

Discovery and Access Project: How do academic library users navigate the path from discovery through to access?

- What do academic users do when searches don't result in fulfillment?
- What differentiates searches that lead to access from searches that don't?
- What demographic characteristics influence the access of users?
- How does access correlate with success?



Methodology

- We want to understand aggregate user behavior to inform impact and roadmap prioritization
- However, we also want to understand the 'why'

How do we get the best of both quantitative and qualitative research methods? **Combine them!**

Tandem use of log analysis and user interviews. Librarian Resource Sharing interviews, too.

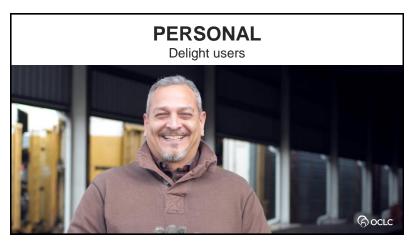
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HIGH LEVEL DISCOVERY AND ACCESS FINDINGS

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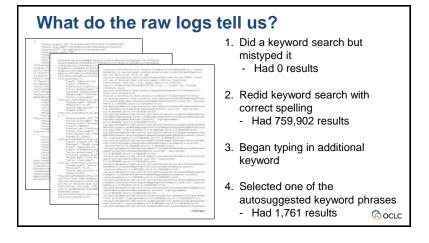


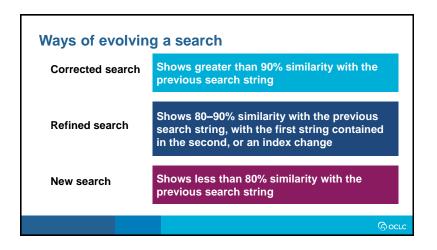
WORLDCAT DISCOVERY SEARCH LOG ANALYSIS

"Log analysis is everything that a lab study is not."

Jansen 2017, 349)

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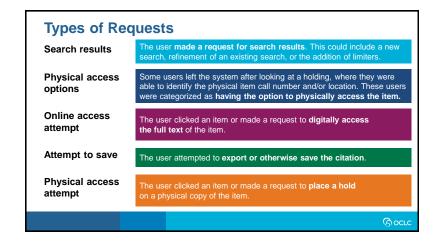


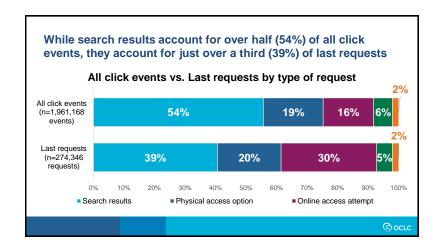
Summary of results

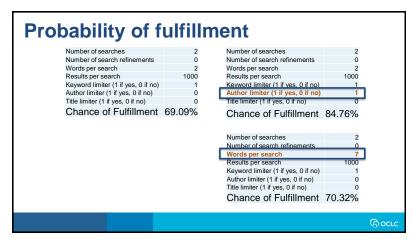
- Average of 5 minutes per session
- Average of 2.2 searches per session
- Average of 5.1 words per search
- 12% of sessions had search refinements
- 33% of sessions had multiple searches

n=282,307 sessions

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USER INTERVIEWS

"User interviews can help capture search and discovery behavior as the user understands it, rather than as a computer system understands it."

(Connaway, Cyr, Brannon, Gallagher, and Hood 2019,



Example questions

- "Please tell us what you were looking for and why you decided to do an online search."
- "Did the item you were searching for come up in your search results? In other words, did you find it?"
- "I'd like to understand how you felt about your search experience overall. Would you say you were delighted with your search experience?"

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What do the interviews tell us?

What 'just the logs' told us:

- Began keyword search but mistyped it
 Had 0 results
- Redid keyword search with correct spelling
 - o Had 759,902 results
- Began typing in additional keyword
 Selected one of the autosuggested phrases
 - o Had 1,761 results

What logs and interviews told us:

- Just starting work on a paper on a broad topic; didn't yet have a direction for the paper
- Was overwhelmed with number of search results
- Abandoned "library search" to do "Google searching" to better determine a direction for the paper
- Later came back to the library search and found it useful
- Also received help from student workers in the library
- Felt "prepared" to use the library search due to 1st-year library instruction



METHODOLOGY CHALLENGES AND BENEFITS

"The methodology used for this study also could be extended beyond discovery systems. Other computerized activities that leave digital traces could be studied using interview protocols based on log analysis."

(Connaway, Cyr, Brannon, Gallagher, and Hood 2019)

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Challenges of methodology

(Tandem use of log data and user interviews)

- Resource intensive
 - Time consuming Multiple team members Multiple IRBs
- High level of expertise required



Benefits of methodology

(Tandem use of log data and user interviews)

- Provide context for quantitative data
- Clarify qualitative data
- Most effective when digital traces are present

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Impact of Study

- · Collaborate internally in new ways
- Identify why and what users did during the search and when acquiring resources
- Develop a new methodology for studying user behaviors
- Influence product and system development



