

LORE: A Compound Object Authoring and Publishing Tool for Literary Scholars based on the FRBR

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THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

Open Repositories 2009

[Overview]

- LORE: Literature Object Reuse and Exchange
 - Background
 - Objectives
 - Implementation and Demo
 - Relationship Ontology
 - Applications
 - Future Work

[Background]

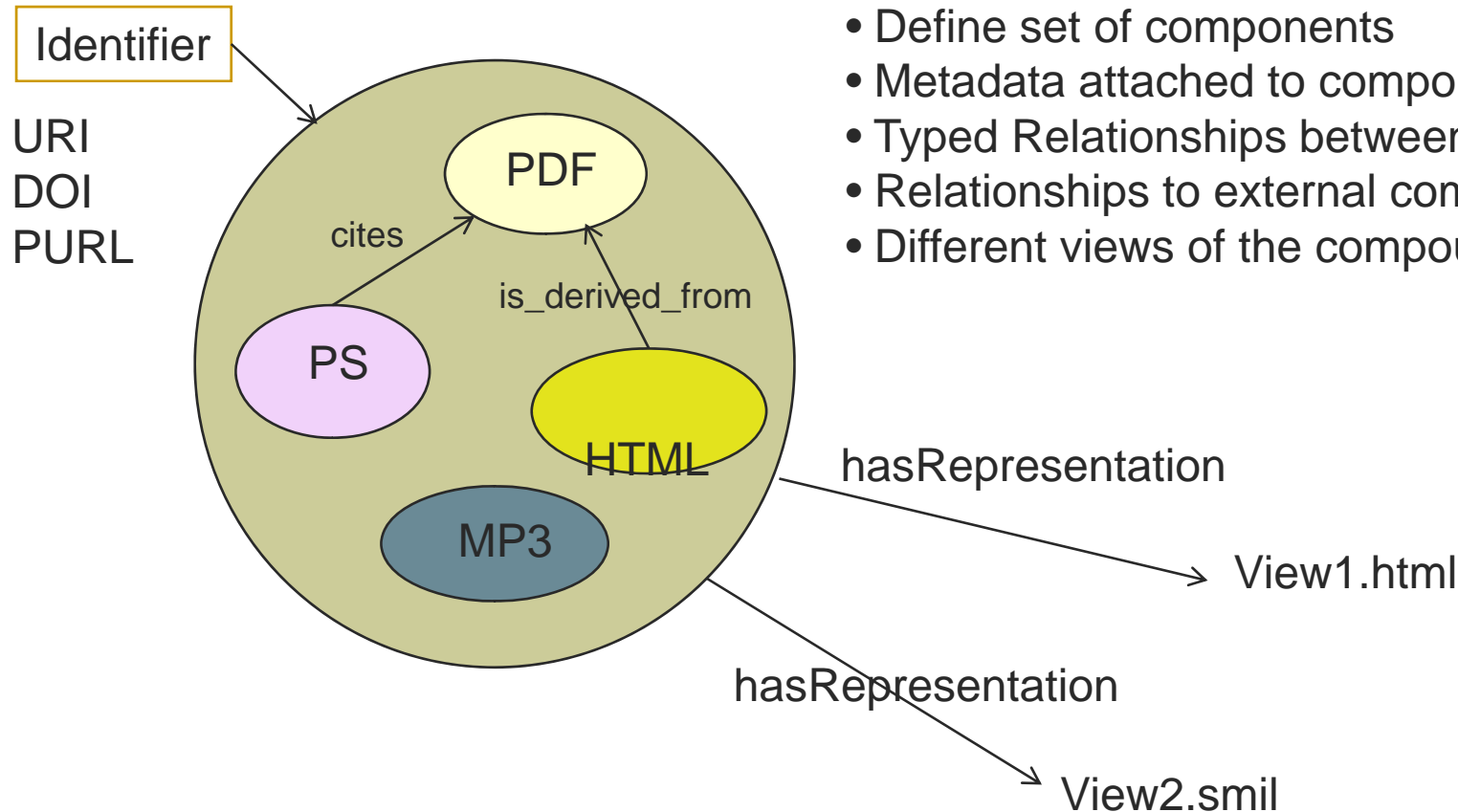
- Open Archives Initiative – Object Reuse and Exchange (OAI-ORE)
- International Federation of Library Associations and Institutions (IFLA) Functional Requirements for Bibliographic Records (FRBR)

[OAI-ORE]

- Collaborative initiative focused on developing standardized, interoperable, machine-readable mechanisms to express compound objects on the web
- Resource maps
 - express a set of resources that are aggregated by a compound object
 - express metadata and relationships between aggregated resources
 - may be published as RDF Named Graphs
- <http://openarchives.org/ore/>

[ORE Compound Object]

<http://arXiv.org/astro-ph/061175/>



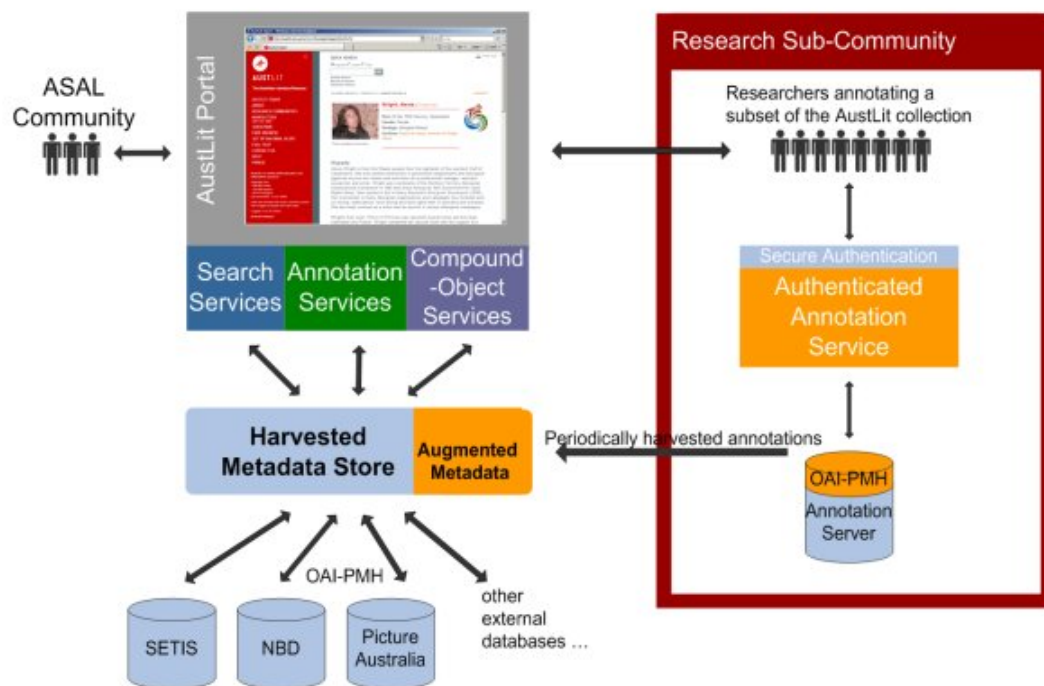
OAI-ORE Named Graphs/Resource Maps:

- Define set of components
- Metadata attached to compound object
- Typed Relationships between components
- Relationships to external components
- Different views of the compound object

[IFLA FRBR]

- Reflects the conceptual structure of information resources
- FRBR Entities:
 - Products of intellectual or artistic endeavour (Publications)
 - Work
 - Expression
 - Manifestation
 - Item
 - Responsible Persons and Organisations
 - Subjects (concepts, objects, events, places)

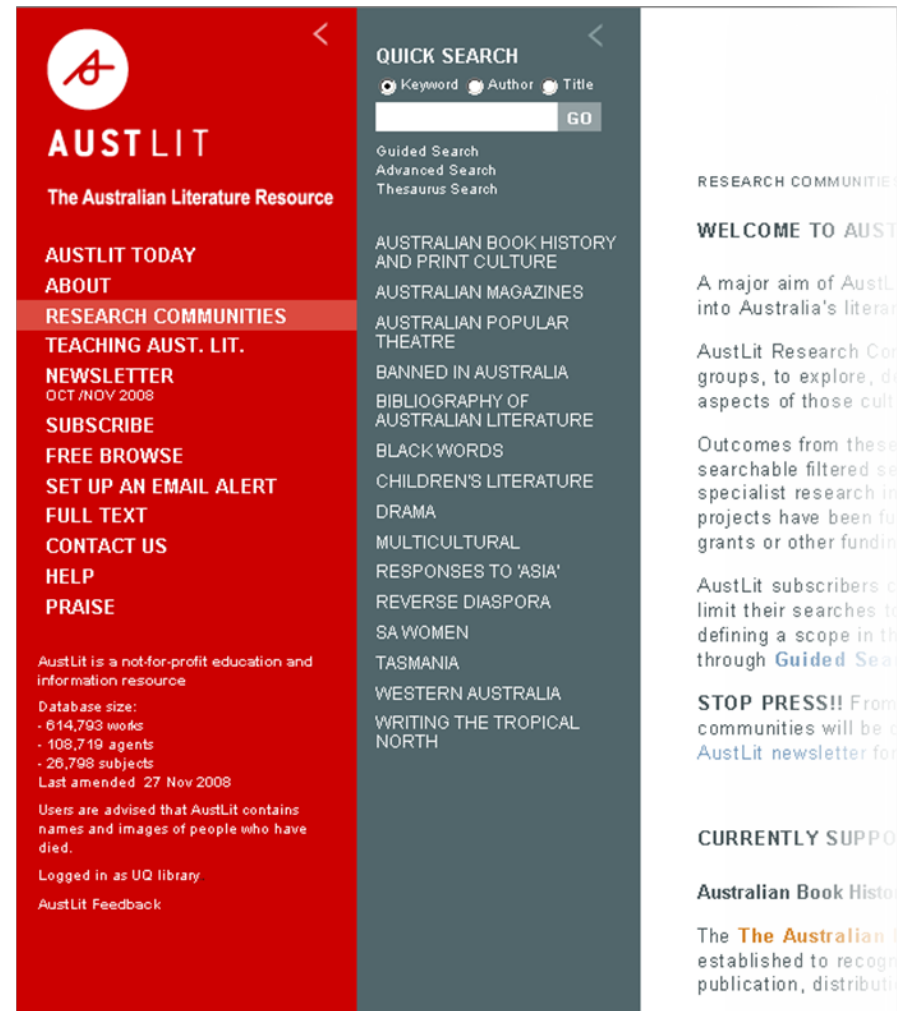
[Aus-e-Lit]



- LORE was developed as part of the Aus-e-Lit project
- Funded by DEST through the National eResearch Architecture Taskforce (NCRIS 5.16 NeAT)
- Collaborators:
 - The University of Queensland, ITEE eResearch
 - AustLit
 - Association for the Study of Australian Literature (ASAL)
 - Australian National Data Service (ANDS)
 - Australian Research Collaboration Service (ARCS)

AustLit

- Partnership between the National Library of Australia and twelve universities
- Research activities focused around research communities
- Data model based on IFLA FRBR
 - + events (ABC Harmony)
 - + specialized fields for research communities





AUSTLIT

The Australian Literature Resource

QUICK SEARCH

☒ Keyword ☐ Author ☐ Title

[Guided Search](#)
[Advanced Search](#)
[Thesaurus Search](#)

WORK DETAILS

The Drover's Wife

FRBR Work

SHORT STORY

Author: [Lawson, Henry](#) (birth name: Larsen, Henry (Lawson)) (a.k.a. H. L.)

General
subjects:

Snakes & serpents
Country life
Women
Dogs
Courage & bravery

Isolation (Emotional & social)
Drovers
Families
Fear
Bush

Influence on: [\[Untitled\]](#) - [Crisp, Louise](#)

Related To: [The Drover's Wife](#) SHORT STORY - [Bail, Murray](#) (1970)
[The Drover's Wife](#) SHORT STORY SATIRE HUMOUR - [Moorhouse, Frank](#) (1980)
[The Drover's Wife](#) SHORT STORY SATIRE - [Jefferis, Barbara](#) (1980)
[The Drover's De Facto](#) SHORT STORY - [Gambling, Anne](#) (1986)
[The Drover's Wife's Dog](#) SHORT STORY SCI-FI - [Broderick, Damien](#) (1991)
[The Bush Undertaker and the Drover's Wife](#) DRAMA - [Lawson, Henry](#); [Morritt, Stewart](#) (2005)

This work has appeared in at least 4 different versions:

FRBR Expression

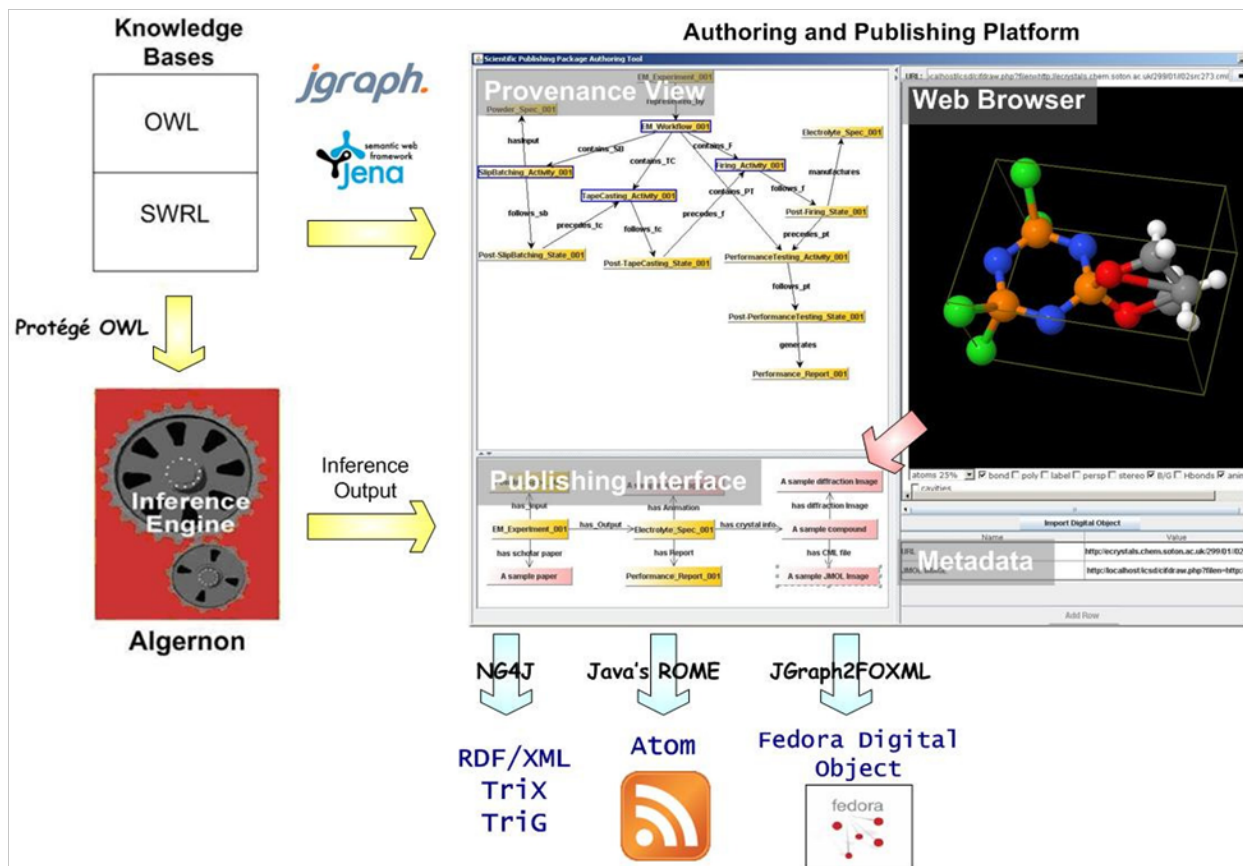
1. Publications of this version include the following 32:

- [The Bulletin](#) vol.12 no.649 23 July 1892 PERIODICAL ISSUE (pp.21-22)
[Find the full text at University of Queensland Library](#)

FRBR Manifestation

- [Short Stories in Prose and Verse](#) SELECTED WORK POETRY PROSE SHORT STORY
 Author: [Lawson, Henry](#) (birth name: Larsen, Henry (Lawson)) (a.k.a. H. L.)
 Sydney, New South Wales : [Louisa Lawson](#), [1894].
 (pp.26-39)

Related: SCOPE



[Objectives]

- Development of a light-weight in-browser tool to enable Australian literary scholars to
 - collaboratively author scholarly compound objects using a standardized format;
 - attach metadata to objects to facilitate their discovery;
 - publish objects in open-access repositories to encourage sharing and reuse;
 - document and visualize the lineage of derived intellectual products.

[LORE Implementation]

- Mozilla Firefox extension
 - AJAX – Web 2.0
 - XUL: XML User Interface Language
- Sesame 2 data store
 - Named graphs
- Export to Fedora objects
- Metadata and relationship terms configured from OWL ontology

[LORE Features]

- Add resources to the resource map from within the web browser using context menus or LORE toolbar
- RDF/XML and Graphical Views
- Configurable domain ontology
 - Assert relationships between resources using *ObjectProperties* from the domain ontology
 - Attach metadata to resource map, aggregation, resource or relationship using *DataType* properties from the domain ontology, or terms from Dublin Core, FOAF, ORE
- Load, edit and save resource maps
- Browse/Search to discover related compound objects
- Interactive resource node previews

AustLit Agent - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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http://www.austlit.edu.au/run?ex=ShowAgent&agentId=A1]X

☆

Google


Ⓜ

AUSTLIT

The Australian Literature Resource

AUSTLIT TODAY

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Kelly, Ned (5 works by)

(a.k.a. Kelly, Edward)

Born: Jun 1855 Beveridge, Victoria

Died: 11 Nov 1880 Melbourne, Victoria

Gender: Male

Archives: [Search for literary archives for Kelly, Ned](#)

By permission of the [NLA](#)

Sources and Properties

Annotations

Compound Objects

<http://austlit.edu.au/rem/kellystart>
<http://austlit.edu.au/rem/kellypics>
<http://example.org/kelly1>
<http://austlit.edu.au/rem/kellyworks>
<http://austlit.edu.au/rem/kellyfamily>

Recently opened

<http://austlit.edu.au/rem/kellypics>
<http://austlit.edu.au/rem/kellystart>

Ind Object

Resource/Relationship

Add property Remove property

Name	Value
dc:format	text/html; charset=UTF-8
dc:title	Ned Kelly
Resource	http://www.austlit.edu.au

Welcome Annotations Compound Object Text mining

Graph Editor Summary SMIL

Ned Kelly

[http://www.austlit.edu.au/run?ex=ShowAgent&agentId=A1\]X](http://www.austlit.edu.au/run?ex=ShowAgent&agentId=A1]X)

Jerilderie Letter, 1879

<http://www.austlit.edu.au/run?ex=ShowWork&workId=Cs%2c{>

Jerilderie

<http://austlit.edu.au/run?ex=ShowThes&tid=PZ%2c{>

has_as_subject

is_member_of

is_subject_of

is_author_of

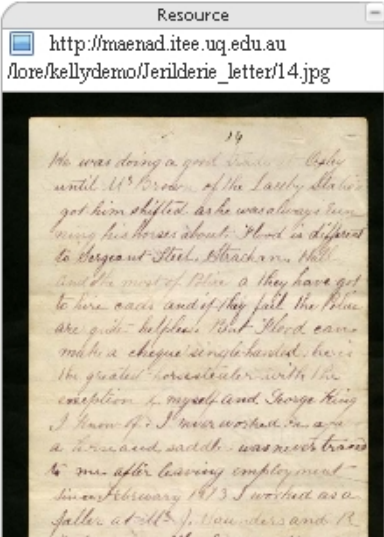
has_image

has_location

has_as_subject

has_trans

http://maenad.itee.uq.edu.au/lore/kellydemo/Jerilderie_letter/14.jpg



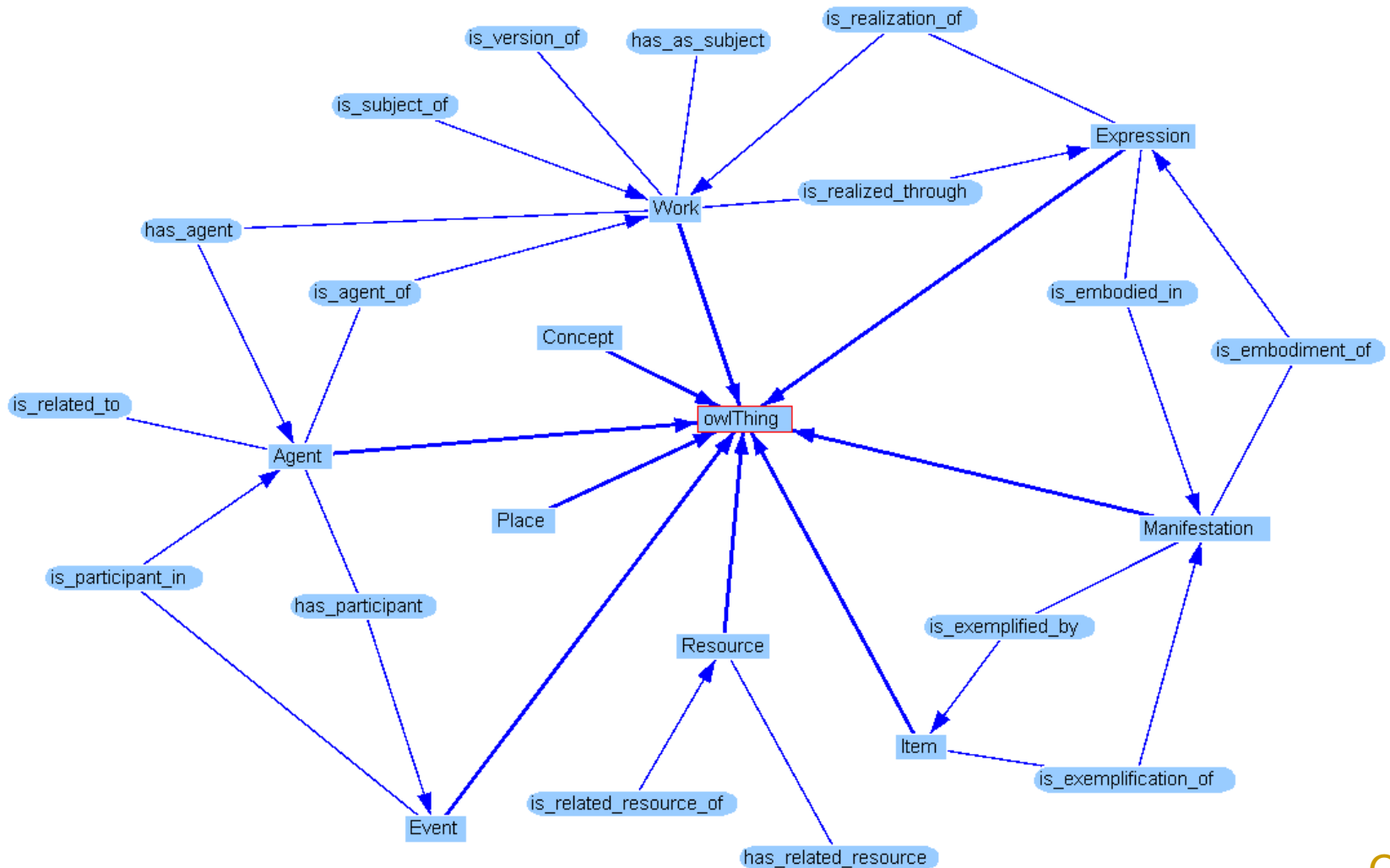
Done

[Demonstration

[Relationship Ontology]

- Created from the AustLit data model
 - Based on IFLA FRBR
- Extended to include
 - Relationships between people
 - e.g. collaborates_with, is_family_member_of
 - Relationships between digital resources
 - e.g. has_image, has_audio, has_video
 - Relationships for research and teaching
 - e.g. has_criticism, has_summary

[Relationship Ontology (Subset)]



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[Applications]

- Research

- Scholarly Editions

- Compound objects encapsulating different versions of a text, annotations on the text and scholarly commentary

- Research Trails

- Recording research sources and notes

- Lineage

- Tracking the lineage of derivative works and ideas

- Teaching

- Relating disparate resources around a common theme

[Case Study Considerations]

- Limitations with:
 - Non-information resources
 - Local object identifiers
 - Non-persistent URIs
 - Generic visualisations
- Complexity of ontology
 - Specialized ontologies
 - Semantic hints/checks in the UI

[Current developments]

- Customisable graphical views
 - SMIL
 - Timeline
 - maps
- More specific relationship ontologies
- Improving Fedora support

[Future Work]

- Rule engine to infer additional relationships
- Ontology discovery through Metadata Schema Registry
- Attachment of Creative Commons and other licenses



Aus-e-Lit

Collaborative Integration and Annotation Services for Australian Literature Communities

Project Team

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Kerry Kilner, Executive Manager, AustLit: The Australian Literature Resource

Dr Roger Osborne, Project Manager

Anna Gerber, Senior Programmer

Chris Davoren, Programmer

The Aus-e-Lit project is building on the eResearch infrastructure for Australian literary studies at AustLit: The Australian Literature Resource (www.austlit.edu.au). Aus-e-Lit is funded by the National Collaborative Research Infrastructure Strategy (NCRIS) through the National eResearch Infrastructure Task Force (NeAT), and by the University of Queensland.

[Questions?]

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<http://austlit.edu.au>