

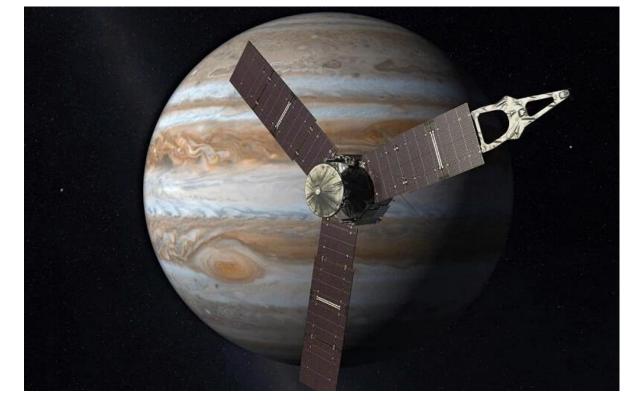


CIDOC CRM Research Infrastructures



Report on Development

Dominic Oldman Head of ResearchSpace Senior Curator, Ancient Egypt & Sudan @researchspace







Components

- Fully Linked Data Uses RDF Store and Index only
- Fully CIDOC CRM All data for content and system is CIDOC CRM Linked Data
- Open Source
- Standards based HTML and Wiki-markup
- No reasoning of core data stable research objects
- ETL (Extract, Transform Load) Publication Pipeline
- Docker Implementation



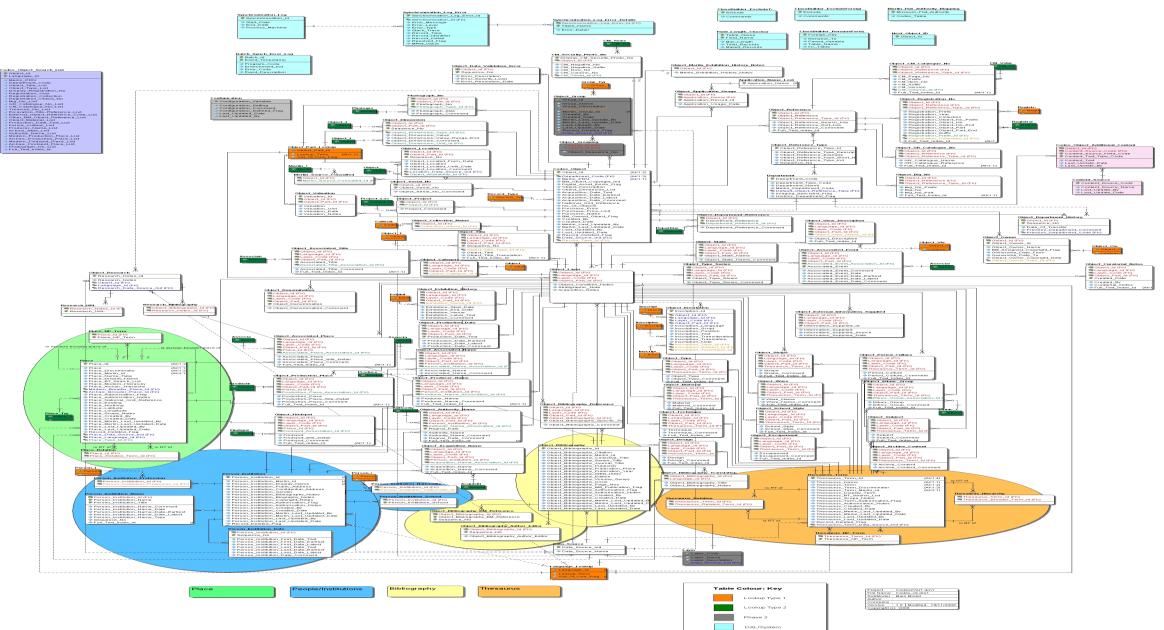
The Only Technical Slide

THE

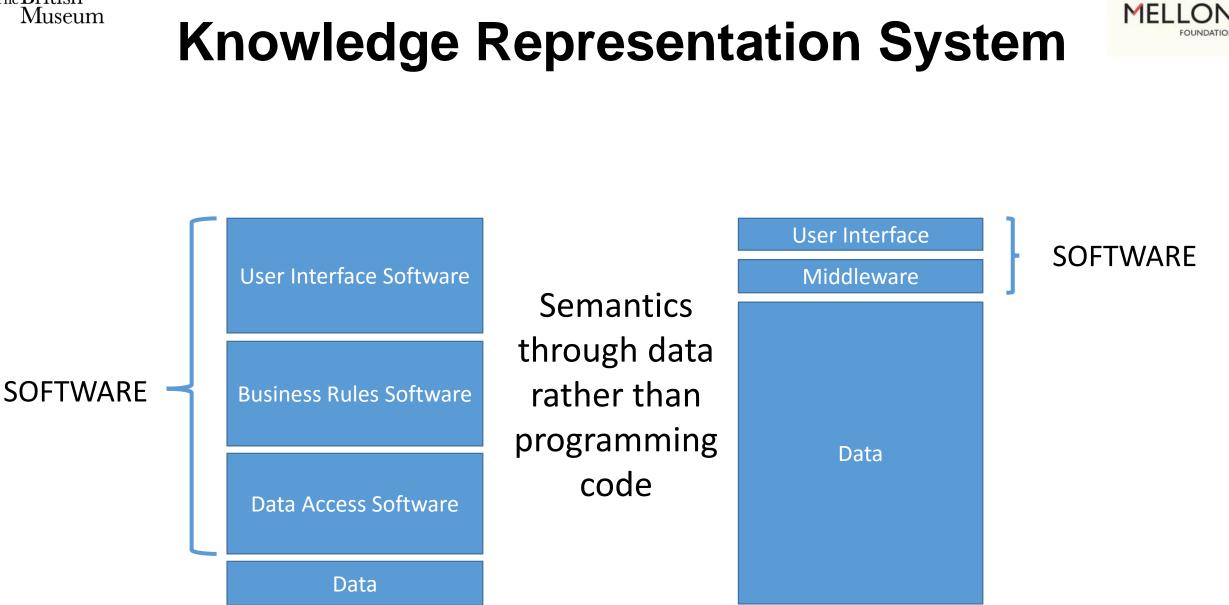
ANDREW W

MELLON

FOUNDATION







THE ANDREW W



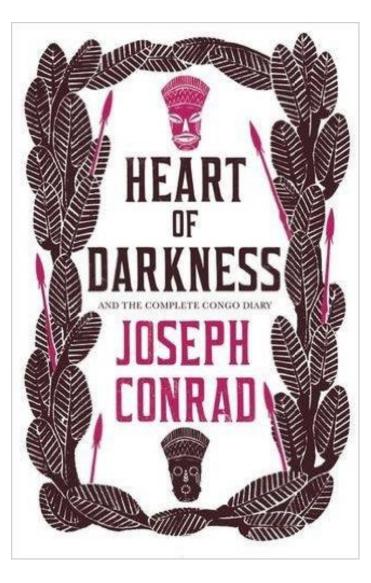


Resource Discovery



Why we use CIDOC CRM?





- =LDR 00972pam 2200301 i 4500
- =001 016965243
- =003 Uk
- =005 20160519142819.0
- =008 141127s2015\\\\enk\\\\\b\\\\000\1\eng\d
- =015 \\\$aGBB4D7759\$2bnb
- =020 \\\$a9781847494016 (pbk.) :\$c£4.99
- =040 \\\$aStDuBDS\$beng\$cStDuBDS\$dUk\$erda
- =042 \\\$aukblcatcopy
- =082 04\$a823.912\$223
- =100 1\\$aConrad, Joseph,\$d1857-1924,\$eauthor.
- =240 10\$aWorks.\$kSelections
- =245 10\$aHeart of darkness ;\$band,
- The complete Congo diary /\$cJoseph Conrad.
- =250 \\\$aNew edition.
- =264 \1\$aRichmond :\$bAlma Classics,\$c2015.
- =300 \\\$a128 pages ;\$c20 cm
- =336 \\\$atext\$2rdacontent
- =337 \\\$aunmediated\$2rdamedia
- =338 \\\$avolume\$2rdacarrier
- =504 \\\$aIncludes bibliographical references.
- =500 \\\$aFormerly CIP.\$5Uk
- =650 \0\$aEuropeans\$zAfrica\$vFiction.
- =651 \0\$aCongo River\$xDiscovery and
- exploration\$vFiction.
- =700 12\$aConrad, Joseph,\$d1857-1924.\$tCongo diary.





Why we use CIDOC CRM?

Why Linked Data is Not Enough for Scientists

Sean Bechhofer^{a,*}, Iain Buchan^b, David De Roure^{d,c}, Paolo Missier^a, John Ainsworth^b, Jiten Bhagat^a, Philip Couch^b, Don Cruickshank^c, Mark Delderfield^b, Ian Dunlop^a, Matthew Gamble^a, Danius Michaelides^c, Stuart Owen^a, David Newman^c, Shoaib Sufi^a, Carole Goble^a

^aSchool of Computer Science, University of Manchester, UK ^bSchool of Community Based Medicine, University of Manchester, UK ^cSchool of Electronics and Computer Science, University of Southampton, UK ^dOxford e-Research Centre, University of Oxford, UK



Cultural Heritage Research Environment

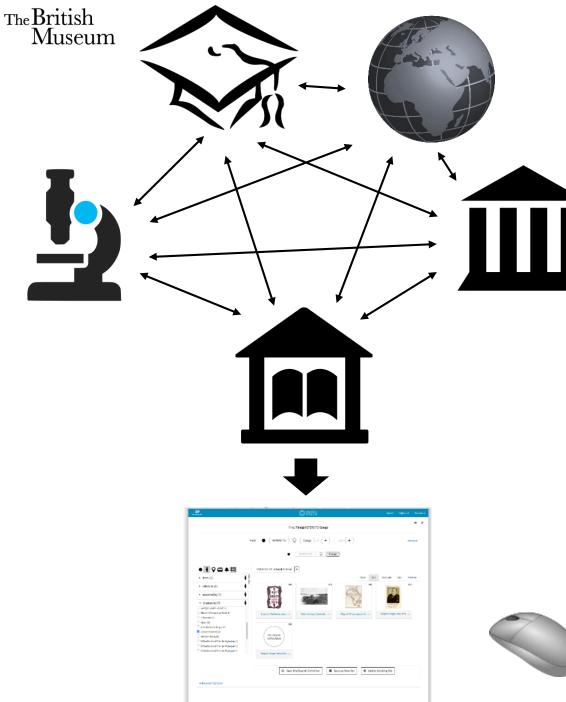
Is highly complicated

Meaning and context varies across information

Relevancy is not consistent

It grows and changes

It has a wide range of different users with different needs.



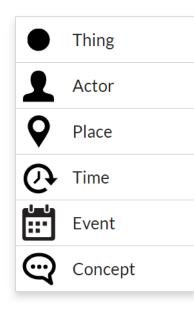


Putting a User Interface on CIDOC CRM





Find: Events ...





What am I searching for?



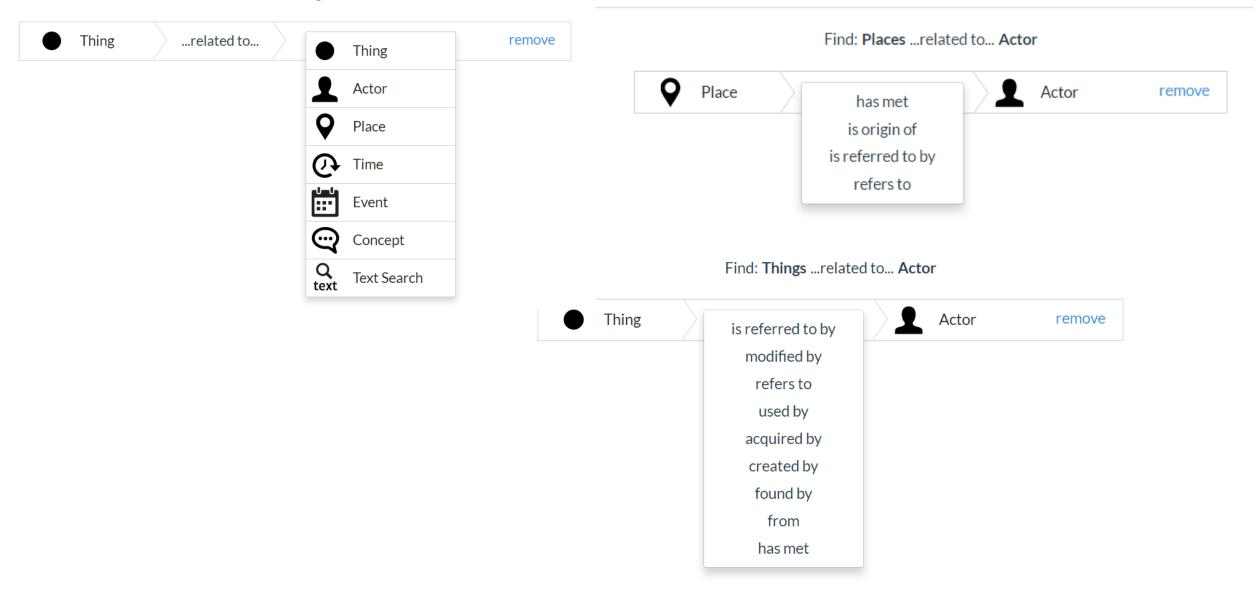
Search the collection			𝒫 Search					
Images only								
Advanced search options								
People and organisations 🕜			Places 🕜			Production date		
e.g. Hokusai, Ramesses	OR	AND	india	OR	AND	AD • to AD	•	
Object types 🕜		Subjects 🕜		Cultures/ periods / dynasties 🕜				
e.g. bowl, hanging scroll, print	OR	AND	e.g. farming, New Testament OR AND		e.g. Choson Dynasty, Ptolem	aic OF	ANE	
Techniques 🕜			Schools/styles 🕜			Materials 🕜		
e.g. carved, celadon-glazed	OR	AND	e.g. French, Mughal Style	OR	AND	e.g. canvas, porcelain, silk	OF	ANI
Ethnic group 🕜			Ware 🕜			Escapement 🕜		
e.g. Hmong, Maori, Tai	OR	AND	e.g. Imari ware, Qingbai ware	OR	AND	e.g. cylinder, gravity, lever	OF	AND
Publication (author/ title) ?			Publication reference ?					
	OR	AND						

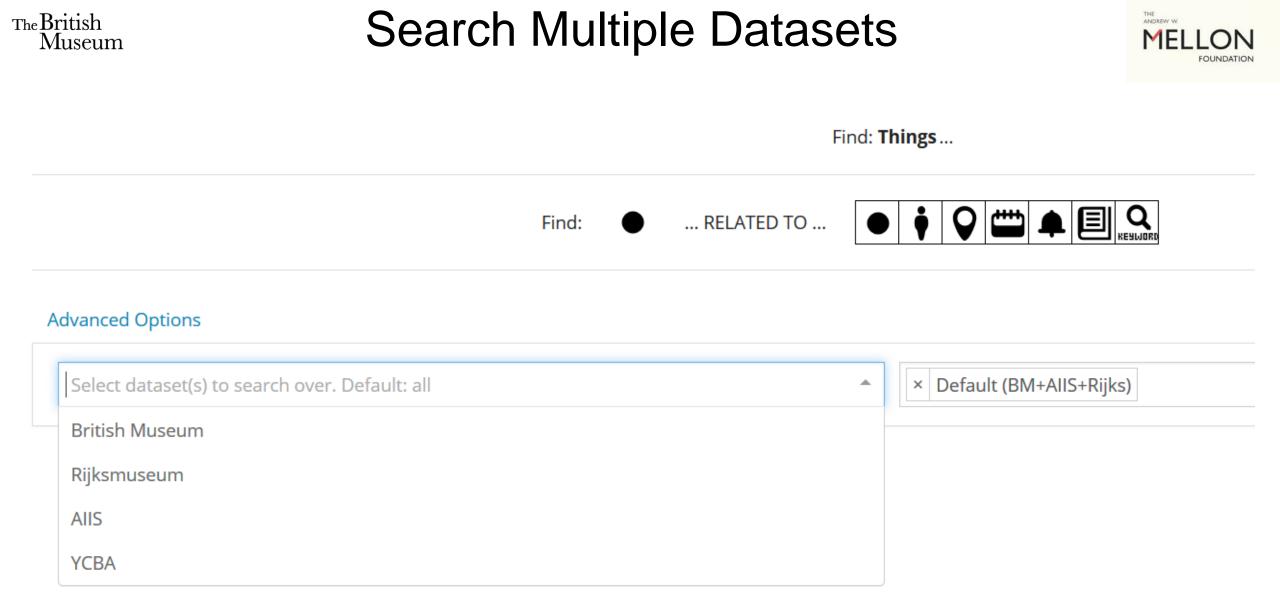


Search with Context









Original data and terminology not affected



Configure the Context

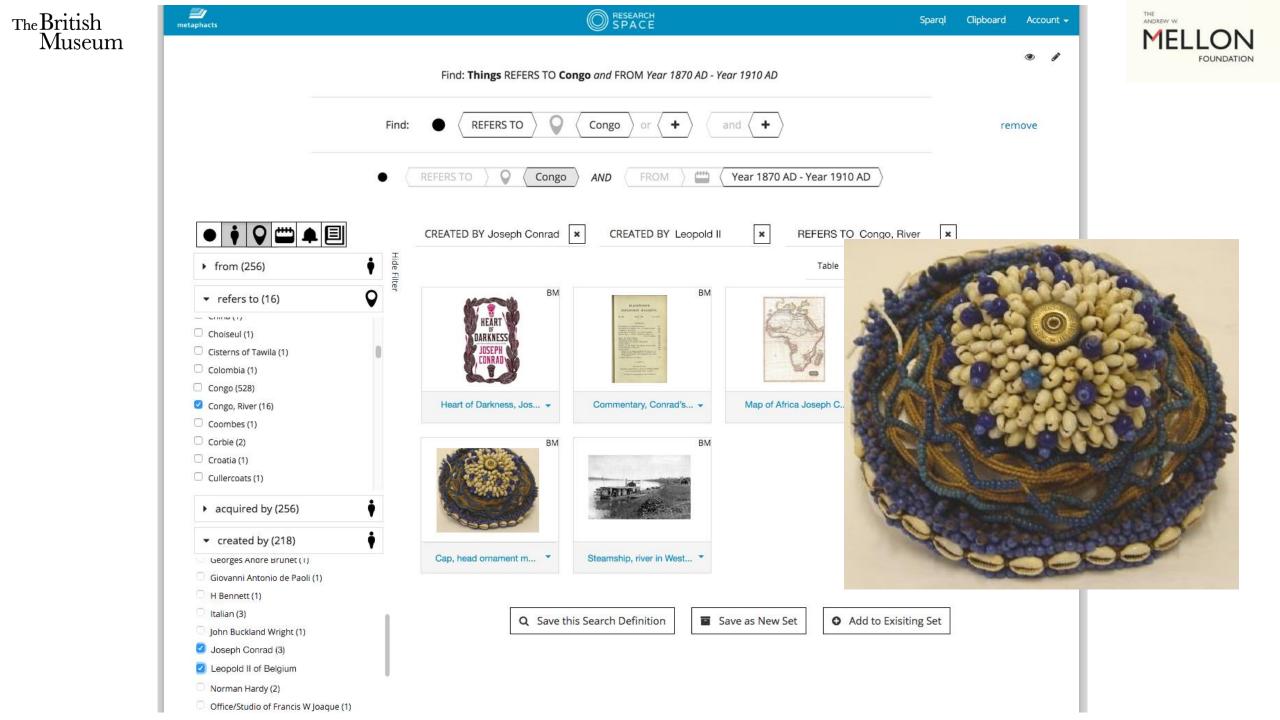


PORTAL / RELATIONSHIP PROFILES / DEFAULT (BM+AIIS+RIJKS)

Relationship Profile "Default (BM+AIIS+Rijks)"

Description: default system profile

Profile Categorie	es:	× Thing × Actor × Place × Time × Event × Concept					
	Domain/Range	Thing	Actor		Time	Levent	Concept
	Thing	7	6	5	4	5	1
	Actor	3	5	2	5	8	1
	P lace	3	2	2	0	3	1
	Time	1	0	0	1	0	0
	🜲 Event	4	6	3	1	4	1
	Concept	1	1	1	0	1	2





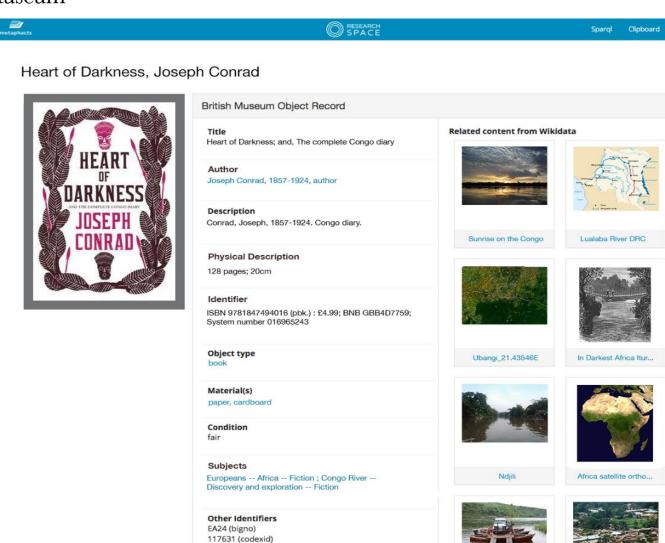
Faceting by Relationships

 from (256) 	♥ Fil
 refers to (16) 	Q
()	
Choiseul (1)	
 Cisterns of Tawila (1) 	
Colombia (1)	
 Congo (528) 	
Congo, River (16)	
Coombes (1)	
Corbie (2)	
Croatia (1)	
Cullerreetr (1)	
 Cullercoats (1) 	
 Cullercoats (1) acquired by (256) 	ŧ
	† †
 acquired by (256) 	† †
 acquired by (256) created by (218) 	† †
 acquired by (256) created by (218) Georges Andre Brunet (1) 	• •
acquired by (256) created by (218) Georges Anore Brunet (1) Giovanni Antonio de Paoli (1)	•
acquired by (256) created by (218) Georges Andre Brunet (1) Giovanni Antonio de Paoli (1) H Bennett (1)	•
 acquired by (256) created by (218) Georges Anore Brunet (1) Giovanni Antonio de Paoli (1) H Bennett (1) Italian (3) 	•
acquired by (256) created by (218) Georges Andre Brunet (1) Giovanni Antonio de Paoli (1) H Bennett (1) Italian (3) John Buckland Wright (1)	•
 acquired by (256) created by (218) Georges Andre Brunet (1) Giovanni Antonio de Paoli (1) H Bennett (1) Italian (3) John Buckland Wright (1) Joseph Conrad (3) 	•



The British Museum





BS.24Birch Slip Number (otherid)

River crossing, Pweto

Port of Basankusu an...

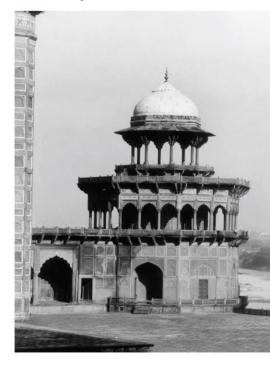
.24 (regno)

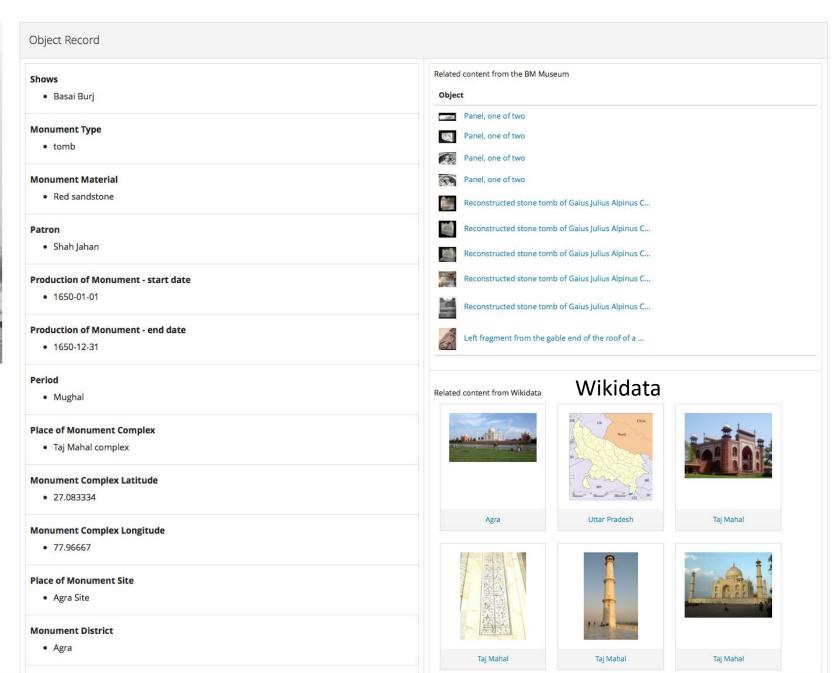
Alignment with other datasets

Account -

Basai Burj









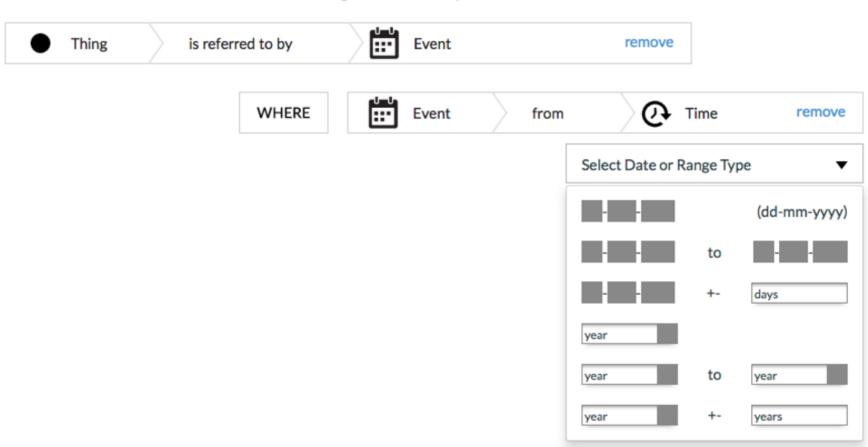
Clipboard

Sparql

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Account -

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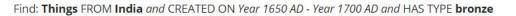
Find: Things is referred to by Event where Event is from Time...

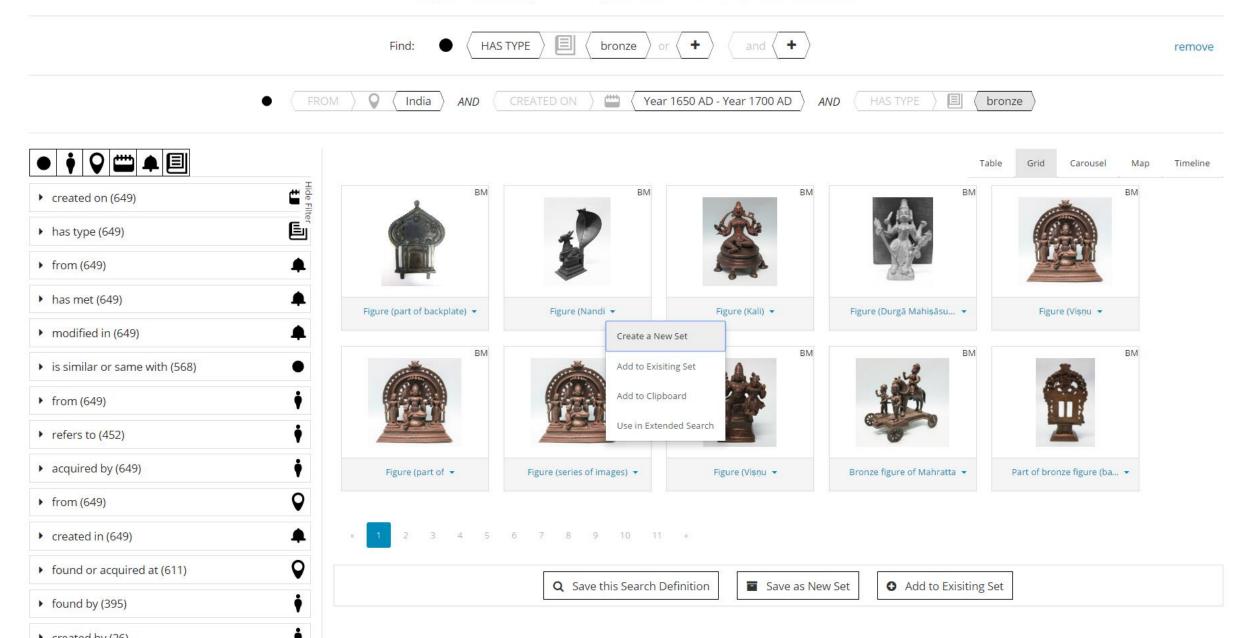




Collecting

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PORTAL / CLIPBOARD

My Clipboard

	$\mathbf{\cap}$			Search for Annotations
	Q			Search for Arguments
Sets	Searches	Images	Pages	Search for Pages

Individual Items

Filter Results			
ltem	Item Type	Owner	Modification Date
dominic shape 👻	Thing	admin	June 28, 2016 1:35 PM
Dominics shape 👻	Thing	admin	June 28, 2016 1:38 PM
Dominic Fan test 👻	Thing	admin	June 28, 2016 2:06 PM
Boat 🗸	Thing	admin	June 28, 2016 2:10 PM
octopus 🗸	Thing	admin	June 28, 2016 4:41 PM





Recycling Searches and Sets



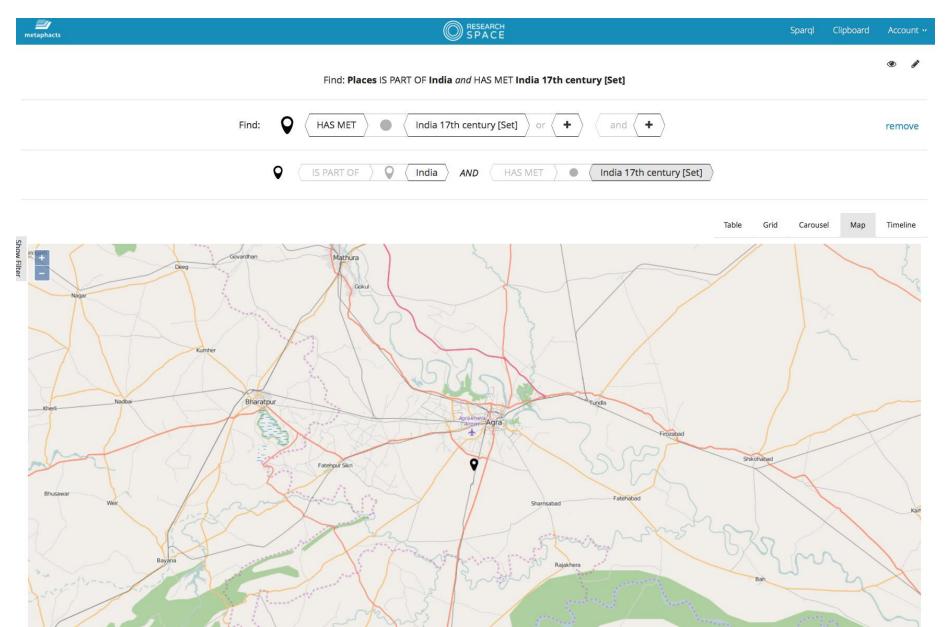
Find: Actors IS REFERRED TO BY ...

Find:	IS REFERRED TO BY	bro	O
	SREFE	Find: Things from India and created on Year 1650 AD - Year 1700 AD and has type bro nze [Search]	
		Find: Things from India and created on Year 1650 AD - Year 1700 AD and has type bro nze [Search]	

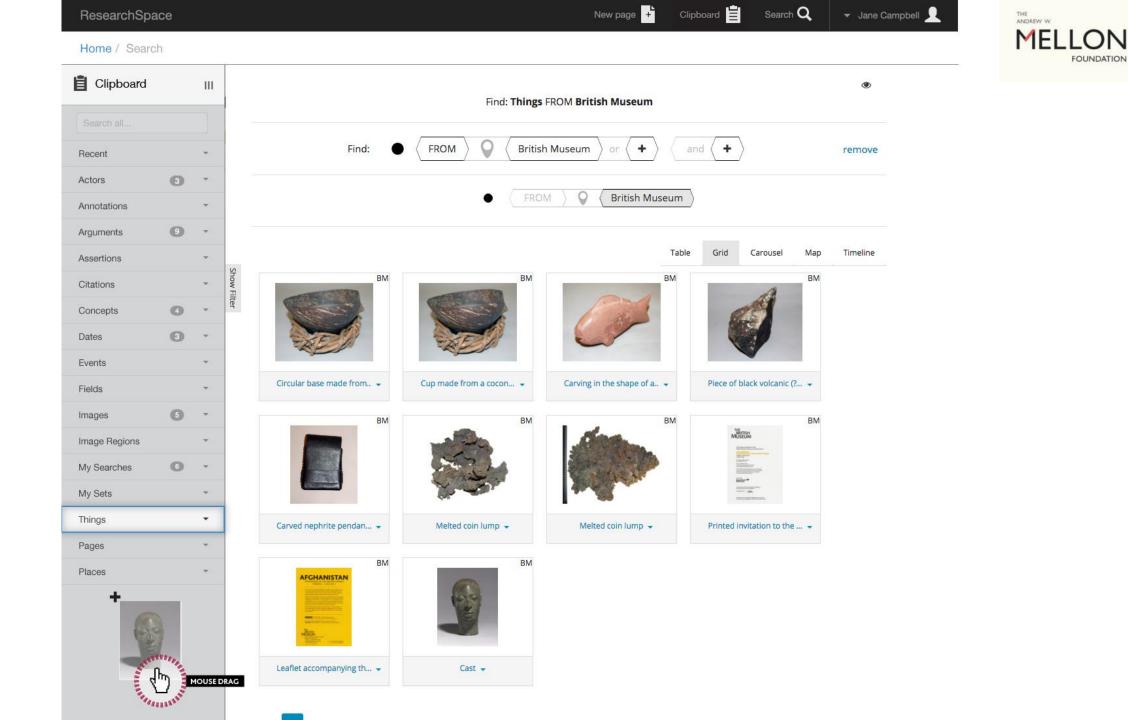


Places and Time





TheBritish Museum



FOUNDATION





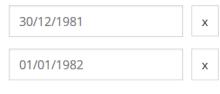
Flexible Data Input

Japanese Painting: Kokin waka shu

Basic Information	Acquisition	Other	
CRM Prefered Ide	ntifier		
JCF8939			•
All Identifiers			
8333			×
Jap.Ptg.Add.702Ja	oanese Painting	Additional Number	✓ X
1982,0701,0.17			×

+

Acquisition Begin Date









Enrichment





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DN

PORTAL / KOKIN WAKA SHU

Kokin waka shu

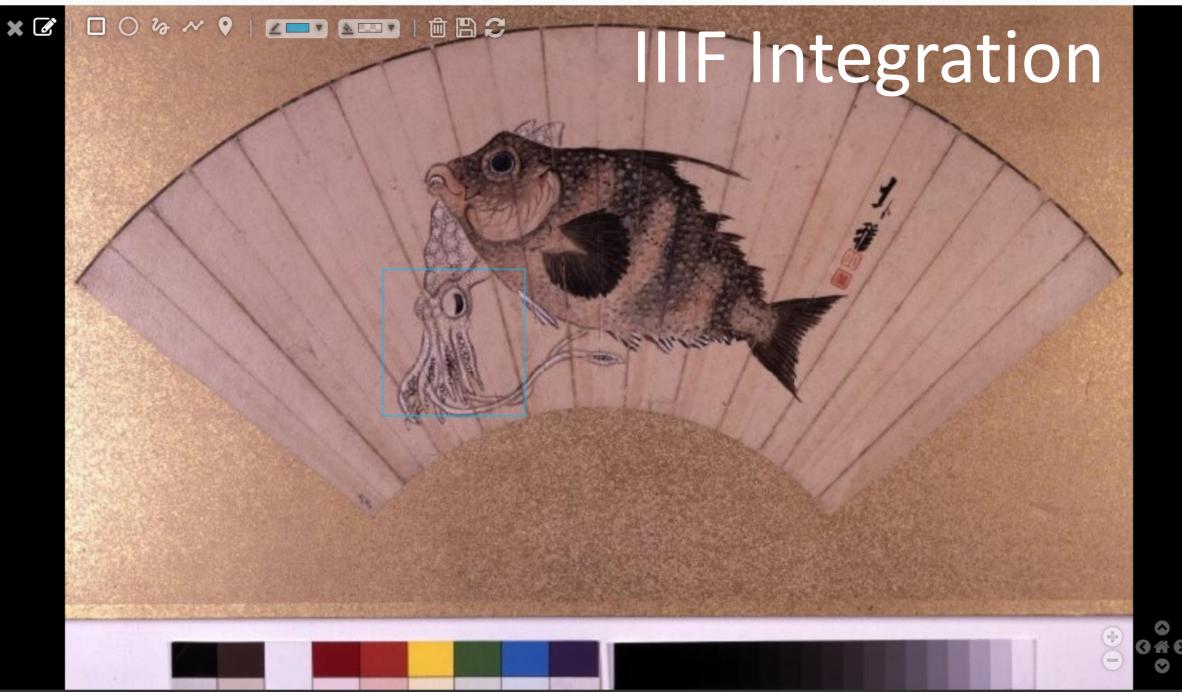
Object Details	Object Annotations	Explore Relations		
		L		
Related Images	C Upload Related Ima	age		
Related	Related Images			
Pages	Open in lightbox			
Related	Image		Title	
Arguments			Image of Album of 9 fan paintings	
	A A A	Stat.	Image of Album of 9 fan paintings	

Image of Album of 9 fan paintings

Object Details Object Annotations Explore Relations Image Viewer ... Private Shared Public NC

Image





ON



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metaphacts



PORTAL / IMAGE OF ALBUM OF 9 FAN PAINTINGS

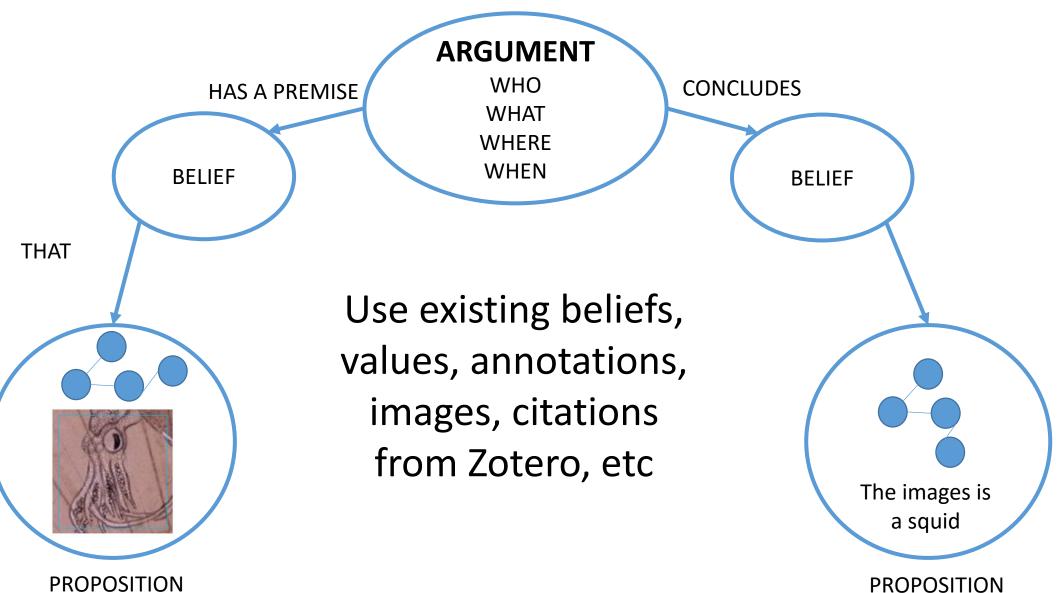
Image of	Album of 9	fan paintin	gs	
Object Details	Object Annotations	Explore Relations	Image Viewer	
Related Regions	Open in lightbox Image		Title	
Related Pages Related Arguments			octopus	



Resource Enrichment

THE ANDREW W

MFL

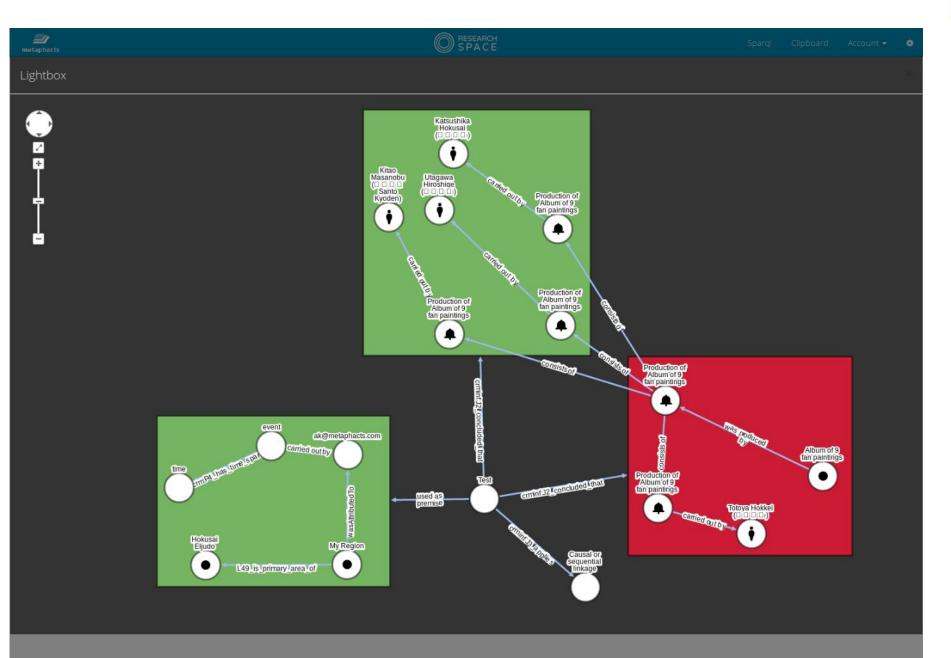


PROPOSITION



Digital Provenance



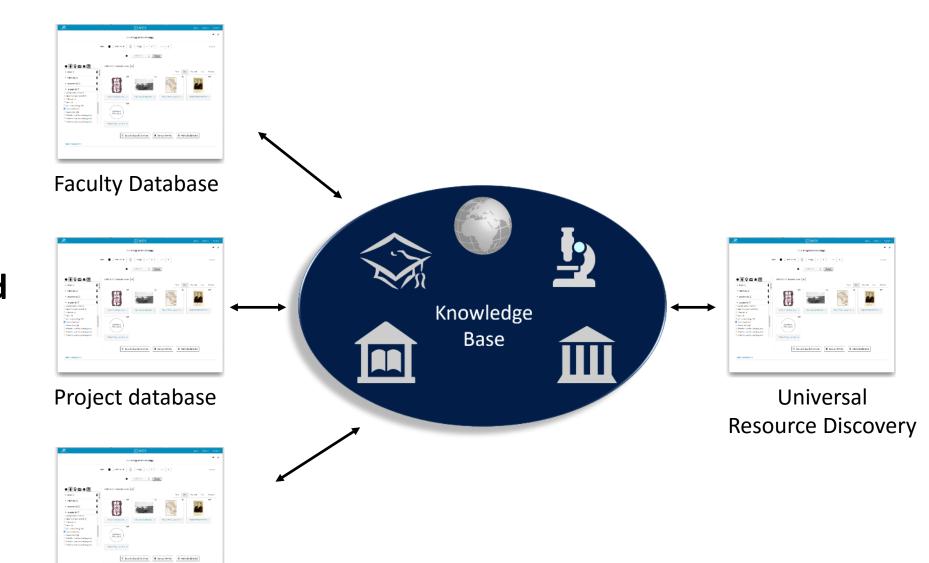




Add Anything with Digital Provenance

Knowledge Base of Link Data Field Patterns

You can add any field patterns you like with no coding



THE ANDREW W

MELL

Collection Catalogue







Dominic Oldman Head of ResearchSpace Senior Curator, Ancient Egypt & Sudan <u>Doldman@thebritishmuseum.ac.uk</u> <u>dominic.oldman@wolfson.ox.ac.uk</u>