Central Washington University ScholarWorks@CWU

Library Scholarship

James E. Brooks Library

12-8-2016

4 Little Tests, 1 Big Change: A Multifaceted Approach to Usability Testing

Stacy Taylor Central Washington University, stacy.taylor@cwu.edu

Follow this and additional works at: http://digitalcommons.cwu.edu/libraryfac Part of the <u>Library and Information Science Commons</u>

Recommended Citation

Taylor, S., (2016) 4 little tests, 1 big change: A multifaceted approach to usability testing. Oral presentation at the *Amigos Online Conference*, Dec. 8, 2016.

This Conference Presentation is brought to you for free and open access by the James E. Brooks Library at ScholarWorks@CWU. It has been accepted for inclusion in Library Scholarship by an authorized administrator of ScholarWorks@CWU.

4 Little Tests, 1 Big Change: A Multifaceted Approach to Usability Testing

Stacy Taylor User Experience Librarian Brooks Library, Central Washington University



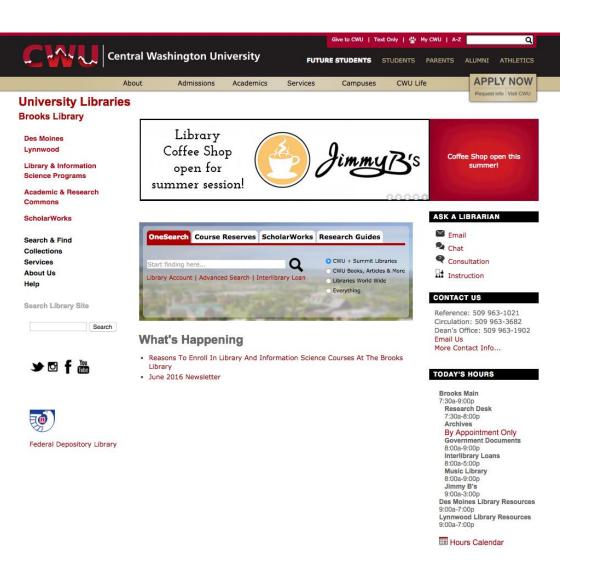
LEARN. DO. LIVE.

THE (OLD) NEW SEARCH BOX

Implemented Fall 2015



THE (OLD) NEW HOMEPAGE



THE (OLD) NEW HOMEPAGE



THE SCHOLARWORKS CONUNDRUM

I want scholarly works, so I should probably choose ScholarWorks.

FALL 2015 USABILITY TESTING

Performed moderated in-person usability testing on the Brooks Library website with five students.

Focus was on overall website usability, but found some issues with the search box.

WEBSITE USABILITY RELEVANT FINDINGS

• 50% used ScholarWorks tab to try to find scholarly sources.

• When asked, 100% said they believed ScholarWorks was for finding sources like books or articles.

• 0% used Library Account link in search box when asked how to renew a book.

• Students did not read the links or text in the search box.

• One student did not recognize the links in the search box as links due to being color blind.

 Students indicated they would click other tabs but did not know what they were for.

LIS 110: RESEARCH FUNDAMENTALS

1 credit online course to teach university level research skills

Extra credit option:

Choose one library from each list: choice of 3 Orbis Cascade libraries, and 3 non-Orbis Cascade libraries.

Explore their website, then reflect on what you like and dislike about each. Reflect on what you like and dislike about the Brooks Library website.

LIS 110: RELEVANT FINDINGS

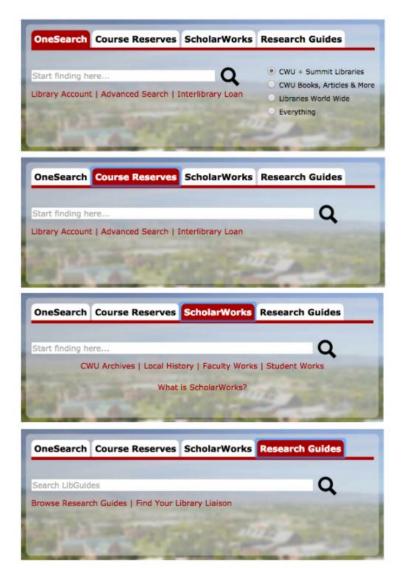
- Students like large, prominent, labeled search bars.
- Students want to browse, not search, for Research Guides.
- Some students like tabs, but most feel our search bar is too cluttered.
- For students who like tabs, they prefer tabs for formats, not collections.
- Students like having "quick links" on the homepage.
- Students like when the hours for the day are clearly displayed.

Brooks Library:

- Search box too small.
- Search box too cluttered.
- Search box not emphasized enough.
- Couldn't find research guides.
- Difficult to find databases.

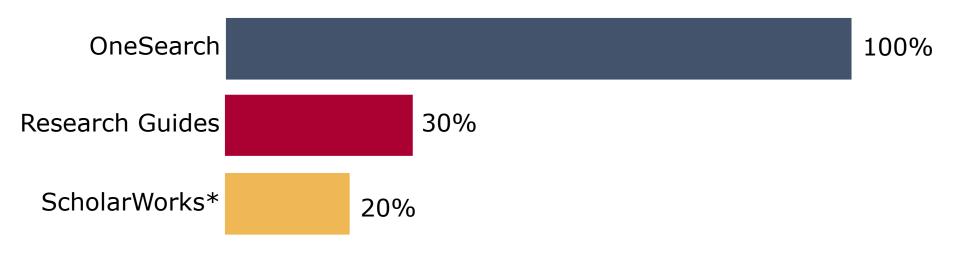
SIMPLE CIRCLE TEST

Presented 10 students with a printed version of our search box and asked them to circle the features they used.



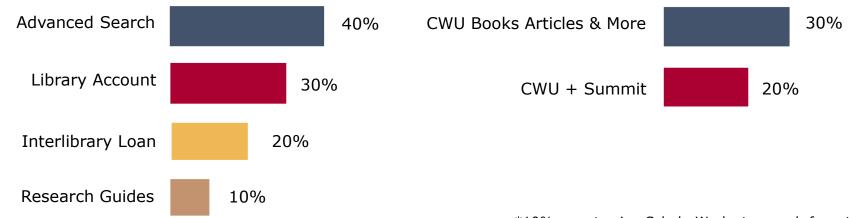
SELF REPORTED SEARCH BOX USE

Tabs:



Links:





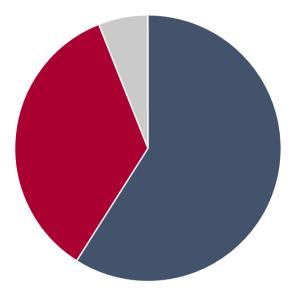
*10% report using ScholarWorks to search for articles

COMPETITIVE ANALYSIS

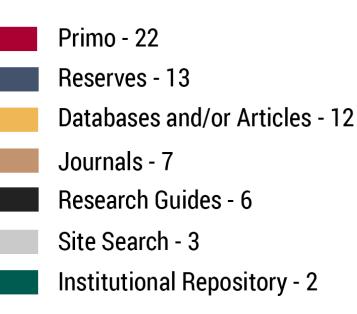
Looked the search boxes for all 37 libraries in the Orbis Cascade Alliance (OCA).

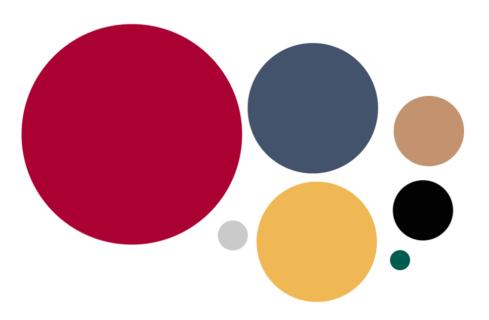
Compiled data on use of tabs, scopes, links, menu options.

ORBIS CASCADE USE OF TABS



59% use tabbed search box35% use simple search box6% don't use search box

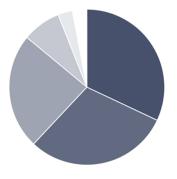




LINKS, RESERVES & GUIDES

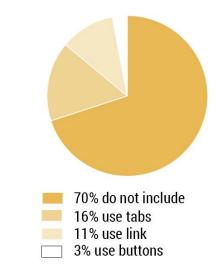


Course Reserves:



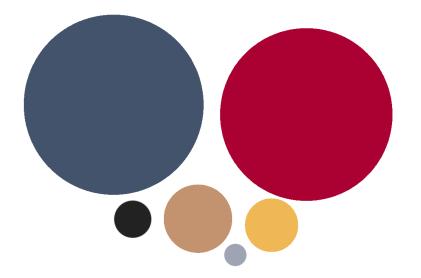
32% use tabs
30% do not include in search box
24% use link
8% use drop down
3% use check box
3% use link and tab

Research Guides:



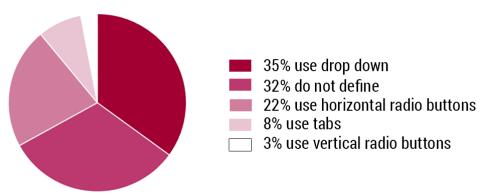
ORBIS CASCADE SCOPES

Most common scopes:





Handling of scopes:



SETTING UP THE TEST SITE

Based on feedback from usability testing, the extra credit assignment, and the OCA analysis.

Included large, simple search box and a list of quick links.

University Libraries Brooks Library	OneSearch			Hequest into : Visit CWU
Des Moines Lynnwood		ks, course reserves, research guid	des, and more.	Q
Academic & Research Commons ScholarWorks		Advanced Search	My Account	
Search & Find Services About Us Help Search Library Site	Quick Links Course Reserves Research Guides ScholarWorks	Databases Interlibrary Loan Reserve A Study Room		ASK A LIBRARIAN Email Chat Consultation Instruction
Search ★ Implies in f ^{You}	 Library Gala A Huge Succes Opportunities for SOURCE 	ation Sciences Gets the Okay! ss! participants CWU's new institutional repositor	y	CONTACT US Reference: 509 963-1021 Circulation: 509 963-3682 Dean's Office: 509 963-1902 Email Us More Contact Info TODAY'S HOURS
Ø			More	Brooks Main 8a - 5p

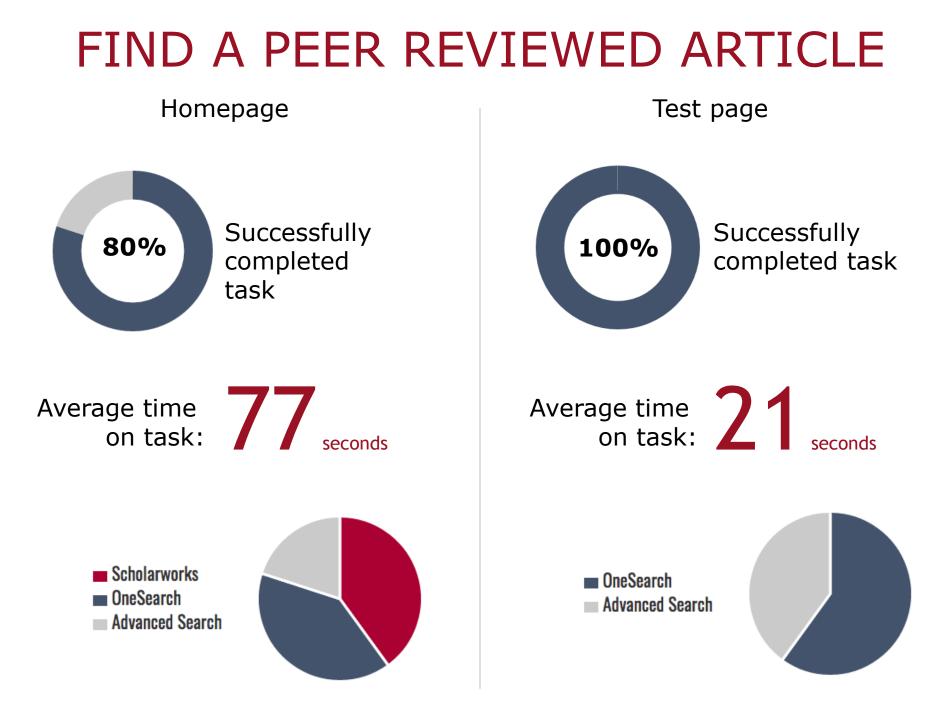
SEARCH BOX USABILITY TESTING

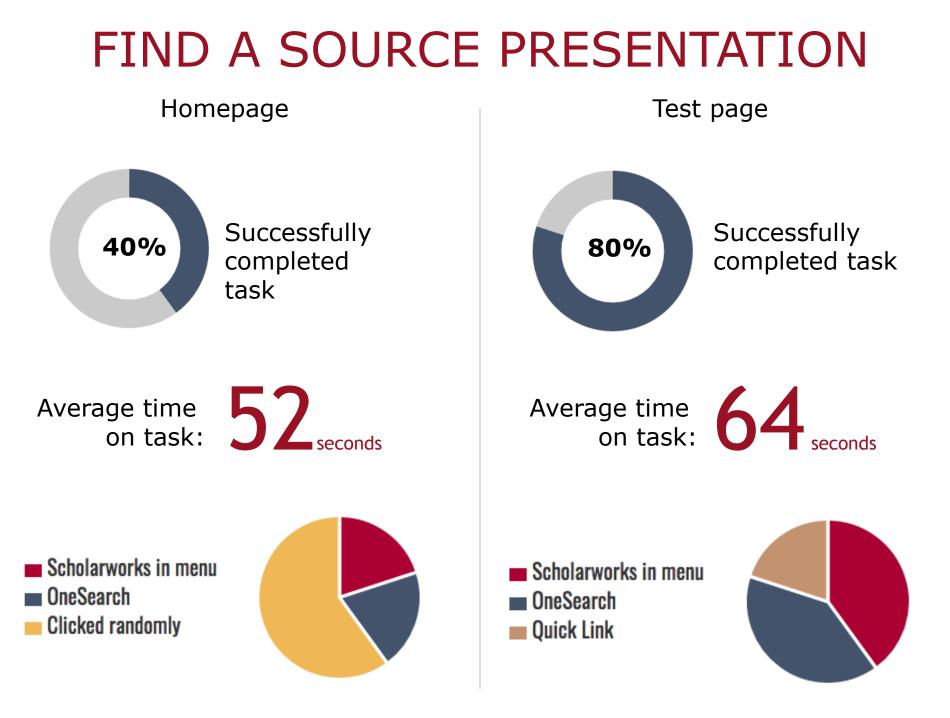
5 students were given 5 scenarios designed to test their use of search box features.

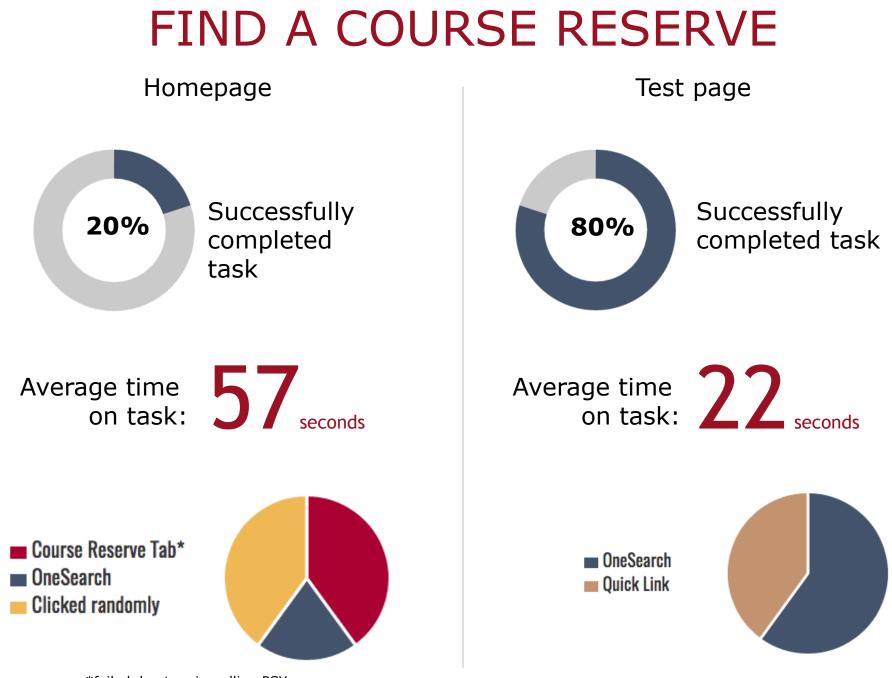
They performed the same tasks on our current homepage and a test version of the page with a simplified search box and quick links.

Their self reported level of familiarity with the Brooks Library website on a scale of 1-5: 1, 2, 3, 3, 4

University Libraries		Request info Visit CWU	University Libraries				Programming Prior Corro
Brooks Library Des Moines Lynnwood Library & Information	Library Coffee Shop open for	S Coffee Shop open this summer!	Brooks Library Des Moines Lynnwood	OneSearch Search for articles, books, course reserves, research guides, and more.			Q
Science Programs Academic & Research Commons ScholarWorks	open for summer session!		Academic & Research Commons ScholarWorks		Advanced Search	My Account	
Search & Find Collections Services About Us Help Search Library Site	OneSearch Course Reserves ScholarWorks Research Guides Start finding here Q OWU + Summit Library Library Account Advanced Search Interlibrary Lean OWU + Summit Library OWU + Summit Library Library Account Advanced Search Interlibrary Lean OWU + Summit Library OWU + Summit Library	Consultation	Search & Find Services About Us Help Search Library Site	Quick Links Course Reserves Research Guides ScholarWorks	Databases Interlibrary Loan Reserve A Study Room		ASK A LIBRARIAN Email Chat Consultation
Search	wh What's Happening • Reasons To Enroll In Library And Information Science Courses At The Brooks Library • June 2016 Newsletter	Reference: 509 963-1021 Circulation: 509 963-3682 Dean's Office: 509 963-1902 Email Us More Contact Info TODAYES HOURS Brooks Main 7:308-900p	🌶 🖸 in f 🕍	What's Happening • Test Title • Minor in Library and Information Sciences Gets the Okay! • Library Gala A Huge Success! • Opportunities for SOURCE participants • Announcing ScholarWorks, CWU's new institutional repository		ry	CONTACT US Reference: 509 963-1021 Circulation: 509 963-3682 Dean's Office: 509 963-1902 Email Us More Contact Info
Federal Depository Library		Research Desk 7:30a-8:00p Archives By Appointment Only Government Documents		New U.S. Goverment Mobile A	Apps	More	TODAY'S HOURS Brooks Main 8a - 5p

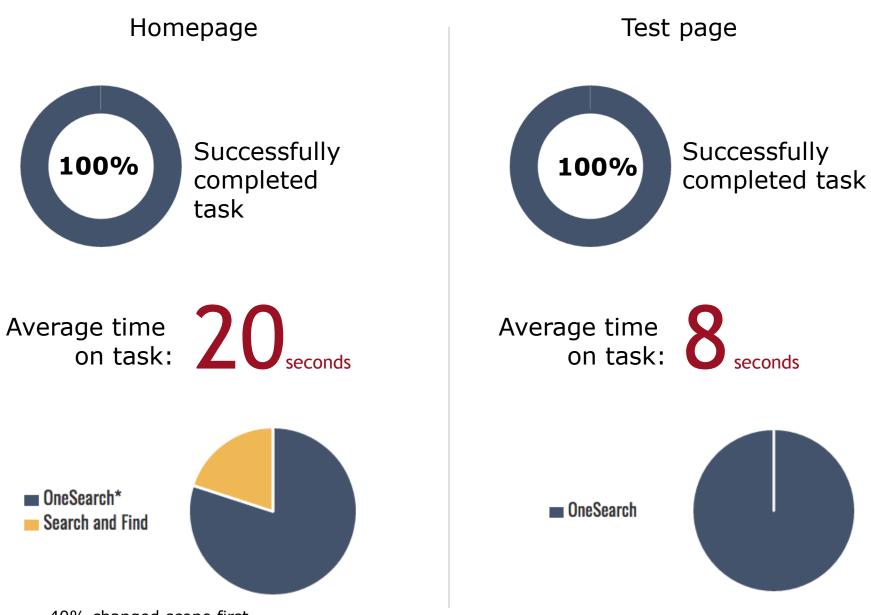




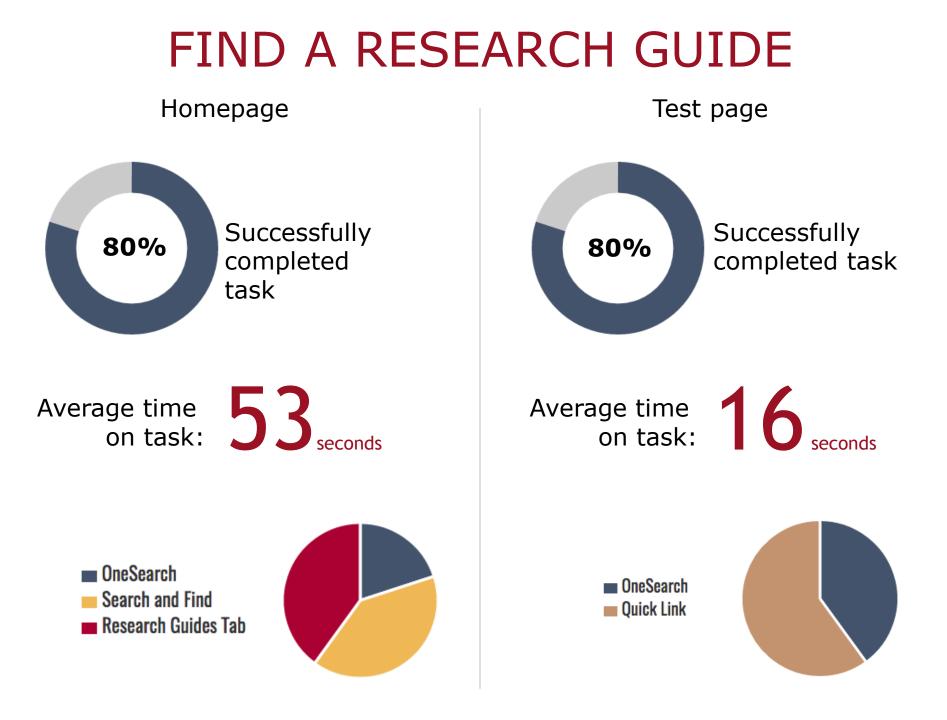


*failed due to misspelling PSY

FIND A BOOK



40% changed scope first



SYSTEM USABILITY SCALE

Industry standard Likert scale test. Possible scores range from 25-100.

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I think that I would like to use this search engine frequently.	0	0	0	\bigcirc	0
I found the search engine unnecessarily complex.	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I thought the search engine was easy to use.	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I would imagine that most people would learn to use this search engine very quickly.	0	0	0	\odot	\odot
I found the search engine very cumbersome to use.	\odot	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I felt very confident using the search engine.	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I needed to learn a lot of things before I could get going with this search engine.	0	\bigcirc	\bigcirc	\bigcirc	\odot

SYSTEM USABILITY SCALE RESULTS

Homepage average score:

45.45

Test page average score:

81.56

OVERALL RESULTS



MORE LIKELY TO SUCCESSFULLY COMPLETE TASKS ON TEST PAGE



AS LONG TO SUCCESSFULLY COMPLETE TASKS

80%

OF STUDENTS STRONGLY PREFERRED THE SIMPLE SEARCH BOX

LESS EXPERIENCED STUDENTS

LESS EXPERIENCED STUDENTS EXCLUSIVELY USED ONESEARCH ON THE TEST PAGE

SLIGHTLY HIGHER 90% SUCCESS RATE THAN vs EXPERIENCED USERS 87%





"I'M LITERALLY JUST GOING TO TYPE EVERYTHING IN THIS BOX."

OBSERVATIONS

Students who rated themselves less familiar with library website were more eager to rely on the search box on the test page.

More familiar students spent more time searching and trying other links. They seemed to expect the site to be more complicated than it was.

Students strongly prefer browsing for Research Guides over searching. From the LibGuides homepage 80% scrolled to correct guide; 20% searched.

Every student who used the ScholarWorks tab did so incorrectly. Every student who correctly used ScholarWorks used a link or OneSearch.

When given multiple search terms, more advanced users tend to go directly to advanced search.

RECOMMENDATIONS

Adopt a simple search box with no tabs, no scopes, and no more than 2 links (Advanced Search and Library Account).

This is in line with the direction that Primo is heading and is easier for our students to use.

Add a list of "Quick Links" near the search box. Students expressed appreciation for these links and they were actively used during testing.

GETTING BUY-IN

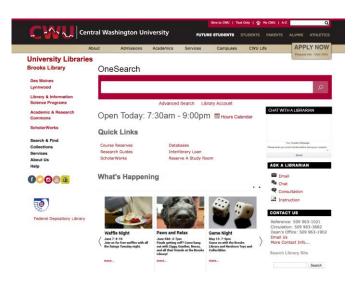
Presented the full results and recommendations to the Primo Working Group, which agreed to make recommendations to Web Development Committee.

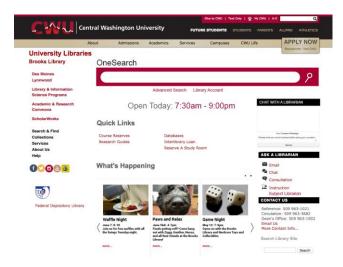
Presented results and recommendations to Web Development Committee, which agreed to make the recommendation to Library Council. Developed mock-ups to present to Library Council.

Presented summary of results and mock-ups to Library Council. After minor modifications, Library Council approved the change.

MOCK-UPS

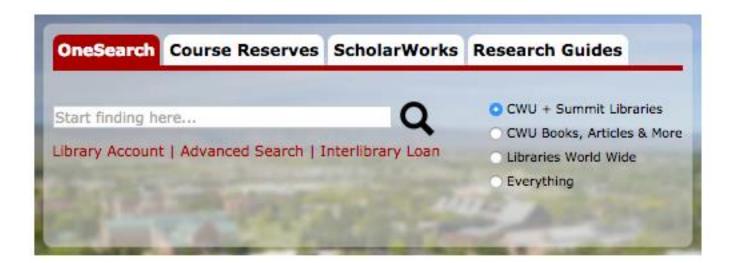






BEFORE AND AFTER

September 2015:

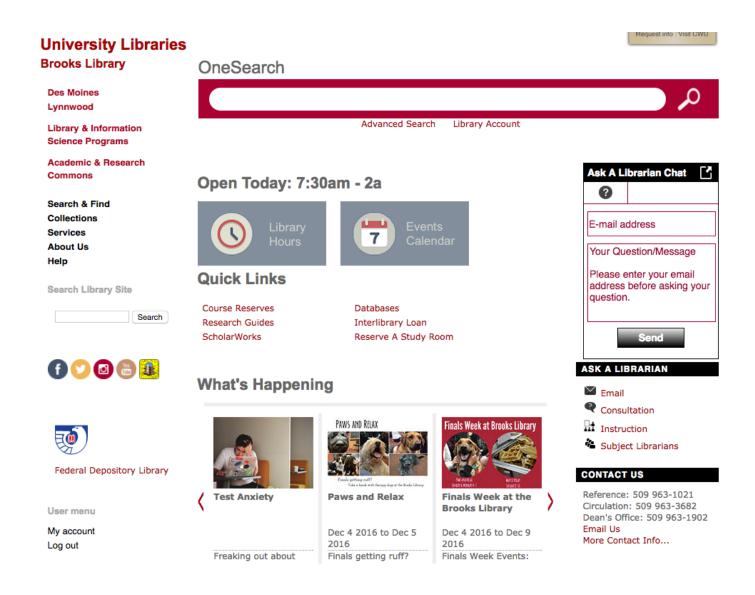


September 2016:

OneSearch

Advanced Search Library Account

THE NEW HOMEPAGE



EARLY ASSESSMENT

Compared site search results from October 2015 to October 2016.

October 2015

Total number of searches: 1312

Searches for Resources: 346

Searches for Services: 164

Searches that should have been OneSearch: 802

October 2016

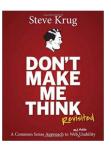
Total number of searches: 375

Searches for Resources: 117

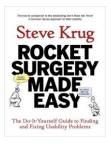
Searches for Services: 91

Searches that should have been OneSearch: 167

RECOMMENDED READS



Don't Make Me Think – Stephen Krug



Rocket Surgery Made Easy – Stephen Krug



Just Enough Research – Erika Hall

System Usability Scale: <u>https://www.usability.gov/how-to-and-</u> tools/methods/system-usability-scale.html

Questions?



LEARN. DO. LIVE.