

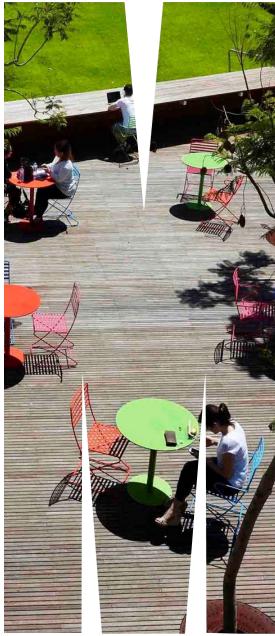
What do Primo users want?

or finding evidence to understand user behaviour in Primo

Megan Lee & Rachelle Orodio

IGeLU 2019





PROJECT DRIVERS

Most important	Rank
Library staff provide accurate answers to my enquiries	1
I can get wireless access in the Library when I need to	2
I can get help from Library staff when I need it	3
The Library Search facility enables me to find Library resources quickly (PRIMO)	4
Access to Library information resources has enabled me to perform better in my studies	5
Online resources (e.g. ejournals, databases, ebooks) meet my learning and research needs	6
When I am away from campus I can access the Library resources and services I need	9



USER FEEDBACK

- The online portal for accessing journal articles is very slow and bulky.
- Accessing articles through the library search portal takes way too many steps.
- Online resource availability tends to be very good although search results can be hard to navigate.
- Some links online for certain articles link to a different article, it makes it hard to find the actual journal article you need when the links don't work



STRATEGIC OBJECTIVES

- Develop discovery and access pathways to information
- Enhance the online Library environment



PROJECT OBJECTIVES

- Investigate if Primo user interface usability is improved by focusing on heavily used screen elements
- Investigate if Primo user interface usability is improved by simplify the number of elements present in the Primo screen design
- Based on user feedback, investigate if Primo search results are more relevant when search metadata is simplified
- Improve Primo search results by analysing zero search results
- Investigate user acceptance of FRBRisation
- Investigate user acceptance of application plug-ins to extend Primo functionality, eg Browzine integration at detail results screen



SUCCESS FACTORS

- Improved feedback on Primo usability in 2019 Library user survey (in progress)
- Improved Primo user search metrics in 2019 Library Annual Report (in progress)
- Improved user feedback collected either directly during three month post implementation survey or via ask.monash
- Positive feedback from Road Shows conducted at various branches, reported to IRSC and LMC as a result of Primo usability review
- Data collected from embedded feedback utility, as a basis for the three month post implementation review



\dashv		Preparation	1	Analysis	Communica	ation	Testing	Maintenanc	Developme	nt	RELEASE
7	August	_		_							
	Sptemb	feu ew available Primo user Vaviour	IVIIL	E 51		E 5					
	October			Analyse past user behaviour log data	Report on Primo user patterns in log analysis to SDS &						
	November	Build Primo beta test environments									
	December	Build Primo beta test environments	Develop user testing scenarios					Install November Primo Service Pack			
8	January	Build Primo beta test environments									
	February		Develop user testing scenarios								
	March	Test and evaluate third party plug ins					impiement				
	April						First round of user testing				
	May			Analyse First round of user testing	Report on first round user testing to SDS &						
	June								Update Primo configuration based on first round of	Add in third party plug in for user testing	
	July						second round of user testing	Install May Primo Service Pack			
	August			Analyse second round of user testing	Report on second round user testing to						
	September						Test new Primo User Interface in Innovation Studio		Update Primo configuration based on second		
	October				report on results of Innovation studio testing to				Update Primo look & Feel based on Innovation		
	November				Implement user	to alert all			Embed user feedback tool in new Primo Ul		
7	December	RELEASE	RELEASE	RELEASE	RELEASE	RELEASE	RELEASE	RELEASE Install	RELEASE	RELEASE	RELEASE
ام	January							November			

P



PRIMO USER BEHAVIORAL TRENDS

- a year's worth of Primo splunks
 usage logs from our Primo server
- Primo and Alma analytics and



Google analytics





RESEARCH DATASET 1

https://tinyurl.com/y5k4nzr4





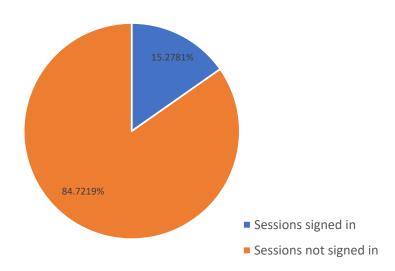
RESEARCH QUESTIONS

- How do users search in Primo?
- Where do they start their searches?
- Which screen elements do they use most heavily, and which they ignore and
- What can we understand from how users structure their searches?



Primo landing page







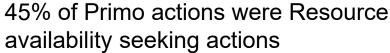
Primo result refining function categories

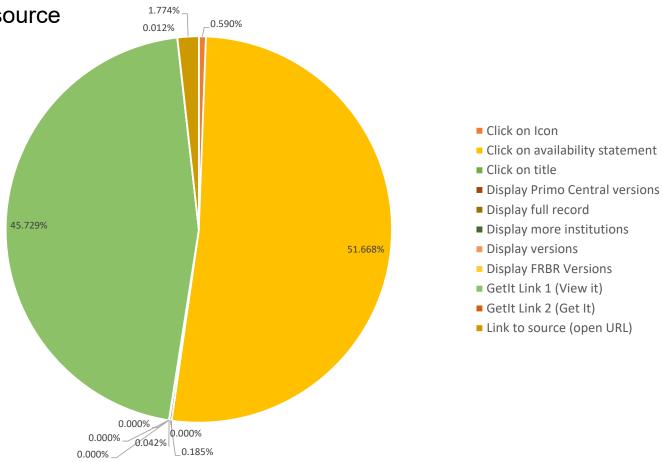
- 1. Narrowing search results
- 2. Broadening search results
- 3. Personalising search results and
- 4. Saving search results or user information for reuse



Navigating brief results

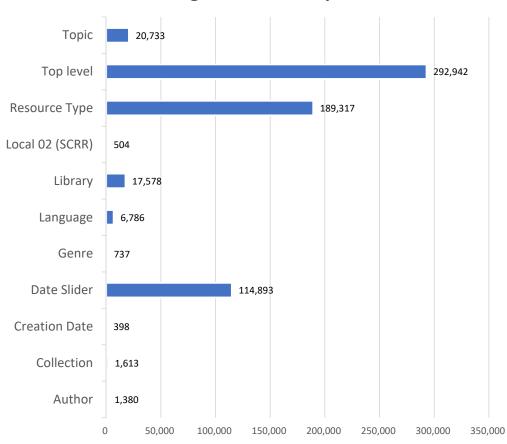
Resource availability seeking actions



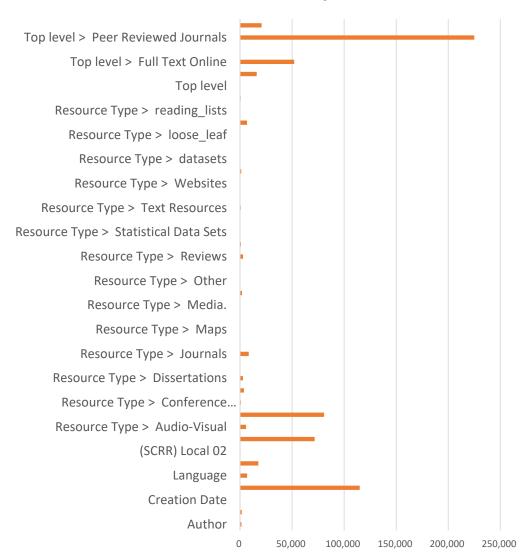


Narrowing by facets

Refining search results by facets



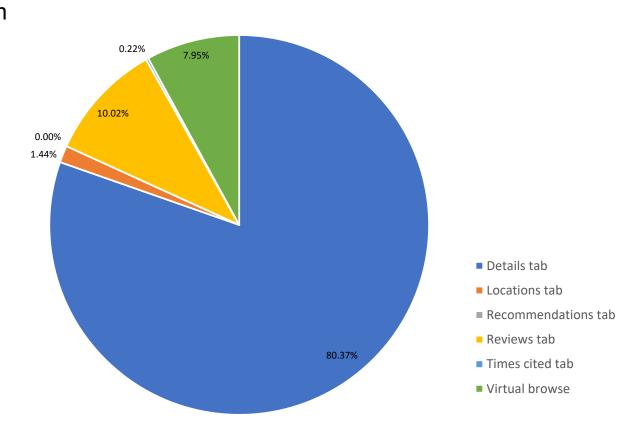
Search results filtered by subfacet



Narrowing by Item details

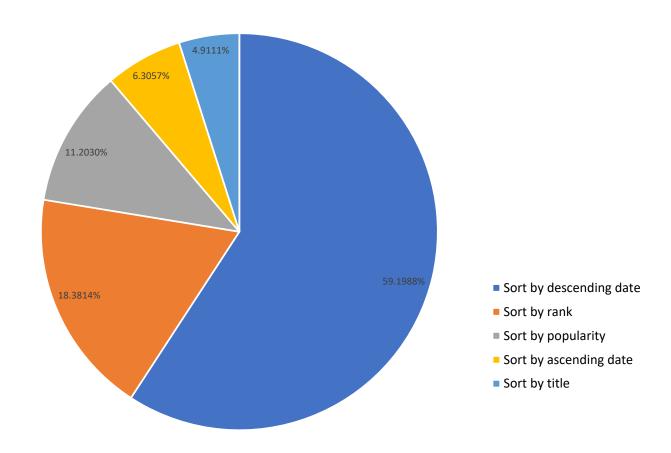
5% of Primo search actions were "Item detail" refining actions.

Item detail information



Navigating by sorting

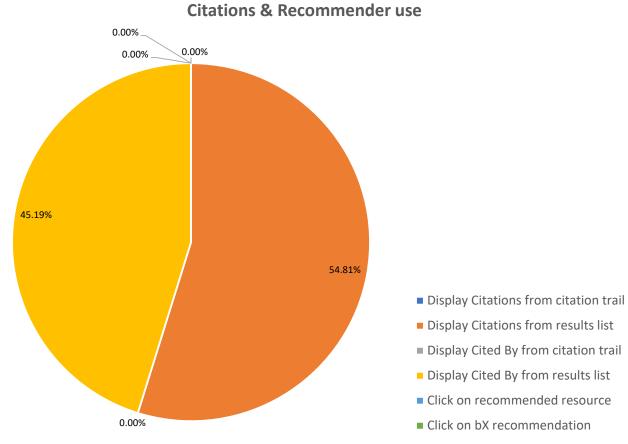
0.35% of Primo search actions were "sort by" actions.



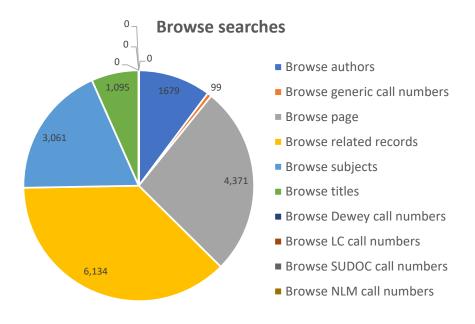
% sorts

Narrowing by citations & recommender

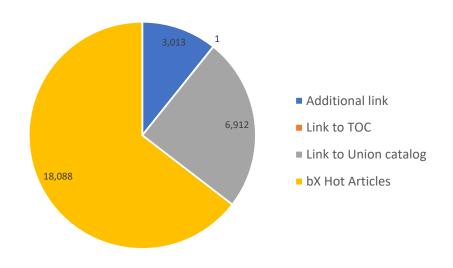
0.1% of Primo search actions were Citation & recommender activity



Broadening search results

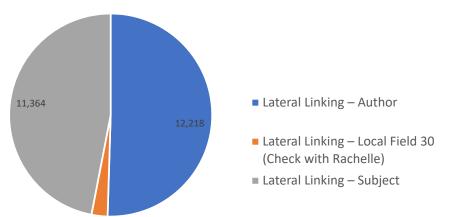


Enrichment linking



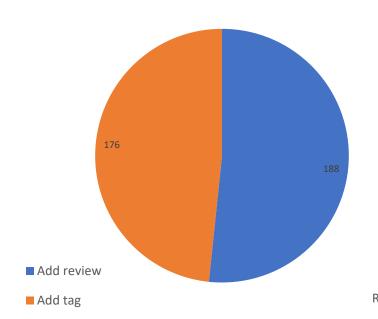
Lateral linking

618

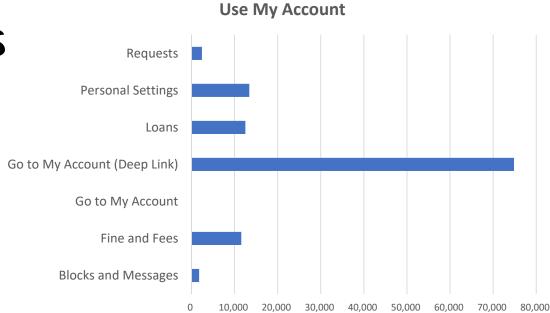


Personalise search results

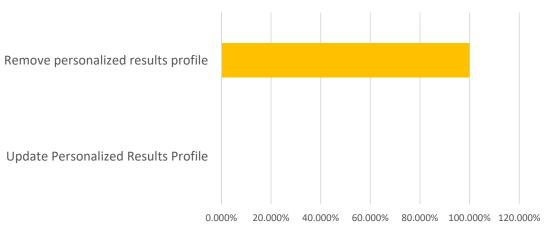




Source Primo analytics



Use personal profile



Source Primo analytics

Reusing search results

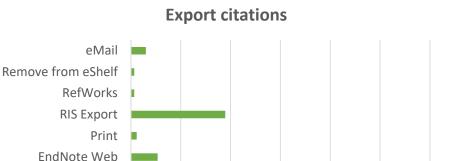
EasyBIB

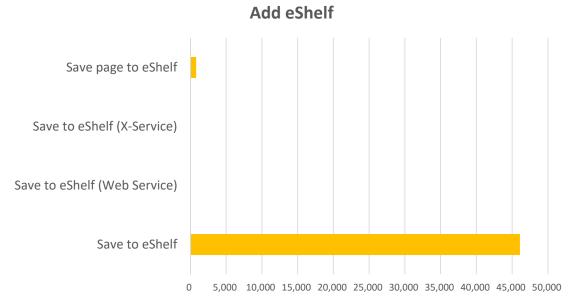
Delicious

Citation

0

10,000





Save session or Saved query

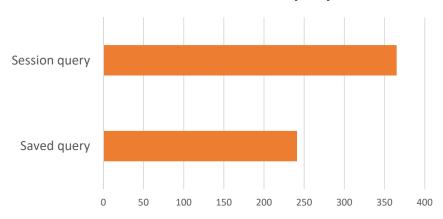
20,000

30,000

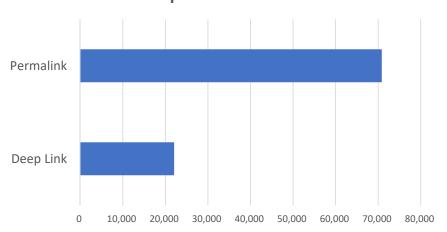
40,000

50,000

60,000



Deep link & Permalink



Analysis of user search strategies

- 44% of user searches are two to four words long.
- 69% of searches are either under seven words long
- 14% of searches include more than fifty words
- Most searches are fairly simple, eg 'marketing mix' is the most commonly occurring search term
- 1.13% of all searches were unsuccessful



Library discovery application hierarchy



Text & Data mining: primary users, postgraduates & researchers

Database discovery: primary users, undergraduates, postgraduates & researchers







Primo discovery: primary users, undergraduates

Google discovery: primary users, first year undergraduates

Google Scholar



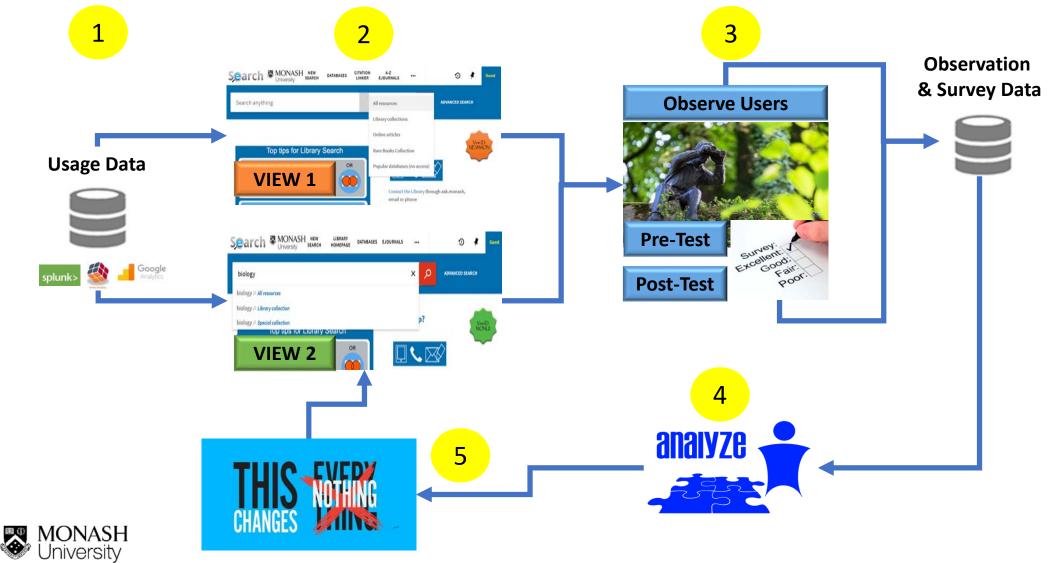
PRIMO ENVIRONMENT

- Primo since June 2010
 - Direct Hosted Back Office (can SSH),
 - 3 Alma Institutions and 1 Primo Instance with 3 Views
 - Multi-search scopes
 - Alma & PCI + 3 additional local data sources.
 - Authentication: SAML Okta (Multi-factor authentication)
- 2.1M Electronic + 1.6M Print Bibliographic Records
- 78K Students, 17K Staff, 206 Library staff
- 4.1M physical visits to the Library





PRIMO UX TESTING PROCESS



VENUE OF UX TESTING SESSION



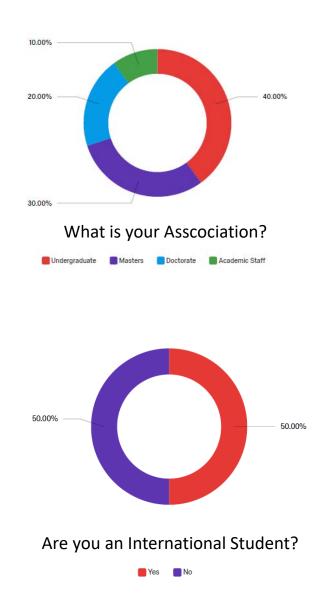


The observation setup at the Monash University Innovation Studio & Monash University Caulfield Library.



USER DEMOGRAPHICS

- Faculties
- Year levels
- Local and International Students
- English as their first language
- Years at Monash





UX TESTING KITS:

- Test scenarios:
 - Known title
 - Subject
 - Journal article
 - Resource Type
 - Call Number
 - Availability
- Qualtrics Pre-testing Survey
- Qualtrics Post-testing Survey
- User Consent Form
- Observers questions





https://tinyurl.com/y4fgwhhx



PRE-TESTING SURVEY



Q. WHERE TO SEARCH FOR AUTHORITATIVE INFORMATION?

1. First preference

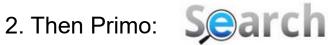


& discipline specific databases:









3. Discipline specific databases:





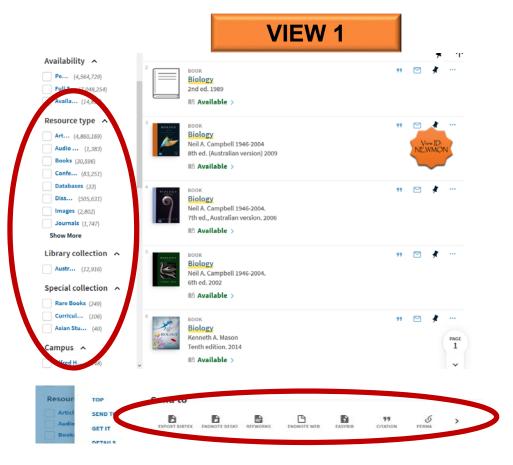


ScienceDirect



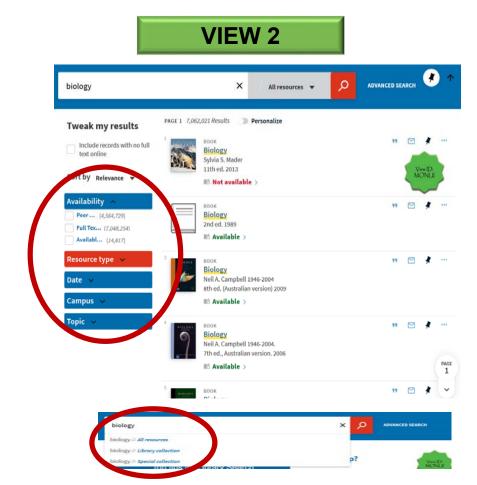


POST-TESTING SURVEY



Facets, Scopes, design similar to Classic UI





VS

• Simplified & striped down view

POST-TESTING SURVEY





Feedback on the views

- 6 users noticed the difference
- 5 users strongly agreed that View 2 was easier to find resources in.
- Most useful features:
 - Advanced search
 - Favourites;
 - and Citation Link to Styles (e.g. APA/MLA etc)





QUANTITATIVE + QUALITATIVE



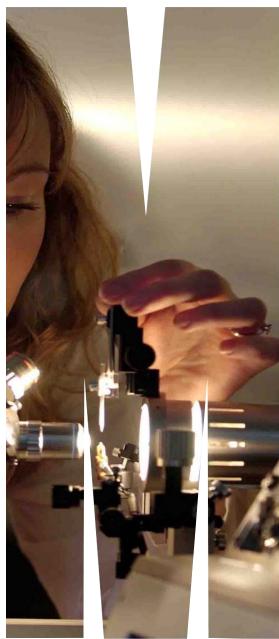




Primo Analytics







USAGE DATA + OBSERVATION (Sign-In)



2



UX Observations:

 Users did not sign-in unless they needed too (e.g. check loans, read an article)





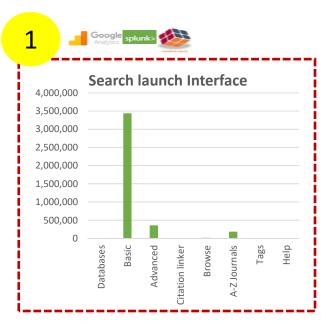
Recommendations:

- Educate users to sign-in
- Auto-login users when clicking on Primo.





USAGE DATA + OBSERVATION



2



3



UX Observations:

- Basic search was mostly used by users
- There were a few individuals who used Advanced Search.
- However Google Scholar is their preferred searching tool.

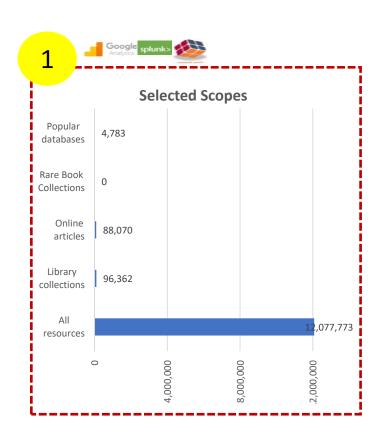
Recommendation:

 Modify the embedded search box in the Library homepage to allow multiple ways users can run searches





USAGE DATA + OBSERVATION (Scope)





UX Observations:

- Most users use the default All Resources scope.
- The auto complete search box helped make the scopes visible.







Recommendations:

- Use the auto complete search box to make scopes more visible
- Rename labels to make the scope clearer





USAGE DATA + OBSERVATION (Facet)

Primo facets that narrow search results (Usage logs): Searches refined by facet Country (L1) 3,080 Creation date 4,688 6.150 Domain 8,449 12,342 Unknown facet 12,941 26.551 FRBR group 40,584 46,102

775,615

500,000 1,000,000 1,500,000 2,000,000

1.765.392



UX Observations:

- Users preferred the expanded list of facets
- However facet navigation was limited



- Pee... (4,835,144)
- Full T... (7,540,293)
- Availa... (14,875)

Resource type ^

- **Arti...** (5,184,206)
- Audio V... (1,417)
- **Book Chap...** (93)
- Books (30,742)





Recommendations:

- Strip down the facet list but keep it expanded.
- Use the top 5-6 used facets.





Library

Date Slider

Show only (Top level)

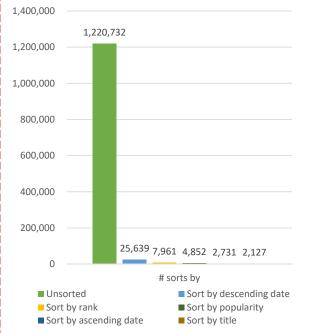
60,179



USAGE DATA + OBSERVATION (Sorting)

Google splunk>

Primo sort-by options to narrow search results (*Usage logs*)



2



UX Observations:

- Confirmed that users do not change sorting order
- Default location wasn't visible







Recommendations:

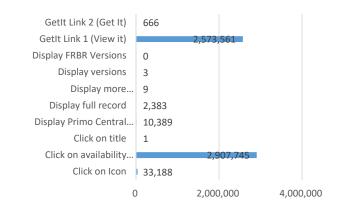
- Move the location of sort-by so it is visible
- Educate how to use sorting feature
- Understand what relevance ranking means
- Educate how to identify new materials



USAGE DATA + OBSERVATION (Availability)

1 Google splunk>

Primo availability information (*Usage logs*):



2



UX Observations:

 The lesser the clicks the better



 Have location & availability on the brief results page



BIOOK Biology Neil A. Campbell 1946-2004. 7th ed., Australian version. 2006







Recommendations:

- Display location & availability information on the same page
- Educate users about Sign-in to make better use of this function.



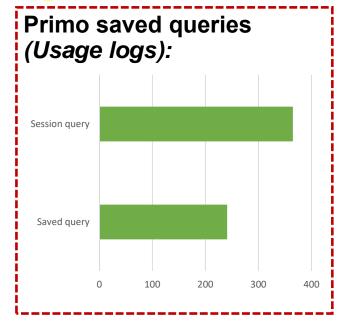
BOOK
Biology
Kenneth A. Mason; Jonathan B. Losos author.; Susan R. Singer author.; Peter H. Raven author.; George B Johnson (George Brooks), 1942Tenth edition.
2014

Available at Bundoora General Collection (570 M398 2014) and other locations >



USAGE DATA + OBSERVATION (Saved Query)





2



UX Observations:

 Users are not familiar with the Saved Queries & Session Searches feature.



Recommendation:

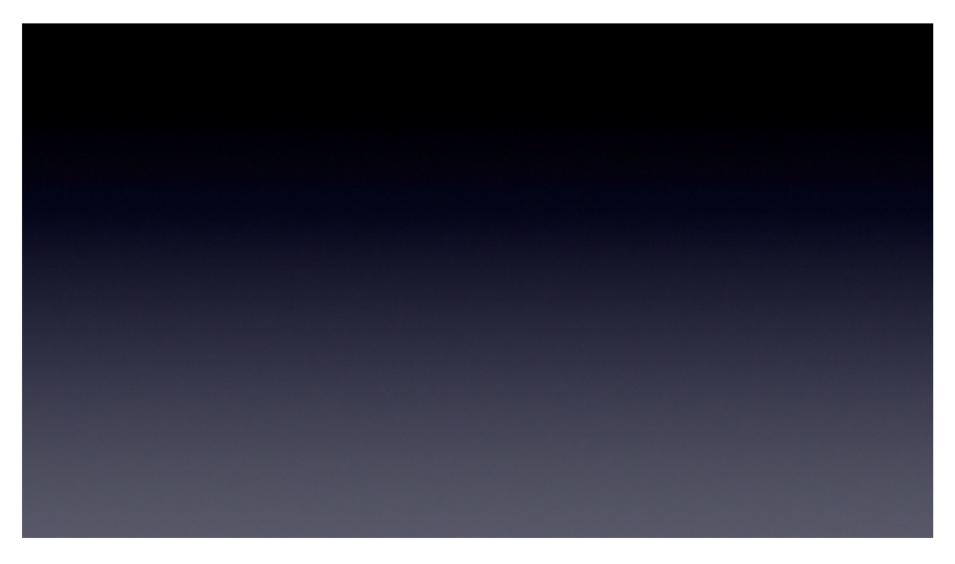
 Educate users on how these features can help them.



My Favorites	î
SAVED RECORDS	SEARCH HISTORY
1 search querie biology scope: Defau	ılt / All resources



UX TESTING: OBSERVER'S PERSPECTIVE



UX TESTING (2nd ROUND)

CHANGES MADE INCLUDED:

- Location information
- Browzine plugin
- FRBR
- Normalization Rule changes particularly for search fields





UX TESTING (2nd ROUND)

CONFIRMATION OF INITIAL FINDINGS

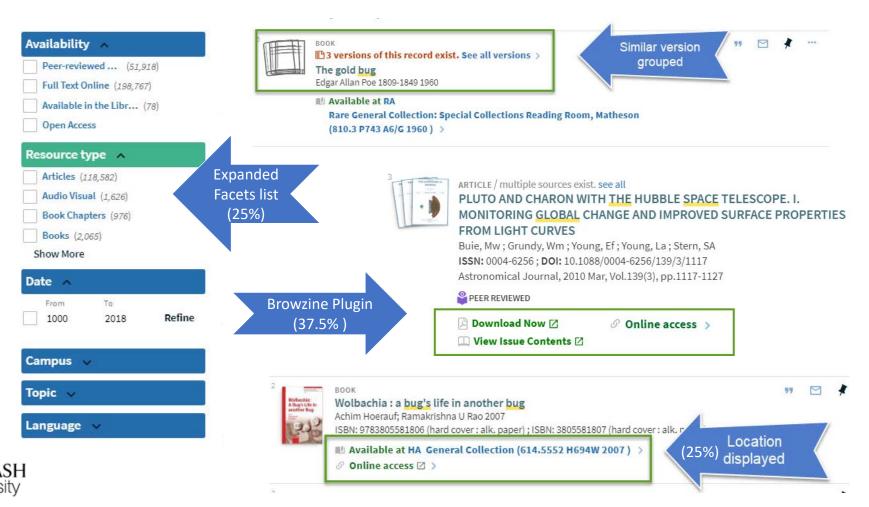
- ✓ SIMILAR SURVEY responses to 1st round
- ✓ SIMILAR OBSERVATIONS to 1st round
- ✓ POSITIVE response to Browzine Plugin, FRBR, & Location information





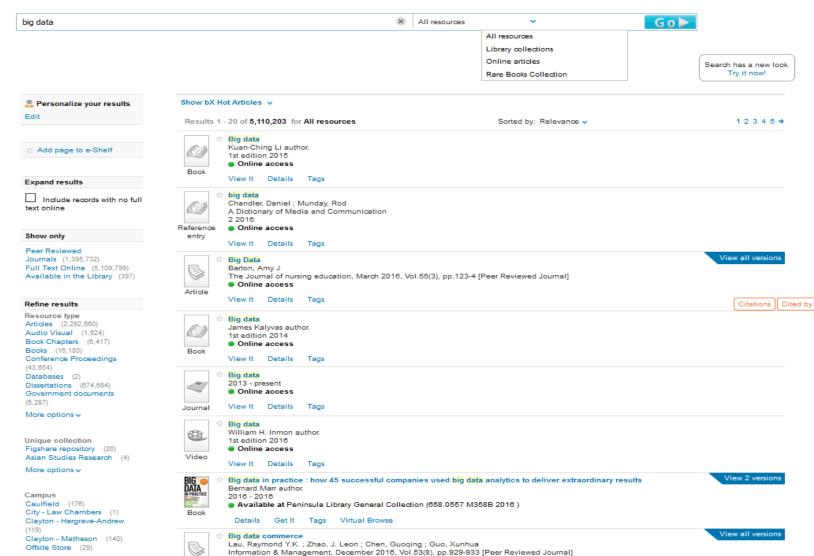
UX TESTING (2nd ROUND)

Q. WHAT ATTRIBUTES DID YOU LIKE ABOUT ANY OF THE VIEWS?



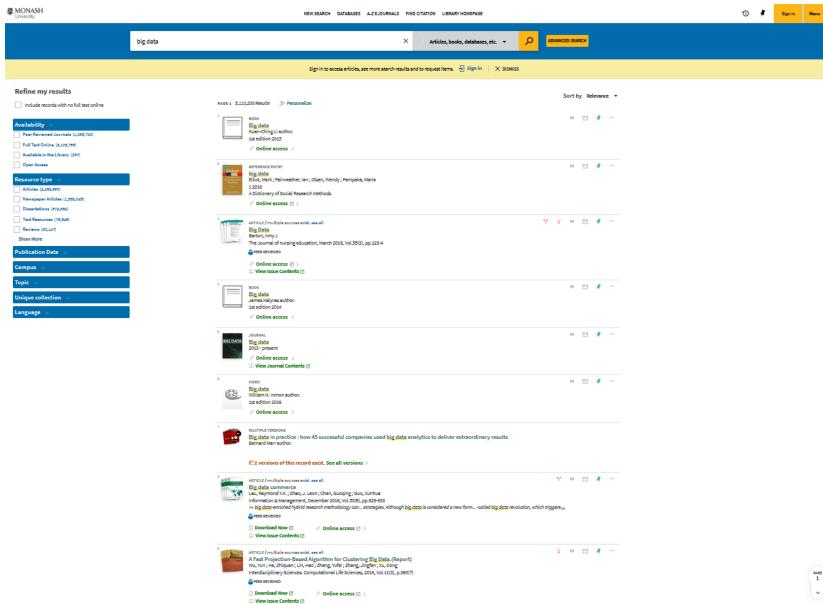
Brought to you by Monash University Library







To the new simplified User **Interface**







IMPLEMENTATION PROCESS

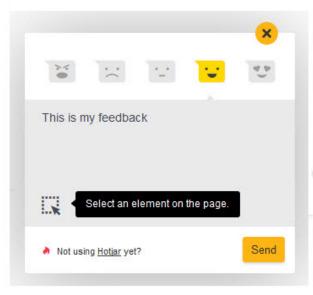


- BETA: Dec & Jan
- PROD: Feb 2019
- Roadshows: Jan & Feb 2019
- Monthly
 Communications
 via Staff Blog



POST-IMPLEMENTATION FEEDBACK

 Feedback from users from: Dec 2018 to May 2019 via Hotjar on Primo New UI





Contact the Library through





HOTJAR LIMITATIONS:



- Visitors not using one of the <u>supported browsers</u>
- Visitors with disabled JavaScript
- Visitors that have <u>opted out</u> from our opt-out page.
- Visitors with <u>disabled cookies</u>.
- Visitors using Private mode in some browsers, such as Firefox and Safari or when localStorage and sessionStorage are not available
- Visitors who run browser plugins such as Ghostery, unlock or Adblock which explicitly excludes them from loading tracking scripts such as ours
- Visitors that have DO NOT TRACK enabled in their browser
- Visitors have their <u>IP blocked</u> within the Hotjar settings
- Visitors live in country, like UAE, where **government blocks** the use of Hotjar.
- NOTE: Data is stored in EU & are in full commitment to GDPR Compliance





BETA RELEASE FEEDBACK



User feedback collected through HotJar from Dec 2018 to Jan 2010.



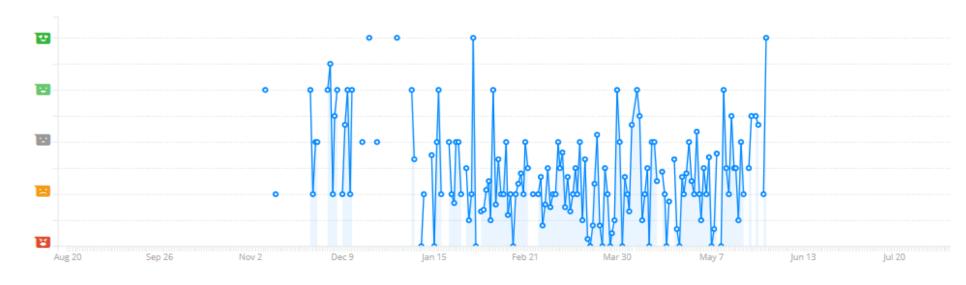


PROD FEEDBACK



User feedback collected through HotJar from Dec 2018 to early May 2019.









INCOMING FEEDBACK FEATURE

/primo-explore/search?qu...





" too slow! Slowness makes it feel clunky. Not obvious how to delete from favourites...."

/primo-explore/search?sor...





"What is with "library special collections" as a drop down option? How confusing. How will a patron be able to differentiate between rare books (now special collections), and all the other special collections available at Monash (which aren't searchable)."

/primo-explore/search?vid...



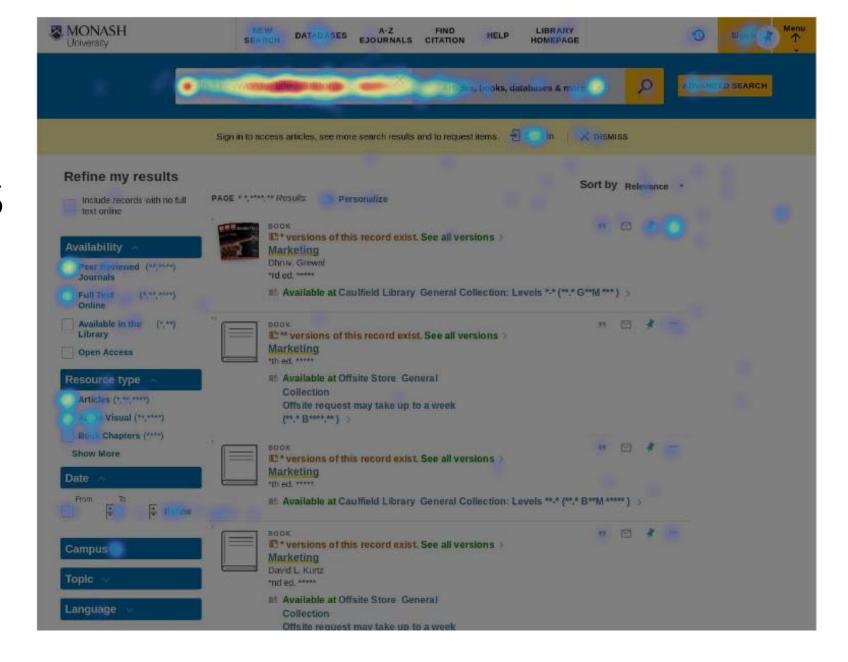


"Could you please change eBook to ebook in the drop down option: "Books, eBooks, multimedia & more" It doesn't need an upper case B as none of the other options have an initial upper case apart from the words at the beginning of the phrases."

MONASH University

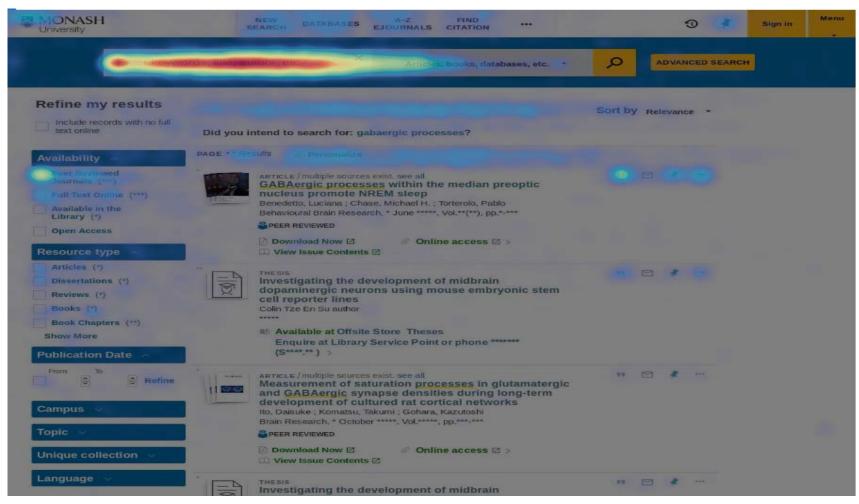


HEATMAPS FEATURE





SEARCHING

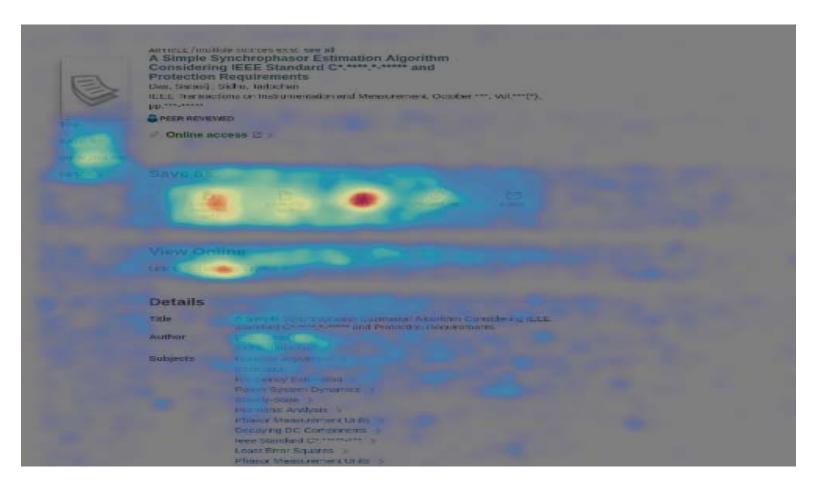




Heatmap showing mouse movements.



FULL DISPLAY

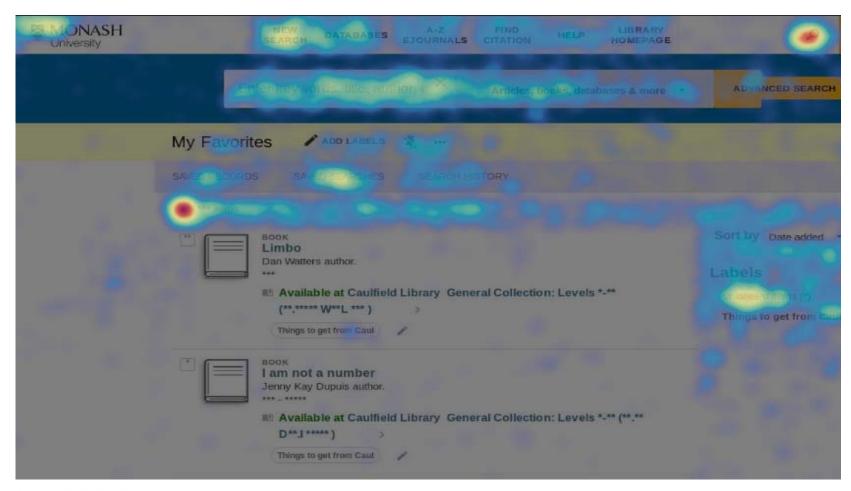




Heatmap showing mouse movements.



FAVOURITES





Heatmap showing mouse movements.



CITATION LINKER

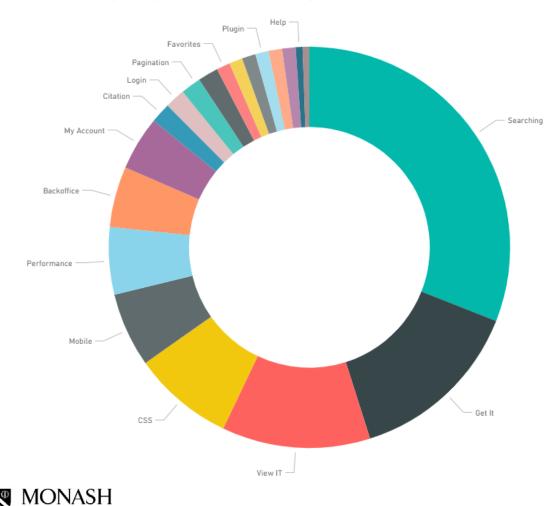




Heatmap showing mouse movements.



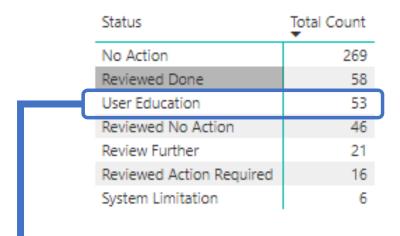
Feedback themes



Themes	Total Count
Searching	57
Get It	26
View IT	22
CSS	15
Mobile	11
Performance	10
Backoffice	9
My Account	8
Citation	3
Login	3
Pagination	3
Scope	3
Favorites	2
FRBR	2
Full Display	2
Plugin	2
Time Out	2
Virtual Browse	2
Help	1
Metadata - PCI	1

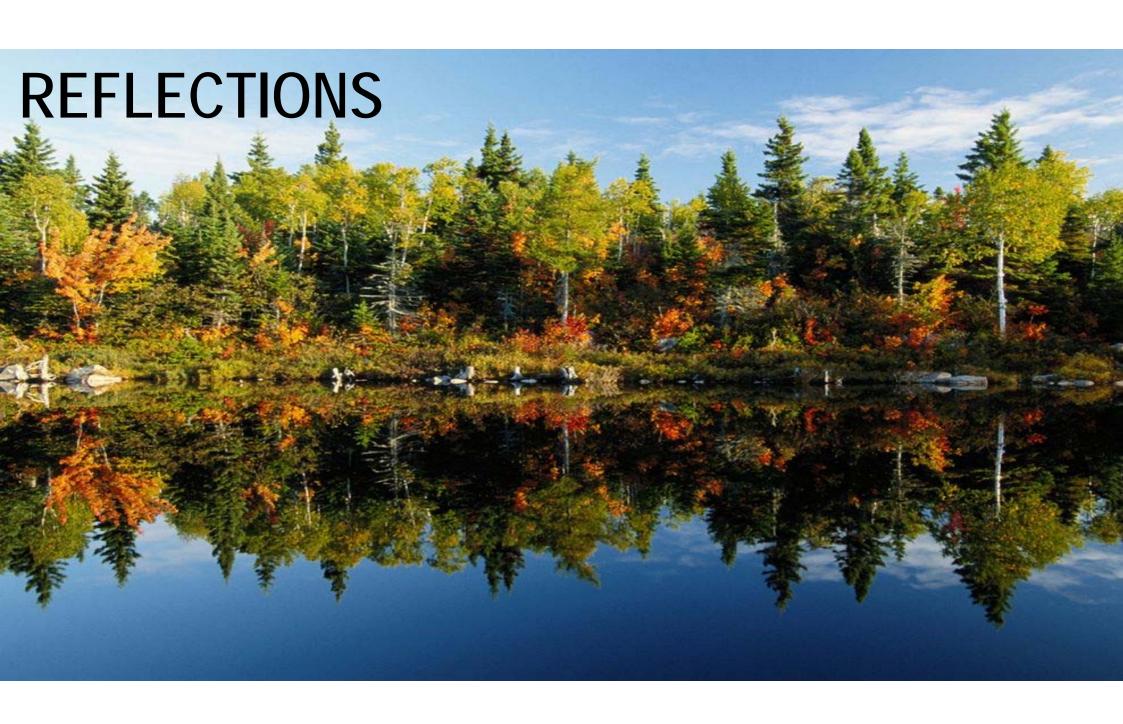


SAMPLE FEEDBACK



	▼ ·	
2	Having difficulty accessing my loans record	USER EDUCATION
1	Where's the "request purchase" button?	USER EDUCATION
1	where can I place my request?	USER EDUCATION
1	where is docdel hidden?	USER EDUCATION
1	I can't request to on hold the books. I don't know what happened	USER EDUCATION
1	not user friendly, doesn't even have a renew button	USER EDUCATION
	I have a lot of trouble finding a book - there may be 50 reviews in journals but separating	
2	books from journal articles is awkward	USER EDUCATION





Library expectations of Primo

a SHOWCASE for Library resources

SIMPLE to search provide INTUITIVE search results

offer a SEAMLESS experience from searching to access EMPOWER our users



If Primo doesn't meet our users needs



They'll look for a solution outside of Primo & the Library



CONTACT US:

Megan.Lee@monash.edu

Rachelle.Orodio@monash.edu



