Archives & The Semantic Web

Mark A. Matienzo
The New York Public Library
New York Archivists’ Roundtable
Annual Meeting, June 23, 2009
Disclaimer

The following presentation, while factual, expresses opinions of my own and not of my employer, my coworkers, my family, etc.
Archives & The Web
The Web isn’t new, even to archivists.
<table>
<thead>
<tr>
<th>Item #</th>
<th>Date</th>
<th>Time</th>
<th>Recs</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>000873</td>
<td>93/06/16</td>
<td>10:01</td>
<td>40</td>
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</tr>
<tr>
<td>002922</td>
<td>93/12/24</td>
<td>01:30</td>
<td>65</td>
<td>[Fwd] [Practice:] Mosaic</td>
</tr>
<tr>
<td>002941</td>
<td>94/01/02</td>
<td>09:01</td>
<td>186</td>
<td>[Fwd] FYI MOSAIC platforms</td>
</tr>
<tr>
<td>003411</td>
<td>94/02/04</td>
<td>10:18</td>
<td>18</td>
<td>Oregon State Archives WWW Server</td>
</tr>
<tr>
<td>003844</td>
<td>94/03/04</td>
<td>06:12</td>
<td>48</td>
<td>Re: archive images on the net</td>
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<tr>
<td>003888</td>
<td>94/03/08</td>
<td>14:27</td>
<td>78</td>
<td>Mosaic and other stuff out there</td>
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<td>003912</td>
<td>94/03/10</td>
<td>06:28</td>
<td>79</td>
<td>Re: Internet Chameleon, Internet Anywhere (fwd)</td>
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<td>004996</td>
<td>94/05/17</td>
<td>22:58</td>
<td>36</td>
<td>Re: multimedia</td>
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<td>005273</td>
<td>94/06/07</td>
<td>00:02</td>
<td>128</td>
<td>Summer Go-pher-it Workshops</td>
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<td>005333</td>
<td>94/06/13</td>
<td>14:39</td>
<td>54</td>
<td>National Archives puts Gopher Server on Internet</td>
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<td>005342</td>
<td>94/06/14</td>
<td>15:13</td>
<td>25</td>
<td>Notre Dame Archives Web Server</td>
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<tr>
<td>005525</td>
<td>94/07/07</td>
<td>18:38</td>
<td>137</td>
<td>Contact Address Change - HMD Prints &amp; Photographs On-line</td>
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<tr>
<td>005534</td>
<td>94/07/09</td>
<td>09:57</td>
<td>37</td>
<td>WWW announcement</td>
</tr>
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</table>
Welcome to the National Archives and Records Administration (NARA). NARA is the government agency responsible for overseeing the management of the records of the federal government. NARA ensures, for the Citizen and the Public Servant, for the President and the Congress and the Courts, ready access to essential evidence that documents the rights of American citizens, the actions of federal officials, and the national experience.

The Visitor's Gallery

- Online Exhibit Hall: selected NARA exhibitions
- Gift Shop and Book Store: publications and merchandise relating to NARA and its holdings
- The Digital Classroom: ideas, programs, and publications for the teacher
- Public Programs: conferences, training programs, lectures, films, tours, and other public events

Looking for Information in the National Archives

Genealogy and Individuals

The Genealogy Page provides general information on NARA's resources on individuals, such as veterans, as well as guides to the use of NARA holdings. There are only a very few genealogical records currently available online.

Historical Records of Government Agencies

NARA makes available to the public the historically valuable records of the three branches of federal government: executive (including the President), legislative, and judicial. National Archives holdings include textual; audiovisual; cartographic and architectural; and electronic records.
Web-based archival description isn’t new.
BERKELEY FINDING AID PROJECT

The Library
University of California, Berkeley

Funding provided by:
United States Department of Education
Higher Education Act Title IIA Research and Demonstration Grant
October 1993-September 1995

Software Grants provided by:
Electronic Book Technologies, Providence, Rhode Island
ArborText, Ann Arbor, Michigan

For a more detailed description of the Berkeley Finding Aid Project, see:

- The Berkeley Finding Aid Project: Standards in Navigation
- Access to Digital Representations of Archival Materials: The Berkeley Finding Aid Project

November 1994

The Berkeley Finding Aid Project is a collaborative endeavor to test the feasibility and desirability of developing an encoding standard for archive, museum, and
Yale University
Beinecke Rare Book and Manuscript Library

Searching the Osborn Collection Finding Aids

Search the available finding aids for the James Marshall and Marie-Louise Osborn Collection using keyword(s) and Boolean connectors (and, or, not). If two search terms are entered without a connector, an "or" connector is assumed. Words can be truncated using an asterisk and the searching is case insensitive. Parentheses may be used to build more complicated searches.

A search will retrieve a list of all files in the Osborn Collection directory which contain the searched keyword(s) anywhere within the text. To a significant extent, search capabilities within each document retrieved will vary in accordance with your local system. Use your local help screens for further information.

In some cases, materials pertaining to an individual whose papers are primarily located in the Osborn Collection can also be found in other Beinecke holdings. The Burney Family Papers, for example, are a large holding in the Osborn Collection, but single letters (or groups of letter) to or from various individual members of the Burney family may be found in other Beinecke Collections. You may wish to search Search All Beinecke Manuscript Collections or to repeat your search in other relevant collection directories to obtain the most complete results. For more information about searching Beinecke Library finding aids refer to About Searching Beinecke Library Finding Aids.

[ Beinecke Home Page ] [ Yale Library Home Page ] [ Yale Front Door ]

Comments: Ellen R. Cordes, ellen.cordes@yale.edu Copyright 1996. Beinecke Rare Book and Manuscript Library, Yale University
All rights reserved.
Revised: February 2, 1996
URL: http://www.library.yale.edu/beinecke/brbhome.htm

http://web.archive.org/web/19970523152709/http://www.library.yale.edu/beinecke/aboutosb.htm
The EAD Document Type Definition (DTD) is a standard for encoding archival finding aids using the Standard Generalized Markup Language (SGML). The standard is maintained in the Network Development and MARC Standards Office of the Library of Congress (LC) in partnership with the Society of American Archivists.

General Information

- Background Information on EAD
- EAD Design Principles (formerly the "Ann Arbor Accords")
- EAD Listserv (How to subscribe)
- EAD Sites on the World Wide Web

News and Announcements

- EAD SGML DTD Version 1.0 now available

EAD DTD Official Documentation

- EAD DTD and related files: FTP instructions
- EAD Tag Library, printed edition
- EAD Application Guidelines (Available in Fall 1999)
Register of the José Greco professional and personal papers, 1942-1984.

José Greco

(S) *MGZMD 112

Dance Collection
The New York Public Library for the Performing Arts
New York
The Web, at its essence, is about links.
We take links for granted in our work.
# Archival Materials Access Tool (AMAT) Search Results

Your search returned 2100 collections with finding aids.

<table>
<thead>
<tr>
<th>Collection</th>
<th>Location</th>
</tr>
</thead>
</table>
| 13th Moon, Inc.  
Finding Aid | Catalog Record |
| A. P. Watt and Son.  
Finding Aid | Catalog Record |
| Aaron Diamond Foundation.  
Finding Aid | Catalog Record |
Lina Abarbanell papers, 1886–1963.  
Finding Aid | Catalog Record |
| Abbey Theatre.  
Finding Aid | Catalog Record |
Finding Aid | Catalog Record |
| Abdo, Reza. | Theatre |

[http://www.nypl.org/research/manuscripts/result.cfm?find=1](http://www.nypl.org/research/manuscripts/result.cfm?find=1)
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| 13th Moon, Inc.  
| Finding Aid | Catalog Record |
| A. P. Watt and Son.                                                        | Berg     |
| Finding Aid | Catalog Record |
| Aaron Diamond Foundation.                                                 | Manuscripts |
| Finding Aid | Catalog Record |
| Abarbanell, Lina, 1880–1963.                                              | Theatre  |
| Lina Abarbanell papers, 1886–1963.                                       |          |
| Finding Aid | Catalog Record |
| Abbey Theatre.                                                             | Berg     |
| Finding Aid | Catalog Record |
| Finding Aid | Catalog Record |
| Abdoh, Reza.                                                               | Theatre  |
The Henry W. and Albert A. Berg Collection of English and American Literature

Treasures of The New York Public Library Video Series presents: The Jack Kerouac Archive

- Collection Description
- History
- Access to the Collection
- Finding Materials
- Permission to Publish
- Reprographic Orders
- Manuscript Collection Summaries
- Berg Finding Aids
- NYPL Digital Gallery Materials
- Recently Acquired or Cataloged
- Exhibitions
- Illustrated Presentations

Room 320
The New York Public Library

Beatific Soul: Jack Kerouac on the Road
Exhibition on view from November 9, 2007 through March 15, 2008

http://www.nypl.org/research/chss/spe/brg/berg.html
# Berg Coll MSS Abbey Theatre

## Guide to the Abbey Theatre Records, 1910-1938

The Henry W. and Albert A. Berg Collection of English and American Literature.

The New York Public Library New York, New York


Fifth Avenue and 42nd Street
New York, NY 10018-2788
(212) 930-0802
brgref@nypl.org
http://nypl.org/research/chss/spec/brg/berg.html

Processed by: Staff
Date Completed: 2006
Encoded By: Lynn Lobash and Nina Schneider

Processed and encoded with the generous support of the Gladys Kreible Delmas Foundation.

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## Table of Contents

- Descriptive Summary
- Subjects
- Administration Information
- Biography
- Scope and Content Note
- Series Descriptions

http://www.nypl.org/research/manuscripts/berg/brgabbey.xml
This is a synthetic collection consisting of manuscripts, typescripts, correspondence, financial and legal documents, and a portrait. The manuscripts and typescripts include stage directions, lists of actors, extracts of reviews of performances, schedules, and other matters related to the Theatre, as well as articles, notes, and reviews by Sean O'Casey, a lecture by Alfred Waring, and addresses by W. B. Yeats, Lady Gregory, and J. M. Synge. The correspondence, dating from 1910 to 1928, includes letters from the Theatre to Sean O'Casey, Lady Gregory, and W. B. Yeats, as well as letters relating to the Theatre between various correspondents, including Sara Allgood, Annie Elizabeth Fredericka Horniman, and Bertha June Lucas.

The bulk of the collection consists of financial documents, specifically weekly returns dating from 1920 to 1931, financial statements, and lists of checks made out to various payees. The Abbey Theatre in Dublin is an Irish theatrical company, founded in 1904 by William Butler Yeats and Lady Isabella Augusta Persse Gregory. J. M. Synge and Lady Gregory were its first directors. It is devoted to Irish drama. This is a synthetic collection, created from materials acquired through gift and purchase from various sources. Some of the materials were among Ria Mooney's correspondence and with Lady Gregory's correspondence.
Links go beyond the easily accessible sort.
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This is a synthetic collection, created from materials acquired through gift and purchase from various sources. Some of the materials were among Ria Mooney's correspondence and with Lady Gregory's correspondence.

http://catnyp.nypl.org/record=b7621732
SUBJECTS (1-41 of 41)

Abbey Theatre.

1. Hunt, Hugh, 1911-
   The Abbey, Ireland's national theatre, 1904-1978 [i.e. 1979] / Hugh Hunt
   This title is held by: Performing Arts - Theatre

<table>
<thead>
<tr>
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<tr>
<td>Performing Arts - Theatre</td>
<td>NCOM 92-3579</td>
<td>AVAILABLE</td>
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</table>

2. Fay, Gerard.
   The Abbey Theatre, cradle of genius.
   This title is held by: Performing Arts - Theatre

<table>
<thead>
<tr>
<th>Location</th>
<th>Call Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performing Arts - Theatre</td>
<td>NCOM (Fay, G. Abbey theatre, cradle of genius)</td>
<td>AVAILABLE</td>
</tr>
</tbody>
</table>

3. Abbey Theatre.
   Abbeyonehundred 1904-2004 : what will you see?
1. The story of Ireland's national theatre: the Abbey Theatre, Dublin.
   by Byrne, Dawson.
   Haskell House, 1971.
   Call #: 792.19 B
   Holdings: Reservable Copies: 1 Number of Holds: 0
   Format: Book

2. The Abbey Theatre, cradle of genius.
   by Fay, Gerard.
   Call #: 792.12 F
   Holdings: Reference Only: 1
   Format: Book

http://leopac4.nypl.org/ipac20/ipac.jsp?
  session=1O4572959KO37.4065&profile=dial-3&uri=link=1100083~!S908632~!
  1100001~!1100087&aspect=basic&menu=search&ri=2&source=~!
  dial&term=Abbey+Theatre&index=SL
Further down the rabbit hole.
Abbey Theatre

From Wikipedia, the free encyclopedia

This article is about the Abbey Theatre, Dublin. For Abbey's Theatre on Broadway, see Knickerbocker Theatre (Broadway).

The Abbey Theatre (Irish: Amharclann na Mainistreach), also known as the National Theatre of Ireland (Irish: Amhardann Náisiúnta na hÉireann), is a theatre located in Dublin, Ireland. The Abbey first opened its doors to the public on 27 December 1904, and despite losing its original building to a fire in 1951, has remained active to the present day. The Abbey was the first state-subsidised theatre in the English-speaking world; from 1925 onwards it received an annual subsidy from the Irish Free State. Since July 1986, the Abbey is located at 26 Lower Abbey Street, Dublin 1.[1]

In its early years, the theatre was closely associated with the writers of the Celtic revival, many of whom were involved in its foundation and most of whom had plays staged there. The Abbey served as a nursery for many of the leading Irish playwrights and actors of the 20th century, including William Butler Yeats, Lady Gregory, Augustus, Sean O’Casey and John Millington Synge. In addition, through its extensive programme of touring abroad and its high visibility to foreign, particularly North American, audiences, it has become an important part of the Irish tourist industry.[2]

Contents [hide]

1 History
   1.1 Irish Literary Theatre
   1.2 Foundation
   1.3 Early years
   1.4 After Yeats
2 Recent years
   2.1 New generation
   2.2 Development
3 Notes

http://en.wikipedia.org/wiki/Abbey_Theatre
2009 SEASON

NOW ON  The Last Days of a Reluctant Tyrant  27 May - 11 July

NEXT  The Rivals  22 July - 19 Sept

The Seagull  24 - 29 Aug

Happy Birthday Brian Friel!  9 - 13 Sept

Ages of the Moon  13 - 28 Nov

Download the summer 09 Brochure

Download our three-year review 2006-2008

Join Us – Abbey Memberships

Gift Vouchers

http://www.abbeytheatre.ie/
Links become implicit.
Computers don’t “do” implicit links.
Humans must correlate data on both ends.
These access points don't link to anything.
The Semantic Web
I have a dream for the Web [in which computers] become capable of analyzing all the data on the Web – the content, links, and transactions between people and computers. A ‘Semantic Web’, which should make this possible, has yet to emerge, but when it does, the day-to-day mechanisms of trade, bureaucracy and our daily lives will be handled by machines talking to machines. The ‘intelligent agents’ people have touted for ages will finally materialize.

Linked Data is a way to link better.
Linked data is not a new concept in archives.
If the series becomes the primary level of classification, and the item the secondary level, a) items are kept in their administrative context and original order by physical allocation to their appropriate series, and b) series are no longer kept in any original physical order in a record or shelf group (if there is any such order) but simply have their administrative context and associations recorded on paper.

### Structural and Diachronic Links of Series

<table>
<thead>
<tr>
<th>Element</th>
<th>Links</th>
<th>Record</th>
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</thead>
<tbody>
<tr>
<td><strong>A. context control:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. (a) Organisation</td>
<td><strong>To Same Element:</strong></td>
<td><strong>Register of Organisations</strong></td>
</tr>
<tr>
<td></td>
<td>(1) Previous Organisation</td>
<td>(1) Register of Organisations</td>
</tr>
<tr>
<td></td>
<td>(2) Subsequent Organisation</td>
<td>(2) Register of Organisations</td>
</tr>
<tr>
<td></td>
<td>(3) Organisation(s) controlling</td>
<td>(3) Register of Organisations</td>
</tr>
<tr>
<td></td>
<td>(4) Organisation(s) controlled</td>
<td>(4) Register of Organisations</td>
</tr>
<tr>
<td></td>
<td><strong>To Other Elements:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(5) Agencies controlled</td>
<td>(5) Index to (and inventory of) Agencies by Organisation</td>
</tr>
</tbody>
</table>
Design Principles

1. Use URIs for names of things
2. Use HTTP URIs so people can look up those names
3. Provide useful information in standard formats at those URIs
4. Include links to other URIs so people can discover more things

Naming things with URIs tells us where to find them.
Using HTTP (Web) URIs tells us how to find these things.
Providing data in standard formats tells us what that thing is.
EAD is not a standard format in this sense.
RDF

1. Resource Description Framework
2. Presents relationships in a simple data structure
3. We can draw graphs of those relationships
4. We can represent those relationships in multiple formats for computers

In RDF, we say some thing has a property with a certain value.
<http://matienzo.org/#me> foaf:firstName "Mark".
<http://matienzo.org/#me> foaf:firstName "Mark".

thing (Me) property value
An RDF Graph

http://matienzo.org/#me

foaf:firstName

"Mark"
An RDF Graph

http://matienzo.org/#me

foaf:firstName → "Mark"
foaf:surname → "Matienzo"
foaf:based_near → http://dbpedia.org/page/Brooklyn
Simply linking to things is not enough.
RDF graphs show why we link to other things.
These links say what the relationships are.
Links between things become crossreferences.
Precision improves with explicit links and "smart crawlers."
Search results for terms “abbey theatre”, found 288

Théâtre de l'Abbaye, 艾比剧院, アベイ座, Abbey Theatre (RDF)
2009-03-05 - 366 triples in 71.5 kb
http://dbpedia.org/resource/Abbey_Theatre (Search) (Cached) (Ontologies)

Abbey Theatre (RDF)
2009-03-05 - 30 triples in 4.3 kb
http://dbpedia.org/resource/Category:Abbey_Theatre (Search) (Cached) (Ontologies)

Gate Theatre (RDF)
2009-03-12 - 144 triples in 21 kb
http://dbpedia.org/resource/Gate_Theatre (Search) (Cached) (Ontologies)

Irish Literary Theatre (RDF)
2009-03-11 - 36 triples in 6.2 kb
http://dbpedia.org/resource/Irish_Literary_Theatre (Search) (Cached) (Ontologies)

Mottisfont Abbey, Abbaye de Mottisfont (RDF)
2009-03-10 - 76 triples in 13.8 kb
http://dbpedia.org/resource/Mottisfont_Abbey (Search) (Cached) (Ontologies)
Examples in Libraries
The Abbey: Ireland's national theatre 1904–1979 / Hugh Hunt

Hunt, Hugh (author)
ISBN 0-231-04906-4
New York : Columbia U.P., 1979
English 306 s.

Read excerpt (Google Book Search)

Book

Abstract  Subject headings
Dramatists, Irish

URI: <http://id.loc.gov/authorities/sh96007490#concept>

Type: Topical Term

Alternate Labels: Irish dramatists

Sources:
- LC database, 6/25/96 (subj. hdg.: Dramatists, Irish)

Created: 1996-06-27

Last Modified: 1996-08-09 11:37:15

Similar concepts from other vocabularies:
- <http://stitch.cs.vu.nl/vocabularies/rameau/ark:/12148/cb12026779h>
Welcome to The Registry!
This is the home page for the National Science Digital Library Metadata Registry.

The Metadata Registry provides services to developers and consumers of controlled vocabularies and is one of the first production deployments of the RDF-based Semantic Web Community's Simple Knowledge Organization System (SKOS)

How to begin
Step-by-step illustrated instructions...

Play in the Metadata Registry Sandbox
If you just want to experiment and play around a bit, go on over to the Metadata Registry Sandbox. The code is exactly the same, but it's using a non-production database. (Please be careful not to kick any sand out of the box) NOTE: The sandbox has its own domain now. If you had bookmarked the beta site thinking that it was the sandbox (and we did say that), it will shortly be a real beta site again complete with broken code, wacky ideas, and disappearing data. Please change your sandbox bookmarks to point to the Metadata Registry Sandbox. Any of the sandcastles that you had built in the beta, back when you thought it was the sandbox, are still there.

Registry News ...from the Registry Blog

Multiple languages and RDA
Posted by: Diene Hillmann at 21:04 on Monday, March 09, 2009 GMT

We've been thinking for some time about how to implement multi-lingual (and multi-script) vocabularies in the Registry. Some Registry users have been experimenting with language and script capability for some time (see Daniel Lovin's Sandbox Hebrew GMDs). But it was really when we started working with the RDA vocabularies that we got serious about multi-linguality.

At DC-2008 in Berlin, we started talking to the librarians at the Deutsche Nationalbibliothek about adding German language versions of RDA vocabularies into the Registry. I knew how eager the German libraries were to participate more actively in the RDA development, and had been talking to German librarians for some time about their frustrations with the notion that they had to wait until "later" to become involved. Christine Frodl and Veronika Leibrchot have been our primary contacts at the Deutsche Nationalbibliothek on this work, and they've been a real pleasure to work with.

We decided collectively to start with some of the value vocabularies, in particular Content Type, Media Type and Carrier Type. We enabled Veronika to become a maintainer on those vocabularies, and she worked within her library and associated German-speaking libraries to translate and develop labels and definitions in German for the existing terms. As she describes the challenge:

http://metadataregistry.org/
Examples in Archives
UK Archival Thesaurus

http://www.w3.org/TR/2005/WD-swbp-skos-core-guide-20050510/
Thésaurus pour la description et l'indexation des archives locales anciennes, modernes et contemporaines

Thésaurus pour la description et l'indexation des archives locales anciennes, modernes et contemporaines, 4e édition, 2009 (remplace l'édition 1997 du Thésaurus W et la version 2000 des listes d'autorité "actions", "typologie documentaire" et "contexte historique"


Version PDF
Thésaurus-matières, classement thématique
Thésaurus-matières, classement alphabétique
Ajouts, modifications et suppression de descripteurs et de non-descripteurs
Déplacements de descripteurs
Liste d'autorité "Actions"
Liste d'autorité "Typologie documentaire"
Liste d'autorité "Contexte historique"

Version XML/SKOS
http://www.archivesdefrance.culture.gouv.fr/gerer/classement/normes-outils/thesaurus/
Agrippa (AMVC)
Barriers are both cultural and technical.
Archival description contains lots of implicit information.
“Inheritance” of data in multi-level description is highly implicit.
EAD is document-centric standard, not a data-centric standard.
EAC, a standard in development, is more data-centric.
Archival description, in its current state, is not computer-friendly.
Archival description, in its current state, is not Linked Data-friendly.
EAD needs to change to interoperate with EAC as well as other standards.
It is up to the archival community to steer the standards accordingly.
Thank You

mark@matienzo.org
http://matienzo.org/
http://twitter.com/anarchivist