUALS



The "More Items Like This" section is manually curated by LLOC librarians, but it can be automatically populated using Al.

I designed a timeline and video embed option using HTML code.

Below is an example of a timeline that librarians can create for the FR / CFR. This one is based on the different formats of the print FR.



Researchers can alternatively access the Law Library's webinar, <u>Orientation to Legal Research: Tracing Federal Regulations</u>, for more information.

Orientation to Legal Research: Tracing Federal Regulations



Share

<!DOCTYPE html>

<html>

Researchers can alternatively access the Law Library's webinar, Orientation to Legal Research: Tracing Federal Regulations, for more information.

<iframe src="https://www.loc.gov/item/webcast-9751/?&embed=resources" width="697"
height="600" frameborder="0" scrolling="no" allowfullscreen></iframe>

</html>

ARTIFICIAL INTELLIGENCE

Scan PDF records for Titles, subjects, themes, and relationships within the documents/collections.

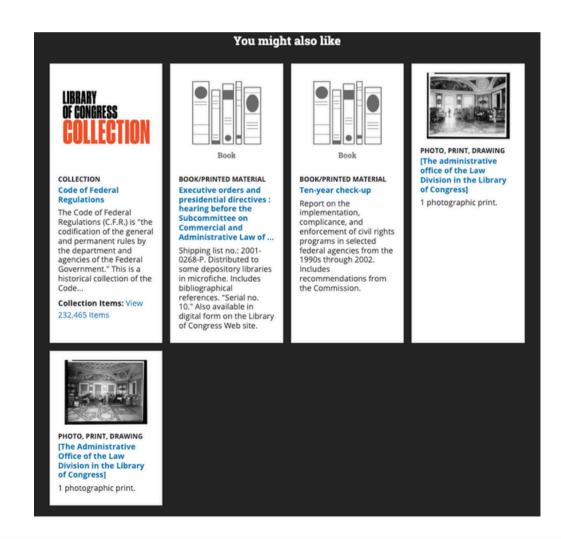
Make suggestions for dynamic featured content and the "More Items Like This" and "You Might Also Like" sections of item records based on the current page's content.

Analyze anonymous user feedback when LLOC librarians receive complaints or questions from users, and generate a list of highlighted problem areas, solutions, and a plan of action.

The 'Ask A Librarian' feature is rule-based, as opposed to AI-powered, and is available to LLOC as part of LibAnswers, but AI may be used to narrow user inquiries or answer FAQ questions during long wait times.

Detect patterns in the metadata or in scanned PDF files.





PROJECT BENEFITS



ACCESS

While large subscription services like Westlaw and Lexis offer great tools for law researchers, all organizations—especially smaller institutions and non-profits—can benefit from increased access to free resources.



ACCURACY

Finding and correcting errors with dates, titles, and citations ensures the validity of the records, in addition to providing better access to them.



More people can find and explore the collection, even organically. Timelines, visuals, etc., help increase general interest in the collections and LOC.



FUTURE PROJECTS

FUTURE INTERNSHIPS WITH JENNIFER GONZÁLEZ AND LLOC CAN FOCUS ON SUGGESTED PROJECTS AND DEVELOPING METADATA.

AMENDING ERRORS

TECHNICAL ISSUES WILL BE ADDRESSED FOR THE AFFECTED DATES, TITLES, CITATIONS, AND OTHER METADATA FOR 100+ ITEM RECORDS IN THE FR.

UPDATING ORGANIZATION

LONG-TERM PROJECTS, SUCH AS THE REORGANIZATION SOLUTION FOR THE FR, WOULD REQUIRE STRATEGIC PLANNING AND PROJECT MANAGEMENT FROM LLOC.

THANKYOU

FOR YOUR TIME