

# Reusing repository technology for Cultural Heritage and Special Collections

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**Open Repositories 2014** 















# Background

- University of Auckland
  - Existing central DSpace repository
     ("SuperIndex") for simple index management
  - In-house DSpace, Solr and webdev expertise
  - Existing collections using various unsupported systems
  - New digitisation projects and Special Collections exhibitions













# Background

- University of Edinburgh
  - Repository Review Spring 2013
  - Proliferation of project websites
  - Special Collections requirements
  - Digitised content
  - Harvesting requirements
  - Experience and knowledge of DSpace













#### Common Requirements

- Desire to replace bespoke solutions
- Need to get new collections online quickly
- Different collections = different requirements
  - Metadata
  - Design
  - Audience















#### MARCHITECTURE ARCHIVE MINAGES



BRIEF IMAGE DISPLAY New Search About

More Detail Record 1 of 20 Record Id: 33986 Image No: GI/GI\_005

Title: Cross-Section [Auckland Savings Bank]

Architect: Bartley, Edward, 1839-1919

Contributors: Edward Bartley Architect (practice)

Relation: Is part of the Edward Bartley collection, Auckland Savings Bank project

Place: Oceania | New Zealand | North Island | Auckland Region | Auckland City | Queen Street

Record 2 of 20 Record Id: 34112 Image No: GJ/GJ\_030 More Detail

Title: McDonalds, October 2006

Architect: Bartley, Edward, 1839-1919

Contributors: Edward Bartley Architect (practice)

Holley, Rose (photographer)

Relation: Is part of the Architecture Photograph Series - RH

Place: Oceania | New Zealand | North Island | Auckland Region | Auckland City | Queen Street

Record 3 of 20 Record Id: 34113 Image No: GJ/GJ\_031

Title: McDonalds, October 2006

Architect: Bartley, Edward, 1839-1919

Contributors: Edward Bartley Architect (practice) Holley, Rose (photographer)



Te Whare Wänanga o Tāmaki Makaurau















New Search

21 September 1881













#### **Architecture Archive**

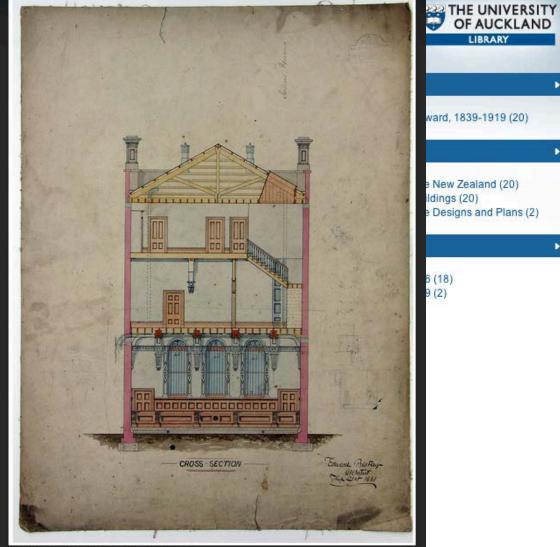
Q bank savings

1-5 of 20 results









Title: Cross-Section [Auckland Savings Bank]

Copyright Notice: Items in the Architecture Archive image collection may not be reproduced, transmitted or copied without permission, except for the purposes of private study and research, criticism and review, or education, consistent with the New Zealand Copyright Act 1994.

















ward, 1839-1919 (20)

LIBRARY

e New Zealand (20) Idings (20)

e Designs and Plans (2)

6 (18) 9 (2)



#### Cultural Heritage

- More "interactive" exhibitions
- Greater focus on audio/visual elements
- Variety of metadata schemas
- Casual users vs domain experts
- Working closely with curators
  - Metadata ordering
  - Specialist ontologies













# **Designing Views**

- Audio visual content
- Very visual sites
  - Designed around the images
  - Problem when images vary in sizes (clarinets, harpischords, drums)
  - Metadata is secondary













# Branding

- Easy to identify
- Individual designs or common themes
- Links from Twitter, Facebook, institutional website, news articles
- Domain Names















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#### Special Collections Bookplates



Labels & Stamps

Armorial

Pictorial



Bookplate of Gracilla Boddington



Bookplate of William Aldis Wright



Bookplate of Earl of Dartmouth



Bookplate of Ada Grey Wilson



Bookplate of George Barr McCutcheon



Bookplate of Gilbert Murray



Bookplate of Constitutional Club Library



Bookplate of William Hesketh Lever



James Edge Partington



Bookplate of A. Lanna



Bookplate of E.M. Sladden



Bookplate of Joseph M. Gleason















#### Special Collections Bookplates



Labels & Stamps

Armorial

Pictorial

#### Bookplate of Ada Grey Wilson

Owner An Australian lacemaker, designer and member of the Art

> Society of Tasmania, Ada Grey Wilson (18?-1948 ca.) moved to England in 1912. She was the daughter of Tasmanian

Premier Sir James Wilson and Deborah Hope.

John Augustus Charles Harrison (1872-1955) was an engraver Creator

at J & E Bumpus Ltd, a leading bookselling firm in Oxford

Street, London.

[Sources]

1 print : engraving ; sheet 9.3 x 8.2 cm. Description

Country Australia 1906 Date

Found in Baxter, C. E. (1884). Talofa: letters from foreign parts. London

> : Low, Marsden, Searle & Rivington. New Zealand Glass Case 919 B35

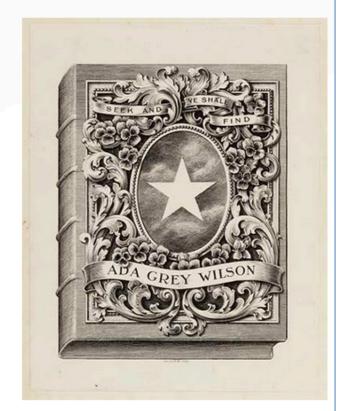
This image may be protected by copyright and is made Access

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# "Just the tire for a play!"



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Auckland's amateur theatre scene

Musgrove's vision

Many hands make light work...

X Close

#### Costuming notebook from the 1970 Summer Shakespeare production of William Shakespeare's A midsummer night's dream.

Abstract This is a costume design from the wardrobe notebook for the

production of *A midsummer night's dream* for the characters, Peter Quince, Robin Starveling, Tom Snout, Nick Bottom, Francis Flute and Snug. Musgrove noted in the programme that the costumes were "meant to suggest a no-time, a vaguely medieval Greece such as the Elizabethans might have

visualized".

Creator Leek, Robert H., 1935-

**Description** gouache, ink, paper, 40.5 (w) x 33cm

Date 1970

Subject Theater -- Costume;

Citation Sydney Musgrove papers on Auckland theatre activities. MSS

& Archives 2013/7, item 2/5/4.

Provenance Donated by Marjorie Musgrove in March 2005.

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permitted.





































#### DSpace as an admin tool

- Configurable input forms
- Easy to import lots of records
- Quick to install
- Extendable metadata schemas















#### Solr as data provider

- "Virtual collections"
- Using existing repository index
- Replication for performance, scalability and redundancy
- Schema determines what is available to the UI
- Any repository with a Solr index













# Skylight solution

- Configurable front-end
- Faceted search and browse
- Hidden repository
- One system many websites
- Template to make sites quick to launch
  - Header
  - CSS
  - Static pages





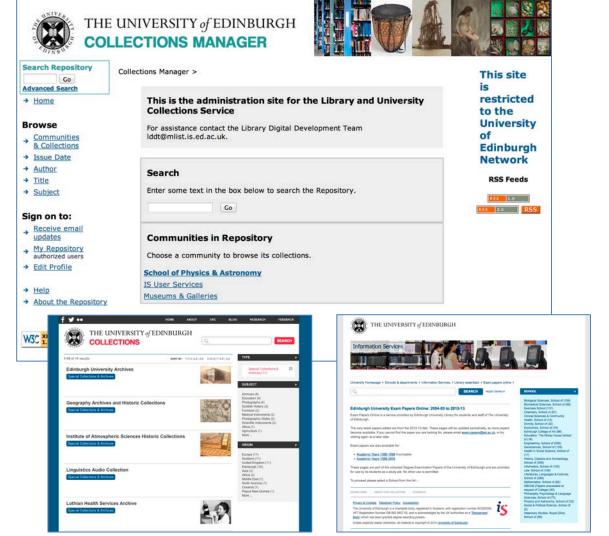








## One System many websites











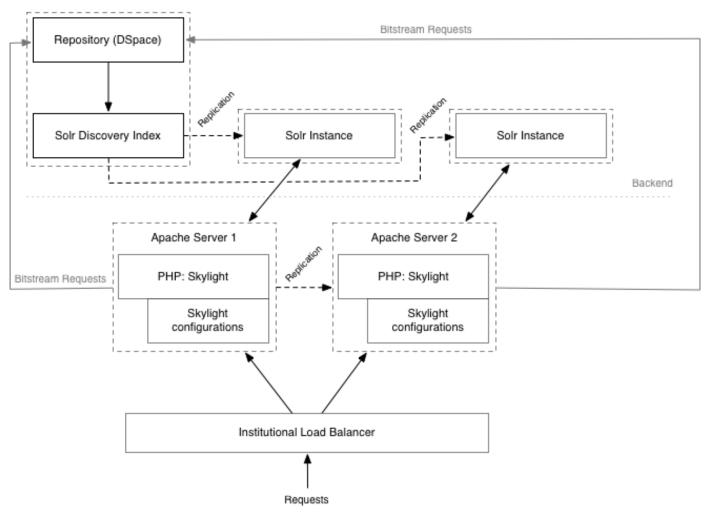








#### Architecture













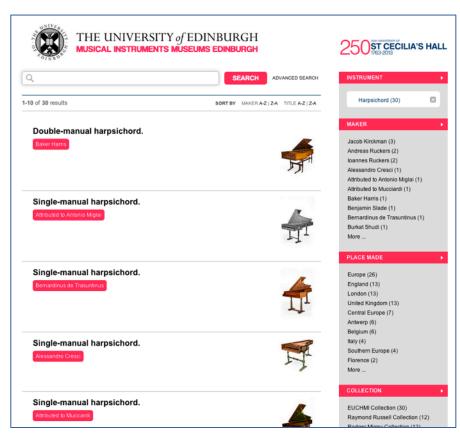




#### Creating new collections as easy as ...

- a. Load data into DSpace
- b. Create Solr index
- c. Configure Skylight

Go to the URL for your website















#### **Gotchas and Solutions**

- Digital object display
- Persistent URIs
  - Handles resolver, apache rewrite rules
- OAI and OAI identifiers
  - XOAI vs proxy OAI
- Solr configuration
  - Platform specific
  - DSpace configuration















#### Hidden Systems and Linking Systems

- Importing and linking DSpace to
  - Museum Collection System (Vernon)
  - Archival Systems (Archivist Toolkit and ArchivesSpace)
  - Library Management System
  - Digitool
  - Spreadsheets and legacy databases
  - Image System (LUNA)















#### Metadata Issues

- Metadata 'munging' getting from different standards to Dublin Core
- Has to still be useable by aggregators
- Not the native metadata standard
- Can merge metadata e.g. the digital objects
- Should metadata be stored in original format?















#### Harvesting and Aggregators

OAI-PMH in Dublin Core and other specialist metadata standards

- MIMO <a href="http://www.mimo-international.com">http://www.mimo-international.com</a>
- Europeana <a href="http://www.europeana.eu">http://www.europeana.eu</a>
- Cultural Grid <a href="http://www.culturegrid.org.uk">http://www.culturegrid.org.uk</a>

```
Art dc -> pndsdc format-> UMIS -> Culture Grid
CLDs dc -> oai_rslp format -> UMIS -> Culture Grid
MIMEd dc -> lido format -> MIMO -> Europeana
LUNA vra -> dc format -> European Library -> Europeana Cloud
```













#### What's next for us

- DSpace 4/5
- Skylight II
- More collections:

Archives collections from ArchivesSpace, UoA Art Collection, Architecture Archive, Index to New Zealand Art, Student Newspaper Archive, Cockburn Geological Museum, Rare Books Scans, Digitised Wax-Cylinder recordings, Digitised Political Handbooks, Anatomy Collection, Staff profiles, Natural History, WWI Roll of Honour, Alumni database, Fairbairn Project, Exhibitions, Exam Papers . . . (not just Special Collections)













# Skylight II

- Bootstrap
  - Responsive layout for mobile devices
  - Familiar UX
- Handlebars
  - Revised template approach
  - Better separation of views and controllers
- Nodejs and PHP data providers
  - Choose best fit for your environment

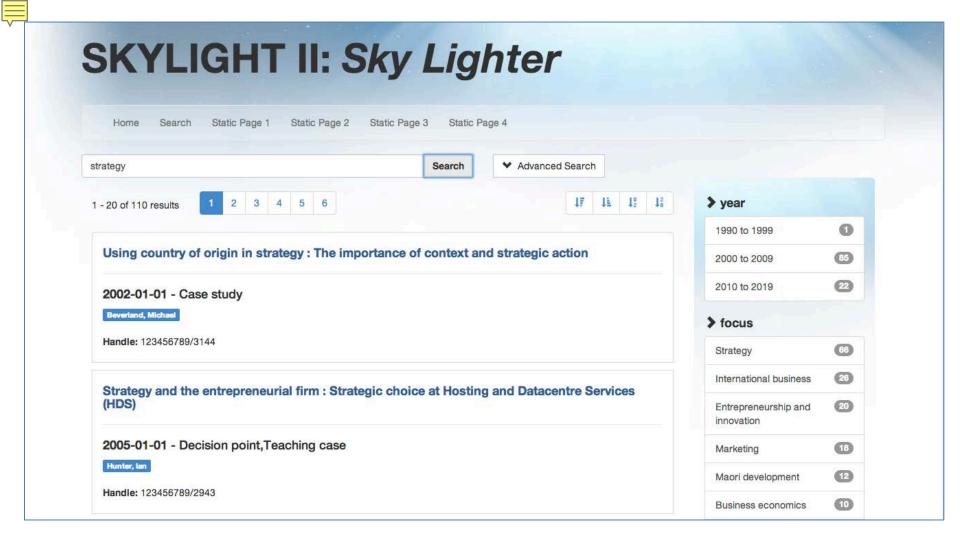












#### Responsive layout (Twitter Bootstrap)

















#### **SKYLIGHT II: Sky Lighter**

Search

Static Page 1

Static Page 2

Static Page 3

Static Page 4

#### Using country of origin in strategy: The importance of context and strategic action

Handle

123456789/3144

Title

Using country of origin in strategy: The importance of context and strategic action

Year

2002-01-01

Category Case study

Abstract Case studies for six agricultural marketing boards were provided, including Merino New Zealand, Sealord, and the New Zealand Game Industry Board. In all the cases, Country of Origin (COO) was utilised as part of a differentiation strategy in international markets. In most instances, the organizations believed their New Zealandness gave them a distinct advantage over competitors

#### Related items

100% pure New Zealand: Destination branding campaign: Marketing New Zealand to the world

2011-01-01 - Case study

Purkavastha. D Bose. S Muthukumar. R

Hi, look at my {{handlebars}}!



Search or browse the collection

Q Search

View statistics and popular items

J Statistics

Better templating (Handlebars)

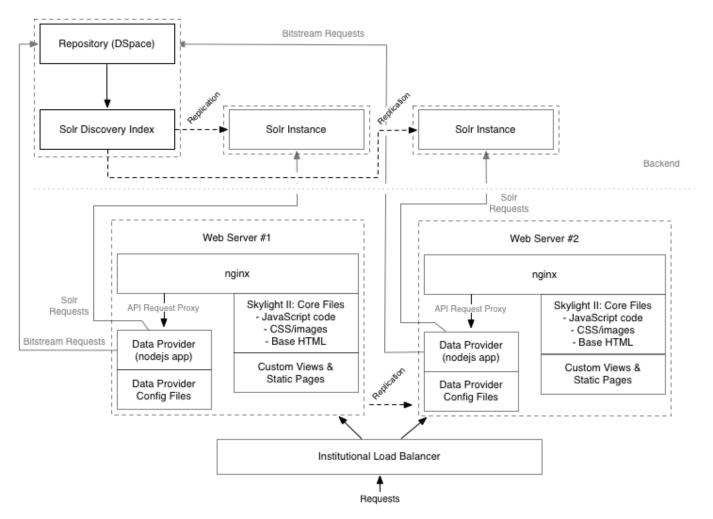








#### **Proposed Architecture**







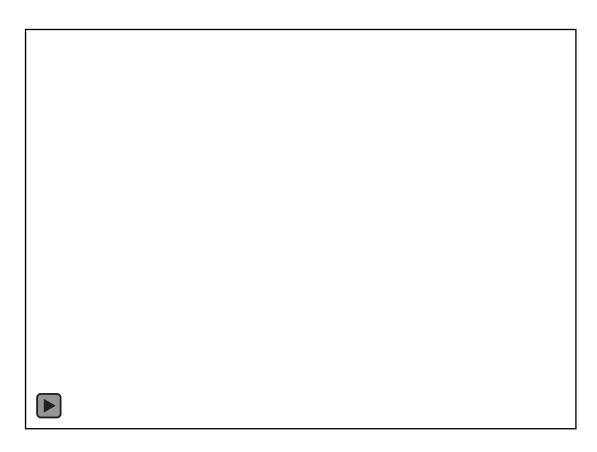








# Views as Widgets











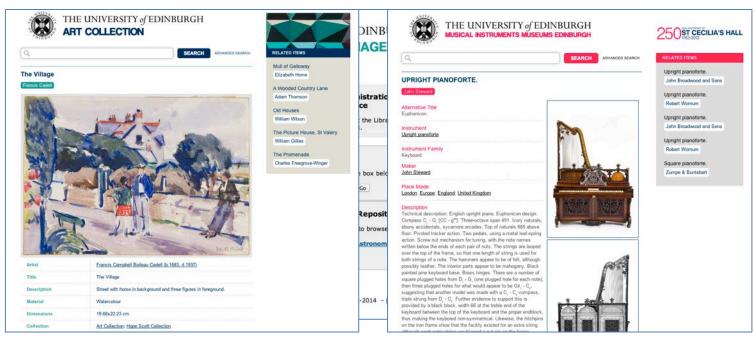






#### Conclusion

- Re-use of existing repository technology
- Invisible repository
- Creation of collection specific websites















#### Live Sites

#### **University of Auckland:**

- Special Collections Bookplates Exhibition <u>http://www.specialcollections.auckland.ac.nz/bookplates-exhibition/</u>
- Special Collections Musgrove Exhibition
   <a href="http://www.specialcollections.auckland.ac.nz/musgrove-exhibition/">http://www.specialcollections.auckland.ac.nz/musgrove-exhibition/</a>
- The New Zealand Asia Information Service <a href="http://nzais.auckland.ac.nz">http://nzais.auckland.ac.nz</a>
- New Zealand Earth Science Theses <a href="http://nzest.auckland.ac.nz">http://nzest.auckland.ac.nz</a>
- New Zealand Business Case Collection <a href="http://nzbcc.auckland.ac.nz">http://nzbcc.auckland.ac.nz</a>

#### **University of Edinburgh:**

- Collection Level Descriptions <a href="http://collections.ed.ac.uk">http://collections.ed.ac.uk</a>
- Musical Instruments Museums Edinburgh <u>http://collections.ed.ac.uk/mimed</u>
- Edinburgh University Art Collection <a href="http://collections.ed.ac.uk/art">http://collections.ed.ac.uk/art</a>
- Exam Papers <a href="http://exampapers.ed.ac.uk">http://exampapers.ed.ac.uk</a> (coming soon UoE only)















#### **Thanks**

Github <a href="https://github.com/skylightui/skylight">https://github.com/skylightui/skylight</a>

#### Questions

Contact us with any questions:

Kim Shepherd, <u>k.shepherd@auckland.ac.nz</u>, @kimshepherd Claire Knowles, <u>claire.knowles@ed.ac.uk</u>, @cgknowles











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- Ada Grey Wilson's bookplate, uUed with permssion, ttp://www.specialcollections.auckland.ac.nz/bookplates-exhibition/record/59592











