

<http://eprints.ecs.soton.ac.uk/id/eprint/21894>

Museum data, where next – consuming linked data

Cultural Heritage and the Semantic Web
British Museum, UK, 13th January 2011

Hugh Glaser
Seme4 Limited and University of Southampton, UK

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UNIVERSITY OF
Southampton
School of Electronics
and Computer Science



Seme4.com

From the Study Day Description

- **“The ability of the semantic web to cheaply but effectively integrate data and breakdown data silos provides museums with a long awaited opportunity to present a richer, more informative and interesting picture.”**
» Dominic Oldman

Linked Data – a little motivation

Linked Data | data.gov.uk

http://data.gov.uk/linked-data

Single (8) And same as sameas South America Stuff iPhone ECS UoS DH ReSIST MacOS X Football RKB ENT iPhone App

Linked Data | data.gov.uk for Ordnance Survey Linked Data...

HM Government Log in or sign up

data.gov.uk^{BETA}
Opening up government

What are you looking for? Search

Home Data Apps Ideas Forum Wiki Blogs **Linked Data** Resources About

Linked Data

Linked data is data in which real-world things are given addresses on the web (URIs), and data is published about them in machine-readable formats at those locations. Other datasets can then point to those things using their URIs, which means that people using the data can find out more about something without that information being copied into the original dataset.

This page lists the sectors for which we currently publish linked data and some additional resources that will help you to use it. Most sectors have one or more SPARQL endpoints, which enable you to perform searches across the data; you can [access these interactively on this site](#).

Reference

Reference data covers the central working of government, including organisational structures where these have been made available as RDF.

Browse

- Visualisation
- Government Departments
- Other Public Bodies
- Ministers
- Members of Parliament
- Members of the House of Lords

Search

- SPARQL Endpoint provided by Talis
- Search provided by Talis
- SPARQL Endpoint provided by TSO

Ordnance Survey

Ordnance Survey have released a number of their products as linked data, including postcode units and administrative areas.

Browse

- Ordnance Survey Linked Data

More like this

- > [COINS as Linked Data](#)
- > [Guest Post: A Developers' Guide to the Linked Data APIs - Jeni Tennison](#)
- > [Have a link from this site to the Neighbourhood Statistics site](#)
- > [New on site link](#)
- > [BCS seminar on linked data and geospatial semantics](#)



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Linked Data for Ordnance Survey Linked Data. | data.ordnancesurvey.co.uk

http://data.ordnancesurvey.co.uk/

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Linked Data | data.gov.uk for Ordnance Survey Linked Data...

Ordnance Survey – Great Britain's national mapping agency See all our sites Login



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Ordnance Survey Linked Data.

A description of the resource identified by <http://data.ordnancesurvey.co.uk/>

Title	Ordnance Survey Linked Data.
Description	Ordnance Survey is Great Britain's national mapping agency, providing the most accurate and up-to-date geographic data, relied on by government, business and individuals. OS OpenData is the opening up of Ordnance Survey data as part of the drive to increase innovation and support the "Making Public Data Public" initiative. As part of this initiative Ordnance Survey has published a number of its products as Linked Data. Linked Data is a growing part of the Web where data is published on the Web and then linked to other published data in much the same way that web pages are interlinked using hypertext. The term Linked Data is used to describe a method of exposing, sharing, and connecting data via URIs on the Web. To find more Linked Data published as part of this initiative please go to data.gov.uk . If you are not familiar with Linked Data, OS OpenData products are also available in alternative formats from the OS OpenData website. Ordnance Survey can provide support for the Ordnance Survey OpenData products, but cannot give advice or support on using RDF, SPARQL or SPARQL Endpoints. Ordnance Survey has published three separate linked data resources: the 1:50 000 Scale Gazetteer, Code-Point Open and the administrative geography gazetteer for Great Britain.
Creator	Ordnance Survey
Publisher	Ordnance Survey
Date issued	2010-10-25
Example resource	SO16 4GU Portswood Southampton Southampton, Abstract Geometry Southampton, Itchen The County of Hampshire The City of Southampton Southampton Common Sparql
SPARQL endpoint	
URI lookup point	Meta?about=
Vocabulary used	Spatial Relations Ontology The administrative geography and civil voting area ontology Geometry Ontology FOAF OWL Gazetteer Ontology Postcode Ontology
URI regex pattern	http://data.ordnancesurvey.co.uk/id/.+
See also	Semantic.html
Coverage	England Scotland Wales



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BBC Internet Blog


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BBC World Cup 2010 dynamic semantic publishing

 Post categories: [World Cup](#), [linked data](#), [metadata](#), [semantic](#), [semantic web](#), [web publishing](#)

Jem Rayfield | 10:00 UK time, Monday, 12 July 2010

The [World Cup 2010 website](#) is a significant step change in the way that content is published. From first using the site, the most striking changes are the horizontal navigation and the larger, format high-quality video. As you navigate through the site it becomes apparent that this is a far deeper and richer use of content than can be achieved through traditional CMS-driven publishing solutions.

The site features 700-plus team, group and player pages, which are powered by a high-performance dynamic semantic publishing framework. This framework facilitates the publication of automated metadata-driven web pages that are light-touch, requiring minimal journalistic management, as they automatically aggregate and render links to relevant stories.

Text only | Help

BBC Home News Sport Weather iPlayer TV Radio More... Search

SPORT WORLD CUP 2010

[SPORT](#) | [FOOTBALL](#) | [WORLD CUP 2010](#) | [GROUPS & TEAMS](#) | [FIXTURES & RESULTS](#) | [VIDEO](#) | [BBC COVERAGE](#)

Latest matches

England

[England 1-1 United States](#) Saturday, 12 June Match report
[England 0-0 Algeria](#) Friday, 18 June Match report
[Slovenia 0-1 England](#) Wednesday, 23 June Match report
[Germany 4-1 England](#) Sunday, 27 June Match report

	A	B	C	D	E	F	G	H
Group C Teams								
USA	1	2	0	1	5			
England	1	2	0	1	5			
Slovenia	1	1	1	0	4			
Algeria	0	1	2	-2	1			

Features

[Jump to more content from this blog](#)

About this blog

Staff from the BBC's online and technology teams talk about BBC Online, BBC iPlayer, and the BBC's digital and mobile services. The blog is reactively moderated. Posts are normally closed for comment after three months. Your host is Nick Reynolds (NR).

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BBC on Blogs

- [BBC iPlayer Gets More S4C VOD, Will Also Link Out](#)
From paidContent (NR)
- [Whatever happened to surround sound for streaming Radio?](#)

British Museum – Search object details

http://www.britishmuseum.org/research/search_the_collection_database/search_object_detail

Reader

lod diagram

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British Museum – Search object ...

THE BRITISH MUSEUM


Home Visiting What's on Explore Research Learning The Museum Membership Support us Shop

Search

Home > Research > Search the collection database

1 of 1

The Rosetta Stone






AN16456004

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Larger image

Use digital image

Print record



Side: right Side: left Full: Front

See all views (5)

Department: Ancient Egypt & Sudan

Registration number: .24

BM/Big number: 24

Additional IDs

BS.24

Bibliographic reference

Object types

stela (all objects)

Title (object)

The Rosetta Stone

Materials

granodiorite (all objects)

Place (findspot)

Excavated/Findspot Fort Saint Julien (all objects)

Date

196BC

Period/Culture

Ptolemaic (scope note | all objects)

Description

Part of grey and pink granodiorite stela bearing priestly decree concerning Ptolemy V in three blocks of text: Hieroglyphic (14 lines), Demotic (32 lines) and Greek (53 lines).

Inscriptions

Inscription Type: inscription

Inscription Language: Greek

Inscription Type: inscription

Inscription Script: hieroglyphic

Inscription Language:

Inscription Comment: The inscription is a decree passed by a council of priests, one of a series that affirm the royal cult of the 13 year-old Ptolemy V on the first anniversary of his coronation.

Inscription Type: inscription

Inscription Script: demotic

Inscription Language:

Dimensions

Length: 112.3 centimetres (max)

Width: 75.7 centimetres

Thickness: 28.4 centimetres

More about object

Conservation

Condition

fair (incomplete)

Curator's comments

Compass text:

Home > Research > Search the collection database

1 of 1

The Rosetta Stone



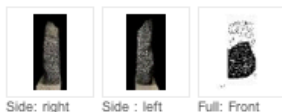
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Side: right Side: left Full: Front

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Department: Ancient Egypt & Sudan

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Thickness: 28.4 centimetres

[More about object](#)

[Conservation](#)

[June 1999 – Temporary Exhibition](#)


[April 1992 – Examination](#)

British Museum – Search object details

http://www.britishmuseum.org/research/search_the_collection_database/search_object_detail

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British Museum – Search object ...






AN16456004

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Side: right Side: left Full: Front

[See all views \(5\)](#)

Department: Ancient Egypt & Sudan

Registration number: .24

BM/Big number: 24

Additional IDs
BS.24

Bibliographic reference
[Strudwick N 2006 pp.298-299](#)

Location:
G4/CSE

[Commission photography](#)

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[Back to search](#)

Description
Part of grey and pink granodiorite stela bearing priestly decree concerning Ptolemy V in three blocks of text: Hieroglyphic (14 lines), Demotic (32 lines) and Greek (53 lines).

Inscriptions
Inscription Type: inscription
Inscription Language: Greek

Inscription Type: inscription
Inscription Script: hieroglyphic
Inscription Language:

Inscription Comment: The inscription is a decree passed by a council of priests, one of a series that affirm the royal cult of the 13 year-old Ptolemy V on the first anniversary of his coronation.

Inscription Type: inscription
Inscription Script: demotic
Inscription Language:

Dimensions
Length: 112.3 centimetres (max)
Width: 75.7 centimetres
Thickness: 28.4 centimetres

[More about object](#) **Conservation**

[June 1999 – Temporary Exhibition](#)

Treatment date
24 June 1999

Reason for treatment
Temporary Exhibition

Treatment proposal
1. Test clean return edges; 2. Clean and prepare for "Rosetta Stone, Cracking Codes and Decipherment" exhibition.

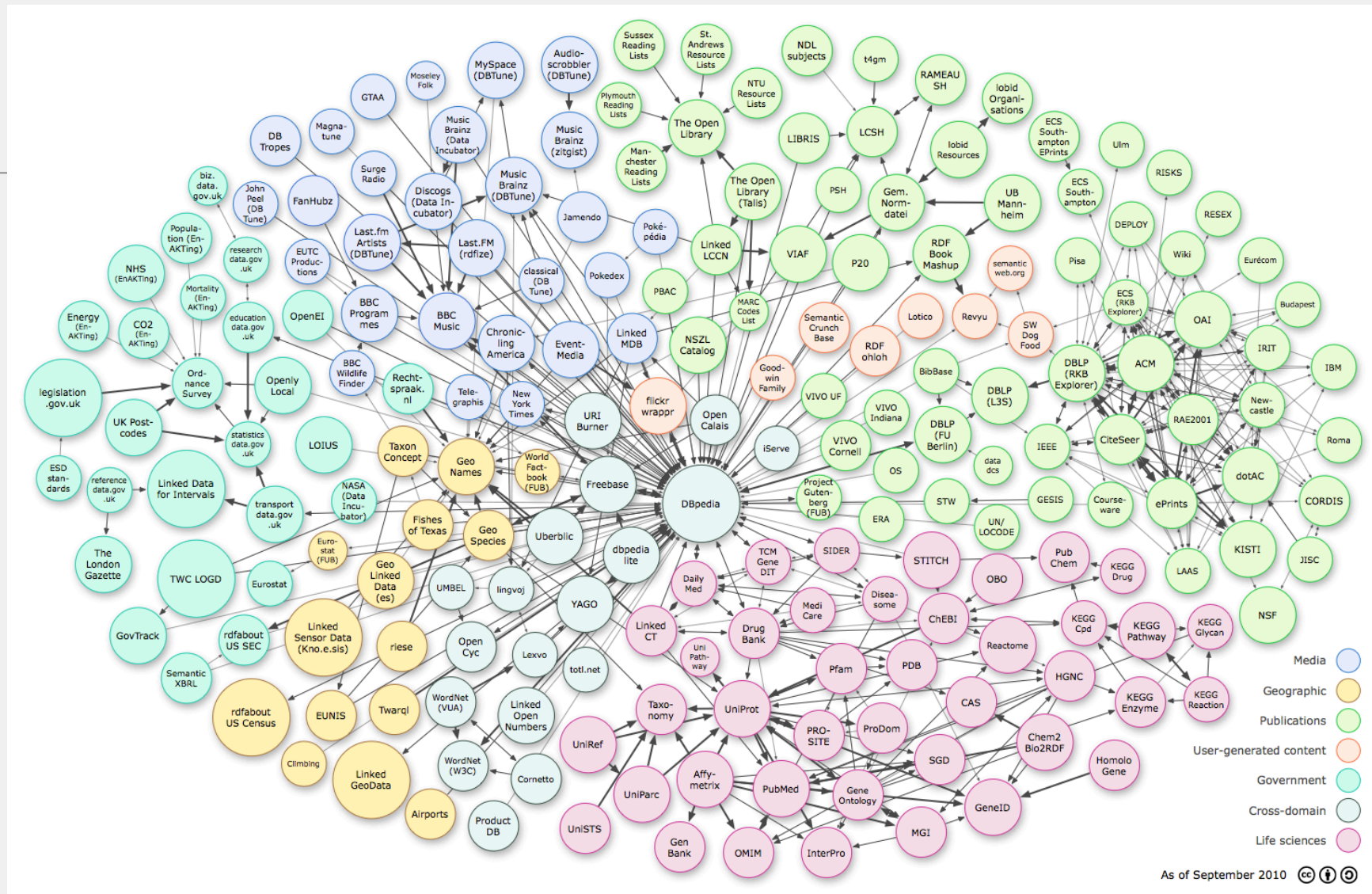
Condition
Object coated with protective treatment - identified as camauba wax, hand-grease and dirt. Inscription bears traces of hard pink material, principally near edges and at corners. It closely matches the pink granite vein for colour and is covered in places by black printers ink - see analysis report. Inscription was painted with water-based white Plaka gouache, by Carol Andrews in 1982 to replace white powder. (White powder was probably modelling clay applied as a slip over entire surface; the excess would have been removed with a cloth). White powder [clay] continued to inhabit areas of damage. Returns at either side have white deposit with pronounced horizontal directionality, but areas of damage do not have this deposit. (This is possibly gypsum plaster, spilled during casting of the inscription in Egypt). Also found: traces of reddish compacted clay on back and returns and a looser whitish material under cross-members of old mount, but elsewhere consolidated and turned brown by camauba wax. Text painted in white on left return: "CAPTURED IN EGYPT BY THE BRITISH ARMY IN 1801"; on right return: "PRESENTED BY KING GEORGE III".

Treatment details
Samples were taken of: pink material and printers ink in inscription; surface coating from various locations; white deposit on returns; reddish compacted clay on back and returns; loose whitish

British Museum

- **That was a year ago**
 - Science data
 - Conservation data
 - Linked to the Catalogue
 - Live on the web site
- **Now**
 - Catalogue
- **ResearchSpace**
 - More institutions
 - Research environment

The LOD “cloud”



Our Example: RKB and RKBExplorer

- **RKB (ReSIST Knowledge Base) and RKBExplorer**
- **Knowledge-enabled infrastructure for cooperation in research into resilient systems**
- **Reasonably mature system**

RKBExplorer – the ReSIST Project

RKBExplorer » Projects » ReSIST Resilience for Survivability in IST

http://www.rkbexplorer.com/explorer/#display=project-%7Bhttp%3A/wiki.rkbexplorer.com/id/resist%7D

Search... Search

about system requirements
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Related projects

Details

Title:
Resilience for survivability in IST

Other Names:
ReSIST Resilience for Survivability in IST

Project Overview:
ReSIST is a NoE that addresses the strategic objective "Towards a global dependability and security framework" of the Work Programme, and responds to the stated "need for resilience, self-healing, dynamic content and volatile environments". It will integrate leading researchers active in the multidisciplinary domains of Dependability, Security, and Human Factors, in order that Europe will have a well-focused coherent set of research activities aimed at ensuring that future "ubiquitous computing systems", the immense systems of ever-evolving networks of computers and mobile devices which are needed to support and provide Ambient Intelligence (AmI), have the necessary resilience and survivability, despite any residual development and physical faults, interaction mistakes, or malicious attacks and disruptions. The objectives of the Network are: 1) Integration of teams of researchers so that the fundamental topics

People

- Jean-Claude Laprie
- Aad van Moorsel
- Abdelmajid Khelil
- Achour Mostefaou
- Adnan Noon Mian
- Afraz Jaffri
- Agnan de Bonneval
- Alberto Pasquini
- Alessia Milani

Organisations

- The University of Newcastle upon Tyne
- LAAS-CNRS
- CITY UNIVERSITY LONDON
- Laboratoire d'Analyse et d'Architecture des Systèmes
- The University of Pisa
- Institut Eurecom
- Technische Universität Darmstadt
- UNIVERSITA DEGLI STUDI DI ROMA "LA SAPIENZA" - UNIVERSITY OF ROME "LA SAPIENZA"

Publications

- Malicious- and Accidental-Fault Tolerance in Internet Applications: conceptual model and architecture
- Conceptual Model and Architecture
- Conceptual model and architecture of MAFTIA
- ASSERT Automated proof based system and software engineering for real-time applications
- Malicious- and Accidental-Fault Tolerance in Internet Applications: reference model and use cases
- Revised version in Predictably dependable computing systems

Research Areas

- Testing
- Safety
- Trust
- Human Made Fault
- Symbolic Execution
- Dependability And Security Provision
- Dependability, High Confidence, Survivability
- Development Fault
- Environment

Applet eu.resist.rkb.RKBExplorer2 started

RKBExplorer » People » Hugh Glaser

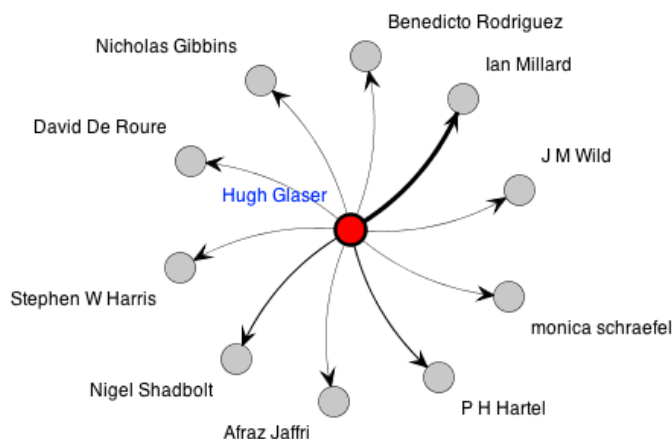
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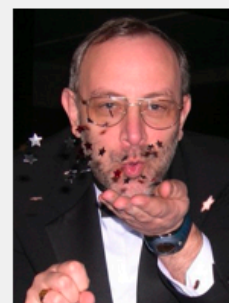
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- system requirements
- data sources
- acknowledgements



Related people



Details



Full Name:
[Hugh Glaser](#)

Full Name:
[H Glaser](#)

People

[Ian Millard](#)

[P H Hartel](#)

[Nigel Shadbolt](#)

[Afraz Jaffri](#)

[Nicholas Gibbins](#)

[Benedicto Rodriguez](#)

[Stephen W Harris](#)

[David De Roure](#)

[J M Wild](#)

Organisations

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[Declarative Systems and Software Engineering](#)

[Intelligence, Agents, Multimedia Group](#)

Publications

[The Dataflow Programming Language CAJOLE - An Informal Introduction](#)

[Compilation of functional languages using flow graph analysis](#)

[Museum data, where next – consuming linked data](#)

[Consuming multiple linked data sources: Challenges and Experiences](#)

[Faceted Classification Scheme ODP](#)

Projects

[ReSIST Resilience for Survivability in IST](#)

[A DISTRIBUTED APPLICATION GENERATOR IN THE SEARCH/OPTIMISATION DOMAIN](#)

[GRAPHICSLA : GRAPHICAL PROGRAMMING AND DISTRIBUTED THREADS](#)

[HELIOS](#)

RKBExplorer » People » Wendy Hall

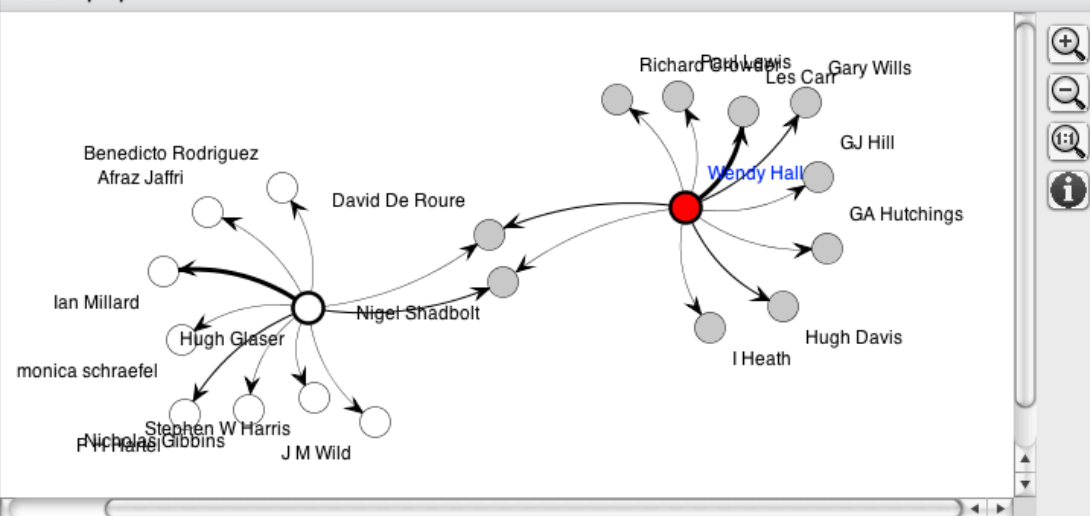
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Related people



Details

Email Address:
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<http://www.ecs.soton.ac.uk/people/>

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Description:
Dame Wendy Hall DBE, FREng, FBCS, FIET, FCGI, FRS (born 25 October 1952) is Professor of Computer Science at the University of Southampton.

People

- [Les Carr](#)
- [David De Roure](#)
- [Hugh Davis](#)
- [Gary Wills](#)
- [Richard Crowder](#)
- [I Heath](#)
- [Paul Lewis](#)
- [GA Hutchings](#)
- [GJ Hill](#)

Research Areas

- [H.5.4. Hypertext/Hypermedia](#)
- [H.5.1. Multimedia Information Systems](#)
- [I.7.2. Document Preparation](#)
- [H.5. INFORMATION INTERFACES AND PRESENTATION](#)
- [Artificial Intelligence Technologies](#)
- [Cognitive Science and its Applications](#)

Publications

- [Preserving Linked Data on the Semantic Web by the application of Link Integrity techniques from Hypermedia](#)
- [Put in your postcode, out comes the data: A Case Study](#)
- [Use of the Semantic Web in e-Research](#)
- [All About That - A URI Profiling Tool for monitoring and preserving Linked Data](#)
- [Building a Distributed Infrastructure for Scalable Triple Stores.](#)

Projects

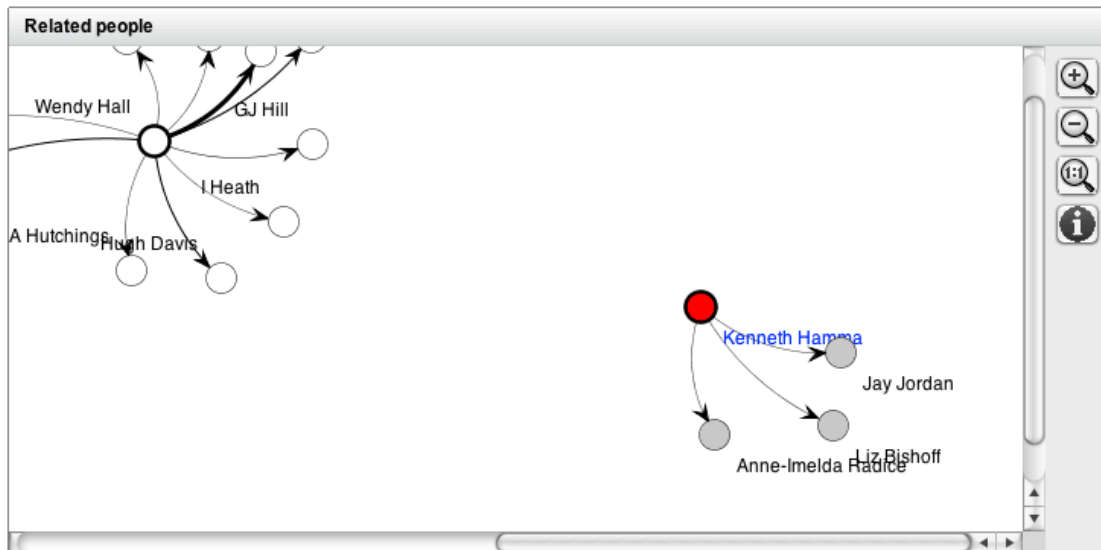
- [IMI: DARP: KNOWLEDGE CAPTURE, SHARING AND REUSE IN THE DESIGN PROCESS \(KCSR\)](#)
- [MULTIMEDIA THESAURUS AND INTELLIGENT AGENT SUPPORT FOR CONTENT BASED NAVIGATION](#)
- [QUERIES IN CONTEXT \(QUIC\)](#)
- [Visiting Fellowship - Professor Ted Nelson](#)
- [Collaborative Orthopaedic Research Environment](#)

RKBExplorer » People » Kenneth Hamma

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Raw Linked Data:

[Resolvable URI](#)

[Browse in a SemWeb browser](#)

[All Known Co-reference Data](#)

People

[Anne-Imelda Radice](#)

[Jay Jordan](#)

[Liz Bishoff](#)

Organisations

[J. PAUL GETTY TRUST](#)

Publications

[Welcome to WebWise.](#)

[The role of museums in online teaching, learning, and research.](#)

Projects

[MUSENIC](#)

RKBExplorer » People » Atanas Kiryakov

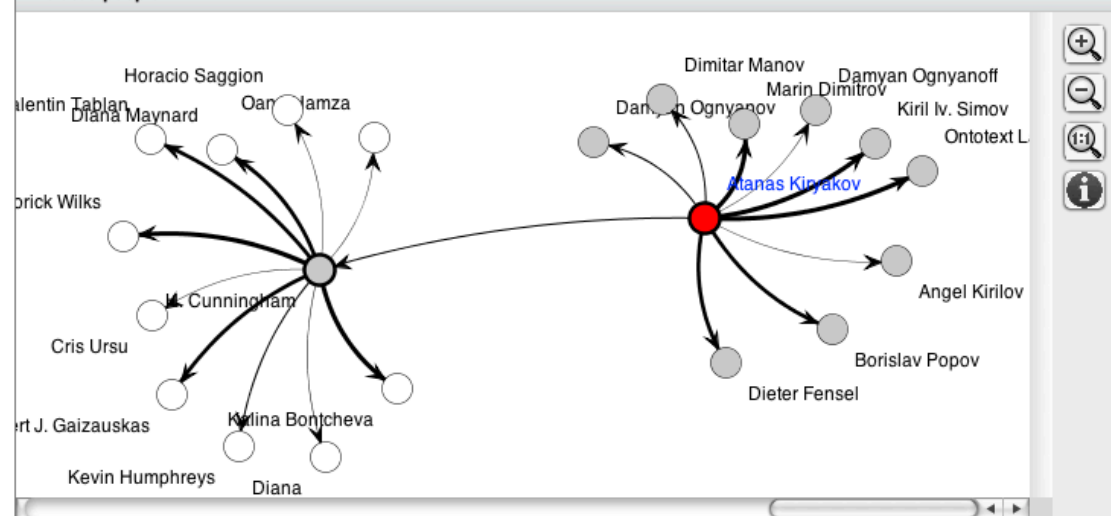
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Related people



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[Atanas Kiryakov](#)

Full Name:

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Web Address:

<http://www.ontotext.com>

Raw Linked Data:

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People

[Kiril Iv. Simov](#)

[Marin Dimitrov](#)

[Ontotext Lab](#)

[Dieter Fensel](#)

[Borislav Popov](#)

[Damyan Ognyanov](#)

[Dimitar Manov](#)

[H. Cunningham](#)

[Angel Kirilov](#)

Organisations

[Ontotext Lab](#)

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[UNIVERSITY OF VRIJE
AMSTERDAM](#)

Projects

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Research Areas

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[conceptual level](#)

[conceptual relation](#)

[lexical knowledge base](#)

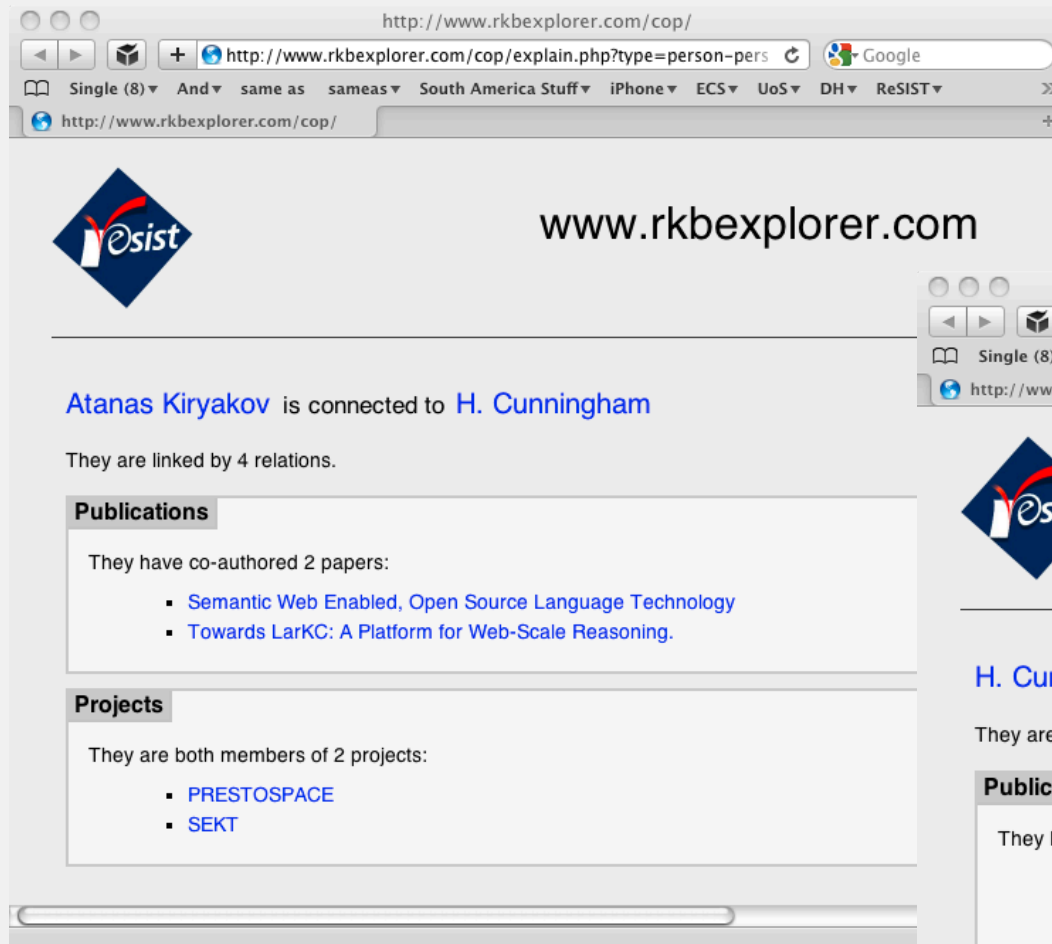
[ontology language](#)

[upper-level ontology](#)

[I.2.4. Knowledge
Representation Formalisms and
Methods](#)

[I.2.4.5. Representations](#)


But Why?



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 **www.rkbexplorer.com**

[Atanas Kiryakov](#) is connected to [H. Cunningham](#)

They are linked by 4 relations.

Publications

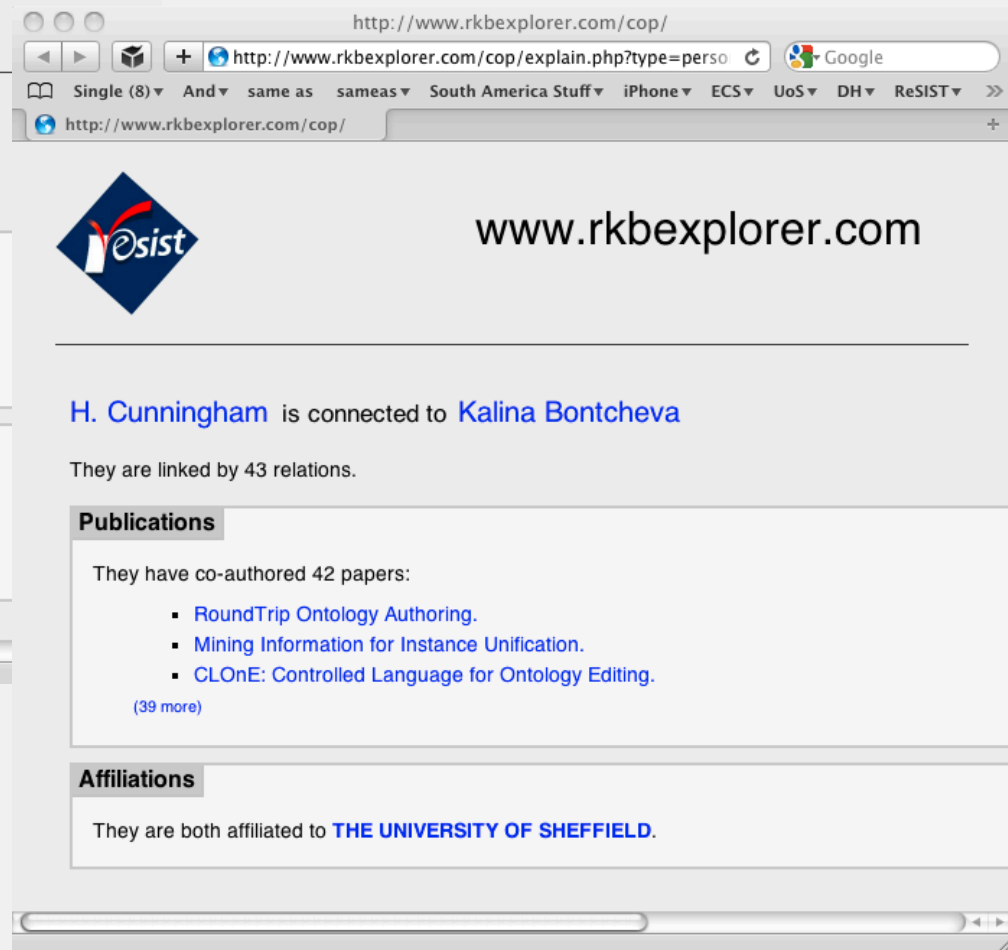
They have co-authored 2 papers:

- [Semantic Web Enabled, Open Source Language Technology](#)
- [Towards LarkC: A Platform for Web-Scale Reasoning.](#)

Projects

They are both members of 2 projects:


- [PRESTOSPACE](#)
- [SEKT](#)



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 **www.rkbexplorer.com**

[H. Cunningham](#) is connected to [Kalina Bontcheva](#)

They are linked by 43 relations.

Publications

They have co-authored 42 papers:

- [RoundTrip Ontology Authoring.](#)
- [Mining Information for Instance Unification.](#)
- [CLOnE: Controlled Language for Ontology Editing.](#)

(39 more)

Affiliations

They are both affiliated to [THE UNIVERSITY OF SHEFFIELD.](#)

sameAs

http://sameas.org/ Google

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<sameAs>

interlinking the Web of Data

The Web of Data has many equivalent URIs.
This service helps you to find co-references
between different data sets.
Enter a known URI, or use Sindice to search first.


<sameAs> Enter a Linked Data URI...

Sindice Enter a literal (text) search...

Why not try searching for the string "[Southampton](#)", (which we will look up for you on [Sindice](#) first)
or finding other equivalent identifiers for <http://transport.data.gov.uk/id/local-authority/1755>?

Currently serving **39 221 073** URIs in **13 112 833** bundles!


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<sameAs>

interlinking the Web of Data

The Web of Data has many equivalent URIs.
This service helps you to find co-references
between different data sets.
Enter a known URI, or use Sindice to search first.

<sameAs> 

Equivalent URIs for http://acm.rkbexplorer.com/id/person-344165-529a2367796b9822d610a72843a3980c –

- <sameAs> {
1. http://data.semanticweb.org/person/atanas-kiryakov
 2. http://acm.rkbexplorer.com/id/person-344165-529a2367796b9822d610a72843a3980c
 3. http://acm.rkbexplorer.com/id/person-344165-be4c940af0b483a2d1675df9fa0bab6f
 4. http://acm.rkbexplorer.com/id/person-344165-c23ba3f792faeca763400f197b89adb1
 5. http://acm.rkbexplorer.com/id/person-344165-e0b9eea0f283efab1c5ae86ad61bf111
 6. http://acm.rkbexplorer.com/id/person-344165-fa8e9aed948670c2accad97a4320122d
 7. http://dblp.rkbexplorer.com/id/people-2ceb8136f69a235014d3d46c881a1...86ce3c9dc7
 8. http://dblp.rkbexplorer.com/id/people-c9d93beb4ba98fa7318516e5fb5f9...f7185e51d3
 9. http://dblp.rkbexplorer.com/id/people-c9d93beb4ba98fa7318516e5fb5f9...88ed85ab7e
 10. http://dblp.rkbexplorer.com/id/people-c9d93beb4ba98fa7318516e5fb5f9...601d0b0236
 11. http://dblp.rkbexplorer.com/id/people-c9d93beb4ba98fa7318516e5fb5f9...b93fb59e9f
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 19. http://citeseer.rkbexplorer.com/id/resource-CSP162937-13aaf289f2945...80cea8e74c
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 24. http://citeseer.rkbexplorer.com/id/resource-CSP162937-7896446de27c6...8f39db880b
 25. http://citeseer.rkbexplorer.com/id/resource-CSP162937-8ac5adb3359f3...213751b546

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sameAs « <http://transport.data.gov.uk/id/local-authority/1755>

« [http://sameas.org/html?uri=http%3A%2F%2Ftransport.data.gov.uk%2Fid%2Flocal-authority%2F1755](#) » Google

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sameAs « <http://transport.data.g...> »

<sameAs>

13. http://dbpedia.org/resource/Southampton_City_Centre
14. http://dbpedia.org/resource/Southampton,_England
15. http://dbpedia.org/resource/Southampton,_Hampshire
16. http://dbpedia.org/resource/Southampton_City_Council
17. [http://dbpedia.org/resource/Southampton_\(district\)](http://dbpedia.org/resource/Southampton_(district))
18. <http://www.okkam.org/ens/id13973975-c3dd-47e7-8e35-f09428d8723c>
19. <http://unlocode.rkbexplorer.com/id/GBSOU>
20. <http://unlocode.rkbexplorer.com/description/GBSOU>
21. <http://os.rkbexplorer.com/osr/7000000000037256>
22. <http://d.opencalais.com/en/geo/city/ralg-geo1/8687634d-b732-c7f1-b3...3194e82d15>
23. <http://data.nytimes.com/N8998838277808400221>
24. http://data.nytimes.com/southampton_england_geo
25. <http://data.ordnancesurvey.co.uk/id/7000000000037256>
26. <http://linkedgeodata.org/triify/node/285832#id>
27. <http://mortality.psi.enakting.org/id/Southampton>
28. <http://mpii.de/yago/resource/Southampton>
29. <http://nuts.psi.enakting.org/id/UKJ32>
30. <http://openlylocal.com/id/councils/377>
31. <http://rdf.freebase.com/ns/en.southampton>
32. <http://rdf.freebase.com/ns/guid.9202a8c04000641f800000000075d87>
33. <http://rdf.freebase.com/ns/guid.9202a8c04000641f8000000004825363>
34. <http://revyu.com/tags/southampton>
35. <http://statistics.data.gov.uk/id/local-authority/00MS>
36. <http://statistics.data.gov.uk/id/local-authority/24UM>
37. <http://statistics.data.gov.uk/id/county?name=Southampton>
38. <http://statistics.data.gov.uk/id/local-authority-district/00MS>
39. <http://statistics.data.gov.uk/id/local-authority-district?name=Southampton>
40. <http://statistics.data.gov.uk/id/local-authority?name=Southampton City Council>
41. <http://statistics.data.gov.uk/id/local-authority-district?name=The ...outhampton>
42. <http://sw.cyc.com/concept/Mx4rvViRB5wpEbGdrcN5Y29ycA>
43. <http://sw.opencyc.org/concept/Mx4rvViRB5wpEbGdrcN5Y29ycA>
44. <http://sw.opencyc.org/concept/Mx4rvx6ncZwpEbGdrcN5Y29ycA>
45. <http://sw.opencyc.org/2008/06/10/concept/Mx4rvViRB5wpEbGdrcN5Y29ycA>
46. <http://sw.opencyc.org/2008/06/10/concept/Mx4rvx6ncZwpEbGdrcN5Y29ycA>
47. <http://sw.opencyc.org/2009/04/07/concept/Mx4rvViRB5wpEbGdrcN5Y29ycA>
48. <http://sw.opencyc.org/2009/04/07/concept/Mx4rvx6ncZwpEbGdrcN5Y29ycA>
49. <http://sw.opencyc.org/2008/06/10/concept/en/CityOfSouthamptonEngland>
50. <http://sw.opencyc.org/2009/04/07/concept/en/CityOfSouthamptonEngland>
51. http://sw.opencyc.org/2008/06/10/concept/en/Southampton_ParishBermuda
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56. <http://umbel.org/umbel/ne/wikipedia/Southampton>
57. <http://www.twine.com/item/1r2lcxqy-rlz>

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Co-Reference

- **Repositories have people, publications, etc. from other institutions who also have records there and elsewhere**
- **And vice versa**
- **Co-Reference is a Big Problem**
 - Everything is a URI (not title, name, number...)
 - Identifying multiple URIs for one resource
 - Rejecting incorrectly conflated resources
 - Publishing
 - Using
- **Coldstart**
 - A serious problem
 - Nothing is linked to anything
 - Not even (reliably) within most repositories

Co-Reference Service (CRS)

- **CRS Subsystem**
 - Find co-references
 - Store them
 - Publish them
 - Essentially:
 - $URI_i \rightarrow \{ URI_1, \dots, URI_i, \dots, URI_n \}$
 - Recommend a “Canon”
- **Published by the Data Publisher**
 - And possibly others
- **Middleware aggregates co-references from recognised CRSes**

CRS continued

- **CRS Policies are defined by context**
 - Often one per Triplestore
 - Can be many per Triplestore for different purposes
 - May not be associated with a particular Triplestore
- **Maintenance**
 - Provenance
 - Rollback
- **Can be used to infer owl:sameAs**
- **Eg OAI CRS has**
 - 7531045 different URIs
 - in
 - 2544955 bundles


Open System

- **RKBExplorer is only one interface**
 - And not a required part
- **Services:**
 - Details for a paper (the right hand pane in RKBExplorer):
 - <http://www.rkbexplorer.com/detail/?uri=http://southampton.rkbexplorer.com/id/eprints-12614>
 - Network of people for a publication (lower pane):
 - <http://www.rkbexplorer.com/network/?uri=http://southampton.rkbexplorer.com/id/eprints-12614&type=publication-person>
 - ...
- **Services**
 - <http://www.rkbexplorer.com/services/>
- **Other Interfaces (using the services)**
 - Personal Web pages
 - iPhone
 - iGoogle Gadget

http://www.rkbexplorer.com/services/

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This page gives convenient access to various useful links and demonstrations associated with RKBExplorer.
It is primarily for the use of project members and collaborators, and not intended as a general entry point for other people.
It exposes many of the services of the RKB system in RESTful-style manners.
One day I will find the time to make a better page, with documentation.

If you are interested in something here and want to explore using it, please contact [Hugh Glaser](#) or [Ian Millard](#).

RKB Explorer application
[ReSIST project](#), [Jean-Claude Laprie](#), [ALRL Paper](#)

iGoogle Gadgets of the RKB Panels
[\[Main Page\]](#)


Complete Co-Reference Information
[\[Main Page\]](#),
or try: [Nigel Shadbolt](#), [Hugh Glaser](#), [Brian Randell](#), [Jean-Claude Laprie](#), [Seungwoo Lee](#)


Ontology Mapping
[\[Main Page\]](#),
or try: [KISTI -> AKT \(RDF, html\)](#);

Networks (Communities of Practice)
[\[Find the Network of a URI\]](#),
or try: [Hugh Glaser](#), [The Semantic Web Revisited](#), [Tim Berners-Lee](#)

Detail Information
[\[Find Information about a URI\]](#),
or try: [Hugh Glaser](#), [The Semantic Web Revisited](#), [Tim Berners-Lee](#)

Why? - Why are two Things Related?
[\[Main Page\]](#),

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RKBGadget » People

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- [M Berners-Lee](#)
- [Mary Lee Berners-Lee](#)
- [Lee Tim Berners-Lee](#)

Tim Berners-Lee 

Full Name:
[Tim Berners-Lee](#) 

Email Address:
timbl@w3.org

Web Address:
http://en.wikipedia.org/wiki/Tim_Berners-Lee 

RKBGadget » Project

Search Reset

KNOWLEDGE WEB 

Title:
Realizing the semantic web

Other Names:
KNOWLEDGE WEB

Project Overview:
The current World Wide Web (WWW) is, by its function, the syntactic web where structure of the content has been presented while the content itself is inaccessible to computers. The next generation of the Web (the Semantic Web) aims to alleviate such problem and provide specific solutions targeted the

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Weather

Southampton, England

 13°C Current: Clear
Wind: SE at 3 km/h
Humidity: 94%

Tue

Wed

Thu

Fri

21° | 13°

24° | 16°


20° | 11°

18° | 9°

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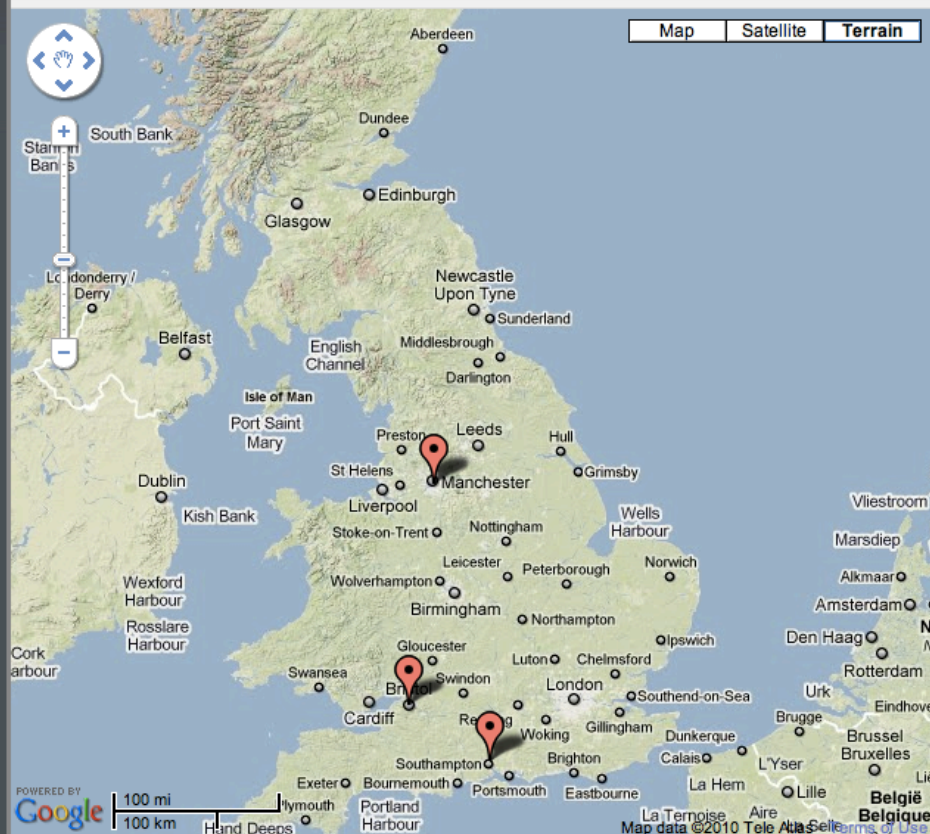


MyExperiment

Search...



Location of Project Members



Details

Names:

MyExperiment

Starts:

01/03/2007

Ends:

31/03/2009

Web Address:

<http://www.myexperiment.org/>

Description:

The myExperiment Virtual Research Environment enables you and your research

Project Members

[Carole Goble](#)



[Darius Michaelides](#)



[David De Roure](#)



[Frederique VanTill](#)



Participating Organisations

[University of Southampton](#)



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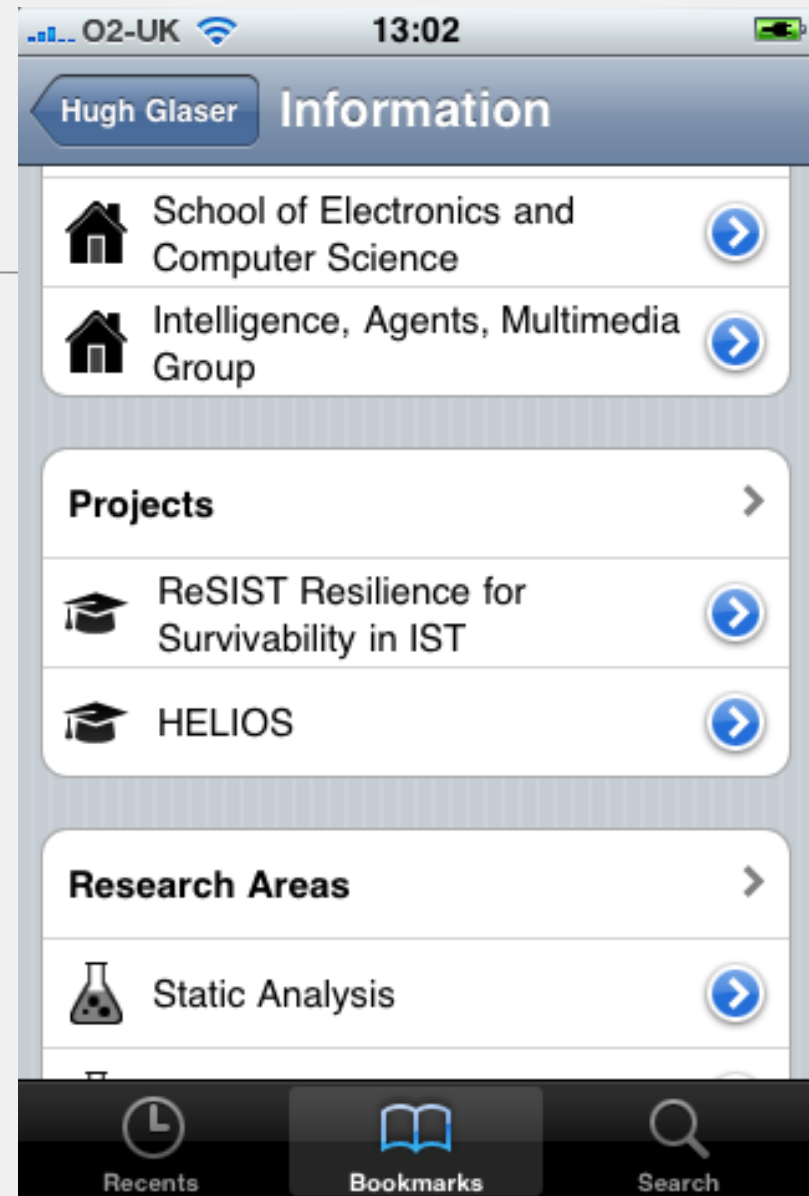
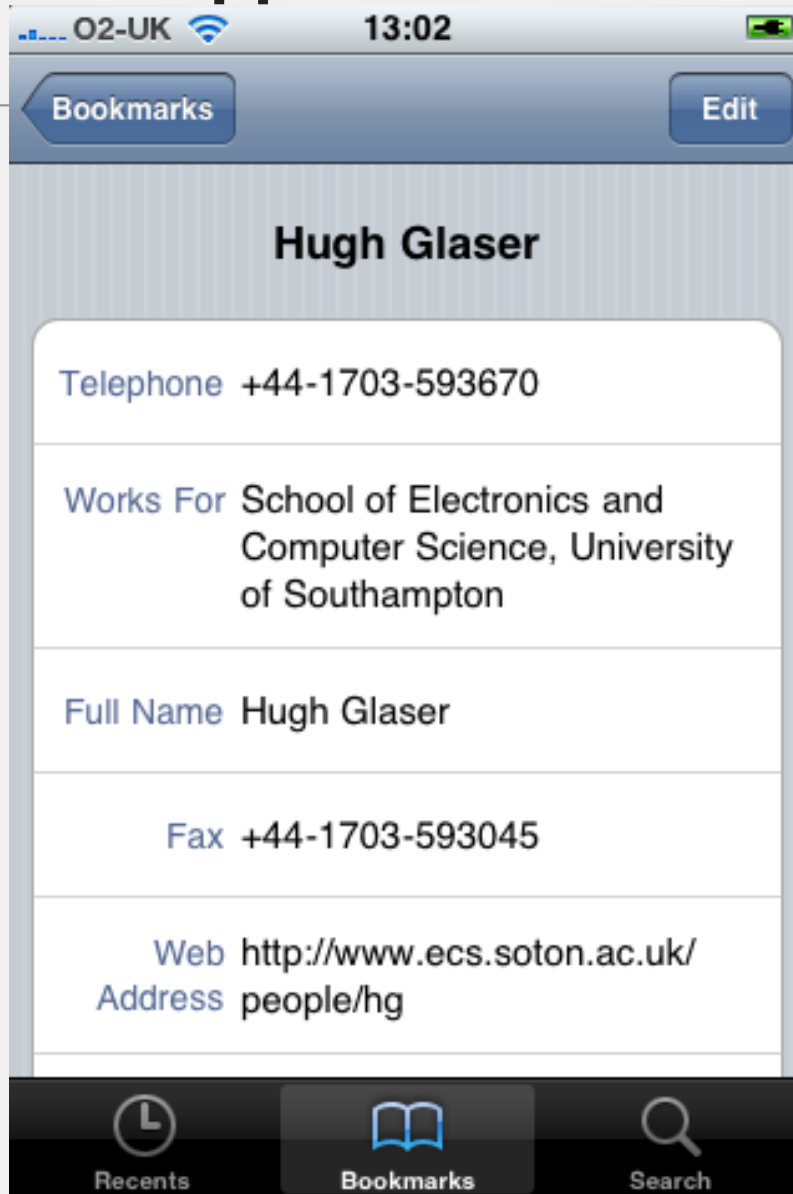


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Publications

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Semantic Web is not “All or Nothing”

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Hugh Glaser

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Hugh Glaser
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Position: Visiting academic staff in [Intelligence, Agents, Multimedia Group](#)
Fax: +44 (0)23 8059 3045
Email: hg@ecs.soton.ac.uk
URI: <http://id.ecs.soton.ac.uk/person/21> [[browse](#)]

Interests: [genetic algorithms](#), [ontology maintenance](#), [semantic grid](#), [semantic squirrels](#), [semantic web](#), [semantic wiki](#), [service composition](#), [ubiquitous computing](#), [web 2.0](#)


The group secretary for the Intelligence, Agents, Multimedia Group is [Jane Morgan](#).

Additional Contact Details

[I may be here](#)

Duties

ECS - Staff Training Budget
ECS - Travel Budget
Staff Teaching allocation (with Mark Zwolinski)



Hugh Glaser

Hugh works with:

- [Dr Ian Millard](#) ([explain](#))
- [Afraz O Jaffri](#) ([explain](#))
- [Professor Nigel R Shadbolt](#) ([explain](#))
- [Dr Nicholas Gibbins](#) ([explain](#))
- [Bene Rodriguez-Castro](#) ([explain](#))
- [Professor David C De Roure](#) ([explain](#))
- [dr monica mc schraefel](#) ([explain](#))
- [Dr Harith Alani](#) ([explain](#))

This list of people is sourced from [BKBExplorer](#), the result of an ECS project. Click on the "explain" link to the right of each person to find out how they are connected.
Note: the explain link requires heavy processing and may take some time to load.

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From the Study Day Description

- “The ability of the semantic web to *cheaply* but effectively *integrate data and breakdown data silos* provides museums with a long awaited opportunity to present a *richer, more informative and interesting picture.*”
» Dominic Oldman

Concluding Remarks

- **RKB: Nobody had to put their personal data in – they come and find it there**
- **The initial British Museum project has delivered value, at comparatively low cost**
- **A new project is almost complete – the catalogue is in Linked Data form**
- **Linked Data works pretty well – especially for integration**
- **Added value**
 - More sophisticated services
 - In an Open System you don't have to do everything yourself
 - Concentrate on core business
- **Don't stop at the catalogue – there is a lot of other interesting stuff**
- **Worry about your co-reference**

-
- **A Whirlwind tour of a part of it that has hopefully given you a flavour**
 - **Imagine people having an RKB-like worldwide view of Cultural Heritage**
 - With your institution as part

You are never alone

- **Ian Millard**
- **ReSIST Project**
- **AKT Project**
- **EnAKTing Project**
- **10 years of collaborators**

<http://eprints.ecs.soton.ac.uk/id/eprint/21894>