

## **GovInfo - Final Presentation**

Team Black-Oak Haoting Gao, Zehan Ge, Yian Gong, Xilei Liu

## Agenda

01 Introduction

Who conducted the test? Overview and purpose of this test.

1 Interaction Map

Main interaction flows of the website.

**1** Interview

How did we conduct the interviews? What are the findings?

3 Survey

How did we conduct the survey? What are the findings?

Comparative Analysis

How did we conduct comparative analysis?

Heuristic Evaluation

How did we conduct heuristic evaluation?

Usability Testing

How did we conduct the usability test?

Findings & Reflections

What are the findings and reflections of the previous three sections?

Next Step

What are the next steps?

1 Conclusions

Final wrap-up





## **Our Team**



**Yian Gong**UX Designer



**Zehan Ge**UX Designer



**Xilei Liu**UX Designer



Haoting Gao UX Designer



## Introduction

#### GovInfo.gov Overview

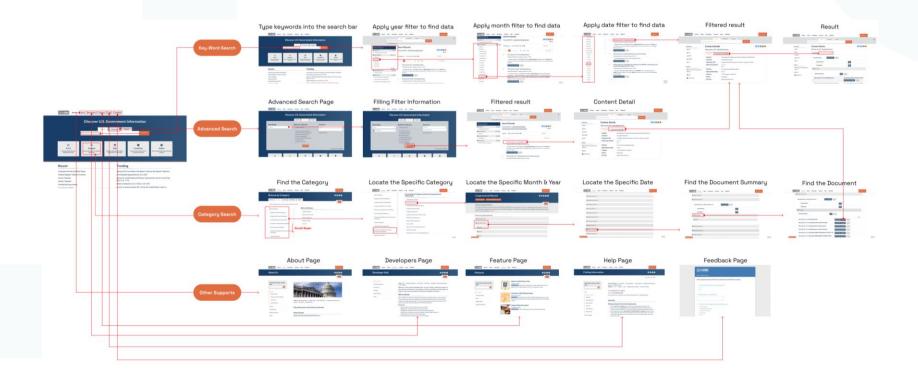
GovInfo.gov provides the public free access to an extensive collection of official publications from diverse branches of the Federal Government.

#### Project Purpose

Our team was tasked with conducting comprehensive research to assess the overall usability of GovInfo.gov.



## **Interaction Map**





User Needs Assessment



## **Interviews**



√ 5 Total Interviews

√ 1 Stakeholder Interview

✓ 4 Streaming Users Interviews

#### Persona



## **Jennifer Tylor**

43 years · University Librarian

Active Hard working Productive

Verbatir

I have worked as a librarian for 23 years and an entry level programer.



#### **Ben Harrison**

37 years · Government Employee

Caring Proactive Open-minded



I've been working in the government sector for a while, and familiar with government terminology.



#### **Anna Mason**

60 years · Government Librarian

Experienced Hard working Rigorous

Verbatim

I have worked at government tax department for 25 years and have a a lot of experience with government documents.

Reminder: Each persona is fictional, not real person





## User Needs



### **Jennifer Tylor**

43 years · University Librarian Hard working Productive

- Providing access to high-quality information resources
- Promoting information literacy



#### **Anna Mason**

60 years · Government Librarian

Experienced Hard working Rigorous

- Easy sharing link: Sharing long documents effectively is very important
- Consistent monitoring of new publications



#### **Ben Harrison**

37 years · Government Employee

- Accurate search filters to narrow down results.
- Easy and accessible guides to search methods.



#### **Pain Points**



Jennifer Tylor

43 years · University Librarian

- Inconsistencies in search algorithms across platforms
- It's hard to find the share button to share digital version and copy





- Difficulty finding specific publications
- Lack of access to some publications
- Unfamiliarity with archives and search techniques



Ben Harrison
37 years · Government Employee
Caring Proactive Open-minded

- Lack of accurate filters
- Unfamiliarity of search methods



## Survey



√ 123 valid answers to the survey

✓ Demographic Information

✓ Browsing Habit



## **Demographic Data**

- 90% + of users work as Librarian
- 50% + of users are > 50 years old
- 90% + of users have a master degree

Gov**Info** 

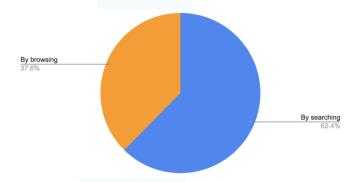
### **Browse Habit**

- 70% + of users use GovInfo.gov at least once a week
- Users also use congress.gov and Heinonline.com most frequently to find governmental documents.

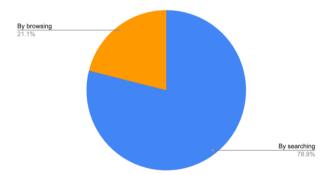


## Survey - Insight 1

The method preference for those who are satisfied with search time(%)



The method preference for those who are not satisfied with search time(%)

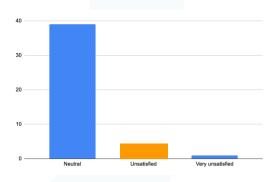


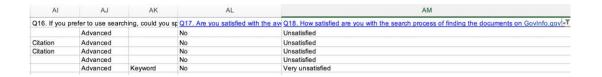
- People who are unsatisfied with the search process (15%) of finding the documents have a larger percentage of using search method to find the document that those who are satisfied. This may imply that the time it take to use search method to find a document may contribute to their dissatisfaction.
- We only found that they were not satisfied with the search time according to the questionnaire, but we did not specifically analyze why they were not satisfied with the search time. This is where further research might be needed.

## Survey - Insight 2

Gov**Info** 

#### Satisfaction with the search process





• People who have a dissatisfied attitude with the document searching process (4%) all prefer to use the advanced search function.

# **Usability Evaluation**



## **Comparative Analysis**

#### Why did we do?

Examining GovInfo.gov's competition and reveal what's good and bad about it.

Help us get a better sense of what features and qualities are expected among products in a similar space.

#### What did we do?

Compared GovInfo.gov with 7 competitors and developed a scaled matrix on the presence of 8 main features.

Employed 3 criteria to assess each feature on each competitor: not supported, supported but lacking necessary functionality, and fully supported with exemplary functionality.



## **Competitors**

 Direct Competitors
 Indirect Competitors
 Parallel Competitors

 Heinonline.com
 Librarian
 Jstor

 ProQuest Congressional
 Regulations.gov

 Analog ous Competitors

 congress.gov
 ChatGPT

 library of congress
 ChatGPT



#### **Nielson Norman's**

### **Heuristic Evaluation**

Visibility of System Status

Recognition rather than Recall

Match Between System & Real World

Flexibility and Efficiency of Use

**User Control and Freedom** 

Aesthetic and Minimalist Design

Consistency and Standards

Help Users with Errors

**Error Prevention** 

Help and Documentation





## **Usability Testing**

Usability testing is an effective method to observe how users interact with a product features and identify areas for improvement.

✓ pre-test questionnaire

√ 6 usability testing with 1 pilot test

/ post-test questionnaire



What did we find?



## What does GovInfo.gov do well?

01

Clear and consistent layout

Every block of information is well organized and provided everything users might need.

02

The homepage is clear

"The front page is fantastic with the timely features and then the popular and recent documents. It's almost everything I need on a regular basis."

03

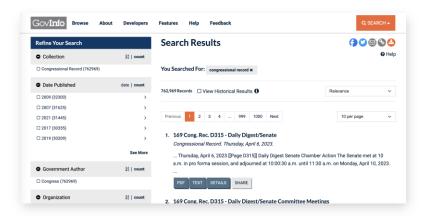
Effective and intuitive browse function

"It is organized well, and especially like the browse function. It is logical and intuitive."

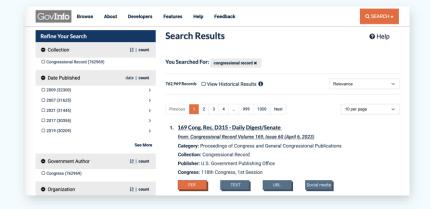




## Search Results Page Redesign



Before After







## Finding 1.1

O Information architecture of introduction section is not very informative as it lacks unique identifier.

"I would expect to find all information that can uniquely identify with the proper hierarchy' on the results page."

1. 169 Cong. Rec. D315 - Daily Digest/Senate

Congressional Record. Thursday, April 6, 2023.

... Thursday, April 6, 2023 [[Page D315]] Daily Digest Senate Chamber Action The Senate met at 10 a.m. in pro forma session, and adjourned at 10:00:30 a.m. until 11:30 a.m. on Monday, April 10, 2023.

...

PDF TEXT DETAILS SHARE

### **Recommendation 1.1**

- ✓ Add unique information for the document & remove less efficient information
- √ Redesig n icons



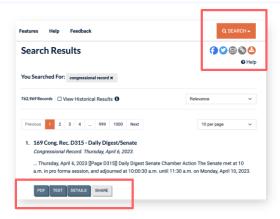




## Finding 1.2

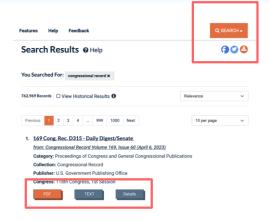
 The "link" and "email" icons are hardly used, leading to inefficient organization.

"I never use the email icon to share documents via email because there is a risk that your email would be in junk folder."



### **Recommendation 1.2**

- √ Reorganize the arrangement and composition of the icon.
- √ Removed ' link' and ' email' icon







## Filter Redesign



Before



After

## Finding 2.1

O The "date" filter is displayed in "count" sequence rather than in "date", it led confusion to the users. Users are more comfortable with date-related items being arranged in chronological order.

"I don't know why it is shown in "count", showing in date sequence makes more sense to me."



## Recommendation 2.1

- √ Change the default display to "date" from "count"
- √ Add sort from latest to oldest and vice versa







## Finding 2.2

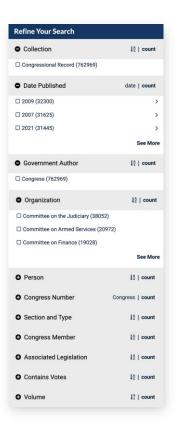
O All the filters are expanded on the search result page, which extend users' browsing time unnecessarily.

Compared with its competitors, GovInfo.gov expands all the filters all at once. It might be unnecessary for users to see all the filters for one time because they will not use all of them.

## Recommendation 2.2

- √ Display the first prioritized 4 filters, with 3 items expanded
- ✓ Fold other filters below and let the users expand based on their needs



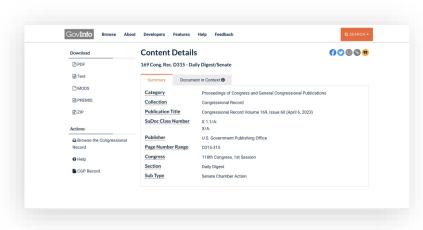


Before

After



## **Content Detail Redesign**



Browse About Developers Features Help Feedback Home > Proceedings of Congress and General Congressional Publications > Congressional Record 99 Citation S Link Share 169 Cong. Rec. D315 - Daily Digest/Senate Download Document in Context 6 Category Proceedings of Congress and General Congressional Publications Congressional Record Congressional Record Volume 169, Issue 60 (April 6, 2023) About Collection SuDoc Class Number X 1.1/A: ☐ Browse Congressional Record Publisher U.S. Government Publishing Office More on Congressional Record CPG Record Congress 118th Congress, 1st Session Daily Digest Sub Type Senate Chamber Action

Before After





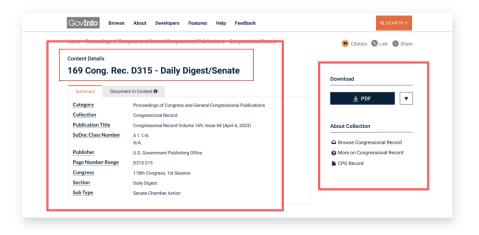
O Giving visual prioritization to the "title" and download options, may not align with the users' intended purpose for visiting the page.

"What catches my eye in the 1st place is, out of obviously where it says content detail"

"This whole area here (on the left) is easy to miss ... a lot of my students miss that when they're in the details, (the button) to get to the PDF is right there."

### **Recommendation 3.1**

- √ Change the layout of "left download right summary" to "left summary - right download"
- ✓ Instead of bolding the "Content Detail", change to bolding the actual document title.





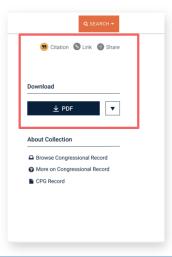
- The sole use of the icon may not tell enough information about the function
- The use of icon and buttons should prioritize what users used most often. eg: prioritize most used download option, prioritize function users find most useful

All participants prioritize to download the PDF version of the document.

"(the quotation mark) is handy but I never get it .. for me it's not intuitive. What you need is some information that pop up when you hover over, it that tells you what that does"

### **Recommendation 3.2**

- ✓ Prioritize the PDF download option, make it more salient, and hide other options in the drop button.
- ✓ Add text to all icons and prioritize the citation icon over the others and hide other share options under "Share".







 The ordering of information should follow some standards like prioritization of information or specificity.

"I don't think it is (intuitive). My students get confused a lot. I would put publication title at the top."

"I would de-prioritize the SuDoc class number for users like that is a niche piece of information."

## **Recommendation 3.3**

√ reconsider the ordering of summary items



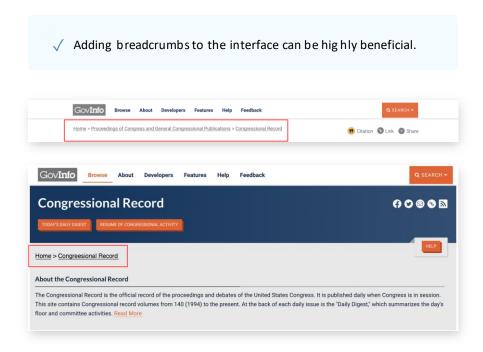




- The user often struggles to determine their current location within the website's hierarchical structure and finds it difficult to navigate back to previously visited pages.
- There is no way for users to track what pages they passed just now and go back.

"I don't know how to go back to the previous page. I don't know where I am now. I can only go back to the home page and repeat the search process."

### **Recommendation 3.4**







The help page should guide users to find what they need.



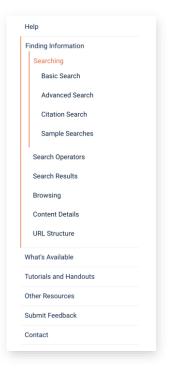
## Finding 4.1

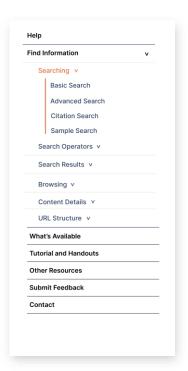
O The navigation should tell enough information of what to expect under each section.

"I do not know what's under this (menu)"

- Restructure the help navigation and use color and font weight to differentiate layer.
- Add arrow when to signify that the section is clickable.

### **Recommendation 4.1**





Before After





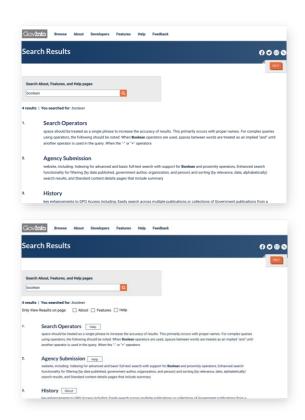
## Finding 4.2

O The search does not tell user of enough information what they are searched for.

Heuristic evaluation revealed that users might lose control over what they are searched for.

- √ Allowing users to search within a specific category.
- / Indicate where the search results come from.

### **Recommendation 4.2**



Before

After





## Reflection

Biased Participants: The finding s may be biased since most of our participants are professional librarians. Our finding s may not cover the needs of the general public.

**Lack of Testing:** Our redesigned interfaces were not subjected to usability testing and lack proper verification, which limits their usability. However, they can still be used as a reference.

O3 Uncovered: We have not covered everything from our research, but points we consider as significant and frequently mentioned.

**Uncovered:** We have received feedbacks for content updates. eg: unable to know if documents are updated, confusion on naming conventions etc. But not included due to scope of the project.



04

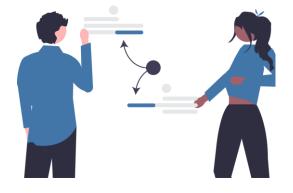


## Next Step

√ Make an action plan based on available resources.

✓ Implement!

√ Consider conducting periodic user testing





## **Summary**

01

02

We did usability assessment for GovInfo.g ov. It includes:

- Interview
- Survey
- Competitive Analysis
- Heuristic Evaluation
- Usability Testing

Based on our findings from all of the research, we suggest GovInfo.gov pays more attention to the details of UI elements, information hierarchy and content in the future to make it more perfect.



