"Every book its reader":

recommendations in Aleph



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Every book its reader

"While well thought out shelf-arrangement is necessary, it is by no means sufficient to get for EVERY BOOK ITS READER. The catalogue can also be of immense help in this matter."

Ranganathan, S. R. (1931) The Five Laws of Library Science. Madras Library Association (Madras, India), p. 307

s/catalogue/Integrated Library System/;

What Ranganathan is emphasising in his Third Law of Library Science is that librarians need to be active in promoting stock, in helping the books to discover their readers.

No doubt today Ranganathan would be referring to the Integrated Library System rather than the catalogue.

How can we recommend books?

- · reader's subject of study; course; modules
- reader's past borrowing history
- the e-shelf as a clue to reader interests
- readers' search patterns collectively
- reader's saved searches; alerts / SDI
- · reader ratings of material
- usage of electronic material

This slide is really about "what do we know about the reader which might help us recommend stuff?".

By "readers' search patterns collectively" I am thinking that we can keep logs of what search terms users as a whole have used. It is then possible to recommend to users search terms to try which are similar to the search terms they have entered, but which yield broader or narrower result sets. A good example of this in practice is the University of Huddersfield OPAC. Try http://webcat.hud.ac.uk/ and search for something vague like "ethics" or "management". At the top of the results the system will suggest refinements based on successful searches made by a number of other users.

Usage of electronic material is a problem, as we cannot easily identify the materials which have been used by the same individual. This makes it harder to provide recommendations on a personal level. Nevertheless, if done properly, such as via a gateway service like SFX, useful recommendations can be made (e.g. bX service).

What does Aleph already provide?

- SDI (selective dissemination of information)
 = search alerts
- But that's about all

Problems with Aleph SDI

- Reporting of items which aren't actually new
 - e.g. if process status set and then cleared
 - but it's a lot better from Aleph 18 onwards
- · Not reporting items which are new
 - $-\,$ e.g. if several copies are received at once
- Not reporting material without items (for example, e-books)
- Reporting new journal issues but not telling you which issue is new
- RSS feeds have no <pubDate> for new items: cannot sort in IE
- Alert e-mails are not XSL based, so inflexible

Aleph SDI technical

background When an item is added or updated, and its process status is clear, a Z324 is created if it doesn't already exist. New items are recorded at each sub-library and globally.

Z324_REC_KEY	BIB no. + Z324 sequence
Z324_ENUMERATION_A to D	Enumeration of highest numbered item (serial)
Z324_LOCATION	ALL / ADM / sub-library
Z324_DATE	Date item was new
Z324_HOUR	Hour item was new

The infrastructure for the Z324 which lies behind the alerts system is good, but its implementation is a little faulty. If we can get the Z324 working right, we can exploit the data in many ways.

Fixing the SDI problems

- Custom service to run just before p_sdi_01
- Deletes the Z324 for items
 - with very old arrival dates
 - with very old open dates
 - in closed collections undergoing retrospective cataloguing
- Creates Z324 records for new e-books
- Resulting system is much more usable.

This custom service is available on EL Commons.

New books pages and RSS

- Use Z324 to discover the new material
- Custom service to build pages for each subject of study
 - HTML for inclusion in OPAC
 - Atom feed (similar to RSS)
 - updated via the job_list several times a day
 - XML-based configuration allowing testing of MARC fields, item data and order records
 - uses SFX API to link to new e-journal issues

We have written a custom service which uses the Z324 information to provide new books lists for each subject.

This custom service is not yet available on EL Commons. Please contact me if you are interested.



Here is an example from our web site. (The URL shown is from our development web-site. Go to http://www.dundee.ac.uk/library/subjects/media.php to see the public version.)

The blue panel "Latest titles added to the catalogue" is based on the RSS feed we have generated for that subject. Links from the titles lead to the catalogue. The "More…" link leads to the page shown on the next slide.

🥭 University of Dundee - N	ew Acquisitions - Windows Internet Explorer			
😋 💽 👻 🖥 http://libra	ry.dundee.ac.uk/F/?func=file&file_name=dun-new-books-mai	P -		
🙀 🎄 🄏 University of D	undee - New Acquisitions 🐴 🔹 🔂 🖉 🖶 🐑 Bage +	· () Tools → »		
2 👼 L	Sign-in	_		
DUNDER	End Session			
	ary ⇔ <i>Calalogue</i> My Library Card			
3	Bo A My e-Shelf			
Search Results	List Previous Searches Special Collections Make an ILL Request Help			
News feed of	this page.			
	This week's new titles (16 Aug 2009 - 21 Aug 2009)			
Tully, Tom	The best of Roy of the Rovers : the 1980s	2008		
Storer, Russell	Video Logic [published on the occasion of the exhibition held at the Museum of Contemporary Art, Sydney, 19 August – 2 [2 November 2008] : [Guest curator: Russell Storer].			
Turnbull, Alison, 1956-	Vitis vinifera L. : One Vine Street. 2			
Comer, Stuart	Film and video art	2008		
Frost, Alex, 1973–	3- Alex Frost: supplements [published on the occasion of the following exhibitions. "Adults" held at Galerie Sandra Bürgel. 23 2 lune – 27 July 2007 and Milton Keynes Gallery. 22 September – 4 November 2007," Format Wars" held at the Tramway 8 July – 6 August 2008: "B80" held at ArtSway. 23 February – 6 April 2008]			
Rosenheim, Jeff L.	Walker Evans and the picture postcard [published on the occasion of the exhibition held at The Metropolitan Museum of Art, 2 3 February – 25 May 2009]			
Poledna, Mathias, 1965–	Mathias Poledna : Crystal Palace [published to accompany the exhibition held at Hammer Museum, Los Angeles 28 Ianuary – c 22 April 2007: Museum of Contemporary Art, Chicago, 16 February – 14 May 2008; New Museum of Contemporary Art, New York, September 2008 – January 2009]			
Zuckerman, Andrew, 1077	w, <u>Wisdom</u>			
Lapinski, Lisa, 1967-	MOCA focus : Lisa Lapinski : the fret and its variants [published to accompany the exhibition held at The Museum of Contemporary Art, Los Angeles, 26 June – 25 August 2008]	c2008		
Hughes, Ann d'Arcy	Printmaking : traditional and contemporary techniques	2008		
Kubo, Tite, 1977-	All colour but the black : the art of Bleach	2008 💌		
Done	📔 📄 候 Internet	🔍 100% 🔻 //		

This page is generated by the custom service and is stored on our Aleph server, using the same templates and layout as our OPAC.

	My e-Shelf	
Search Results List Previous Searche	s Special Collections Make an ILL Request Help	
What's new - Computing		
News feed of this page.		
Last week's	new titles (16 Aug 2009 - 22 Aug 2009)	
	<u>Computer Bulletin</u> v. 17. m. 1 (2005. Jan.) <u>View enline</u>	
	Journal of speech, language and hearing research v. 52: no. 4 (2009: Aug.) View online	
ACM Symposium on Access Control Models and Technologies (14th: 2009: Stresa, Italy)	SACMAT 09 . proceedings of the 14th ACM symposium on Access Control C200 Models and Technologies, Stresa, Italy, June 3–5, 2009.	19
	IEEE transactions on visualization and computer graphics v. 15: no. 5 (2009: Sept./Oct.)	
	IEEE security and privacy v. 7: no. 4 (2009: July/Aug.)	
	IEEE design and test of computers v. 26: no. 4 (2009: July/Aug.)	
	Computer (IEEE Magazine). v. 42: no. 7 (2009: July)	
Titles added	between 23 July 2009 and 15 Aug 2009	
	<u>Artificial Intelligence</u> v. 173: no. 15 (2009: Oct.) <u>View online</u> For off-campus access select Institution login, and UK Access Management Federation	
Association for Computing Machinery	<u>Journal of the Association for Computing Machinery</u> , v. 56: no. 4 (2009) <u>View online</u> For off campus access select the UK Higher Education group, followed by the University of Dundee, and login with your username and password.	

For journals, the custom service interrogates SFX when it builds the page. If the SFX API identifies that we have full text available for a journal issue, a link is provided. Of course, depending on the target, this does not always lead to exactly the right issue.



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```
<!-- COMPUTING -->
    <page id="comp">
      <description>Computing</description>
<or scope="any">
       <budget><code test="like">AE-CMP-%</code></budget>
    <!-- LC -->
       <classification type="lc" test="range">
<from>QA 75.5</from>
<before>QA 101</before>
        </classification>
    <!-- UDC -->
<classification type="udc" test="range">
<from>001</from>
<before>007</before>
        </classification>
       <classification type="udc" test="range">
<from>774.6</from>
         <before>776</before>
        </classification>
    <!-- Dewey -->
       <classification type="dewey" test="like">794.8%</classification>
<classification type="dewey" test="regexp">/^00[3456]/</classification>
      </or>
    </page>
```







New books at Edinburgh Napier University



Edinburgh Napier have saved searches which identify new material in different subjects. This page is then generated (possibly via the RSS feeds?) and enlivened with cover images licensed from Syndetics.

New books: techniques

- Complex search in OPAC saved as SDI
 - e.g. Edinburgh Napier: uses standard Aleph
- Complex script and versatile configuration
 - e.g. University of Dundee
- Automatic identification of class numbers based on past habits of students on the course
 - e.g. University of Huddersfield (Dave Pattern)

The various options for producing new books reports.

At Huddersfield, rather than asking subject librarians to identify the classification numbers appropriate to each course, Dave Pattern uses the borrowing behaviour of previous students to identify the class numbers relevant to each course automatically. You could try this in Aleph also. We have not done this yet because our set-up does not store enough information about the patron's course. To do this historically you really need to have accurate patron type information corresponding to the precise course of study. Our patron types are much more vague.

Automatic patron interest profiles

- Analyse the user's past borrowings
- Look at
 - subject headings (e.g. 600, 650)
 - classification numbers (e.g. 050, 080, 082)
 - authors (100, 700)
- Weight according to overall popularity of the heading, i.e., how specialised is this interest?
- Store interests in an Oracle table

Can we use the user's previous borrowings to identify new material which is of interest automatically? Here are the steps we might follow.

Automatic patron interest profiles (2)

When a new book arrives:

- compare the headings on the record with the patron's interests in the table;
- calculate a score;
- if it passes a threshold, notify the patron of the arrival of the new book.

Still at the very experimental stage!



This shows an RSS feed of new books based on interests identified from my personal borrowing history. Some of the suggestions are not of interest, because I tend to borrow random things when testing the system. However, I was genuinely interested to know about many of the new books listed, and intend to borrow some of them in the near future!

So the initial results of this experimental system are promising.



I was particularly interested in the book on library web site design!

Linking to related books

- Taking the user beyond the search results
- Other editions
- Works on similar topics
- Works sharing borrowers (people who borrowed this have also borrowed...)
- Helps to promote stock that users have not searched for

Full View of R	ecord			
Choose format:	Standard format Catalogue card Citation	People wi	ho borrowed this have also	
Record 5 out of	753 Previous Record Next Record	borrowed	:	
Format	Book and e-book	Farrelly, Lorraine	Construction + materiality	2009
Holdings	Text Location		Constructing architecture. – 2nd extended ed.	2008
Main Entry	Smith, Kendra Schank	Forty, Adrian	Words and buildings	2004
Title	 Architects' sketches : dialogue and design. / Kendra Schank Smith. 	Related w	orks include:	
Imprint	Oxford : Elsevier, 2008.	Laseau, Paul	Graphic thinking for architects and designers - 3rd ed.	2001
Physical desc. Additional Form	138 p.	Forseth, Kevin	Graphics for architecture	1980
	Dawsonera via the World Wide Web; click to view. Use your University of Dundee username and	White, Edward T.	A graphic vocabulary for architectural presentation	1972
	password. http://www.dawsonera.com/guard/protected	Powell, Helen	Masterpieces of architectural drawing	1982
	dest=http://www.dawsonera.com/depp/reader/protected /external/AbstractView/S9780080878775	Drpic, Ivo D.	Sketching and rendering interior spaces	1988
Reproduction note	Electronic reproduction: Rushden, Northamptonshire: Dawsonera			
Subject	Architectural drawing			
	Architectural drawings – history			
	Architecture – sketch-books			
Added entry	Dawson Books			
ISBN	9780750682268			
	9780080878775(E-bk.)			
Record number	000624491			
Holdings	Location			

This is a real example from http://library.dundee.ac.uk/ which has been in production with this enhancement for two years.

Not yet loaded up on to EL Commons. Please ask if interested and I'll see if I can find the time to document it!

Full View of Re	ecord				1	
Choose format:	<u>Standard fo</u>	People wh	o borrowed this have also		also	
Record 5 out of	753	borrowed:				2009
Format Holdings	Book and Text <u>Location</u>	Farrelly, Lorraine	Construction + materiality	2009	el	2003
Main Entry Title	Smith, k Archited Schank Sr		<u>Constructing architecture.</u> – 2nd extended ed.	2008		2004
Imprint Physical desc.	Oxford : E 138 p.	Forty, Adrian	Words and buildings	2004		1980
Additional Form	Electro Dawsoner University	Related w	orks include:	2001	ectural	1972
	password. /dawson.j dest=http	Laseau, raui	designers – 3rd ed.	2001	rawing Inspaces	1982 1988
Reproduction note	/external/ Electronic	Forseth, Kevin	<u>Graphics for architecture</u>	1980		
Subject	Archited Archited Archited	White, Edward T.	A graphic vocabulary for architectural presentation	1972		
Added entry	Dawson	Powell, Helen	Masterpieces of architectural drawing	1982		
ISBN	● <u>978075</u> ● <u>978008</u>	Drpic, Ivo D.	Sketching and rendering interior spaces	1988		
Record number	00062449					
Holdings	Location					

Add to My e-Shelf 🖸 Bookhark 📲 🖉 🕭 Save/Mail Make a Photocopy Request L/nk co						
Full View of	Record					
Choose form	at : Standard format Catalog	ue card Citation		Other edition	is include:	
Record 7 out	of 15	Previous Record	Next Record	Begg, David K. H.	Economics 9th ed.	2008
Format	Text			Begg, David K. H.	Economics 8th ed. / David Begg, Stanley Fischer, Rudiger Dornbusch	2005
Holdings	Location			Begg, David K. H.	Economics - 7th ed.	2003
Main Entry	Begg, David K. H.			Begg, David K. H.	Economics - 5th ed. / David Begg,	1997
Title	Economics / David Beg	g, Stanley Fischer, F	Rudiger		Stanley Fischer, Rudiger Dornbusch	
en la co	Dornbusch.			People who b	orrowed this have also	
Edition	othied.			borrowed:		
Imprint	Maidennead : McGraw-Hill,	2000.		Lipsey, Richard G.	Economics - 10th ed.	2004
Physical desc.	T V. (634 p.) + CD-ROM			(Richard George),		
General note	which accompanies their o	danstone Issue Des opy	ik for CD-ROM	1928-	Economics of strategy - 2rd ed. (2004
Subject	Economics				David Besanko [et al.]	2004
Added entry	Fischer, Stanley			Sloman, John,	Economics - 5th ed.	2003
	Dornbusch, Rudiger			1947-		
ISBN	©0077099710			Johnson, Gerry	Exploring corporate strategy - 7th	2004
	©0077096150				ed./ Gerry Johnson, Kevan Scholes,	
Record number	000332830				Richard Whittington	
				Evans, Michael K.	Practical business forecasting	2002
Holdings	Location			Related work	s include:	
		A Provious Percent	Next Record	Chalkley, Martin	lob search and the firm's wage offer decisions a model of null offers	1983
		Trevious Record	Next Necold	Miller, Marcus H.	Exchange rate bands with price	1990

	Other edition				
	Begg, David K. H.	Economics. – 9th ed.	2008	tequest Link to	
Full View o	Begg, David K. H.	Economics. – 8th ed. / David Begg, Stanley Fischer, Rudiger Dornbusch	2005		
Choose forn	Begg, David K. H.	Economics - 7th ed.	2003	s include:	
Record 7 ou Format	Begg, David K. H.	Economics – 5th ed. / David Begg, Stanley Fischer, Rudiger Dornbusch	1997	Economics 9th ed. Economics 8th ed. / David Begg, Stanley Fischer, Rudiger Dornbusch	2008
Main Entry Title	People who b borrowed:	Economics - 7th ed. Economics - 5th ed. / David Begg, Stanley Fischer, Rudiger Dombusch	2003 1997		
Edition Imprint Physical desc.	Lipsey, Richard G. (Richard George), 1928–	Economics – 10th ed.	2004	orrowed this have also	2004
Subject		Economics of strategy 3rd ed. / David Besanko [et al.]	2004	Economics of strategy. – 3rd ed. / David Besanko [et al.]	2004
Added entry	Sloman, John, 1947–	<u>Economics</u> – 5th ed.	2003	Economics - 5th ed.	2003
Record number	Johnson, Gerry	Exploring corporate strategy - 7th ed./ Gerry Johnson, Kevan Scholes,	2004	Generation of the second strategy of the seco	2001
Holdings		Richard Whittington		s include:	2002
Holdings	Evans, Michael K.	Practical business forecasting	2002	tob search and the firm's wage offer	1983
	Related work		Exchange rate bands with price	1990	
	Chalkley, Martin	Job search and the firm's wage offer decisions a model of null offers	1983		

Lots of other editions shown. Also several other popular general economics texts identified via borrowings.

Linking to related books (2)

- JavaScript to fetch related books panel
- Uses pre-generated (cached) links
- If no cached links available, panel does not appear and BIB record is queued for link calculation
- If cached links are old (for any value of "old") they are also queued, at lower priority, for recalculation.

Here's how it works. Links have to be cached because of the processing effort required.

Linking to related books (3)

- Other editions generated using OCLC xISBN API (see <u>http://www.worldcat.org/affiliate/webservices/xis</u> <u>bn/app.jsp</u>)
- "People who borrowed this have also borrowed" calculated from z36h
- "Related works" found using headings and class numbers in common, e.g. LCSH, Dewey, LC, UDC.



This enhancement is having a real impact: it is popular with users and people follow the links to explore our library.



The logs we gather enable us to detect how deep users are exploring. How many clicks do they move away from their initial search result? Sometimes up to thirty!



A logarithmic scale makes the expected exponential decline apparent.



The links are cached, so we can see how long it has taken for users to explore our catalogue and cause the links to be generated. The green line shows the links via classification and subject headings. When we started collecting statistics, two years ago, we had built up 50,000 links, so with up to 5 per book that's about 10,000 books with these links. Tow years later, around 100,000 books have onward links. That leaves 400,000 books where no-one has even looked at the full catalogue record in the last two years!

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Possible developments

- Exploit the user's e-shelf as well as borrowings to determine interests.
- Automatic suggestions for exploration beyond the reading list.
- Automatic suggestions for lecturers for new material to add to reading lists.

A reading list is a collection of books. We could see what subject headings and classification numbers are attached to the books, and find closely similar material to recommend further reading. And we can see what books have been borrowed by people who have borrowed stuff on this reading list.

By analysing a reading list we could also make suggestions for relevant new material which arrives in the library, so that lecturers can keep the reading lists fresh.

Possible developments (2)

"People who borrowed this..." at a personal level:

- 1. patron logs in to catalogue
- 2. system accesses entire (or recent) borrowing history of patron
- 3. finds other patrons with similar borrowings and sees what they borrowed next

Similar problem to http://www.netflixprize.com/

• "Collaborative filtering"

Netflix is an American postal DVD library. The great thing about their recommendation system is that by recommending films in their back catalogue they encourage users to borrow more, and not just the high-demand latest films. This way they work their stock harder and make more money.

A clear application to libraries here: we can make our stock work harder too (providing our older books are not factually inaccurate, like older medical texts, for example).

Aggregation of usage data

- Problem of scale by comparison with commercial data-warehousing
- Sharing anonymised usage data across higher education community (e.g. bX)
- JISC MOSAIC project: <u>http://www.sero.co.uk/jisc-mosaic.html</u>
- For example, a search for "ethics" could rank the results according to your subject of study.

Only by sharing usage data across institutions will we have the critical mass for more advanced services. This could be done co-operatively, or through a system supplier. For example, bX is doing this, and the URM may have the scope for greater sharing of statistics.

In the UK JISC has sponsored a project, MOSAIC, to look at exploiting the data. One idea floated is that if you know that the user is studying nursing, say, then a search by that user for "ethics" could rank more highly the medical ethics books which have been used by other nursing students. And an MBA student would get business ethics ranked at the top.

Questions?

Ideas?

OPAC scripting enhancement

- IGeLU enhancement request no. 1764 Server-side scripting support for OPAC
- Please vote!

Miscellaneous other slides in case required...

The following slides are not part of the presentation, but were included in case I needed them when answering questions.

Subject: British D Journal
Results from your Library Catalogue alert
Alert name: British D J 2 Search terms: wti = ("british dental journal")
To alter your alert settings, please use the following link: http://library.dundee.ac.uk/F/?func=bor-sdi
Your alert retrieved the following results:
Record number: 1 Record number 000019417 Format Periodical
Format Electronic resource Format Text Main Fohry British Dental Association
Title British dental journal. Imprint Nature Publishing. General note MOST RECENT ISSUE IN SHORT LOAN COLLECTION - ASK AT ISSUE DESK
General note Not for loan Subject Dentistry Continues Journal of the British Dental Association
Holdings summary Main Library, Periodicals, 617 BRI. v.178(1995)- Holdings summary Electronic Resource. 186(1999)- Holdings summary Electronic Resource. v.186(1999)-4 years ago##Archived content is freely available as
indicated above Holdings summary Remote Store 2, Periodicals, 617 BRI. v.24(1903)-99(1955), v.101(1956)-177(1994) Electronic link http://ibbroxy.dundee.ac.uk/login?url=http://www.nature.com/bd/: {for off-camous access
use your University of Dundee username and password } Electronic link <u>http://www.nature.com/bdi/archive/index.html</u> ; ISSN 0007-0610
Library holdings Electronic Resource Library holdings Electronic Resource Library holdings. Main Library - Beriodicals - 617 BRT
Library holdings Main Library : Short Loan - ask at Desk - Short Ioan - 617 BRI Library holdings Remote Store 2 : Periodicals - 617 BRI
[End of report]

This slide shows the standard Aleph alerts e-mails. Not very nice.



Here's the e-mail we generate using a custom service.

📮 Mail From: <aleph@library.dundee.ac.uk></aleph@library.dundee.ac.uk>	🔁 Mail From: <aleph@library.dundee.ac.uk></aleph@library.dundee.ac.uk>	
File Edit View Actions Tools Accounts Window	Eile Edit View Actions Iools Accounts Window Help	
The East New Actions Tools Accounts window	🕱 Close 👼 Reply 🔹 🖼 Forward 🔹 😭 🔹 😒 🐼 🖳 📊 👓 🧤 🧶	»
🐹 Close 🤯 Reply 🔻 📑 Forward 👻 🎬	Mail Properties Personalize Message Source	
Mail Properties Personalize Message Source	From: <aleph@library.dundee.ac.uk> 28/08/2009 07</aleph@library.dundee.ac.uk>	:02
France Calact @library during a sould	To: Matthew Phillips	
Ter Matthew Philips	Subject: Nursing (no pers)	
Furbiast: Nursing (no para)	Results from your Library Catalogue alert:	
Subject. Narsing (no pers)		
Results from your Library Catalogue alert:	Alert name: Nursing (no journal issues)	
Alert name: Nursing (no journal issues)	Search terms: wrd = (nursing)	
Search terms: wrd = (nursing)		
T	Edit alert settings	
http://library.dundee.ac.uk/E/?func=bor-sdi	Verne start activities of the fellowing assertion	
	r our alert retrieved the following results.	
Your alert retrieved the following results:		
	Midwifery : best practice volume 5	
Midwitery : best practice volume 5 edited by Sara Wickham	Edinburgh : Butterworth-Heinemann Elsevier 2008	
Edinburgh : Butterworth-Heinemann Elsevier, 2008.	ix, 334 p.	
ix, 334 p.		
SNM (Kirkcaldy) Library, 618.2 WIC Catalogue link: http://library.dupdee.ac.uk/E/2func=dir	SNM (Kirkcaldy) Library 618.2 WIC	
Catalogae Inno. <u>Inceptytional ytaanaeetaetaion ytaaneetaa</u>		
Becoming a reflective practitioner	Becoming a reflective practitioner	
Christopher Johns ; with contributions by Simon Lee 3rd ed	Christopher Johns ; with contributions by Simon Lee [et al.].	
Chichester, : Wiley-Blackwell, 2009.	3rd ed.	
344p.; cm.	Chichester, : Wiley-Blackwell, 2009.	
Catalogue link: http://library.dundee.ac.uk/E/?func=dir	344p.; cm.	
	Main Liberary 610 720 1 L 65	
		-
1	7	

It even includes an HTML multipart-alternative with even nicer formatting.

Linking to related books: problems

- xISBN being incomplete, and cataloguers cannot correct it.
- Borrowings don't include e-books: need a way to record usage of these by person.
- "Related works" works well for e-books, but we don't use LCSH for printed books (local subject heading scheme) and don't assign local headings for imported e-book records.