



hydra in Hull

Richard Green

Hydra UK event, London School of Economics & Political Science, 22 November 2012

Hydra in Hull

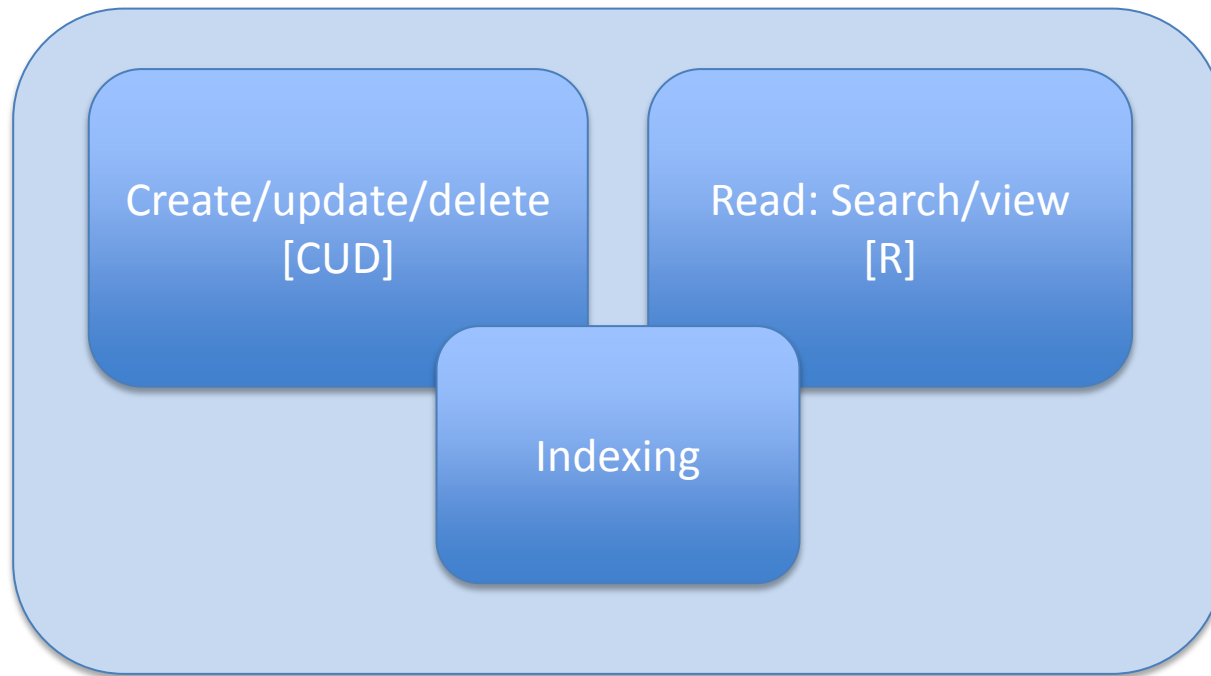
- Hull's is probably the most 'generic' Hydra head in production world-wide: very wide range of content types

- | | |
|---|--|
| <ul style="list-style-type: none">- Exam papers- e-Theses & dissertations (ETDs)- Journal articles- Meeting papers or minutes- Policies or procedures- Dissertations (undergraduate)- Photographs- Presentations- Books- Book chapters- Regulations- Reports- Conference papers or abstracts- Learning materials- Handbooks | <ul style="list-style-type: none">- Internet publications- Newsletter articles- Datasets- Sound- Moving images- Guidance documents- Licences- Posters- Events- Letters- Artwork- Diagrams- Maps- Software- etc (!!!) |
|---|--|

Hydra in Hull

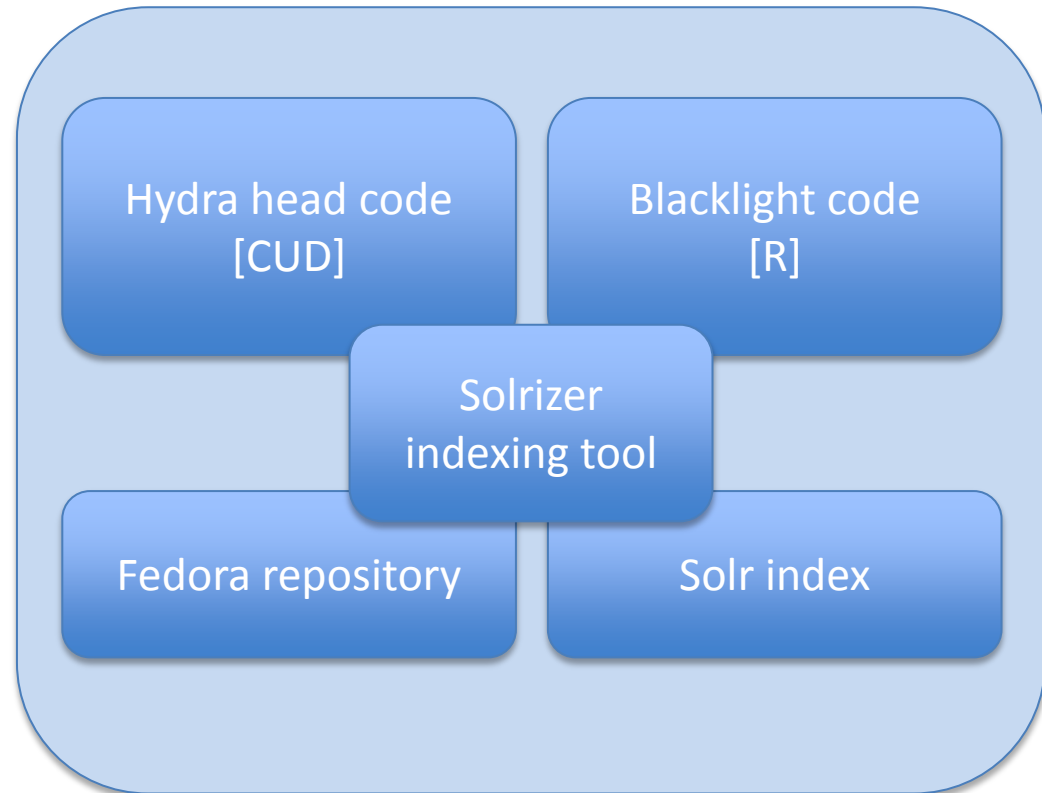
- Hull's vision of a digital repository is one that covers all the University's digital content. Whilst many Hydra heads deal with 'specialist' content, Hydra's flexibility allows us in Hull to create specialist handling as necessary within a single repository rather than a 'one size fits all' approach.
- We've started with a generalised approach but are steadily building out specific provision for content that needs it
 - Representing geo-data on splash pages
 - Specialist pages for images, video, ...
 - etc
- Hull also has some rather specialised needs to cope with 'Hydra-compliant' content entering our Fedora instance from other systems (many are not Hydra based)

CRUD in repositories



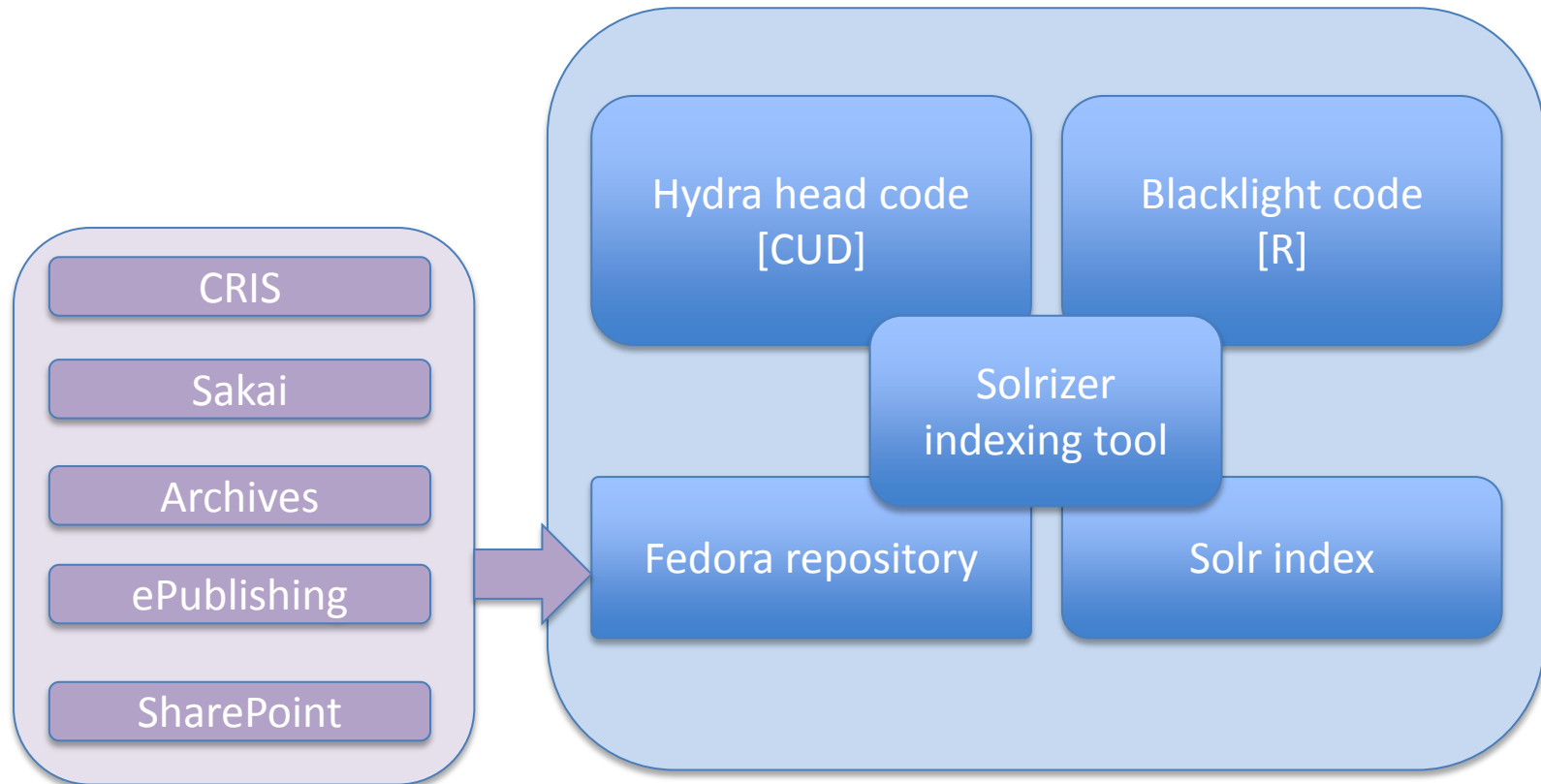
Typical schematic for repository CRUD

CRUD as implemented in most Hydra heads




The Hydra software stack

CRUD as implemented in Hull's Hydra




Hull brings together the Hydra software stack and external systems which feed Fedora directly

Hydra in Hull home page

Digital Repository


[UoH Home](#)
[Library](#)
[About](#)
[Contact](#)

[Login](#)
[Search History](#)



Limit your search

Resource type

Subject

Name

Language

Collection

Welcome to Hull's digital repository, Hydra

Create a search by adding a search term in the box above and/or by using the filters (facets) at the left of the screen.

If you are a University of Hull student or member of staff and have not yet logged in during this browser session you should do so using the link on the green bar above so that you will have access to 'University only' content.

Popular searches

Electronic theses

University policies

Domesday dataset


About Hydra

The Hydra digital repository is an electronic archive for the University of Hull. It has been developed to hold, manage and preserve the growing amount of digital material generated by the research, education and administrative activities of the University. This includes images, project reports, undergraduate dissertations, teaching materials, datasets, collections of past exam papers, academic research outputs, and doctoral theses.

Help us help you

Our staff are constantly working to expand the quantity and range of materials available through Hydra. **Feedback and suggestions for future development and collections are welcome:** please email Chris Awre.

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The University of Hull
and the Hydra Project



Version 2.0

- Hull's Hydra home page is a fairly standard Blacklight layout
- This is the 'public' view – no explicit login required.

Hydra in Hull home page



The screenshot shows the Hydra digital repository home page. At the top is a black header with the University of Hull logo and name. Below this is a green navigation bar with links: UoH Home, Library, About, Contact, Login, and Search History. The main content area has a light blue background. On the left, there's a 'Limit your search' section with a list of resource types and their counts: Thesis or dissertation (940), Learning materials (241), Dataset (158), Regulation (112), Conference paper or abstract (89), Newsletter article (34), Policy or procedure (30), Report (25), Presentation (21), and Event (18). Below this is a 'Subject' section with fields for Name, Language, and Collection. In the center, there's a search bar with a 'Search' button. To the right of the search bar, there's a 'Welcome to Hull's digital repository, Hydra' section with a message about logging in. Below this is a 'Popular searches' section with three categories: Electronic theses, University policies, and Domesday dataset. On the far right, there's an 'About Hydra' section describing the repository and a 'Help us help you' section with contact information. The footer contains copyright information, the Hydra logo, and the version number 2.0.

Digital Repository

UoH Home Library About Contact Login Search History

hydra

Search

Limit your search

Resource type

- Thesis or dissertation (940)
- Learning materials (241)
- Dataset (158)
- Regulation (112)
- Conference paper or abstract (89)
- Newsletter article (34)
- Policy or procedure (30)
- Report (25)
- Presentation (21)
- Event (18)

more »

Subject

Name

Language

Collection

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Popular searches

- Electronic theses
- University policies
- Domesday dataset

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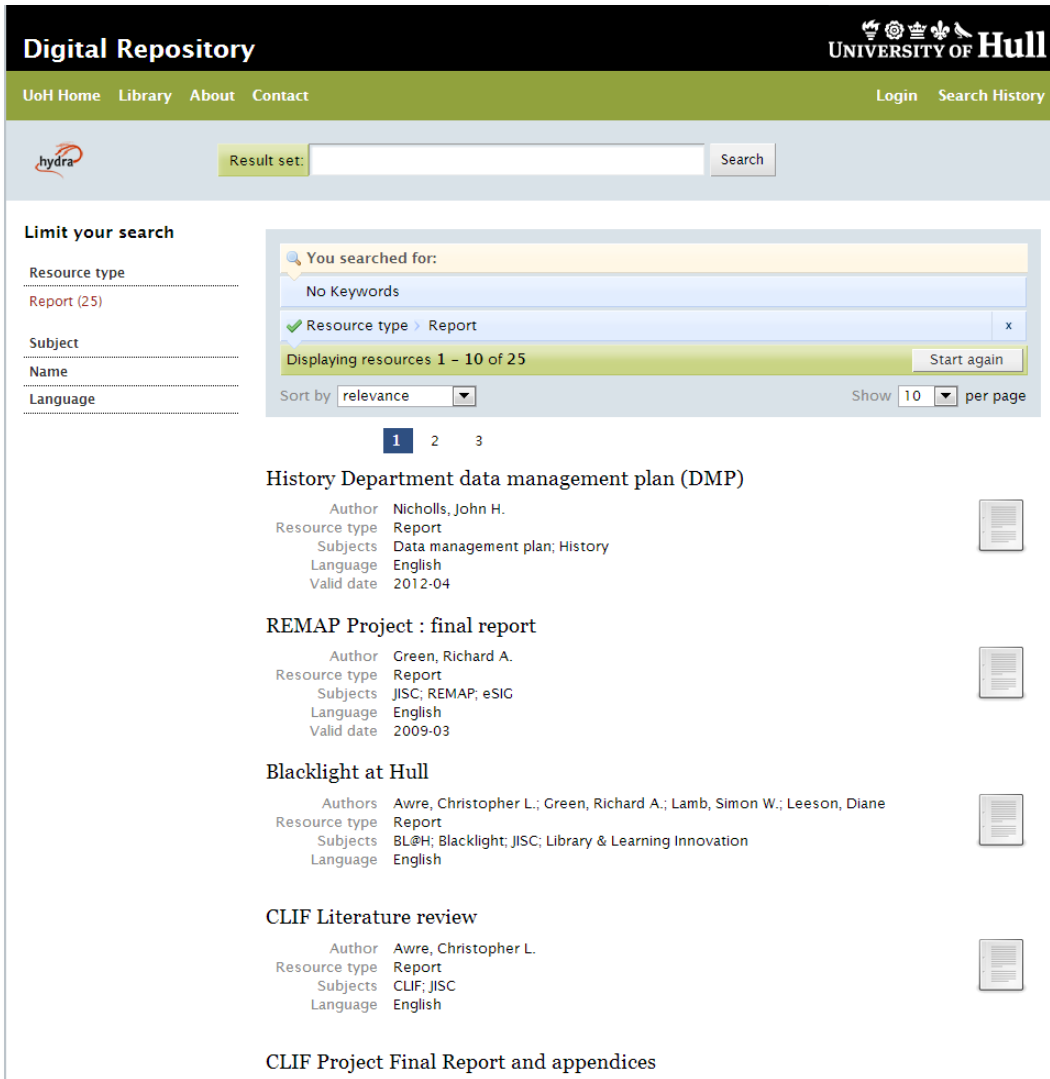
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and the Hydra Project

Powered by hydra

Version 2.0

- With the facets panel open we start to see the range of content
- A search can be carried out using combinations of facet selections and/or terms in the search box
- If we choose resource type 'report'...

Hydra in Hull search return



Digital Repository UNIVERSITY OF Hull

UoH Home Library About Contact Login Search History

hydra Result set: Search

Limit your search

Resource type
Report (25)

Subject

Name

Language

You searched for:
No Keywords
✓ Resource type > Report x
Displaying resources 1 – 10 of 25 Start again

Sort by relevance Show 10 per page

1 2 3

History Department data management plan (DMP)

Author Nicholls, John H.
Resource type Report
Subjects Data management plan; History
Language English
Valid date 2012-04

REMAP Project : final report

Author Green, Richard A.
Resource type Report
Subjects JISC; REMAP; eSIG
Language English
Valid date 2009-03

Blacklight at Hull

Authors Awre, Christopher L.; Green, Richard A.; Lamb, Simon W.; Leeson, Diane
Resource type Report
Subjects BL@H; Blacklight; JISC; Library & Learning Innovation
Language English

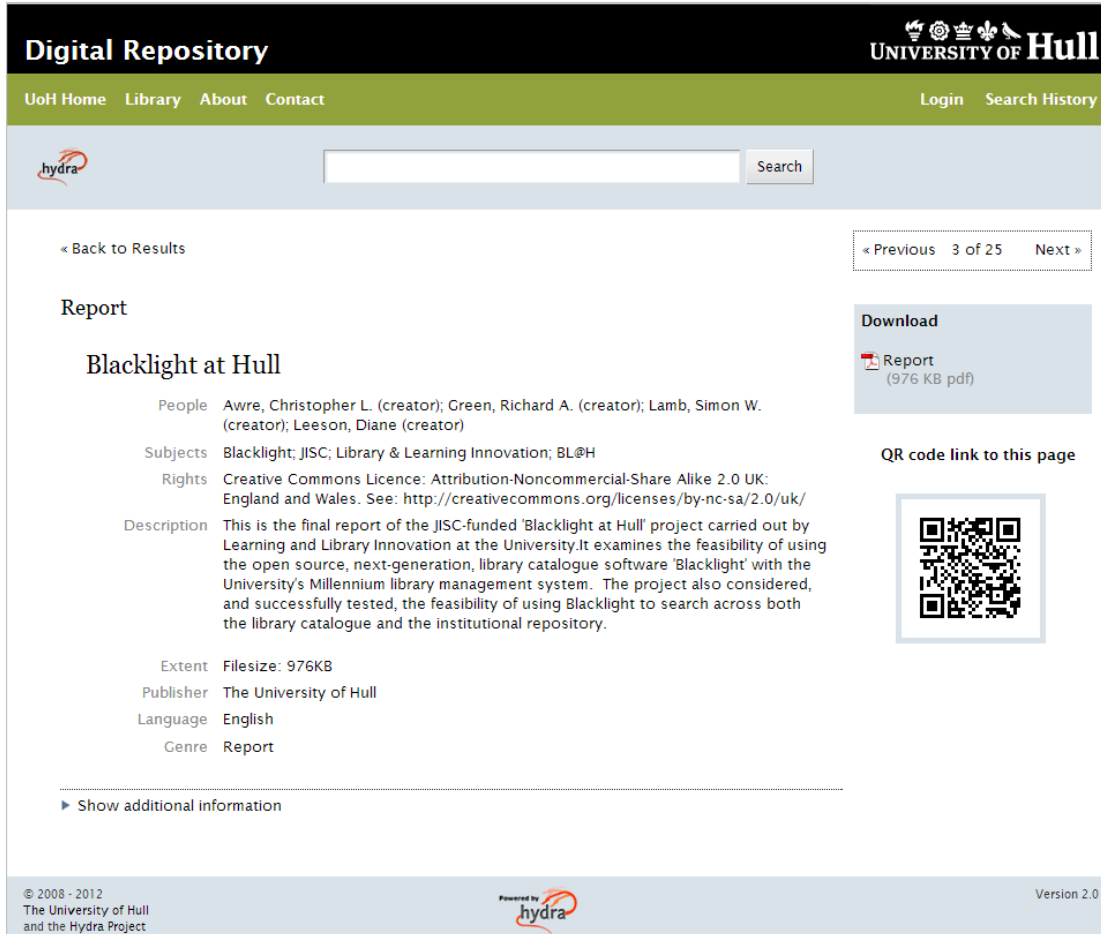
CLIF Literature review

Author Awre, Christopher L.
Resource type Report
Subjects CLIF; JISC
Language English

CLIF Project Final Report and appendices

- ...we generate a search return
- We could further refine our search by choosing more facets and/or using the search bar.
- Normally the search bar starts a new search – but on a search return page it searches within the result set
- Let's select the third item 'Blacklight at Hull'.

Hydra in Hull splash page



The screenshot shows the 'Digital Repository' interface for the University of Hull. The header includes the university logo and navigation links: 'UoH Home', 'Library', 'About', 'Contact', 'Login', 'Search', and 'History'. A search bar with the 'hydra' logo is present. The main content area displays the title 'Report' and 'Blacklight at Hull'. It lists metadata: People (Awre, Christopher L. (creator); Green, Richard A. (creator); Lamb, Simon W. (creator); Leeson, Diane (creator)), Subjects (Blacklight; JISC; Library & Learning Innovation; BL@H), Rights (Creative Commons Licence: Attribution-Noncommercial-Share Alike 2.0 UK: England and Wales. See: http://creativecommons.org/licenses/by-nc-sa/2.0/uk/), Description (This is the final report of the JISC-funded 'Blacklight at Hull' project...), Extent (Filesize: 976KB), Publisher (The University of Hull), Language (English), and Genre (Report). A 'Download' section shows a 'Report (976 KB pdf)' link. A QR code link to the page is also provided. A 'Show additional information' link is at the bottom. The footer contains copyright information (© 2008 - 2012 The University of Hull and the Hydra Project), the 'hydra' logo, and 'Version 2.0'.

- Choosing an item gives us its 'splash page'.
- Link(s) at the right download the resource(s)
- 'Show additional resources' lets you view metadata in different formats.
- Internally all descriptive metadata is MODS but other formats can be generated on the fly (DC, UKETD_DC etc)

Hydra in Hull splash page



Digital Repository UNIVERSITY OF Hull

UoH Home Library About Contact Login Search History

hydra

« Back to Results

« Previous 7 of 8 Next »

Journal article

The RepoMMan Project: Automating workflow and metadata for an institutional repository

Authors Green, Richard A.; Awre, Christopher L.; Sherratt, Robert; Dolphin, Ian

Subjects Repositories; JISC; Project management; RepoMMan

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Abstract The purpose of this paper is to report on the work of the JISC-funded RepoMMan Project, which is developing a tool that will allow users to interact with a Fedora-based institutional repository. The tool facilitates user interaction with the repository whilst developing content, using a browser interface, and will bring partial automation to the process of assigning metadata to objects as they are made accessible to a wider audience.

Date 2007

Language English

Publisher The University of Hull

Published

Published in OCLC Systems and Services, 2007

DOI 10.1108/10650750710748513 (Link to Publication)

Volume 23

Issue 2

Pages 210 - 215

► Show additional information

Download

Journal article (pdf)

QR code link to this page

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Version 2.0

- Splash pages are not 'one size fits all'...
- ...here a splash page for a journal article (note the publication information at the bottom)
- The QR code resolves to the splash page URL

Hydra in Hull splash page

Dataset

HMAP Dataset 02: SE Australian Trawl Fishery II: Fish (various) landings and fishing effort, South East Australia, 1937-1943

Person Klaer, Neil (Author)

Subjects Fisheries statistics; History of marine animal populations; Trawling; Overfishing; Australian fishing industry; Southeast Australian shelf and slope

Rights Creative Commons Licence: Attribution-NonCommercial-Share Alike 2.0 UK: England and Wales. See: <http://creativecommons.org/licenses/by-nc-sa/2.0/uk/>

Citations The dataset: please cite as follows: N. Klaer ed. 'South East Australian Trawl Records, 1937-1943' in M.G. Barnard & J.H. Nicholls (comp.) HMAP Data Pages (www.hull.ac.uk/hmap); Supporting documentation: please cite as follows: N. Klaer, 'HMAP Dataset 1: SE Australian Trawl Fishery II, Supporting Documentation', in M.G. Barnard & J.H. Nicholls (comp.) HMAP Data Pages (www.hull.ac.uk/hmap)

Description On 28 November 1991, the New South Wales Department of Agriculture and Fisheries provided historical data relating to the South East Fishery (SEF) to the Bureau of Resource Sciences (BRS) in accordance with the Fishing Industry Research and Development Corporation (FIRDC)-funded 'historic SET catch data' project. The data were originally collected by CSIRO and handed over to NSW Fisheries when CSIRO ceased work in the 1960s on what was then known as the 'South East Trawl Fishery'. These data cover the periods 1918-1923, 1937-1943 and 1952-1957. No documentation exists for these data except for a simple description of the data field names. This document describes the processing carried out, and the assumptions made, to convert the data into a format suitable for inclusion in the Australian Fishing Zone Information System (AFZIS). This format, in turn, was adapted to render the data compatible with the HMAP/OBIS schema.

The map below gives an indication of the extent of the Southeast Australian shelf and slope; the 'view as map' link in the download panel at the right will show a much more detailed representation. The kml file download, when used with Google Earth, will render the extent of the Southeast Australian shelf and slope in detail.

Coverage Southeast Australian shelf and slope

Temporal 1937-1943

Geo-data



Downloads

Database - ASCII format (zip)

Database - Access 2000 format (zip)

Database - csv format (zip)

Documentation - PDF format (pdf)

Documentation - text format (txt)

Documentation - Word (.doc) format (doc)

Southeast Australian shelf and slope - kml file (141 KB vnd.google-earth.kml+xml) View as map

QR code link to this page



- Here part of a splash page for a dataset containing geographical information
- The geographic coverage is approximately represented in a functional Google map. More accurate mapping is provided by a link and a kml file
- For images (say) the splash page will be different again. More specialist pages being developed as resources allow

Hydra in Hull home page

Digital Repository



[UoH Home](#)
[Library](#)
[About](#)
[Contact](#)

[Login](#)
[Search History](#)



Limit your search

Resource type

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[more »](#)

Subject

Name

Language

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Popular searches

Electronic theses



University policies



Domesday dataset




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and the Hydra Project

Powered by 

Version 2.0

- Look again at the 'resource type' facet as seen by a member of the public.
- If we log in (using the University's single login system, CAS)...

Hydra in Hull home page: logged in



Digital Repository UNIVERSITY OF Hull

UoH Home Library About Contact Create Resource Browse sets Log Out acsrg Search History

hydra

Search

Limit your search

Resource type

- Examination paper (1,585)
- Thesis or dissertation (1,506)
- Structural set (620)
- Handbook (252)
- Learning materials (249)
- Dataset (160)
- Meeting papers or minutes (159)
- Regulation (112)
- Conference paper or abstract (89)
- Harvesting set (57)

more »

Subject

Name

Language

Queue

Collection

Welcome to Hull's digital repository, Hydra

Create a search by adding a search term in the box above and/or by using the filters (facets) at the left of the screen.

You are logged in and you are a member of contentAccessTeam, staff, admin

Popular searches

Examination papers

Electronic theses

Student handbooks

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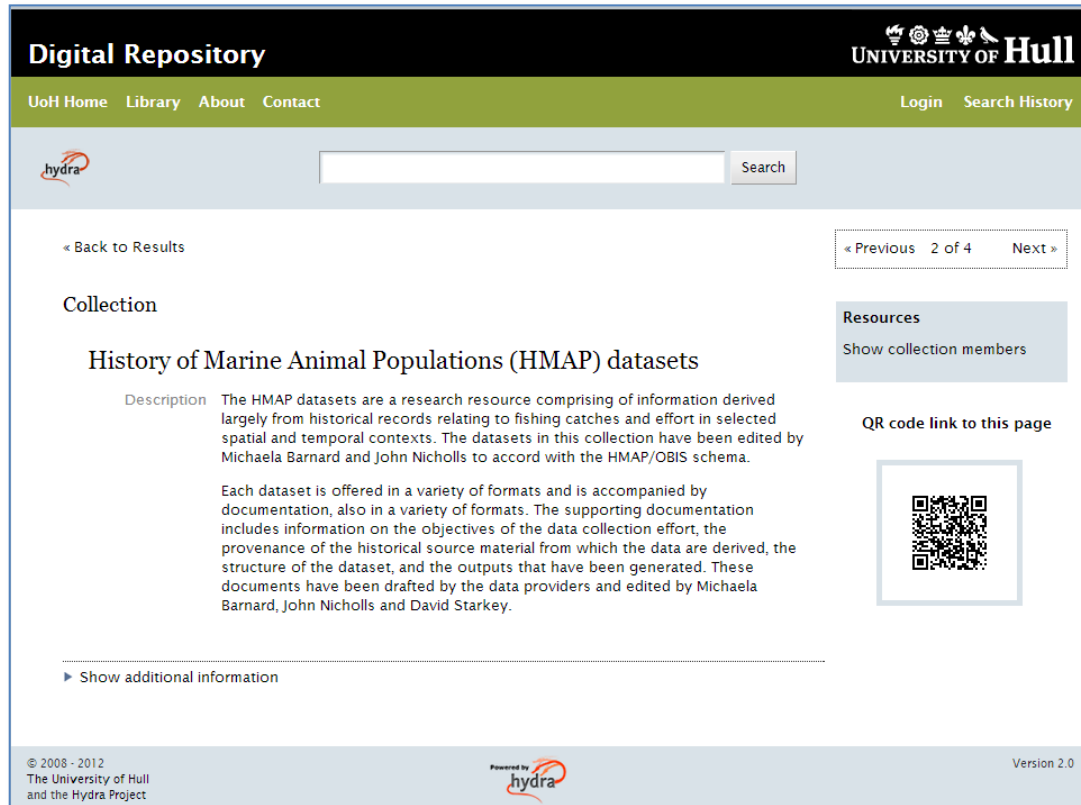
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Powered by hydra

Version 2.0

- ... we now see additional content appropriate to our login status (exam papers, minutes etc)
- Facets and search returns use gated discovery. Users are not be shown anything they could not ultimately access. Security can potentially be very granular
- As one allowed to create content we also get 'create resource' and 'browse sets'.

Hydra in Hull: collections



- Hull's Hydra head supports 'collections': objects with a common theme grouped together under a page explaining a context.
- Collections ('display sets') can be
 - temporary or permanent
 - flat or tiered (collections within collections)

Create, update delete

- Generally, creating content through the Hydra head is a three-stage workflow:
 1. A contributor creates an object with appropriate metadata
 - At this stage it is private to them and can be deleted
 2. They then pass it to the QA queue from where it is checked and allocated appropriate permissions by placing it in a ‘structural set’
 - Once it is in QA the contributor loses all rights to the object. It can (still) be deleted by the QA team
 3. After QA the object is published into the repository for use
 - The object cannot now be deleted; it can be hidden (maybe during a copyright challenge) or it can be removed (in which case the Fedora ‘deleted’ status is set but the object remains lurking available only to Fedora (not repository) administrators...)

Hydra in Hull 'create/edit' process

Edit an examination paper

Module(s)

Code

26156

Name

Procurement & supply chain management

Examination date (YYYY-MM)

2012-06

Examination paper (Examination title; if different from module name)

26156 Procurement & supply chain management (June 2012)

Subject

Business



Examination level

Level 5

Rights

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Additional notes

Department

Business School

Publisher

The University of Hull

Language

English

Language code

eng

Structural Set

-----2011/12 Semester 2

- The 'create' process offers a template customised to content type
 - (or a generic form if a customised page has not yet been created)
- Once created it is passed to the QA queue for someone else to check before being moved to the repository proper

Hydra in Hull 'create/edit' [2]

Edit a journal article

Author

Green, Richard A.

Journal article

Title

The RepoMMan Project: Automating workflow and metadata for an institutional repository

Subject

Repositories

JISC

Project management

RepoMMan

Rights

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Abstract

The purpose of this paper is to report on the work of the JISC-funded RepoMMan Project, which is developing a tool that will allow users to interact with a Fedora-based institutional repository. The tool facilitates user interaction with the repository whilst developing content, using a browser interface, and will bring partial automation to the process of assigning metadata to objects as they are made accessible to a wider audience.

Publisher

The University of Hull

Note

☐ Peer reviewed

Language

English

Structural Set

RepoMMan

Display Set

Published

Published in

OCLC Systems and Services

ISSN (Print)

DOI

10.1108/10650750710748513

Volume

2

Issue

2

Date

2007

ISSN (Electronic)

Link to publication

http://dx.doi.org/10.1108/10650750710748513

Pages

210

to

215

- By contrast, part of the edit page for a journal article

Hydra in Hull 'create/edit' [3]

Assets

Browse to upload a file.

Choose File No file chosen

Upload File

Sequence	Content label	
1	Thesis	Thesis.pdf ✕
2	Video 1	Video 1.avi ✕
3	Video 2	Video 2.avi ✕
4	Video 3	Video 3.avi ✕
5	Video 4	Video 4.avi ✕
6	Video 5	Video 5.avi ✕

Save assets

Publish

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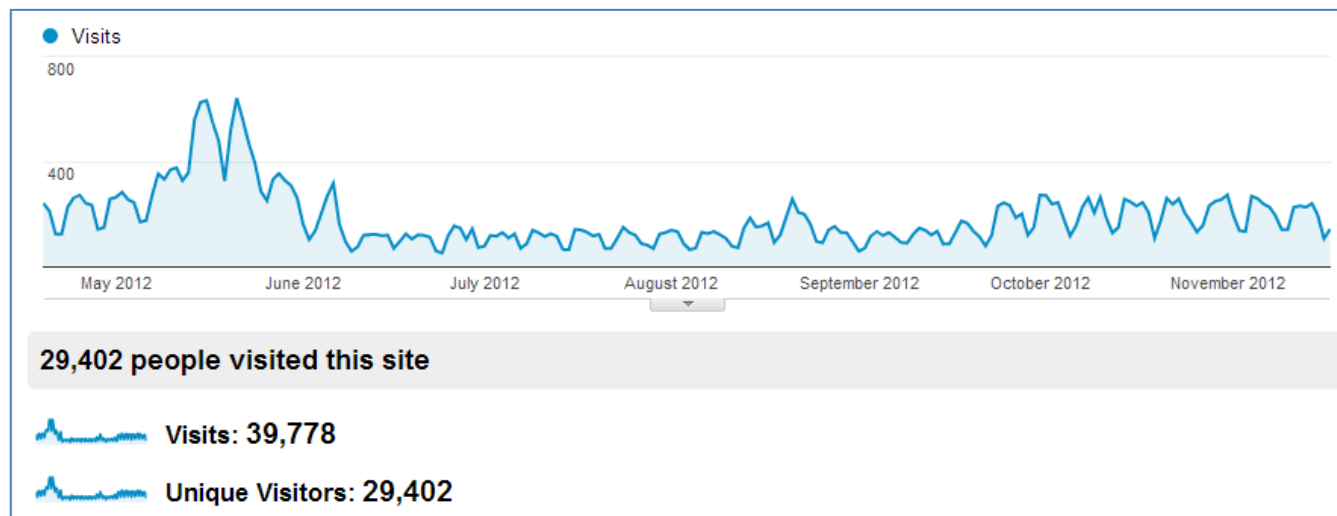
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hydra

Version 2.0

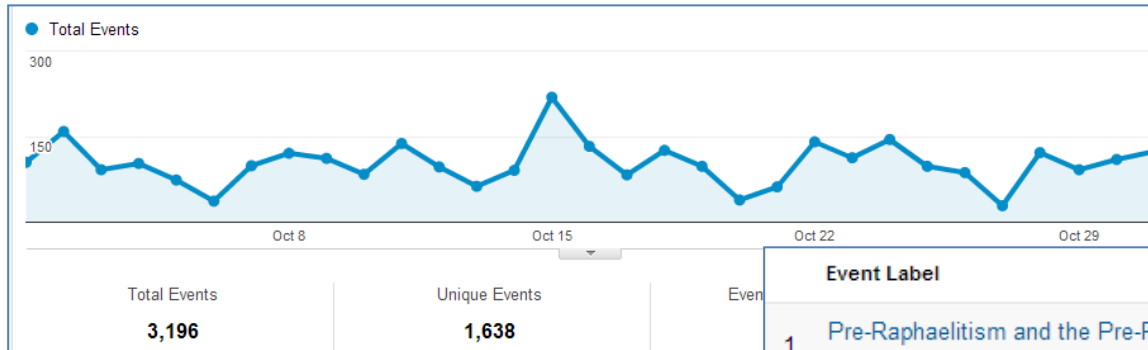
- All create/edit pages have a similar section at the bottom to deal with content.
- Items for download can be sequenced...
- ...and individually labelled

Take up: visits

- Users (both end-users and administrators) are enthusiastic. Usage is steadily rising
 - (Guess when examinations are...?)



Take up: downloads



Top downloads for October 2012

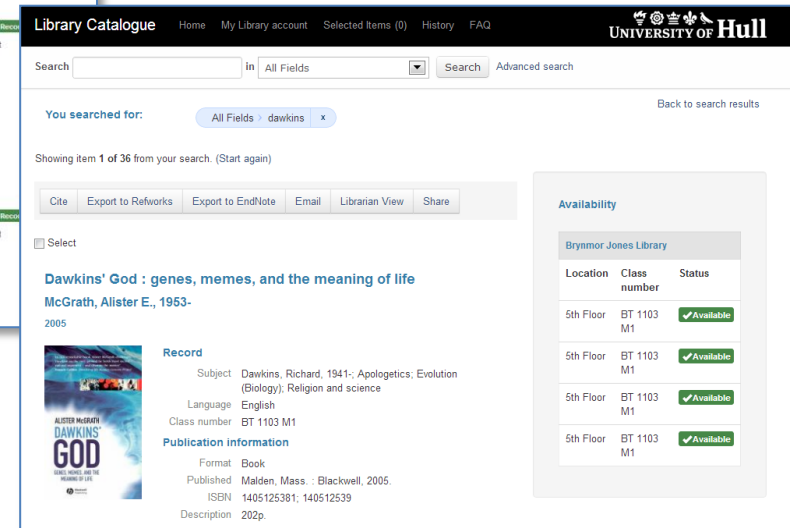
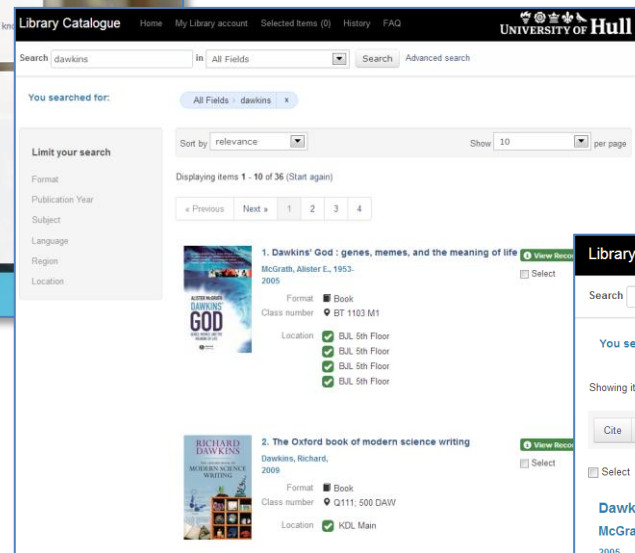
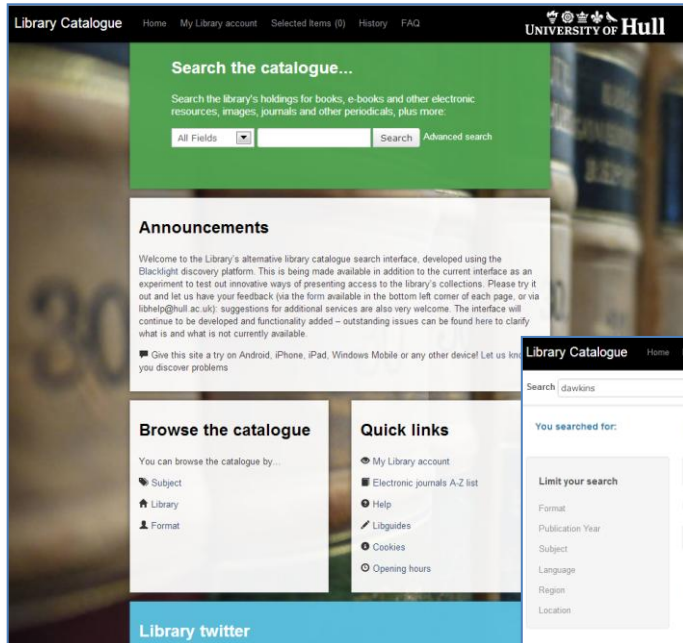
	Event Label	Total Events	↓
1.	Pre-Raphaelitism and the Pre-Raphaelite Brotherhood, Volume 1	65	
2.	56354 Research methods (January 2010)	42	
3.	Intervention to alleviate shyness : social skills training and brief counselling	30	
4.	Accounting, resource allocation, planning and efficiency : case studies of the United Kingdom and Iraqi universities	24	
5.	03001 Foundation maths 1 (January 2011)	22	
6.	26207 Microeconomics (January 2011)	21	
7.	Strategic management in the public sector: An interpretive study of the application of strategic management practices in the local authorities in Malaysia	21	
8.	57025 Engineering management (January 2011)	20	
9.	23715 Introductory investment mathematics (June 2010)	19	
10.	The Psychology of Educational Technology and Instructional Media	19	

The majority of downloads are currently

- ETDs
- past undergraduate examination papers (somewhat seasonal)
 - The downloads on the right with five digit module numbers are exam papers

Integration and embedding

- Just (October 2012) launched a beta of a Blacklight-powered OPAC interface



Clear 'family resemblance' with Hydra in Hull

As a Hydra partner?

- Many improvements and additions fed back to the core Hydra code for community use
 - message driven, full-text indexing
 - support for structural, display and OAI-PMH harvesting sets
 - support for simple, compound and complex objects in the same IR
 - etc
- We hope to serve as a reference site and to provide support for other possible adopters (especially UK and wider Europe)
- Advocacy of open source (especially community source) work
 - Currently Ruby on Rails is not widely adopted in UK HEIs as a development platform: it deserves more attention

Contacts and links

Project Director: Chris Awre (c.awre@hull.ac.uk)

Project Manager: Richard Green (r.green@hull.ac.uk)

Developer lead: Simon Lamb (s.lamb@hull.ac.uk)

Repository site: hydra.hull.ac.uk

Hydra website: projecthydra.org

(includes screencasts from Hull and many others)

(Library catalogue site: blacklight.hull.ac.uk)