Minority Report: Usability studies for MetaLib interface optimisation

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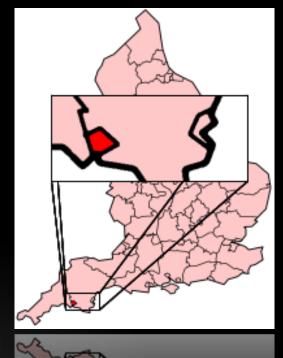
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- Background
- Implementing MetaLib
- Usability evaluation
 - Methodology
 - Findings
- User satisfaction survey
 - Methodology
 - Findings
- The value of talking to the user

Plymouth, UK



Source: Wikipedia





Roland Levinsky Building (Faculty of Arts)



- 5th largest UK Higher Education Institution
- 22359 students*
- 1287 academic staff*
- 1606 non-academic staff*
- Strong regional links
- Distance learning / Mature
- Convergence and site redevelopment
- Space / Resources

The University

*Source: SCONUL Return 2005-06



- ILS converged service
- 100+ staff*
- 500,000+ Books*
- 4300 unique serial titles*
- 32 Electronic Resource packages*
- Growing e-content provision
- Voyager (2004)
- SFX (2006)
- MetaLib (2007)
- Verde (2007)

The Library



*Source: SCONUL Return 2006-07





- A single point of access to all e-resources with cross-search options
- Challenges:
 - Subject requirements
 - User requirements
 - Database quirks
 - Search options
 - Complex out-of-the-box interface
 - One size fits all?

MetaLib





E-Resources Development (5)

Project management + Technical support

Subject Librarians (3) Resource selection + configuration





Document Delivery Librarian (1)





Implementation



User



- We already know...
 - More resources
 - More full-text
 - Easy access
 - Access everywhere
 - Fast and accurate search
- ... so what's the point in asking?
 - Observe users' behaviour
 - Build relationships
 - Establish priorities
 - We could be wrong!

What do they really want?



Yes but...

It will be expensive
We don't have the resource

Not necessarily – you can get excellent results with low budget

What if they say something we don't want to hear?

If you know about it you can find a solution

Will it make us redundant?

Roles change

We might not be able to change things anyway

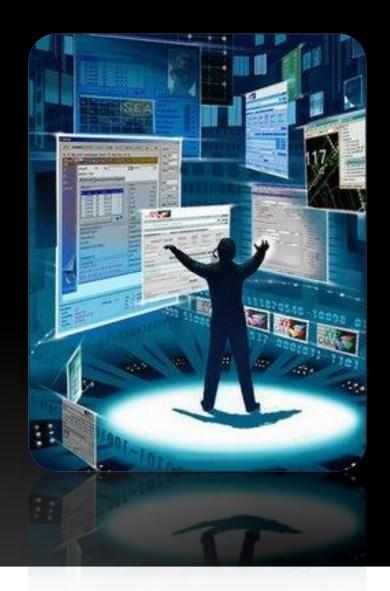
Important to manage expectations

Common objections



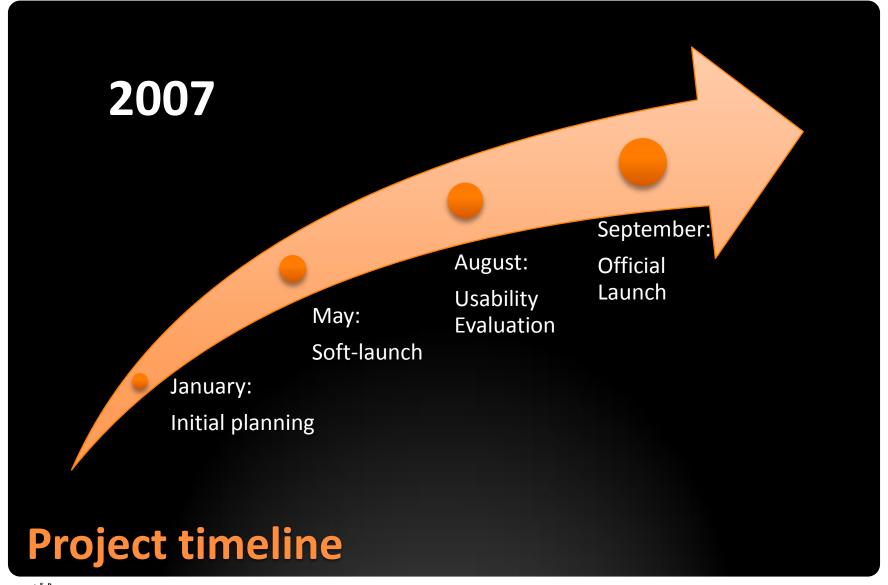
"The extent to which a product can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use."

Part 11, ISO 9241 standard (BSI, 1998)

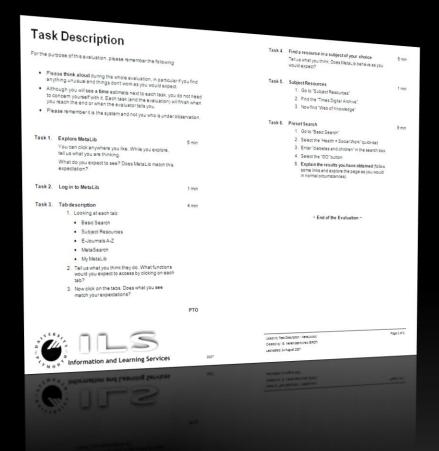


Usability









- Users should be able to:
 - Login to MetaLib
 - Navigate MetaLib
 - Search within preset cluster
 - Advanced search selecting preferred resources
 - Interpret the results
 - Access resources in native interface via MetaLib

Usability requirements



- Video-camera
- Microphone
- Screen capturing software
- Other data collection
 - Pre-evaluation questionnaire
 - Evaluator notes
 - Post-evaluation questionnaire



The evaluation room



By Faculty		By Role	
Arts	1	Academic	4
Health + Social Work	1	PostGrad Student	3
Science	4	UnderGrad Student	3
Social Science +	2		
Business			
Technology	2		
Total	10		10

The participants



Setting up	Greetings	5 min
	Collect participant's consent form	
	Fit microphone and start recordings	
Introduction	Introduce participant to UI	5 min
	Brief them on task	
Observation	Observe participant completing task(s)	25 min
De-brief /	Discussion and post- evaluation	20 min
Interview	questionnaire	
Close	Participant to complete claim form	5 min
	Thanks and closing session	
	Total	60 min

The session



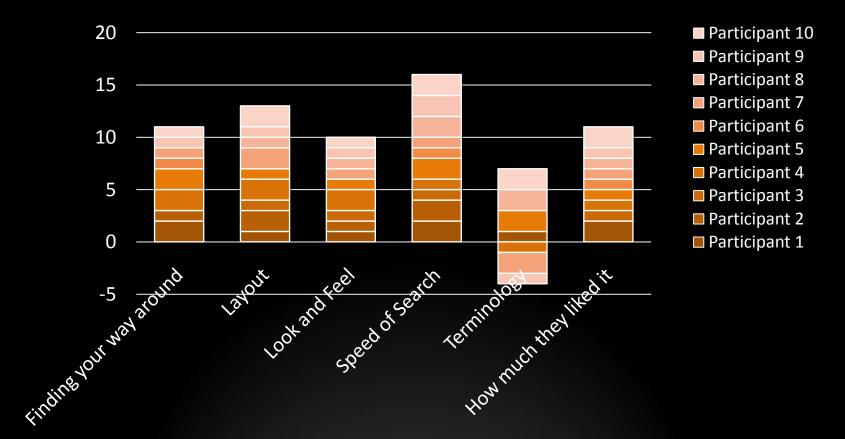
Source: Pre-evaluation questionnaire

Place	Feature	Score
1	Direct access to Full Text	48
2	Ease of use	46
3	Cross-search	44
4	Customise search	41
5	Save favourites	41
6	Direct access to citation	41
7	Save own searches	40
8	Look and feel	37

Results: Features of an Electronic Library



Source: Post-Evaluation questionnaire



Results: Evaluation of MetaLib (quantitative)



Problem areas

- 1. Global
- 2. Login
- 3. Basic Search
- 4. MetaSearch
- Subject Resources
- 6. Results
- 7. Other

Eg, Journal A-Z, My MetaLib, search in progress...

Defect type

- Configuration
- Design
- System
- Terminology
- User Education

Defect severity

Critical / high / medium / low

Results: Usability defects (qualitative)



USABILITY DEFECTS			
Number	Area	Affected	Usability Defect Description
6.2	Results	6	Participant was confused by term "Add to basket" and associated feedback (system return after pressing the button)

RECOMMENDATIONS

Usability Defect Type	Rating	Evaluator's comments and recommendations
Terminology / System	High	Change terminology
		Report to Ex Libris: user's action should return appropriate feedback from the system

Results: Usability defects (qualitative)



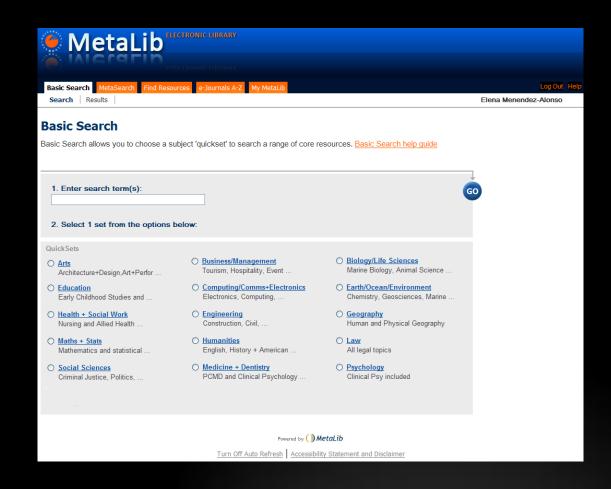
Severity	Defect	Recommendations
Critical	Users could not differentiate between MetaLib screens	Reorder tabs Add descriptions to top of the page Help and training development
High	Ambiguous terminology	Review labelling throughout
High	Back button behaviour	Report to Ex Libris Rename "Table View" Help and training development
High	Information button not obvious	Redesign Reorder columns in Subject Resources
High	Login is not obvious to users	 Force login page Build single-sign -on

Examples of findings





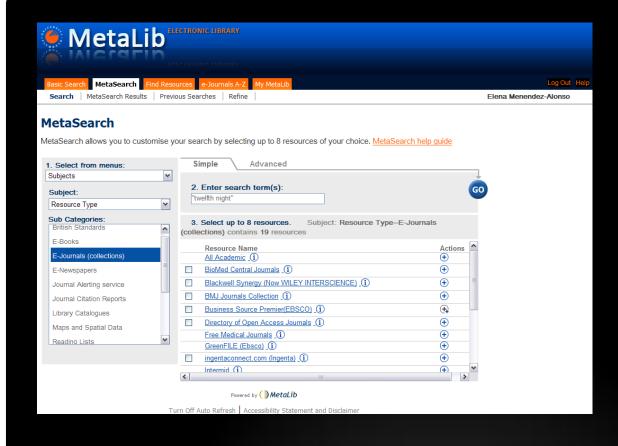




- Aiding navigation and usability
 - Reordered pages
 - Added page description
 - Added link to user guide
 - Added step by step instructions

Interface changes: All pages





- Aiding navigation and usability
 - Labelling
 - Moved ① button next to database name
 - Removed unnecessary detail from information popup

Interface changes: MetaSearch





- Terminology
 Find Databases →
 Subject Resources →
 Find Resources
- Aiding navigation and usability
 - Labelling
 - Added links to Subject / Title

Interface changes: Find Resources

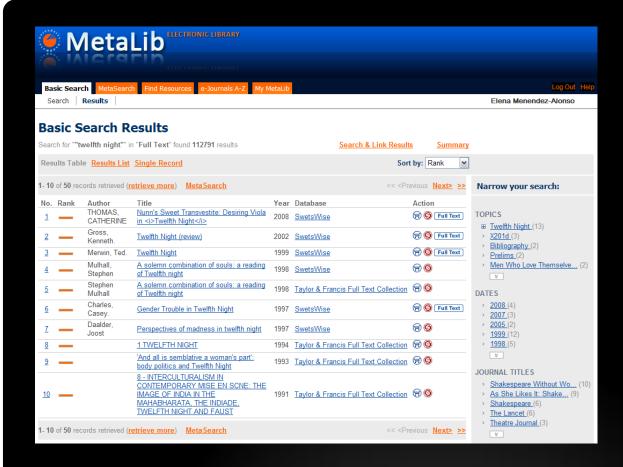




- Terminology
 - Add to clipboard >> Add to selected resources
- Aiding navigation and usability
 - Moved ① button next to database name
 - Added key to (i)

Interface changes: Find Resources





- Terminology
 - Table View >> Results Table
 - Brief View >> Results
 List
 - Full View >> Single Record
 - Add to basket >> Add to selected Results
- Aiding navigation and usability
 - Facets column: "Narrow your search:"

Interface changes: Results





- Terminology
 - My Space >> My MetaLib
 - eShelf >> My Results
 - My Databases >> My Resources
 - History >> My Searches
 - eShelf Advanced >>
 - Manage
 - eShelf Selected >>
 - Export

Interface changes: My MetaLib



- Optional online survey
- Run 2 weeks in January 2008 (3 months after official launch)
- Open to all
- Incentive: iPod shuffle
- 8 questions



complete our MetaLib survey and you could win an...

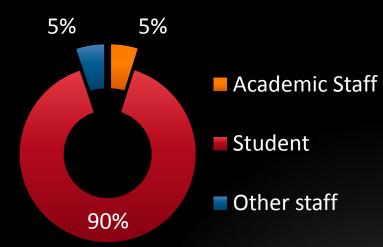


User satisfaction survey



By role

1272 responses in total (5%)



By Faculty / Department

Arts	7%
Education	4%
Health & Social Work	18%
Science	33%
Social Science & Business	22%
Technology	5%
Peninsula College of Medicine and Dentistry	1%
University of Plymouth Colleges	4%
Support Services	4%

Response



Most used

- Basic Search
- E-Journals A-Z
- Find Resources
- MetaSearch

Least used

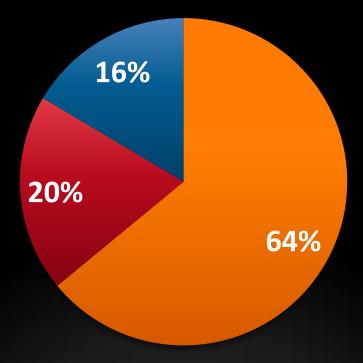
- Help guides
- Built-in help
- Personal quick sets
- My MetaLib
- 36% had not heard of Quick Sets
- 15 18 % were not aware of MetaLib help, help guides or My MetaLib

MetaLib functions



• Default: Basic Search

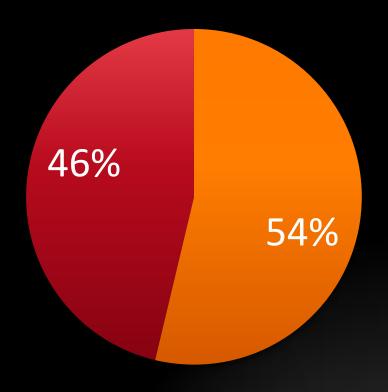
■ Keep as it is ■ MetaSearch ■ Find Resources



Search Preferences



Yes No

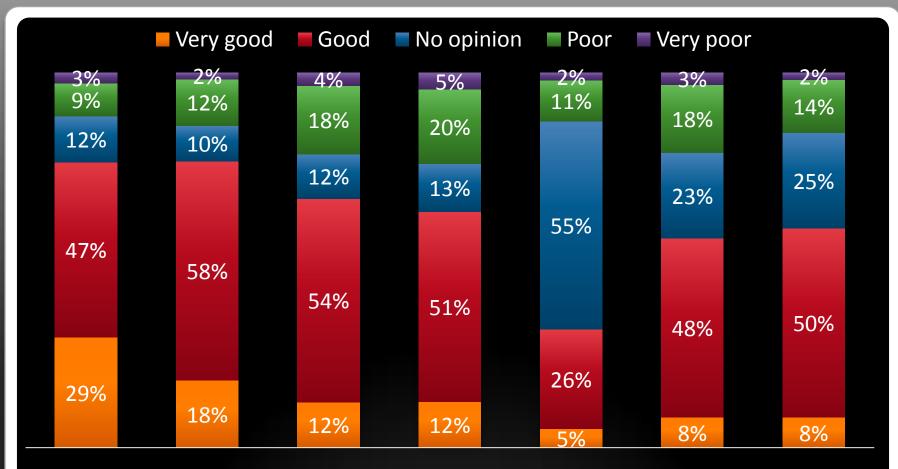


• Reasons:

- Unaware (35%)
- Unsuitable time / location (24%)
- Not needed (23%)
- None available (12%)
- Personal preference (6%)
- Of those who attended training, 94% found it helpful or very helpful

Training





Log-in

Search speed

Quality of Ease of use results

Help and support

Layout and Loo navigation for

Look and feel

MetaLib Performance



- How does MetaLib compare to previous system?
 - Better → 28%
 - The same \rightarrow 27%
 - Worse → 20%
 - Can't compare* → 25%
 *MetaLib first experience of e-resources

- Taking out those who can't compare:
 - Better → 37%
 - The same \rightarrow 36%
 - Worse → 27%
- 53% Academics thought their experience with MetaLib was worse

System preference

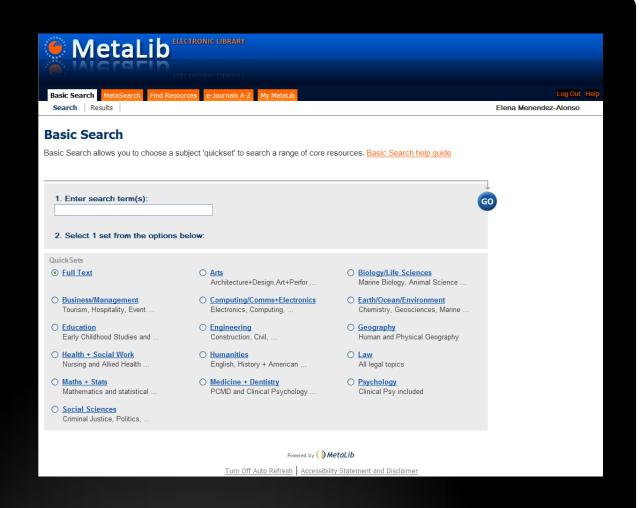


- Responses varied by Faculty and role
- Areas of concern:
 - Too many steps
 - Too many logins
 - More full-text needed
 - Articles incorrectly labelled full-text
 - Difficult to use (mostly coming from those who had no training)
 - Time-out is annoying
 - Prefer to go directly to database

Other findings



Added "Full Text" Quick Set



Interface changes



- Working on "single-sign on"
- Measures to increase uptake from support services
- Address misconceptions
- Communications
- "Personalised" and targeted training
- Local Faculty action plan
- Staff / student portal?

Other outcomes



- Was it worth it?
 - Yes
 - Learnt about MetaLib and our users
 - Lessons learnt:
 - Resource demands (volume of data per usability participants)
 - Manage expectations
 - Some changes not possible without Ex Libris
 - Weigh everyone's views
 - "Minority report"
 - Iteration

Conclusions



MetaLib Project Implementation Team:

- Stephanie BurrellJayne Moss

Amanda Southam

Fiona Greig

Peter Price

Graham Titley

- Vicki Maguire
- George Vernon
- Kate Wheadon
- Technical support and audio/video editing:
 - Garren Baker
- University of Plymouth participants
- Ex Libris



Thank you

