

LOD HIVE Pelagios 27/7/18, 10:14 am

LOD - HIVE

No	Name	Topic/title	Start	End
1	Erik Champion, Curtin	HOST, LOD and Cultural heritage	10:00	10:20
2	Bill Pascoe, University of Newcastle	Digital Maps and the Colonial Frontier Massacre Project	10:20	10:40
3	Katrina Grant ANU	Art Data and geodata	10:40	11:00
4	The HIVE, Curtin	Historic panoramas and geolocation	11:00	11:20
5	Sven Ouzman, Discipline Chair, Archaeology, UWA	The art of using maps to get lost: Indigenous & archaeological contexts in Australia and Southern Africa	11:20	11:40
6	Vanessa Russ	Concepts of space-place-and-landscape	11:40	12:00
	Q and A	-	12:00	12:20
	LUNCH (tavern)	-	12:20	13:00
7	Conal Tuohy, GLAM consultant	National Museum of Australia Collection API	13:00	13:20
8	Tim Sherratt, University of Canberra	LOD for historians: enriching narratives with structured data	13:20	13:40
9	Terhi Nurmikko-Fuller	Spatio-temporal ambiguity in the Humanities	13:40	14:00
10	Susan Fayad, Ballarat City (HUL)	Transforming global heritage & city management practice – UNESCO's Historic Urban Landscape pilot programme & Ballarat	14:00	14:20
	Q and A	-	14:20	14:40
	Coffee	-	14:40	15:00
11	Mafkereseb Bekele, Curtin	LOD and ARVR	15:00	15:20
12	Ikrom Nishanbaev, Curtin	LOD-3D schema for Australian virtual heritage	15:20	15:40
13	David McMeekin, Spatial Science, Curtin	The Semantic Web	15:40	16:00
14	Pelagios expert (Rainer Simon)	Introduction to Pelagios and Recogito	16:00	16:20
	Q and A	-	16:20	16:40

① ERIC - outline of LOD

- Interested in sharing aspect of what researchers have been doing

LON LIVE 27 July

② Bill PASCOE
Colonial frontier massacres



Map of Massacres

The idea of this website, a collaborative initiative of the humanities, stems from the fact that available data on the subject is scattered and often incomplete. The project will provide a centralised and accessible repository of information on the subject. It will also provide a platform for the publication of research findings, and for the development of educational resources.

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Time slider

W.A. not yet done.
- will cut off 1960
(because still survivors and perpetrators)

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← Impact -
social media - many
comments

Can navigate →
to terrain

Details weapons used



← Today's ABC News
- historians did not even
understand/appreciate the extent
- personal people can check
their own area

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② Massacres

- comment pages turned out to be a crowdsourcing opportunity
 - 465 comments, 5 negatives
 - but news stories - lots of neg. comments

→ Location + Direction ← How are these conceived in Indigenous knowledge & expressed in Language?

②

→ Need to not be accurate - to protect the sites.
- coordinates are adjusted

- Focusing on infrastructure

- research results, but then software not continued

↑ So why not build standardisation into the brief?

①

- ? How to build re-use into project
→ NT & WA - yet to come - \$ & historians

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Input = Google Sheets

↓
MySQL database

↓
PHP bespoke script

↓
K??

↓
ARC GIS API

① - Succession also in the project brief.

① - Upgrades

- ? Registering with ANDS

② - ? sharing data - indigenous - whitefella knowledge

↑
how does this fit into Open Data?

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3. Katrina Grant

- Mapping landscape from art history
- ? Art as data



Turning print or drawings into data?

[Defining data as "something machine learning can use"?

[Digital Cartographies of
The Roman Campagna.]

Claude Lorraine - what is relationship btw. what he saw/made and what was actually there??

Narrative around this area.

- actually
- deforested.
- swampy
- uninhabited.

Imaged as pastoral

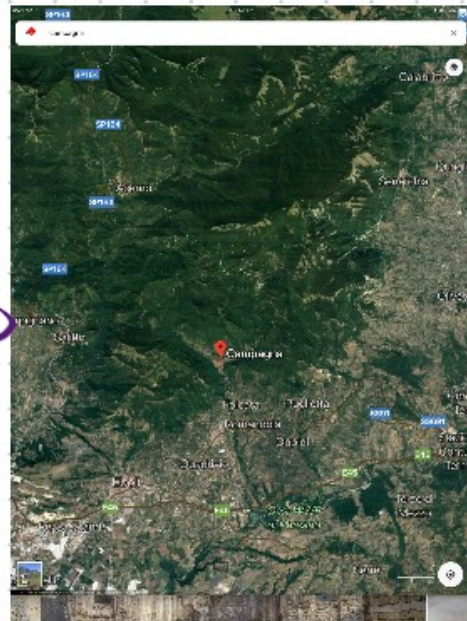
Pastoral Landscape: The Roman Campagna

Artist: Claude Lorraine / Claude Gellée / French, Champaigne 1631-82



How does this ↑
relate to

THIS



LOD MIVE

27 July 2018

③ Katrina Grant

Imaging by hand ... drawing maps.

- so - is what is depicted in images related to geolocation?

- manually - matching maps to geolocation

saw more & differently.

Metadata vs data vs art.

*3

Does the art object constitute metadata of a particular type?

→ List of Land ownership - translated to a map

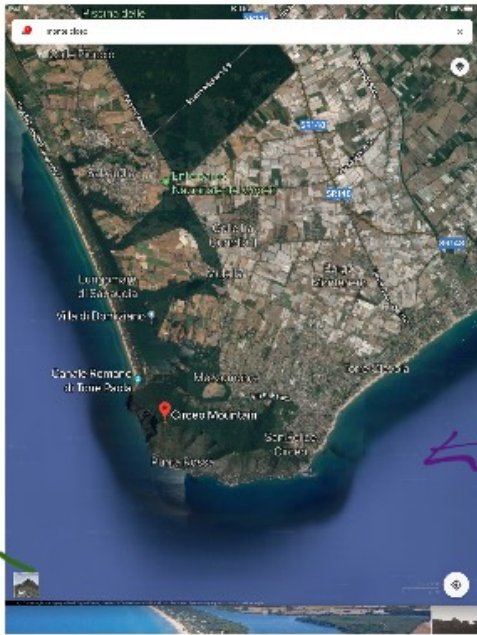
→ (teaching self to geo-reference ... written as "accurate" / "inaccurate" - language used)

↑ The sources are about understanding things other than geo-referencing.

*4

Accurate for what??

1_00 - Nive - 27 July 2018



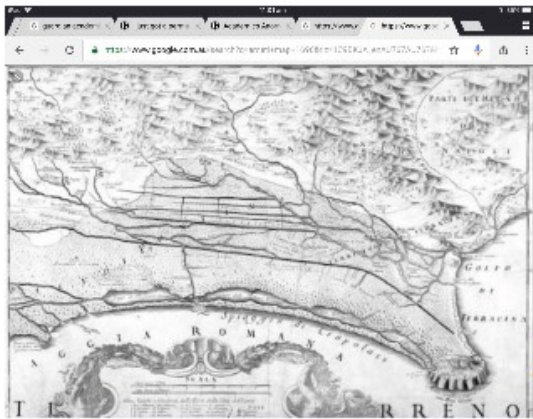
in images, this
bit is craggy
& emphasised

←! Amet

1696

Maps depicted
by what was
salient to users

⊗4 →



←!

LOD NINE 27 July 2018
Andrew Woods

State Library Panoramas

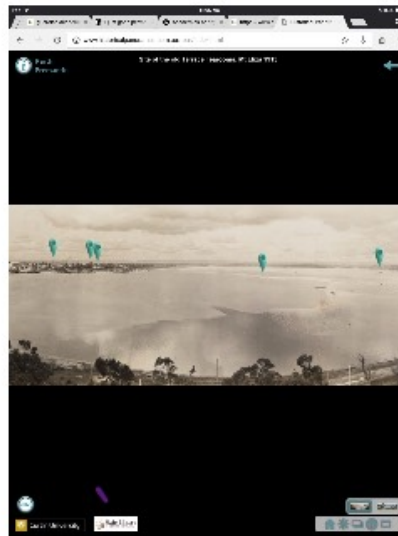
- Reshot some of the images with drones
- images from Free & Perth



HISTORICAL PANORAMAS PERTH AND FREEMANTLE

View of Perth

The aerial view of Perth, Western Australia, is a historical photograph showing the city's layout and the Swan River. The image is a black and white photograph, likely from the early 20th century. The text below the image provides information about the photograph, including its date and location. The text is partially obscured by a grid of small icons.



← Frem Town hall

- see update

← Geo-locating historical panoramas

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t. Andrew Woods
1868 - oldest imager

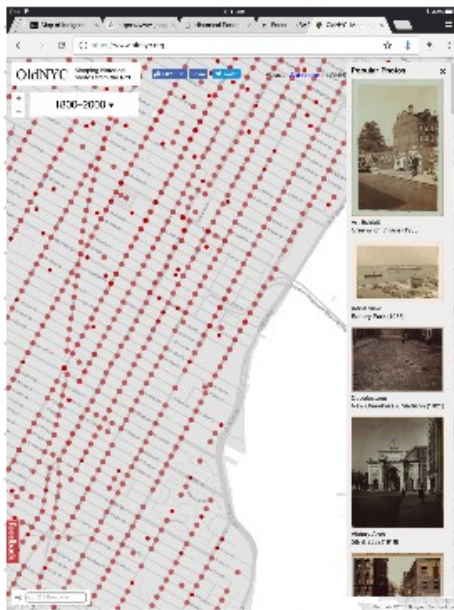
SO MUCH WHEEL REINVENTING

- tools
- techniques

⊗ 1

- OldPerth

inspired by OLDNYC - using same interface



- so 10K State Lib Records
- adding geo-location.
- demo at DisruptED

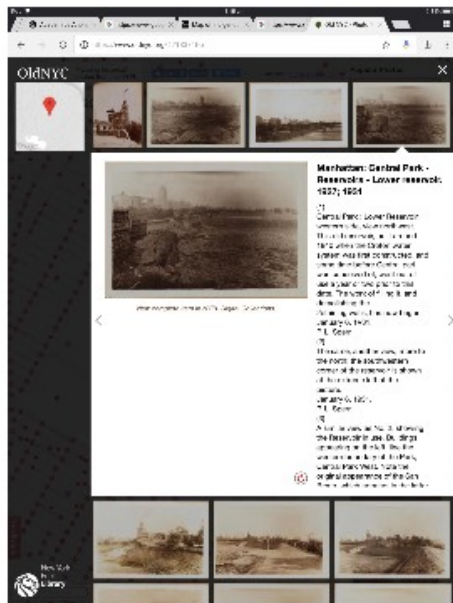
LOO Hive

2nd July 2018

← LIVE



Grid vs Ad hoc
NYC WA.



← From OLDNYC

- Triangulation technique
- Pan orama / map perspective.
- ! ? Using cylinder to create 3D.

Qn How do we represent our physical world

← 4
← empiricist vs constructivist

LDD Hive 27 July 2018

S. Sven Ouzman

UWA - Archeology

("each layer simultaneously showing their own truths")

↑ layering of maps

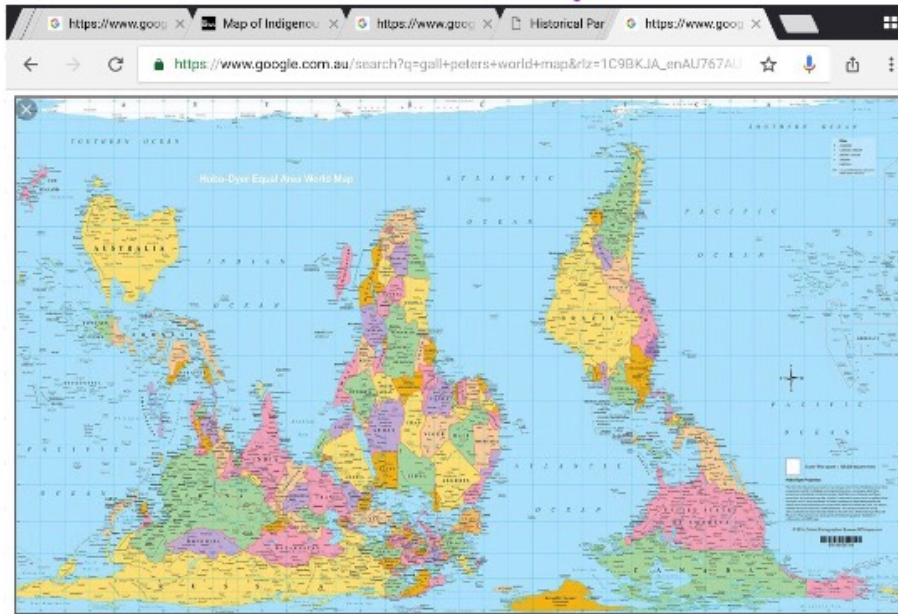
(Using maps to get lost)

Human/stone relationships

Walter Benjamin 1935 - Berlin childhood - maps

- ~~Vision as recent way of apprehending world~~
- last 300 years
- Images as deceptive
- "multi"-media - as series rather than parallel
- Olfaction vs. vision - salience.

LOD Hive 27 July 2018
S. Sren Ouzman
Gail-Peters map



Dona Harraway

- see the view from below.

South Africa - the bushman.

- on rocks - spirit-world creatures
added to rocks by people

Struikberg. - trans "shit mountain"
Afrikaans

LOD Hire 27 July 2018

5. Sven Ouzman

- What can be mapped?

⑤

- Australian indigenous = "We have always been here"
 - ↑ different idea of time & existence.
- Submerged landscape mapping
 - Kimberly underwater
- ARC - Kimberly visions

②

Why are people not using LOD schema when setting up projects for

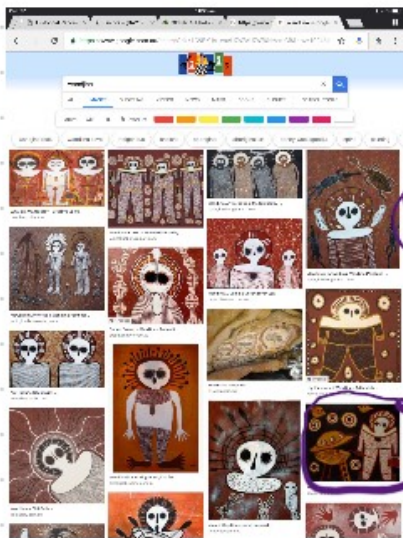
1. Not reinventing wheel
2. Sharing afterward

LOD Mine 2018 - July 2017

S. Sven Ouzman

- Who can be here?
- drones used for footage
- ? so what?
- how does this image help us understand?
- public engagement
 - excites visitors...
 - but what does it tell us?
- Crystals on ground under cave paintings.
 - how do sparkles relate.
 - from Durack River
 - Wundjina narrative

- This is not a picture
this is the Wundjina



← Interpretation of images
create varied
narratives - often
speculative fiction territory

Which people??

↓
- 'People' would rather believe
Aliens made the art than
aboriginal people

←
- chemical compounds of
images

LOD Hive 28 July 2018

S. Sven Ouzman

Cell phones shared around - not 1:1 correspondence
person : phone. ← community sharing

"Healthy Country Plan"

⊙ Nature / culture conflict in UNESCO
heritage protection.

↓
focus on this.
BUT they integrate

⊙ Re-usability

<ul style="list-style-type: none">- Sharing tools- sharing data- preserving data- Layers of cultural knowledge"people who will do the right things"	<ul style="list-style-type: none">- Data management plans- ARC - preservation of data<ul style="list-style-type: none">- standardisation of schema. <p>↑ but is just this is the disk to put it here.</p>
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LOD Nive 28 July 2018

QUESTIONS - morning session.

[building house, then doing the thinking...]

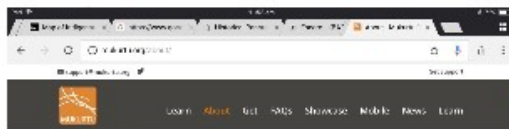
- ARC - engagement of impact.

↳ not a requirement.

- Australia SD - no agreement on format, use,

- Mukurtu

ARC



Our Mission

Mukurtu (M2O) is a grassroots project with a long history of commitment to manage digital heritage and exchange of digital heritage in culturally relevant and ethically sound ways. We are committed to maintaining an open, community-driven approach to M2O. Our mission development planning priority is to help build a platform that fosters relationships of respect and trust.

Mukurtu Beginnings

Mukurtu began as a grassroots project with a long history of commitment to manage digital heritage and exchange of digital heritage in culturally relevant and ethically sound ways. We are committed to maintaining an open, community-driven approach to M2O. Our mission development planning priority is to help build a platform that fosters relationships of respect and trust.

Implementation and Sustainability

Mukurtu is a grassroots project with a long history of commitment to manage digital heritage and exchange of digital heritage in culturally relevant and ethically sound ways. We are committed to maintaining an open, community-driven approach to M2O. Our mission development planning priority is to help build a platform that fosters relationships of respect and trust.

Development and Contribution

Mukurtu is a grassroots project with a long history of commitment to manage digital heritage and exchange of digital heritage in culturally relevant and ethically sound ways. We are committed to maintaining an open, community-driven approach to M2O. Our mission development planning priority is to help build a platform that fosters relationships of respect and trust.

Funding History

Mukurtu is a grassroots project with a long history of commitment to manage digital heritage and exchange of digital heritage in culturally relevant and ethically sound ways. We are committed to maintaining an open, community-driven approach to M2O. Our mission development planning priority is to help build a platform that fosters relationships of respect and trust.

↳ Grant for remitting data after ARC grant

cf ANDS.

- output is often a book

- but raw data & how data processed (tables, codification)

↑ never shared

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Question Time - morning.

Qn. - computer scientists involved?
↑ Sometimes on campus they talk, some campuses they do not talk.

- Those collaborations most valuable
- CIC at Curtin.

Qn. * Public libraries
- Creating models of data sharing

* 6

* So regular Jane-on-the-street can understand + use

How? Can? we do that?

? Google App. engine

- Teaching students - use basic tools lying around...

- ISSUE Copyright material - used in this project, but can't be shared

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QUESTION TIME - morning.

- A. - Think about sharing (indigenous projects) if people had no electricity!

[Impact of Facebook to create a closed, unopen (but huge audience) sharing]

- Legal system not indigenous & in conflict when sharing indigenous knowledge.
- Black & white image as archival preservation standard.

Reverse Qn:

"Is there anything you are producing that is worth preserving?"

- Museums - "we will look after this in perpetuity"

But who has used this data i - last 100 years ... museums are filling up?

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Question time - morning.

but primary data preservation
vs layers of knowledge
created by these research
maps

Which do you
decide to keep?

How far
do you
dig down?

→ Not creating data, but how
to create

→ Cultural heritage markup.

↑ "If mapped all of archeology"
who & how.

[Massacres - worth collecting - It WAS there
already

Shotgun tool

MX - TV standard

EXIST

- manage metadata

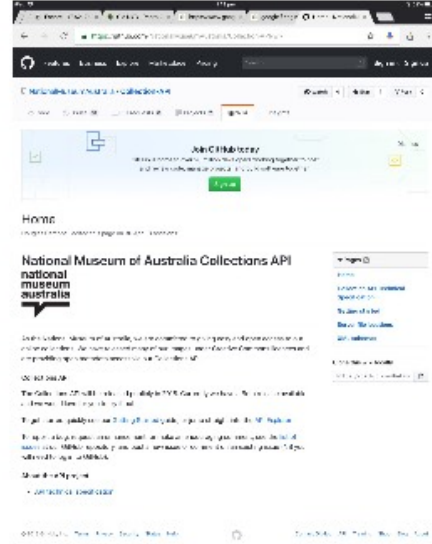
LOD Hive 28 July 2018
Questions - Morning Sessions

- Looking for - encoding the data in extractable form.

① Slurpy App

- create a something that will go over a project with geolocation data and time data.
 - and expose it to existing LOD points.

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G. Conal Tuohy
- National Museum of Australia
Collection API



← Already had Collections Explorer.

- wanted
- search
- browse
- rich data sharing

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 6. Coral Tuckey
 - Phac Lap's Heart



Pitching for job
 for building API
 "We will build a
 Linked Data API"

Using CIDOC →

- conceptual reference model
- mapping the IIM's collection to CIDOC
- API - usually creates a slightly taller silo that allows linkages.



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6. Conal Truby

... rather than opening up
the silo.

LOD means that silo can
be opened up + linked.

"All Things in jars can be
linked from all collections"

LOD Primer

① URI [Universal Resource Indicator]

- use these as identifiers for
all elements

- context is embedded in this
→ we (and browsers) know
how to unpack that string

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6. Coral Tushy

LOD PRIMER.

① Unique URI

- own domain can create identifiers within domain
 - not just "spot to find this on the web" but can identify descriptors
- eg. Date created.

- Unique identifier is hypolinked

So if a URI for the identifier someone can then navigate to the definition of this term

eg. Tim Sherratt using schema.org
[15 LOD books workshop.]

② - RDF

- Resource Description Framework
- abstract model for describing "subject. predicate. object"

LGD Mine 28 July 2018

6. Conal Trnky

- 3 part .. "triples", "statements"



- either an object, predicate, subject
- can parse longer sentence into triples
eg. The cat, Bill, sat on the mat



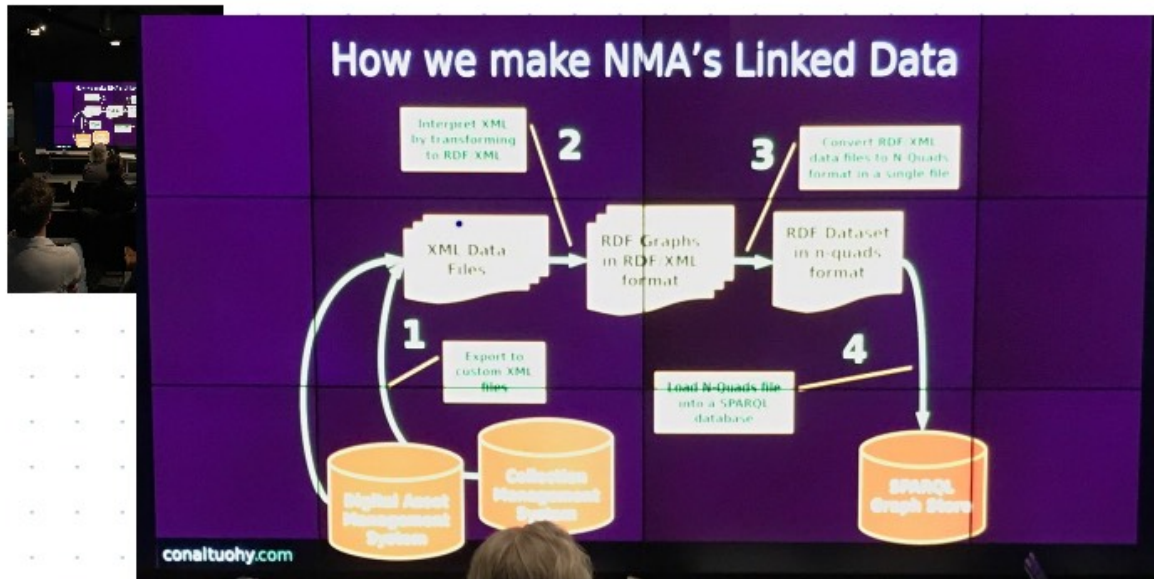
- = net work → relationships indicated .. "graph".

- named graph = name the file
- set as dataset

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G. Coral Tuohy
LOD Primer

3) Abstract Model vs. file format

- text based formats - Turtle NS
 - XML - RDF/XML, trix
 - embedded in webpage - RDFa, microformats, GRDDL
 - in CSV files "CSV on the web metadata"
 - JSON files - JSON LD Conforms - javascript file.
↑
- In Tim's page - was JSON LD embedded in the LOD book
- eg. Google displaying ads, harvesting data from pages you have visited
 - can edit csv file, web page without knowing a lot. underneath structure of triples



- ① XML files with identifiers
eg. Author
- ② XML → XML
XSSLT
Metadata crosswalking
- standardising to particular graph
eg. Author
- ③ RDF data in n-quads format
- created as triples
- ④ SPARQL graph store

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7. Tim Sherratt

LOD - about making connections

① linked - connection

② open - Those who use & enrich.

- have put more energy into ②

Fact that person A knows B

takes meaning from context

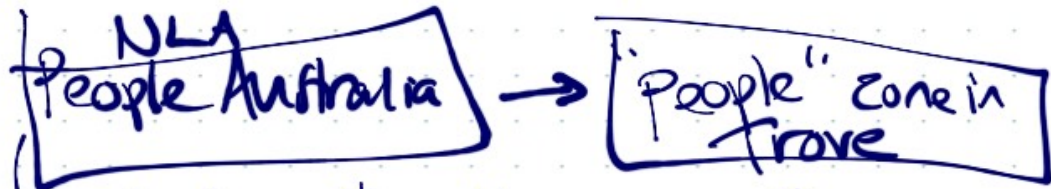
CONTEXT becomes interesting -

"What is the narrative here?"

- not just about exposing mega data sets for sharing, but how do we capture pockets for expertise

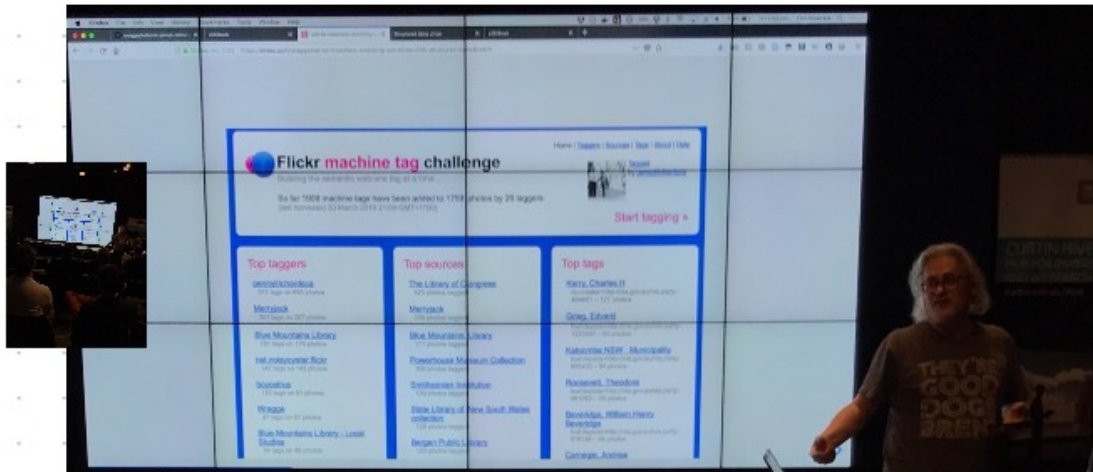
LOD Mire 28 July 2018

B. Tim Sherratt



- ↳ starts with library author authority files
- powerful & a little underused.
 - coded an identity-record for items in People Australia, creating RDFa data that could be dropped into (eg. blog post)
 - We were all excited by machine tags initially [eg. Co:Ns]
 - Machine tags - linking Flickr items to People Australia

LOD - Hive - 28 July 2018
8. Tim Sherratt



- "Writing up is the action of squeezing all the data out"
- Historians always creating data, but publications are just the narrative
 - Why can't we have both?

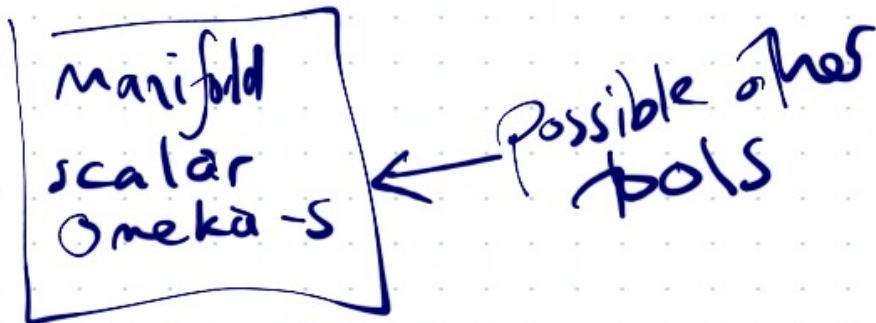
LOD HIVE 28 July 2018

8. Tim Sherratt

- 2012. - Rules

- ① Tools simple
- ② No platforms
- ③ No markup madness!

↑ How do we allow historians to create their stories within something that also allows shareable data



MDH - minimal computing movement

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7. Tim Sherratt

LOD Book 3

- Designed for anyone who can make plain docs to create one of these
- Simple structure (HTML)
- Preservable (still text files)

Building Blocks

- ① Jekyll
- ② coded a plugin [template + links between data & narrative]
- ③ Text in markdown
- ④ Data in YAML or JSON

..LOD - Five 28 July 2018
8. Tim Sherratt

Elements

→ Data files

→ text file [with tag pairs to indicate]



LOD Mine 28 July 2018

8. Tim Sherratt

Using schema.org underneath.

Can see LOD under this.

So, why?

Q: Why? would historians want to use this? Why should they care?

- A: They should it

- ① But - Their research can be enriched by LOD
- ② - All the research, all the data checked - is visible
- ③ - Preservation - zip & add to data repository.

Tom Griffiths footnotes as "generous signposts"

cf. Mitchell White low "generous interfaces".

- AND get rid of PDFs as way of preserving data + publishing research

What if research was starting point?

- Not final output, but a place where building/enrichment could happen.
- Would allow notification/alerts when cited.

[AND institution's impact metrics is] ^{← one} ~~9~~

- Need to think of audiences and uses
 - not just standardisation of formats

LOD Nive - 2 July 2018
4. Dr Terhi Nurmikko-Tuuri

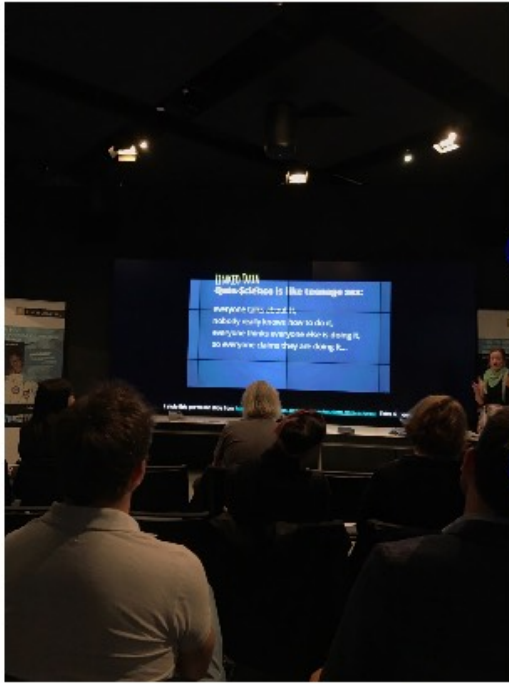
Linked Data practitioners

- Turtle-like
RDF/XML ← not like.
- Why should we care about LOD?
 - ① Any kind of complementary data should be linkable not just other data like yours.
(eg. core samples vs. publications - on same map)
 - ② Robust to human error
 - ③ Can answer more complex qns.
- human cognition kinds of qns.
(not just who, when, why)

Humanities

- good for rich, messy data
- we already think in graph-like structure.

. LOD - MIVE - 28 July 2018
T N-F



This can be very personal.

Phd - captured narrative structure in Babylonian literature

② Oxon. Elephant - HathiTrust Bib. metadata

③ Jazz performance 1930s onward ephemera

↑ LINKED DATA projects in the Humanities

Focusing on ①, but will answer abt. ②+③

① Types

Challenge - incomplete data

? 2 types of data - text, archaeological.

- Akkade - centre of the Sumerian empire
- YBC 3897 - four sides to tetrahedron

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 . T N - F



← Tablet

"Victory of Utuhengal"

- we have info about moving through space + time (Army marched on...) but no reference for where

- **WIKIDATA**

- Disambiguations - many sources

UMMA - walled city
 - but

Degrees of belonging

↑ as useful as anything



Case study 1: Umma

Degree of Belonging	Description of criteria
1	Those living inside the city walls
0.75	Those living in close proximity of the city walls, but outside them. Strong link to activities in the city.
0.50	Those living further beyond the immediate surroundings, but fall under state control; evident through taxation, for example.
0.25	Those who come into contact with the city temporarily or intermittently, such as those who belong to a neighbouring city-state, marsh-dwelling nomads or long-distance traders.

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T N-F

- Central Place Theory
- XTENT modelling
- Relation Connection Calculus (RCC or 'egg yolk calculus')

ciDoc - CRM

- has standardised schema for representing place.
-

LOCATION at ONE TIME

↑ simple-ish problem

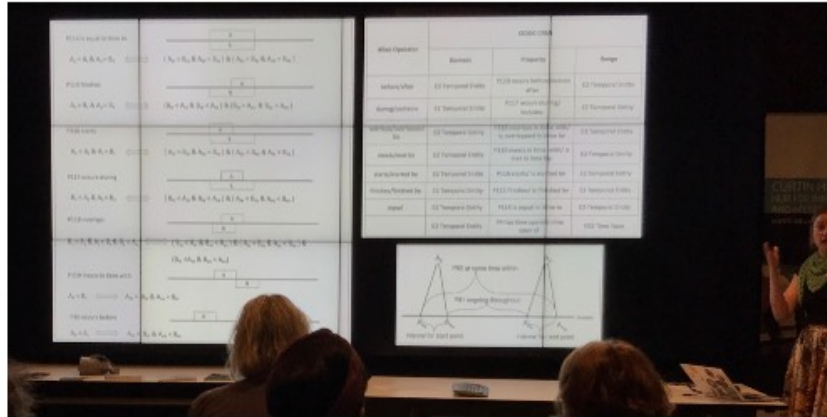
- Argue: location only exists in time
(or, need to know time to understand the location)

of

Londonium - Roman	}	People - is same
London - Now		

Machine - what is common
- not boundaries, people, buildings
So - what is the commonality that makes this same location?

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T N-F

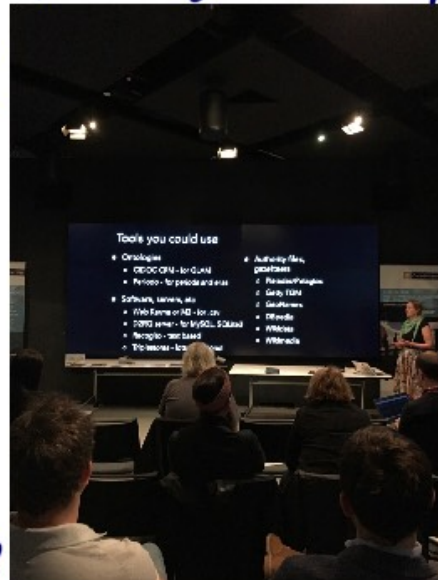


Any standard will do, but if commonly used, try to do this

How to disambiguate

10

URIs will do it,
but do they capture
fuzziness & uncertainty
How can machine understand?



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T N-F

"Knowledge representation is an act of interpretation"
— Western, European Anglo-Saxon perspective
but can RDF allow to link varied stories?

↑ 11.

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II. Sue Fayad

SDG 11 - Heritage + Culture included
UNESCO

Local govt perspective on change
in cities - mapping this, mapping need

HUL - Heritage Urban Landscape
- "cultural landscape" lens

City of Ballarat

World pilot

10K properties in heritage
60% growth to 2040

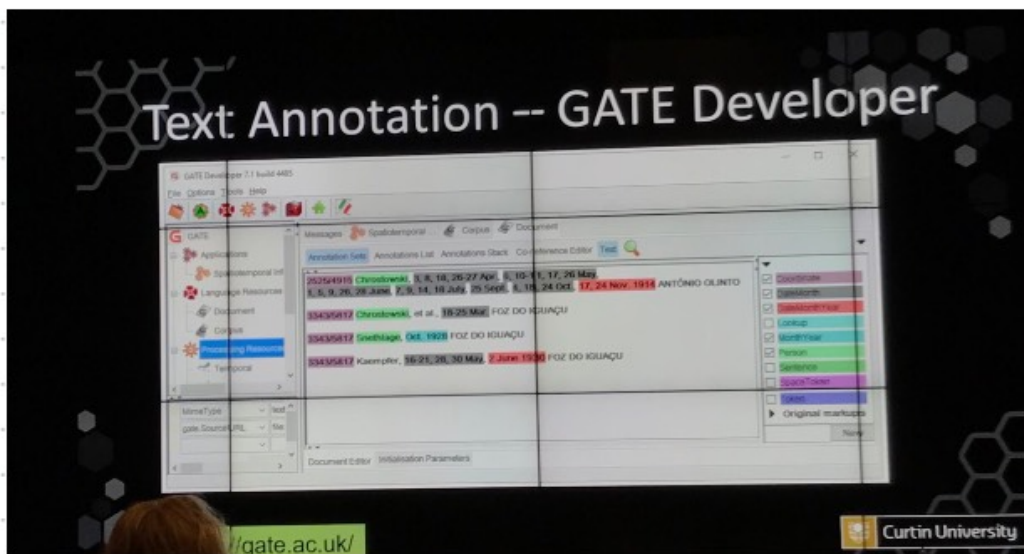
- Determining the layers for a HUL
- Australian govt. will watch for policy

LOD - Hive - 28 July

12. Mafkereselo Bekete

LOD & Mixed Reality

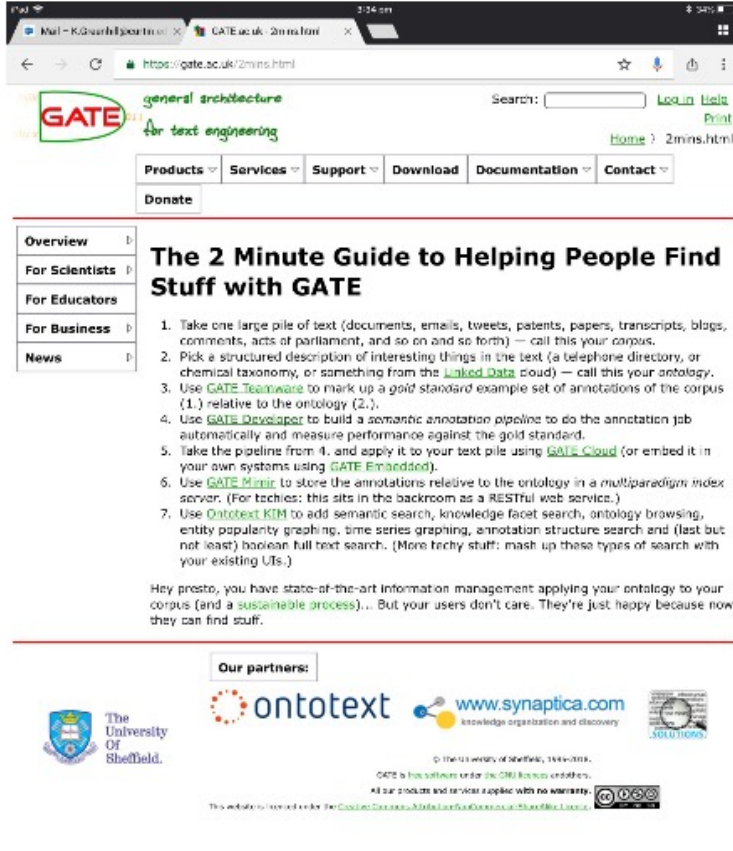
- saw this yesterday in workshop, so fewer notes
- GATE tool ← need to look this up



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12 MB

GATE - will match ontology to corpus



Mixed Reality - how does this relate to AR?

MR - both directions. real world helps one understand projected world ↔

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12. MB

Question Time - afternoon session

Still interesting, but I am flagging
so fewer notes.

CSIDOC CRM.

↳ anyone can create a class for
^{this}

- software to help this - [Protege]

- But CSIDOC does not have to
incorporate your schema.

(although you can create your
own addition locally)

→ Currently work going on with
intangible cultural knowledge being
added to CSIDOC by working party

- Thought Tim S's LODbook would be
useful for book about collection

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→ Question Time - Afternoon

Q How do we have this conversation with software vendors?

- There are now models - National Museum.

Fed Govt paid for this work & now FOSS.

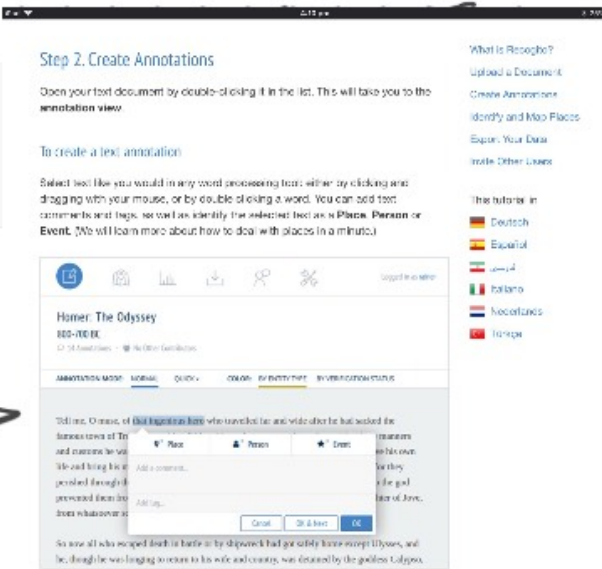
Participatory visualisation tools missing from local govt.

? If regular folk are happy with Facebook as their participatory source, then how can we justify LOD projects to regular folk?

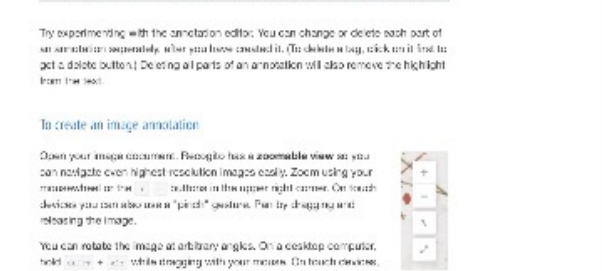
LOD- Live - 27 July 2018
13. Rainer Simon

Recognito

Can use tool
to annotate
attributes
within text.
- will provide
suggestions as



Highlight item →
in text, offered
attribute type
↓
eg. add it as place
then can link out
to map



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↓!

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- Annotating images - can add points - create point of interest (like adding note to a Flickr item)

- Can one then embed a marked up image into a regular web page with embed code?

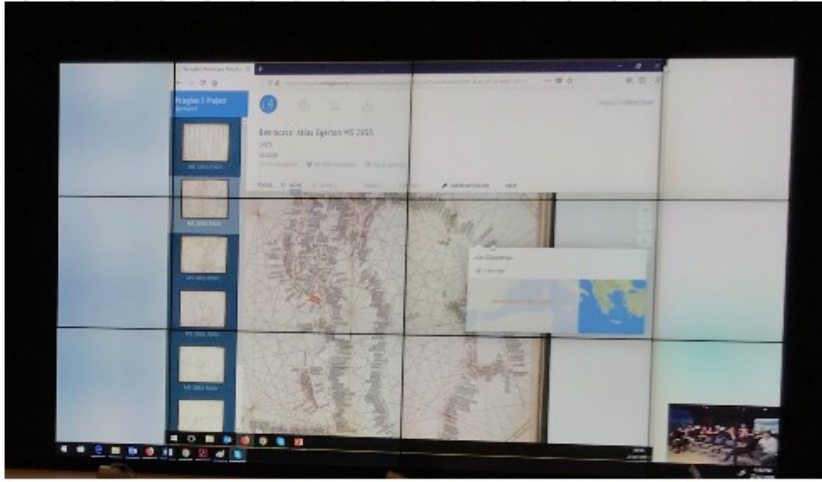


↑ my wondering

↑ Simple way can create points, then add geolocation.



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← can use
to add
geotags to
text/image
item.

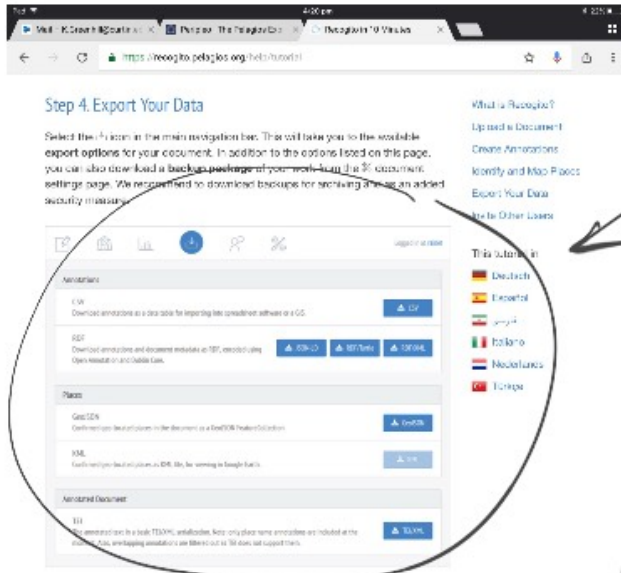
In this
atlas, also
colour
coded each

geo-point by
different colour
for each page

- can also create map works from text
- but don't have visualisations for these
- important - annotations are created as LOD and sharable.
- Mellon Foundation funding
- started in 2016
- is FOSS

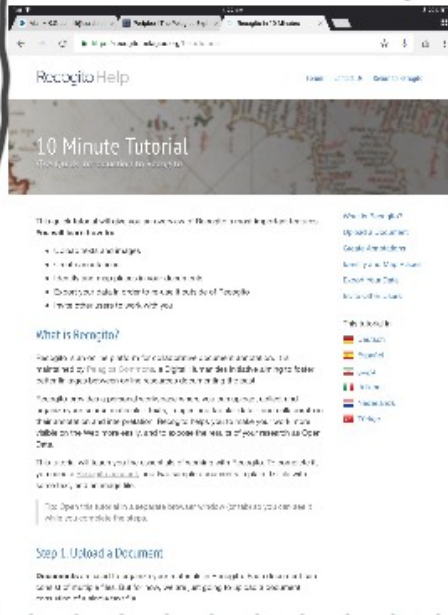
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Map of Early Modern London



↑ Look up this project
 several download formats

Look up 10 minute tutorial ↓

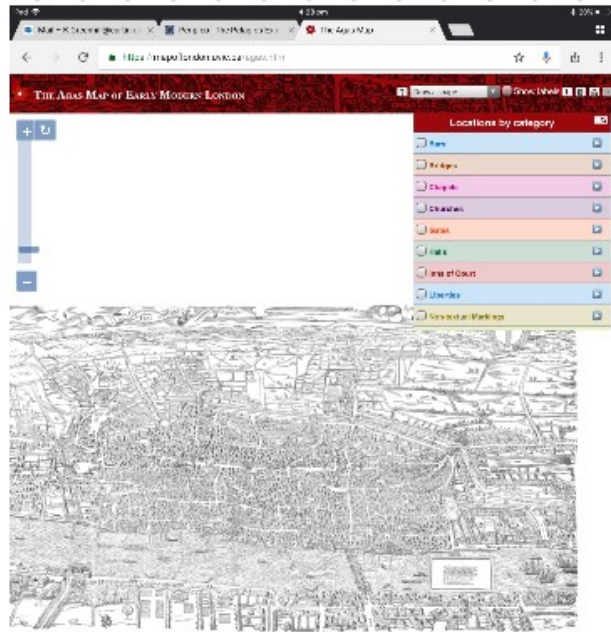
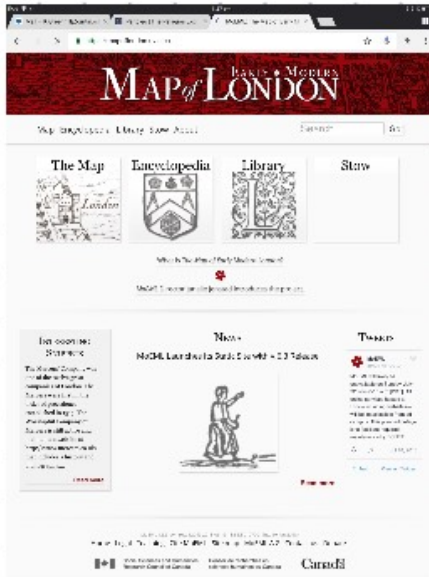


Foss - so can install & run own instance from github

Q: other sources & gazeteers

A: Wikidata & DBpedia would consider

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Map of Early Modern London



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14. Ikrom Nishanbeu

- Working on PhD -
Topic - Geosemantic Web.

GeoSPARQL vs stSPARQL

Too fast, too late in day ...

comparing different



Features	Strabon	Parliament	uSeekM	OpenLinkVirtuoso
Core GeoSPARQL	✓	✓	✓	✓
Geometry Extension - GeoSPARQL	✓	✓	✓	Points only
Topology Extension - GeoSPARQL	✓	✓	✓	X
Multiple CRS	✓	✓	No (only WGS_84)	✓
Origin	RDF4J (Sesame)	Jena, ARQ, Jetty, Joseki etc	RDF4J (Sesame)	
Geospatial DBMS as a back-end	PostGIS, MonetDB	Internal File Repository/Database	PostgreSQL/PostGIS	JDBC-accessible databases
R-tree index	✓	✓	✓	✓
Other	Most powerful Spatio-Temporal RDF store	First GeoSPARQL implementation	Plugin for Sesame, also supports Quadtree, Geohash	Free version does not include all the functionality
Licence	Mozilla Public License	BSD Licence	Open Source, Apache V2 Licence	GPL v2 or Commercial

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 14. 1 from N.



USeekM

USeekM: GeoSparql, Full Text Search, and Search Engine integration add-on for Triplestores

Name of the tool:	USeekM: GeoSparql, Full Text Search, and Search Engine integration add-on for Triplestores
Home page:	http://www.persolab.com/projects/useekm/
Date of latest release:	
Programming language(s) that can be used with the tool:	Java
Relevant semantic web technologies:	RDF, SPARQL, GeoSPARQL
Categories:	Triple Store, Development, Environment
See also:	
Public mailing list:	http://www.persolab.com/projects/useekm/boards/
Preferred project URI:	
DOAP reference:	
Company or institution:	

(Tool description last modified on 2013-07-10.)

Description

USeekM is an extension library for semantic databases that offers a Semantic (w3.org/rdf/http://) compatible API. It adds efficient (geo-)spatial, text search, and resource based search functionality. The module indexes spatial data in an R-tree, Quadtree or Quadtrees based index, and text data in an inverted index. It uses PostgreSQL or Elasticsearch to build these indexes. SPARQL and SERQL queries are intercepted by the module, and rewritten into a combination of queries against the spatial/index/search engine and the semantic database. The module works for all Semantic Database that are available in the Semantic Stack layer, such as Sesame, Vortex, Jena, and OWLIM. It is also possible to integrate databases at the Sesame Repository layer. The module supports OpenGIS geometry types (such as Point, Line, Polygon) and functions (such as Within, intersects, Geofence, G crossed) as standardized in the OGC GeoSPARQL standard. The library is open source and released under an Apache 2.0 License.

List of all Software in Browsers

Semantic Web Standards | Tools | Desktop | Privacy

Experiment/Example

SPARQL Query

SELECT * WHERE { ?s ?p ?o }

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is: David McMeekin - next

The screenshot shows a mobile browser interface with the following elements:

- Top status bar: iPad, 4:46 pm, 16% battery.
- Browser tabs: Mail - K.Greenhill@curi..., Peripleo | The Pelagios..., W3 5 Star Linked Data - Gov..., New Tab.
- Address bar: https://www.w3.org/2011/gld/wiki/5_Star_Linked_Data
- Page title: Search Government Linked Data (GLD) Working Group Wiki
- Section header:

5 Star Linked Data
- Text: Short description: Tim Berners-Lee, the inventor of the Web and initiator of the Linked Data project, suggested a 5 star deployment scheme for Linked Data. The 5 Star Linked Data system is cumulative. Each additional star presumes the data meets the criteria of the previous step(s).
- Text: Reference: <https://dvcs.w3.org/hg/gld/raw-file/default/glossary/index.html#linked-open-data>
- Text: Tin Berners-Lee, the inventor of the Web and initiator of the Linked Data project, suggested a 5 star deployment scheme for Linked Data. The 5 Star Linked Data system is cumulative. Each additional star presumes the data meets the criteria of the previous step(s).
- List of criteria:
 - ☆ Data is available on the Web, in whatever format.
 - ☆☆ Available as machine-readable structured data, (i.e., not a scanned image).
 - ☆☆☆ Available in a non-proprietary format, (i.e, CSV, not Microsoft Excel).
 - ☆☆☆☆ Published using open standards from the W3C (RDF and SPARQL).
 - ☆☆☆☆☆ All of the above and links to other Linked Open Data.
- Text: The Linked Data mug can be read with both green labels for Linked Open Data, or neither label for Linked Data. Proceeds of the Linked Open Data mug benefit the W3C.
- Text: Last edited 5 years ago by Bkaempge
- Page footer: Government Linked Data (GLD) Working Group Wiki | Mobile | Desktop | Privacy

↑ IKrom ↑ used this

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David Mc Mee