



Identifiers

Language ambiguity

dog =



Language ambiguity

dog =



IDa87nn3



IDht4432

Internationalization (i18n)

dog (lang=en)

hund (lang=de)

perro (lang=sp)

chien (lang=fr)



IDa87nn3

Rules for identifiers

1. Unique... within a domain

Bob has account 43729 at Bank of America 111143279

Mary has account 43729 at Chase 222243279

Rules for identifiers

1. Unique... within a domain

Karen has a web site with file `index.html` `kcoyle.net/index.html`

Google has a web site with file `index.html` `google.com/index.html`

Rules for identifiers

2. Consistent.

Same identifier always identifies the same thing.

Note on “Consistent”

Same thing may get more than one identifier – this happens naturally in the creation of metadata. It's not a huge problem as long as you have a way of saying that:

$A = B$

So that you can bring together the identifiers for the same thing.

Rules for identifiers

3. Persistent.

The identifier does not change.

Smith, John, 1946-2009

Rules for identifiers

4. In a standard format

urn:ISBN:1-46492-149-0

<http://id.loc.gov/authorities/names/n89613425>



Identifying things in linked data

Four rules of linked data

- Use URIs as names for things
- Use HTTP URIs so that people can look up those names.
- When someone looks up a URI, provide useful information, using the standards (RDF, SPARQL)
- Include links to other URIs. so that they can discover more things.

Uniform Resource Identifier

- An Internet standard

mailto:John.Doe@example.com

news:comp.infosystems.www.servers.unix

http://www.ietf.org/rfc/rfc2396.txt

Use http URIs

<http://id.loc.gov/authorities/names/n50074013>

<http://en.wikipedia.org/wiki/Singapore>

<http://www.geonames.org/1735634/>

Identifiers should link to useful information

LC Control No.: 48008547

LCCN Permalink: <http://lccn.loc.gov/48008547>

Type of Material: Book (Print, Microform, Electronic, etc.)

Personal Name: [Polo, Marco, 1254-1323?](#)

Uniform Title: [English 1948 \[from old catalog\]](#)

Main Title: The adventures of Marco Polo,

Published/Created: New York, John Day Co., 1948.

Description: p. cm.

CALL NUMBER: [G370 .P72 1948a](#)

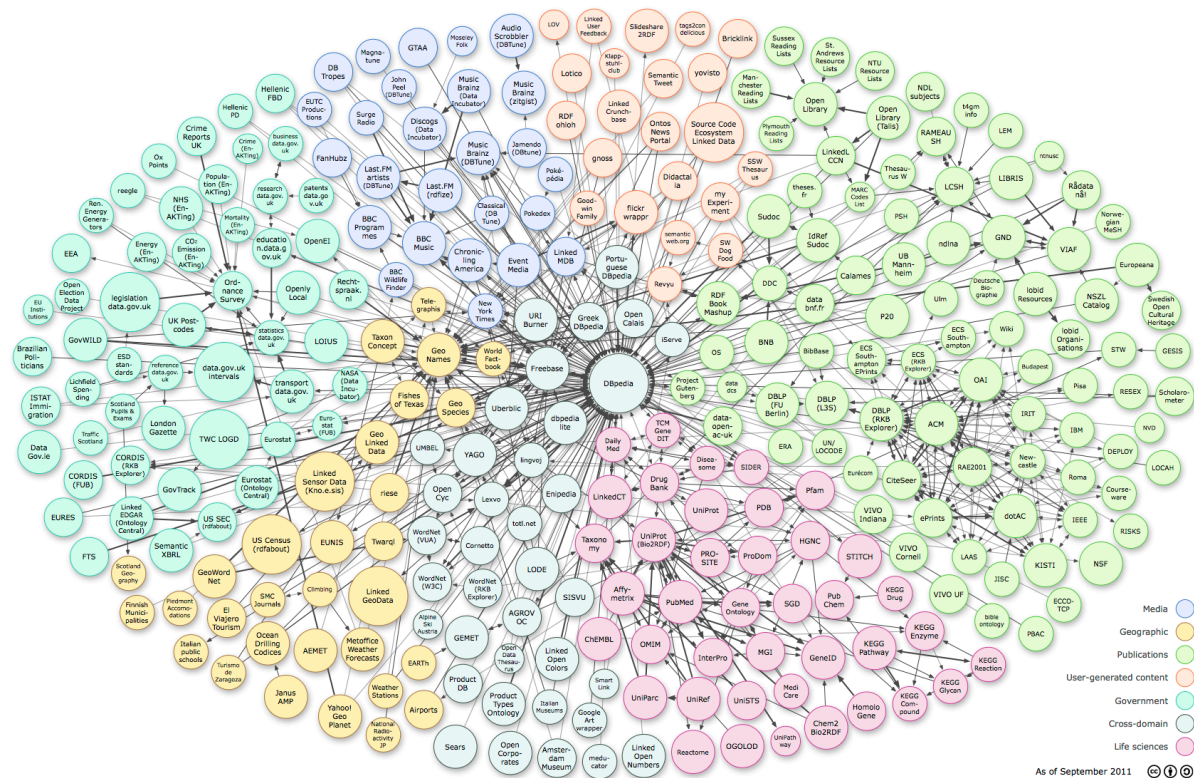
Identifiers should link to useful information



Identifiers should link to useful information

Term Name: title	
URI:	http://purl.org/dc/terms/title
Label:	Title
Definition:	A name given to the resource.

then... link!





End

Identifiers