

Wolfenbüttel

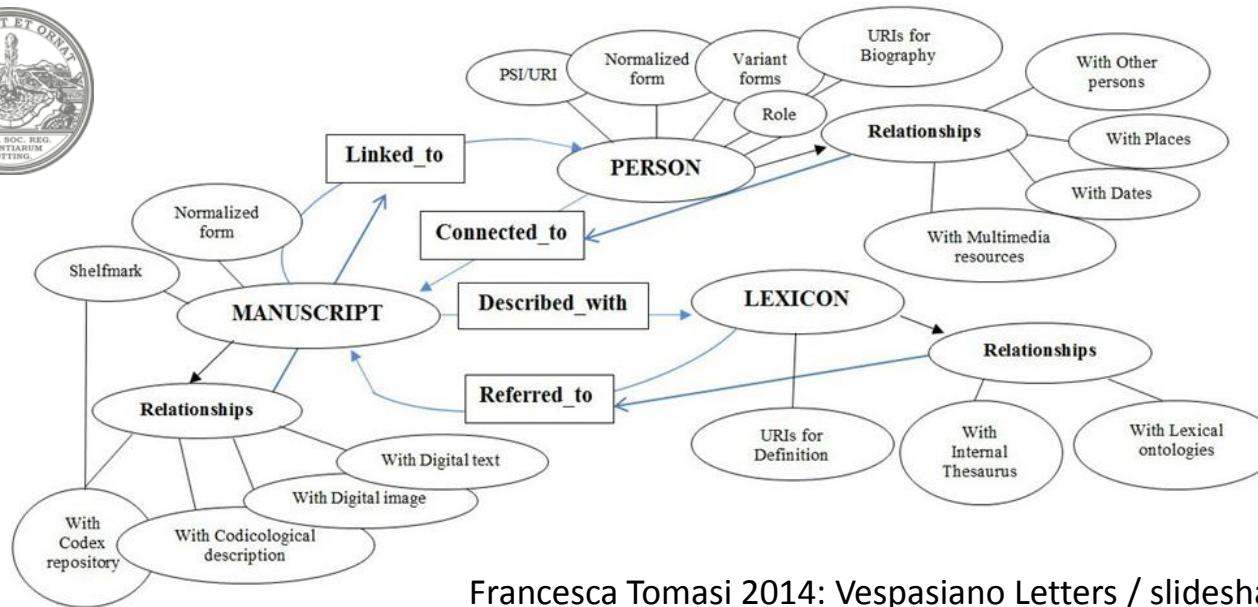
Jörg Wettlaufer | Göttingen

DIGITALE METAMORPHOSE: DIGITAL HUMANITIES UND EDITIONSWISSENSCHAFT

Der nächste Schritt? Semantic Web und digitale Editionen



CROSSREFERENCE and INTERNAL/EXTERNAL RELATIONSHIPS



GCDH
GÖTTINGEN CENTRE FOR
DIGITAL HUMANITIES

Francesca Tomasi 2014: Vespasiano Letters / slideshare / slide 14

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„I will never touch that crap of RDF or the semantic web; this is a pipe dream of reality ignoring academics and I will not have it. I will only use JSON-LD.“

- Phil Archer, W3C Data Activity Lead 2014

Robert Sanderson: RDF - Resource Description Failures and Linked Data Letdowns

(Mai 2013) <http://www.cni.org/pbs/rdf-resource-description-failures-and-linked-data-letdowns/>

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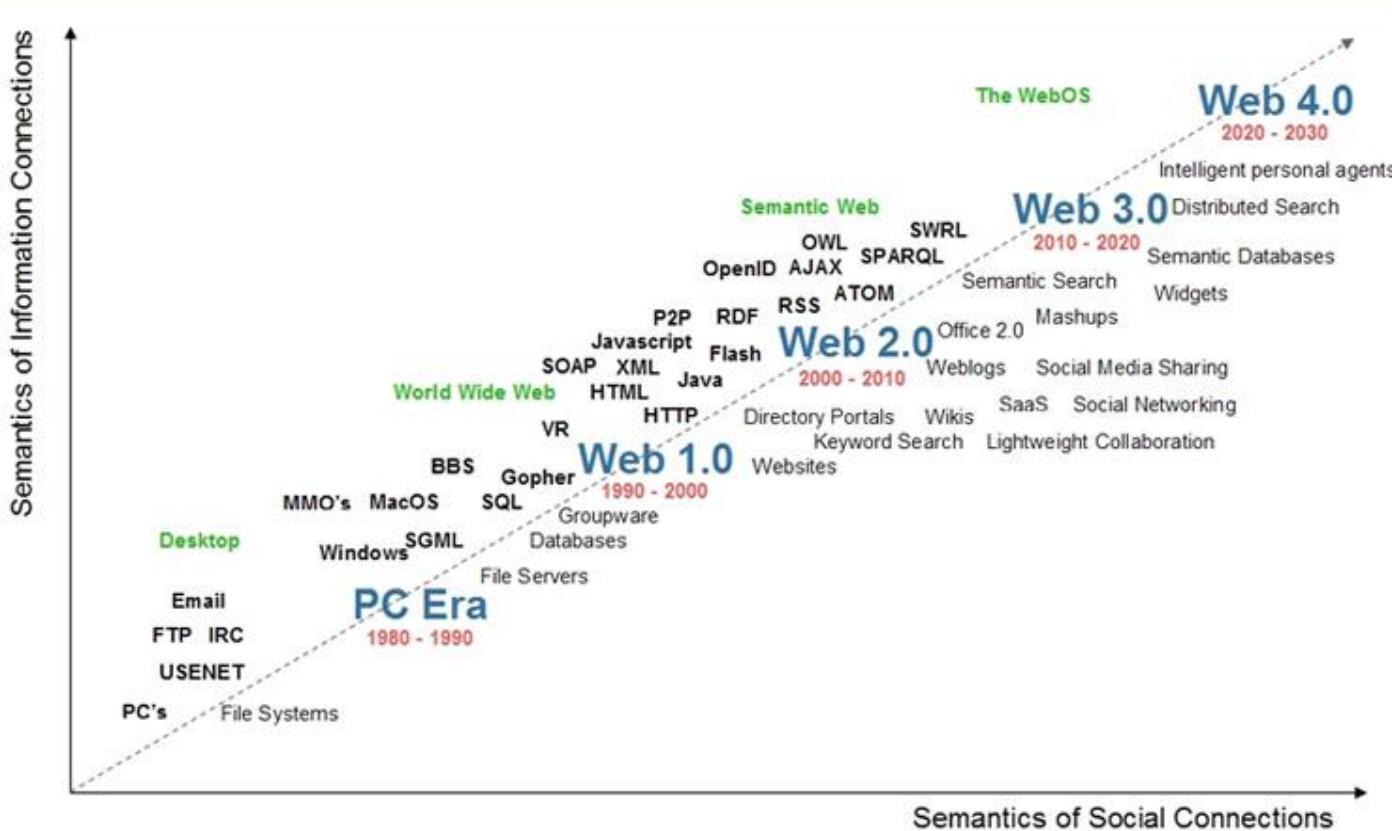


„The Semantic Web is not a separate Web but an extension of the current one, in which information is given well-defined meaning, better enabling computers and people to work in cooperation“

- Sir Tim Berners Lee



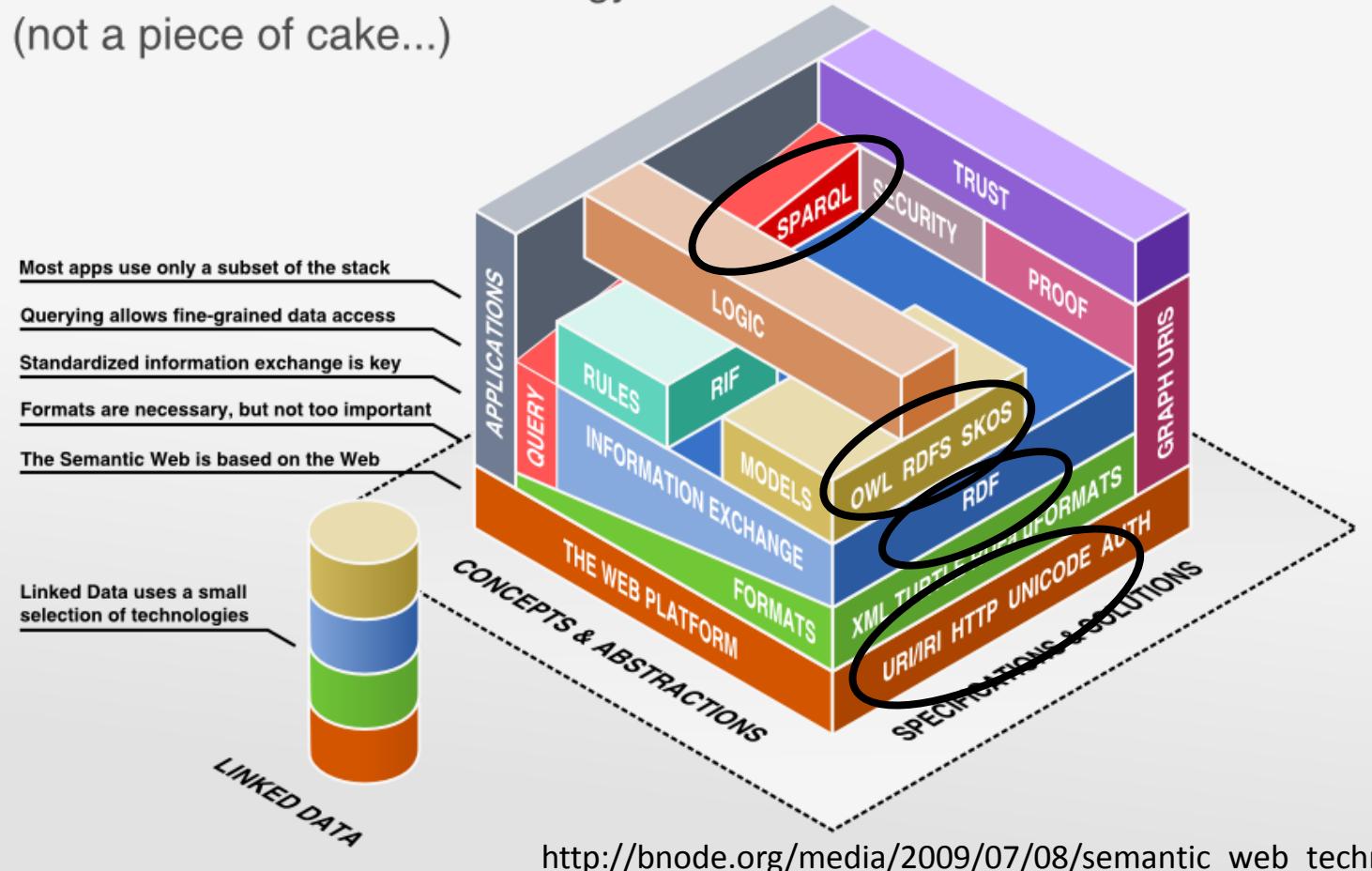
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<https://thepaisano.files.wordpress.com/2008/03/webtimeline.jpg>

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The Semantic Web Technology Stack (not a piece of cake...)



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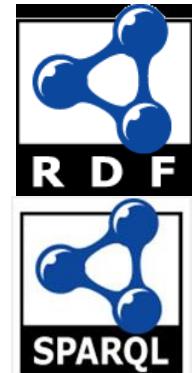
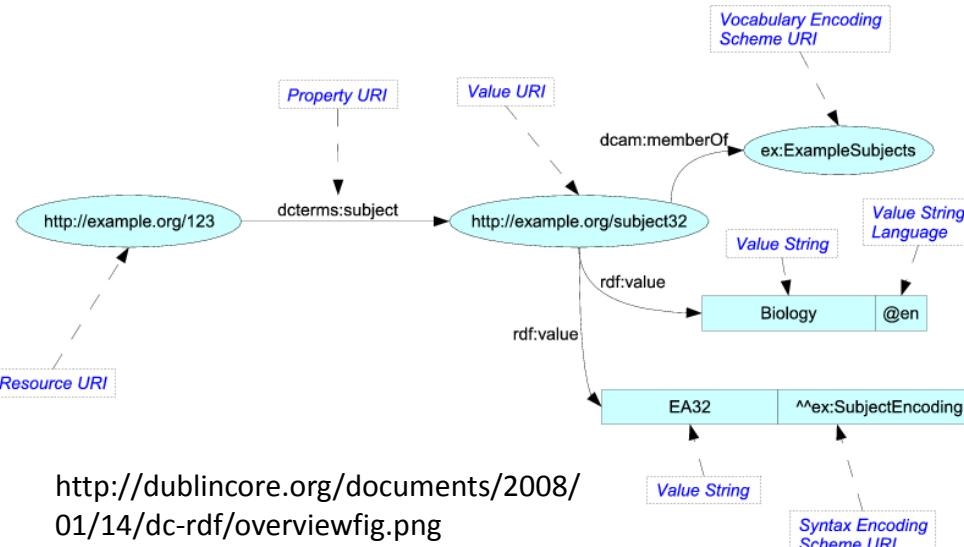
Cool URIs don't change

What makes a cool URI?

A cool URI is one which does not change.

Tim Berners Lee (1998)

<http://www.w3.org/Provider/Style/URI>



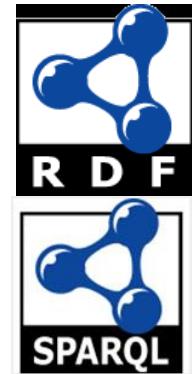
SPARQL

```
SELECT * WHERE {
  <http://dhfv-ent2.gcdh.de/blumenbach/wisski/content/object3> ?p ?o .
}
LIMIT 100
```

<http://dhfv-ent2.gcdh.de/blumenbach/wisski/wisski/endpoint>

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- ★ Available on the Web (whatever format), but with an open licence
- ★ ★ Available as machine-readable structured data (e.g. instead of image scan of a table)
- ★ ★ ★ As 2 plus non-proprietary format (e.g. CSV instead of excel)
- ★ ★ ★ ★ All above plus use open standard from W3C (RDF and SPARQL) to identify things, so that people can point at your stuff
- ★ ★ ★ ★ ★ Available the above, plus: Link your data to other people's data to provide context



http://www.w3.org/DesignIssues/diagrams/1od/597992118v2_350x350_Back.jpg

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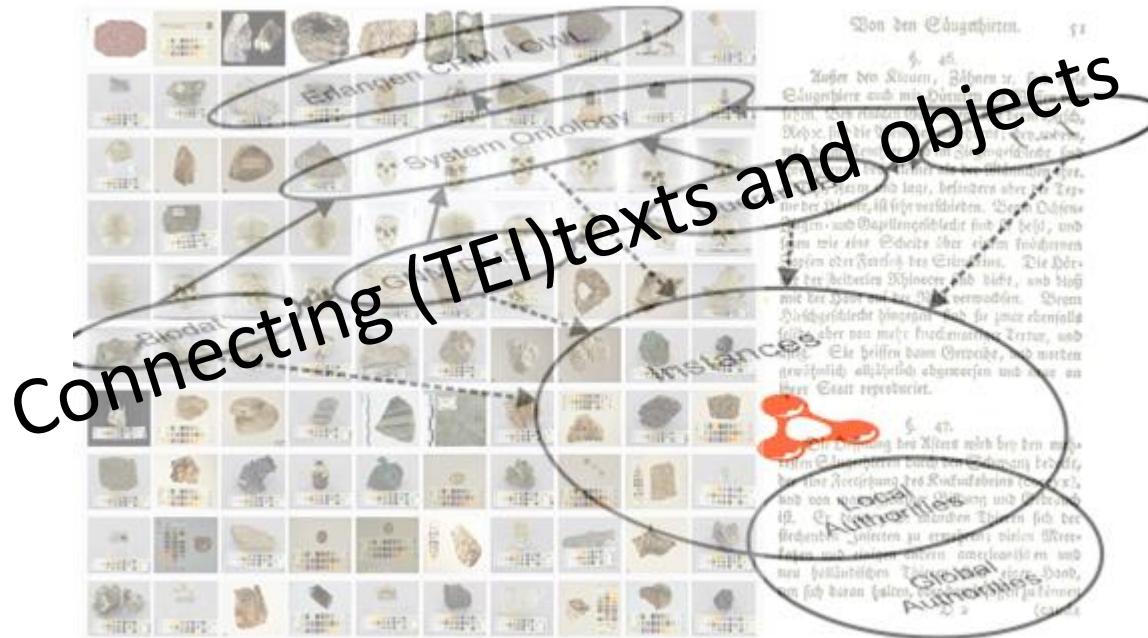
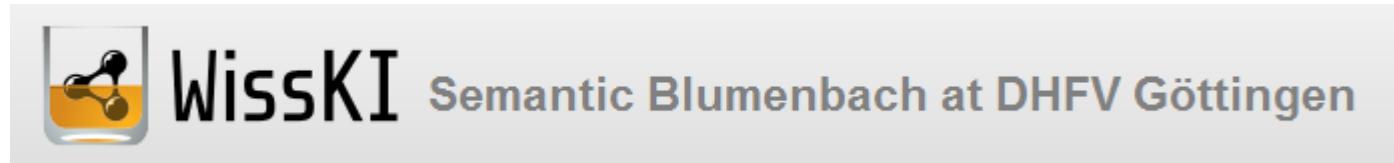
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Semantic Technologies in the History of Science



<http://dhfv-ent2.gcdh.de/blumenbach/wisski/>

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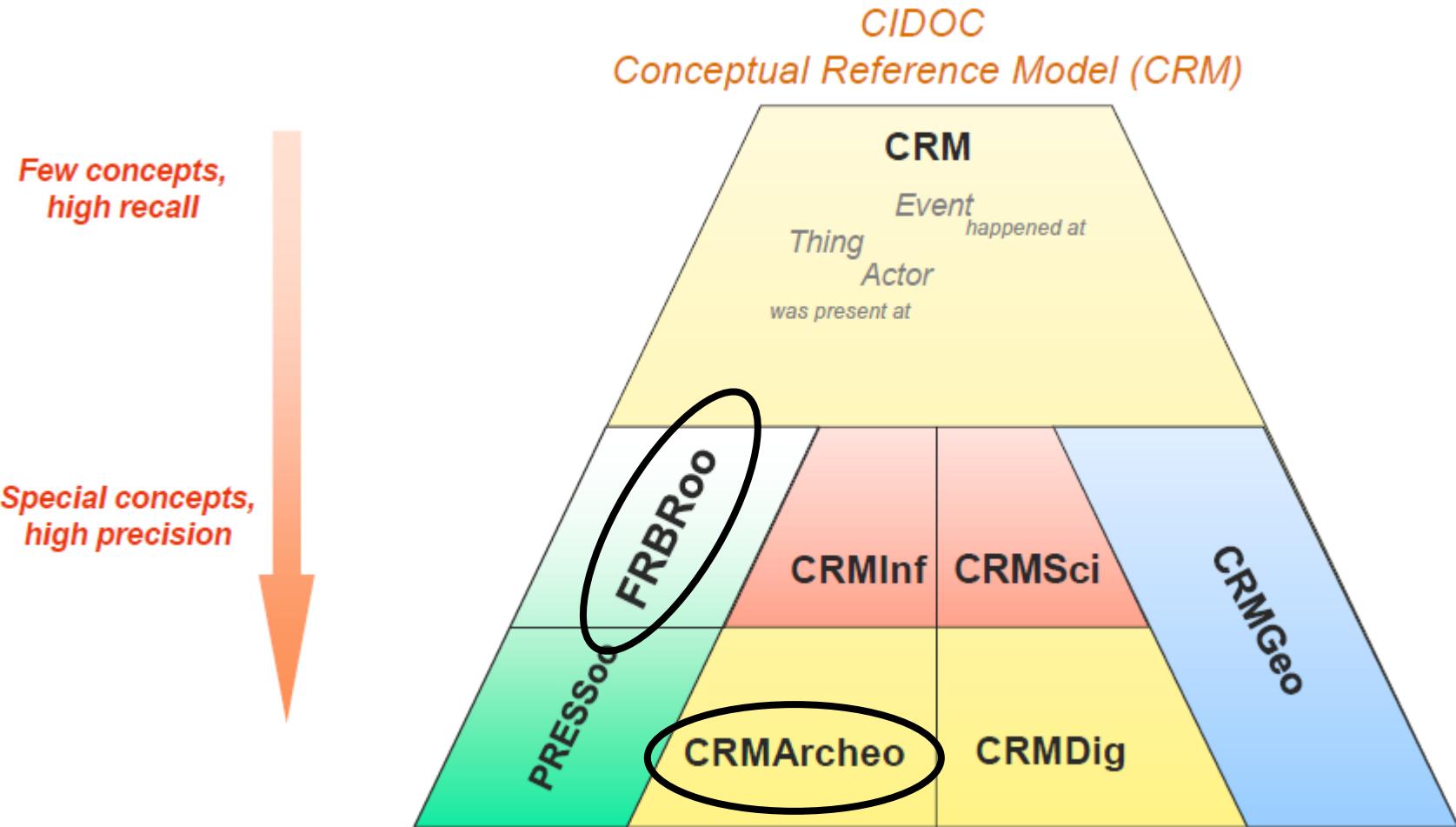


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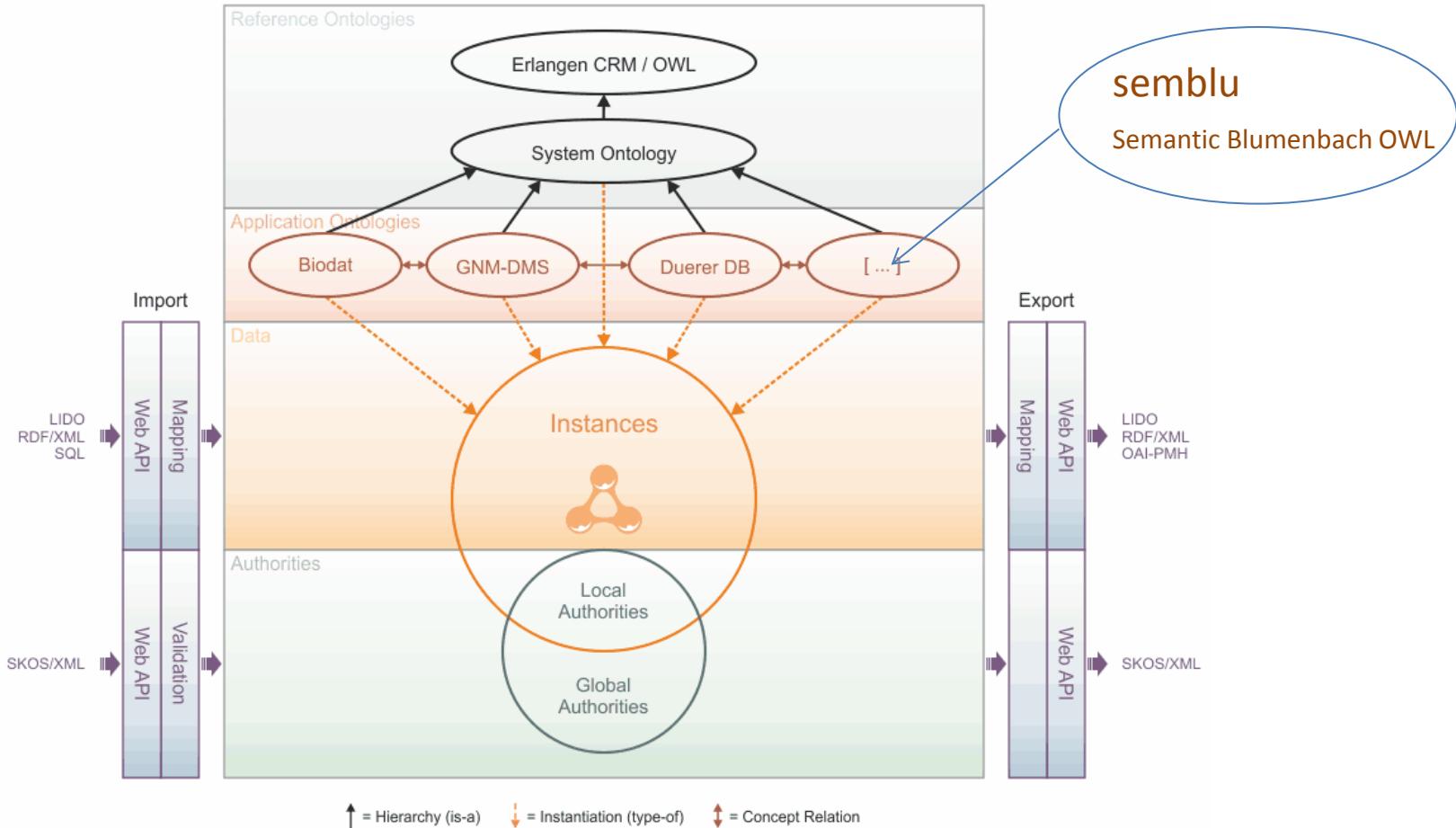
Martin Doerr, CIDOC CRM Family, Harmonized models for the Digital World: CIDOC CRM and extensions, Mai 2015, Nürnberg.

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Wissenschaftliche Kommunikationsinfrastruktur 1.0



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WissKI Wissenschaftliche Kommunikationsinfrastruktur

| Menu item | Path | Enabled | Operations |
|-----------------------|---|-------------------------------------|---|
| + Ungrouped | | <input checked="" type="checkbox"/> | edit delete |
| + Text | Group [ecrm:E33_Linguistic_Object] | <input checked="" type="checkbox"/> | edit delete |
| + Title | ecrm:E33_Linguistic_Object -> ecrm:P1_is_identified_by -> ecrm:E35_Title | <input checked="" type="checkbox"/> | edit delete |
| + ID | ecrm:E33_Linguistic_Object -> ecrm:P48_has_preferred_identifier -> ecrm:E42_Identifier | <input checked="" type="checkbox"/> | edit delete |
| + SembluKapitel | Group [semblu:E33_div] | | |
| + Object | semblu:E33_div -> ecrm:P106_is_composed_of -> semblu:E33_term -> ecrm:P67_refers_to -> semblu:E18_PThing -> ecrm:P48_has_preferred_identifier -> semblu:E42_KerndatenID | <input checked="" type="checkbox"/> | edit delete |
| + Person | semblu:E33_div -> ecrm:P67_refers_to -> semblu:E21_NewPerson -> ecrm:P131_is_identified_by -> semblu:E82_PersonName | <input checked="" type="checkbox"/> | edit delete |
| + Place | semblu:E33_div -> ecrm:P67_refers_to -> semblu:E44_NewPlace -> ecrm:P1_is_identified_by -> semblu:E48_PlaceName | <input checked="" type="checkbox"/> | edit delete |
| + Title | semblu:E33_div -> ecrm:P1_is_identified_by -> ecrm:E35_Title | <input checked="" type="checkbox"/> | edit delete |
| + Sammlungsobjekte | Group [semblu:E18_PThing] | | |
| + Identifier | semblu:E18_PThing -> ecrm:P48_has_preferred_identifier -> semblu:E42_KerndatenID | <input checked="" type="checkbox"/> | edit delete |
| + Objektbezeichnung | semblu:E18_PThing -> ecrm:P1_is_identified_by -> ecrm:E41_Appellation | <input checked="" type="checkbox"/> | edit delete |
| + Domaene | semblu:E18_PThing -> ecrm:P2_has_type -> ecrm:E55_Type -> ecrm:P1_is_identified_by -> ecrm:E41_Appellation | <input checked="" type="checkbox"/> | edit delete |
| + InventarNr | semblu:E18_PThing -> ecrm:P48_has_preferred_identifier -> ecrm:E42_Identifier | <input checked="" type="checkbox"/> | edit delete |
| + Originalbezeichnung | semblu:E18_PThing -> ecrm:P1_is_identified_by -> ecrm:E41_Appellation | <input checked="" type="checkbox"/> | edit delete |
| + Donator | Group [semblu:E18_PThing -> ecrm:P51_has_former_or_current_owner -> semblu:E21_NewPerson] | <input checked="" type="checkbox"/> | edit delete |
| + Name | semblu:E18_PThing -> ecrm:P51_has_former_or_current_owner -> semblu:E21_NewPerson -> ecrm:P131_is_identified_by -> semblu:E82_PersonName | <input checked="" type="checkbox"/> | edit delete |
| + Cert | semblu:E18_PThing -> ecrm:P51_has_former_or_current_owner -> semblu:E21_NewPerson -> ecrm:P48_has_preferred_identifier -> ecrm:E42_Identifier | <input checked="" type="checkbox"/> | edit delete |
| + Bilder | semblu:E18_PThing -> ecrm:P65_shows_visual_item -> ecrm:E38_Image -> ecrm:P1_is_identified_by -> ecrm:E42_Identifier | <input checked="" type="checkbox"/> | edit delete |
| + Bilder | Group [ecrm:E38_Image] | <input checked="" type="checkbox"/> | edit delete |
| + Bild | ecrm:E38_Image -> ecrm:P65i_is_shown_by -> semblu:E18_PThing -> ecrm:P48_has_preferred_identifier -> semblu:E42_KerndatenID | <input checked="" type="checkbox"/> | edit delete |
| + BildID | ecrm:E38_Image -> ecrm:P1_is_identified_by -> ecrm:E42_Identifier | <input checked="" type="checkbox"/> | edit delete |

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WissKI

Wissenschaftliche Kommunikationsinfrastruktur

WissKI Book Import | dms

File: /srv/www/tp1/blume.d.xml

The path to a file on the server.

File contains an XML If checked, wraps a <div> tag around the entire XML document. XPaths reflect this!

XML namespaces: x=http://www.tei-c.org/ns/1.0

If your XML file uses namespaces, you must declare namespace prefixes here in order to make the XPaths meaningful. An empty prefix for the default namespace is not possible.

Book title path: Text -> Title

Book title XPath: //x:title

Is interpreted as an XPath. Surround it by single quotes if you want to enter plain text.

Book ID path: Text -> ID

Book ID XPath: '000027'

Is interpreted as an XPath. Surround it by single quotes if you want to enter plain text.

Book content path: Text -> Text

Book content XPath: //x:titleStmt

File:

WissKI Book Import | dms

File: /srv/www/tp1/blume.d.xml

The path to a file on the server.

File contains an XML If checked, wraps a <div> tag around the entire XML document. XPaths reflect this!

XML namespaces: x=http://www.tei-c.org/ns/1.0

If your XML file uses namespaces, you must declare namespace prefixes here in order to make the XPaths meaningful. An empty prefix for the default namespace is not possible.

Book title path: Text -> Title

Book title XPath: //x:title

Is interpreted as an XPath. Surround it by single quotes if you want to enter plain text.

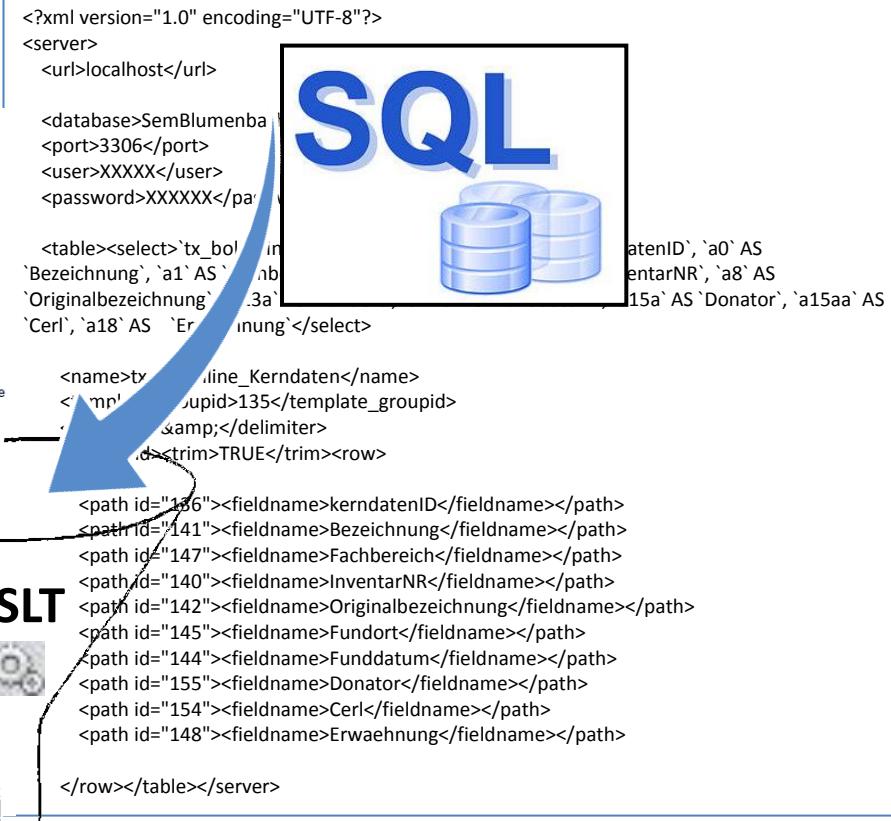
Book ID path: Text -> ID

Book ID XPath: '000027'

Is interpreted as an XPath. Surround it by single quotes if you want to enter plain text.

Book content path: Text -> Text

Book content XPath: //x:titleStmt



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ecrm_E33_Linguistic_Object740e3e1f-d96b-0ee4-8835-3ba1a8636a67

[View](#) [Delete](#) [Edit Form](#) [Edit Text](#) [Extract](#) [Graph](#) [Triples](#) [XML](#) [Revisions](#)

Note: Some intermediate triples may be included.



R D F

| | | | |
|-------------------------------------|----------------|-----------------------------------|--|
| <input checked="" type="checkbox"/> | object577 | rdf:type | semblu:E18_PThing |
| <input checked="" type="checkbox"/> | kerndatenid577 | rdf:type | semblu:E42_Kerndaten_ID |
| <input checked="" type="checkbox"/> | object577 | ecrm:P48_has_preferred_identifier | kerndatenid577 |
| <input type="checkbox"/> | object577 | ecrm:P67i_is_referred_to_by | wordidp829120 |
| <input checked="" type="checkbox"/> | kerndatenid577 | ecrm:P3_has_note | 577 |
| <input type="checkbox"/> | wordidp830720 | rdf:type | semblu:E33_term |
| <input type="checkbox"/> | wordidp830720 | ecrm:P106i_forms_part_of | semblu_E33_dive32c861f-4b11-5a74-8db4-6f09f3d21e2e |
| <input type="checkbox"/> | wordidp830720 | ecrm:P3_has_note | Wasserwanzen |

| | | | |
|--------------------------|---------------|-----------------------------|--|
| <input type="checkbox"/> | nameidp341072 | rdf:type | ecrm:E75_Conceptual_Object_Appellation |
| <input type="checkbox"/> | instidp341072 | ecrm:P1_is_identified_by | nameidp341072 |
| <input type="checkbox"/> | instidp341072 | ecrm:P67i_is_referred_to_by | ecrm_E33_Linguistic_Object740e3e1f-d96b-0ee4-8835-3ba1a8636a67 |
| <input type="checkbox"/> | nameidp341072 | ecrm:P3_has_note | lynx |
| <input type="checkbox"/> | instidp344576 | rdf:type | ecrm:E55_Type |
| <input type="checkbox"/> | nameidp344576 | rdf:type | ecrm:E75_Conceptual_Object_Appellation |
| <input type="checkbox"/> | instidp344576 | ecrm:P1_is_identified_by | nameidp344576 |
| <input type="checkbox"/> | instidp344576 | ecrm:P67i_is_referred_to_by | ecrm_E33_Linguistic_Object740e3e1f-d96b-0ee4-8835-3ba1a8636a67 |
| <input type="checkbox"/> | nameidp344576 | ecrm:P3_has_note | Torquilla |

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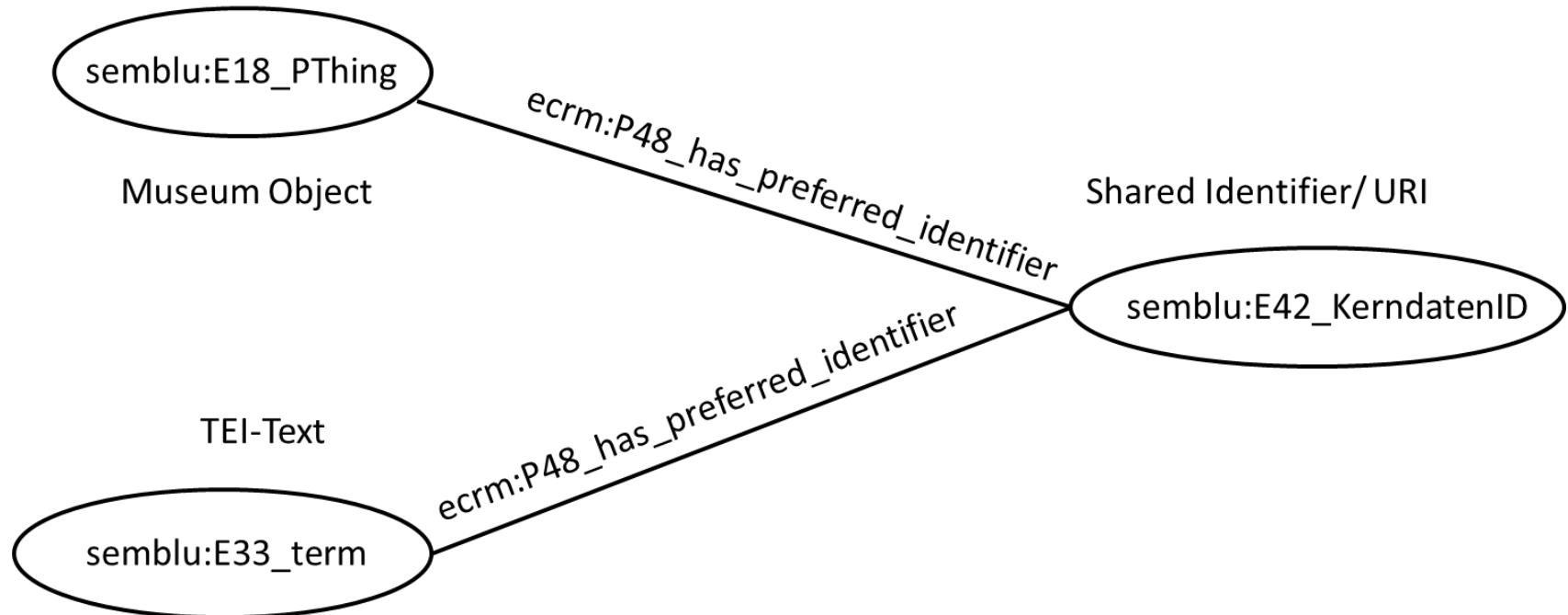
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Wissenschaftliche Kommunikationsinfrastruktur

@prefix semblu: <<http://dhfv-ent2.gcdh.de/blumenbach/semlu/>>



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WissKI

Wissenschaftliche Kommunikationsinfrastruktur

der Biber vieles verschönert und übertrieben worden, so wissen sich doch diese Thiere, nach dem einstimmigen Zeugniß verschieden Welttheilen, dabey so nach zufälligen Umständen zu bequemen, daß sie sich dadurch weit über die einförmigen Kuns

19. **Hystrix.** Stachelschwein. (Fr. porcepic. Engl. porcupine.) Corpus spinis tectum.

1. Dorsata. (Urson.) H. spinis breibus sub pilis occultis.

v. Schreber tab. 169.

In Canada, auf Labrador, um die Hudsonsbay etc. Thut zumahl im Winter den junge

2. Cristata. H. spinis longissimis, capite cristato, cauda abbreviata.

v. Schreber tab. 167.

Ursprünglich im wärmeren Asien und fast ganz Africa; nährt sich zumahl von Ba
besonders im Herbst ausfallen; kann sie aber nicht gegen seine Verfolger von sich

VI. FERAE.

| |
|---|
| ▼ Sammlungsobjekte |
| Identifier |
| 3 |
| Projektbezeichnung |
| Rasselbecher vom rezenten Kap-Stachelschwein |
| Domäne |
| Zoologie |
| InventarNr |
| 0.343 |
| Originalbezeichnung |
| <i>Hystrix cristata</i> |
| Fundort |
| Kapstadt, Province of the Western Cape - South Africa |



Vocabulary information

| |
|-----|
| 276 |
| 277 |
| 278 |
| 279 |
| 280 |
| 281 |
| 282 |
| 283 |
| 284 |
| 238 |
| 202 |
| 202 |
| 202 |
| 202 |
| 3 |
| 3 |
| 567 |
| 567 |
| 125 |
| 126 |
| 128 |
| 129 |
| 131 |
| 132 |
| 134 |
| 135 |
| 136 |
| 137 |

Sammlungsobjekte
<http://dhfv-ent2.gcdh.de/blumenbach/wisski/content/object3>

Vocabulary:
Object

Label:
Rasselbecher vom rezenten Kap-Stachelschwein *Hystrix africaustralis*
Hystrix cristata

Domäne:
Zoologie

Donator:
Lichtenstein, Martin Hinrich Karl von

Fundatum:
1802-01-01

Fundort:
Kapstadt, Province of the Western Cape - South Africa - Africa - World

URLs:
<http://dhfv-ent2.gcdh.de/blumenbach/wisski/content/object3>

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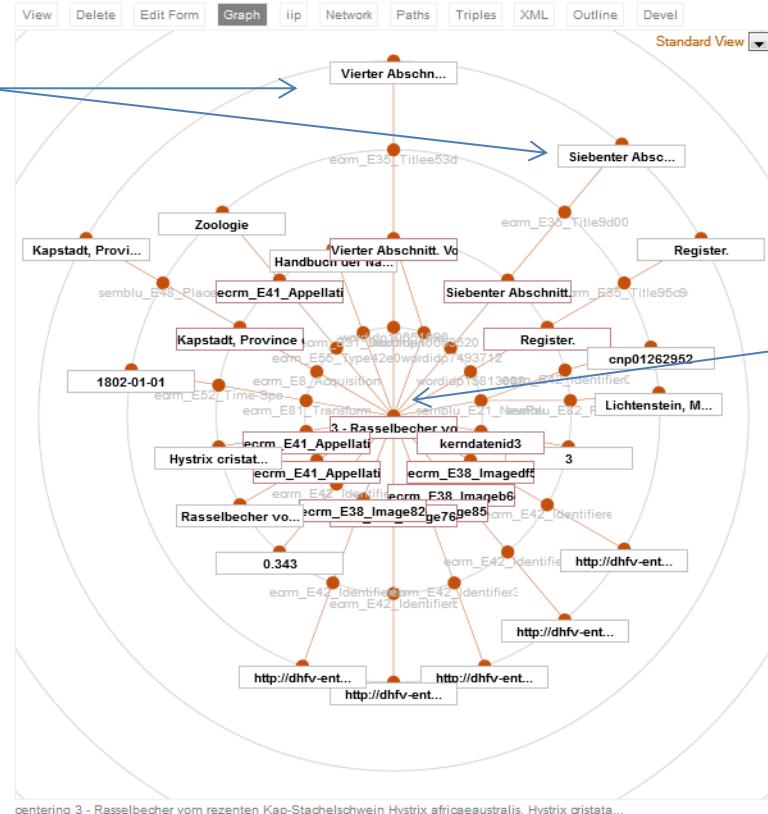


Wissenschaftliche Kommunikationsinfrastruktur

3 - Rasselbecher vom rezenten Kap-Stachelschwein *Hystrix africaeaustralis*, *Hystrix cristata*

Photo: GZG Museum / G. Hundertmark

Text



Connections (3 - Rasselbecher vom rezenten Kap-Stachelschwein *Hystrix africaeaustralis*, *Hystrix cristata*)

- ecrm:P48_has_preferred_identifier » kerndatenid3
- ecrm:P65_shows_visual_item » ecrm_E38_Imagedf5c65b3-e8bf-3694-8ec8-05f5ed02bc79
- ecrm:P65_shows_visual_item » ecrm_E38_Imageb6e82e23-7e41-62f4-acd3-31c6ca25b8cf
- ecrm:P65_shows_visual_item » ecrm_E38_Image858348f0-8fc1-89f4-a0ea-9dc2d5325371
- ecrm:P65_shows_visual_item » ecrm_E38_Image76412db3-d7bc-bc84-8883-74b3ac52ce1
- ecrm:P65_shows_visual_item » ecrm_E38_Image82da6355-af15-c924-8e6e-c607695083ea
- ecrm:P48_has_preferred_identifier » ecrm_E42_Identifier8146bba2-5473-dfe4-9c06-4060a1481564
- ecrm:P1_is_identified_by » ecrm_E41_Appellationaa7e2051-a6d0-b194-ad4e-77000600a36a
- ecrm:P1_is_identified_by » ecrm_E41_Appellation17c16f21-4cb5-e644-9c52-3455187ddbc
- ecrm:P1_is_identified_by » ecrm_E41_Appellationaa7e2051-a6d0-b194-ad4e-77000600a36a
- ecrm:P1_is_identified_by » ecrm_E41_Appellation17c16f21-4cb5-e644-9c52-3455187ddbc



Vocabulary information

Vocabulary:
Object

Label:
Rasselbecher vom
rezenten
Kap-Stachelschwein
Hystrix africaeaustralis
Hystrix cristata

URIs:
[http://dhfv-ent2.gcdh.de
/blumenbach/wisski
/content/object3](http://dhfv-ent2.gcdh.de/blumenbach/wisski/content/object3)

Objekt

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LESSONS

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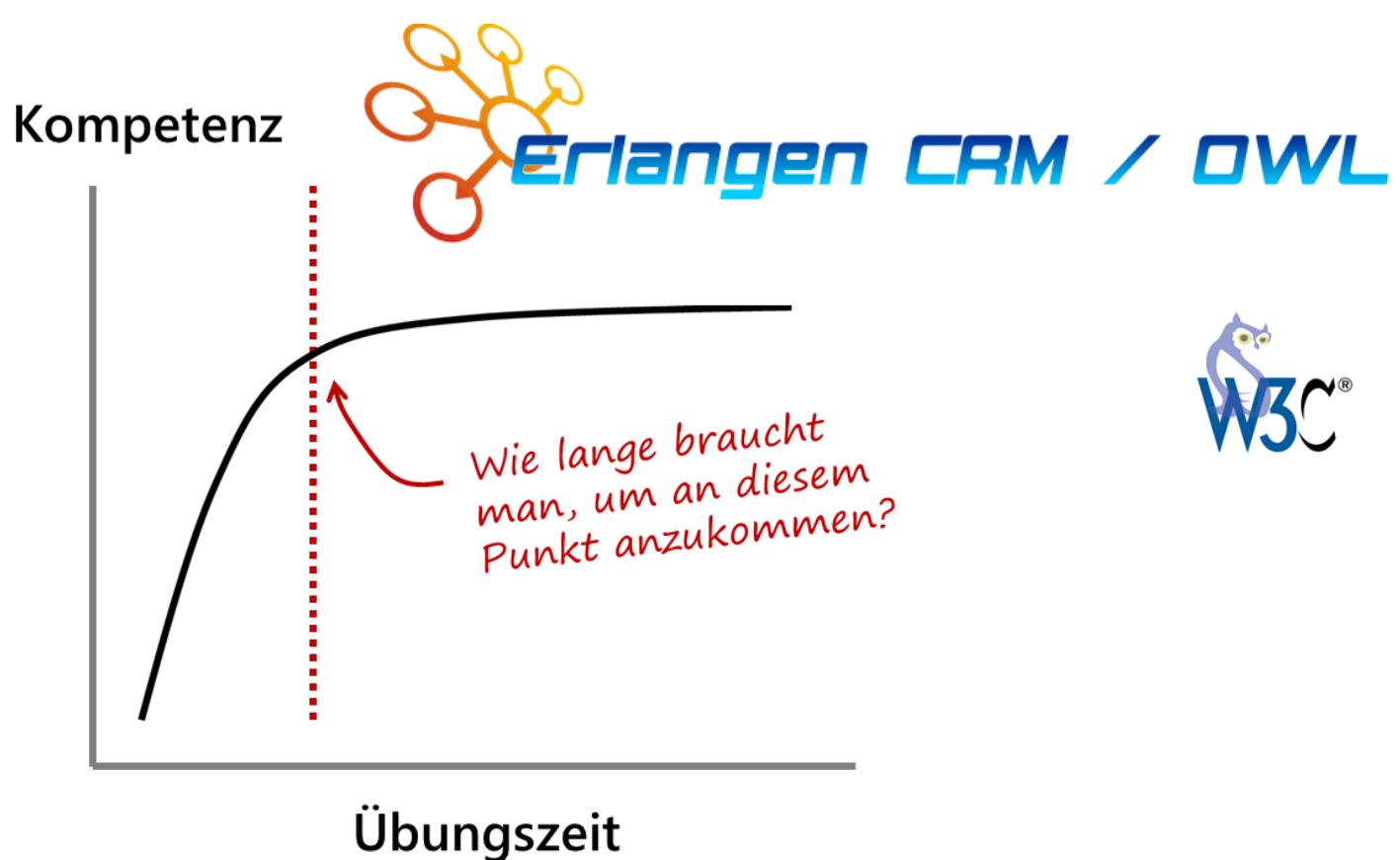
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www.worlde.net

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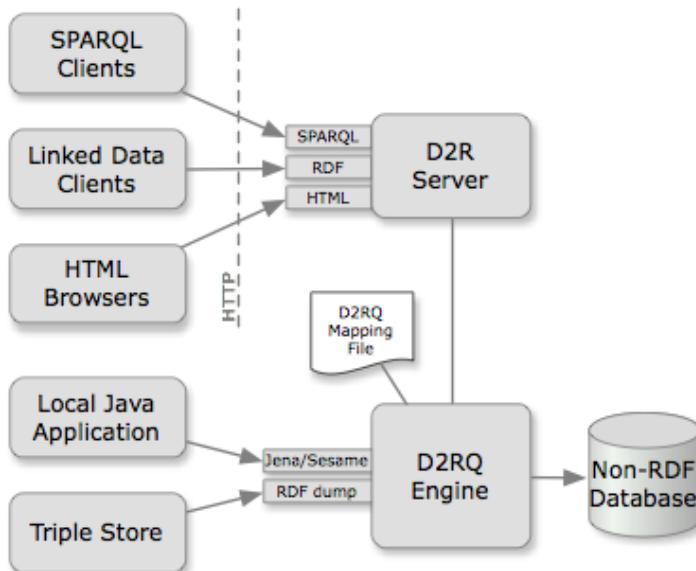
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D2RQ

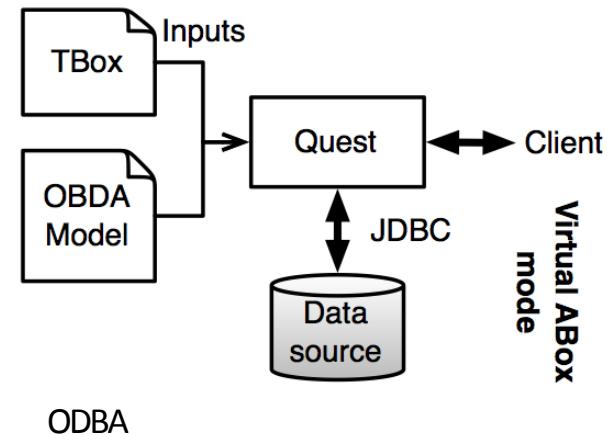


<http://www.w3.org/2007/03/RdfRDB/papers/d2rq-positionpaper/architecture.png>



ontop

a platform to query
DBs as Virtual RDF
Graphs using SPARQL



ODBA

<http://ontop.inf.unibz.it/>

XTriples

A generic webservice to extract RDF statements from XML resources.

xtriples.spatialhumanities.de

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Pundit 

A WEB ANNOTATION TOOL TO MAKE YOUR JOB
AND RESEARCH ACTIVITY EASIER



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<http://stack.linkeddata.org/>



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Semantic Annotations

The screenshot shows the Alfresco Repository Browser interface. On the left, there's a 'Create Content' form for a new entry about 'Alan Turing'. The form includes fields for Name, Title, Description, and Content. The 'Content' field contains a detailed biography of Alan Turing. On the right, a sidebar titled 'Entities' lists various people, organizations, and locations extracted from the content. The entities listed include: Person (Gordon Brown, Max Newman, Alan Mathison Turing), Organization (National Physical Laboratory, Computing Laboratory, Manchester University, ACE, Manchester, Dyson School, United Kingdom), and Location (Bletchley Park). At the bottom of the sidebar, there are 'Done' and 'Cancel all' buttons.

Entity extraction using Apache Stanbol
Entities include names of people, places and organisations

https://i.vimeocdn.com/video/314789701_640.jpg

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<https://audiothek.philo.at/>

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Top 20 Timelines

Start searching for your topic...



Manual



Pipe rolls

1130 - 1833



Magna Carta

1215 - Present



Codex on the Flight of Birds

1505



Johannes de Thurocz

1435 - 1489



Levinus Warner

1618 - 22 Jun 1665

Della mercatura e del mercante...

1573



Matenadaran

3 Mar 1959 - Present



Discovery of the Dead Sea Scrolls

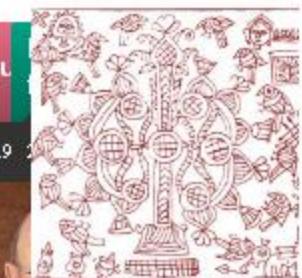
1946 - 1956



Maithili Karna
Kayasthak Panjik...

1973

मैथिल कर्ण कायस्थक
पाँजिक संवेदन्या



गोदावरी विनोद विहारी वर्मा



100 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150

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Digital Library & Virtual Museum

Digital Humanities Research Collaboration – Lower Saxony



https://www.hastac.org/sites/default/files/styles/post_image/public/upload/images/post/linked_data.png?itok=gcyOI-iC

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Vielen Dank !

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