

On building universal bibliographic control

Gordon Dunsire

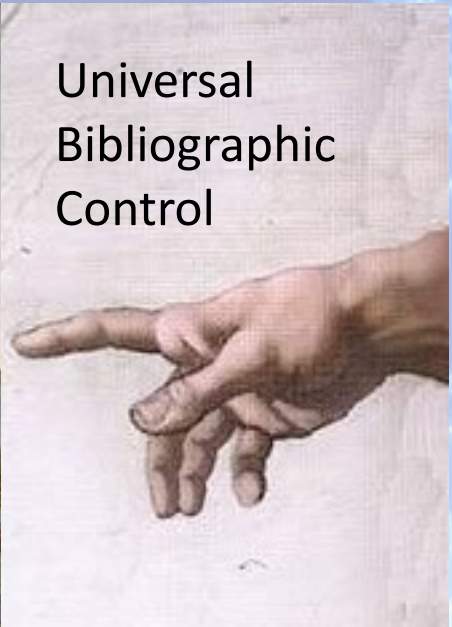
Presented to COBISS 2014

19-20 November 2014,

Maribor, Slovenia

Overview

- ❖ Failure of centralized, top-down standards
 - ❖ IFLA UBC Programme
- ❖ Result is a mix of long-established and new standards for resource description
 - ❖ Overlap considerable, and inevitable
 - ❖ The resource remains the same
- ❖ RDF supports interoperability at finest common level of dumbness
 - ❖ A matter of relative granularity
- ❖ Infrastructure required to maintain maps
 - ❖ Protocols, version control, provenance



Universal
Bibliographic
Control



KOS++

Confusing
tongues?

RDF

Say what
we mean

BIBFRAME:
Bibliographic
Framework

FR: Functional
Requirements

ISBD: International Standard
Bibliographic Description

BibO:
Bibliographic
Ontology

DC: Dublin Core
CRM: Conceptual
Reference Model

MARC21

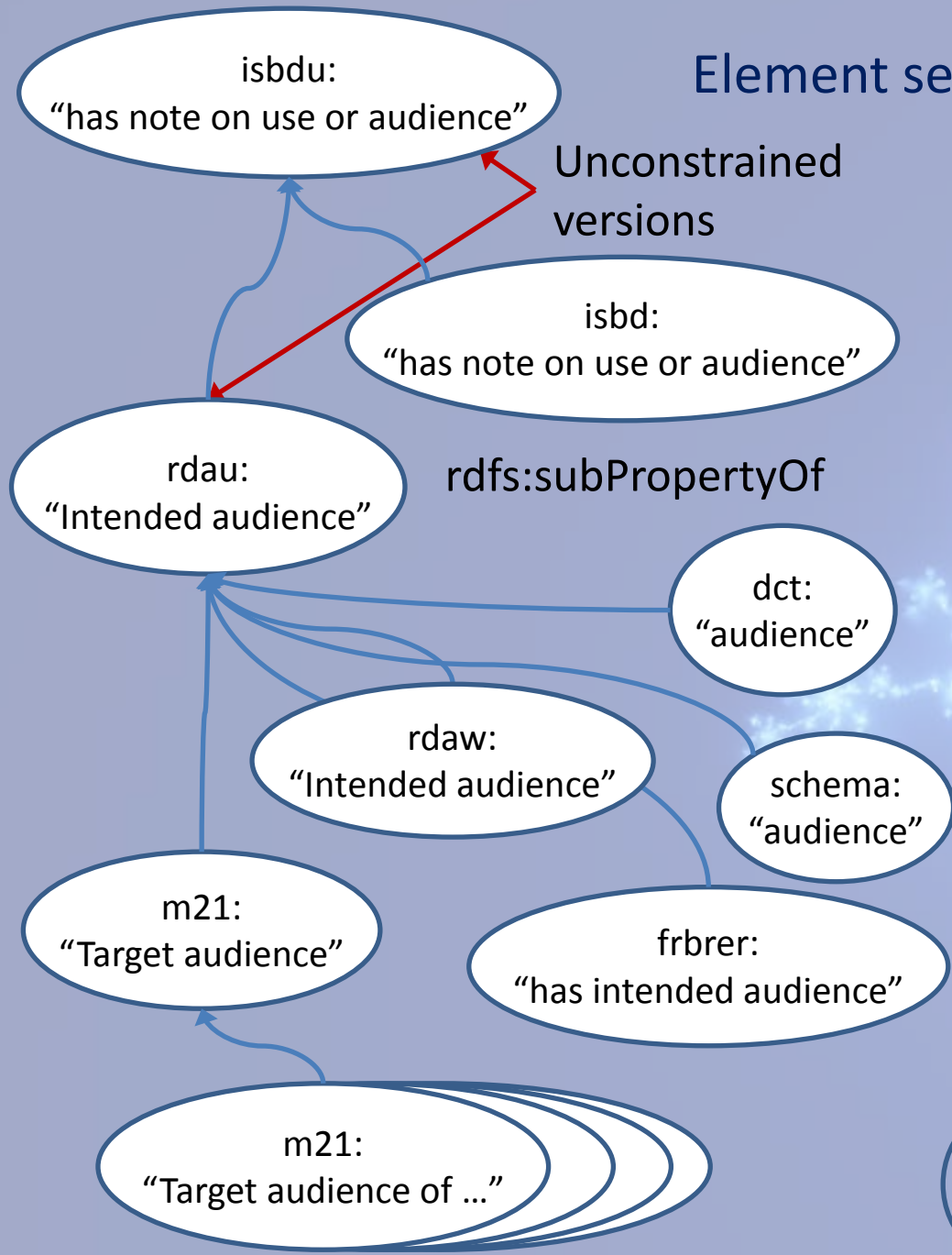
RDA: Resource
Description
and Access

schema.org
UNIMARC

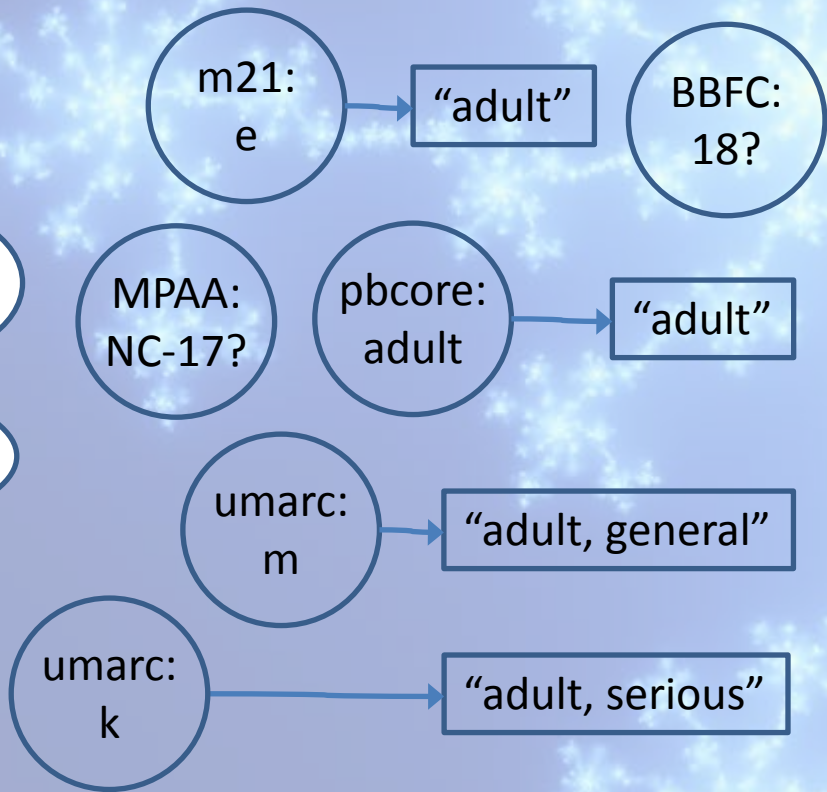
Map of "Audience"

Element sets (schema)

Value vocabularies (KOS)



Broader/narrower/same?



Granularities and overlaps

Property label in English	Granularity
RDA: has place of publication	Fine
ISBD: has place of publication, production, distribution	Medium
BIBFRAME: Place, name, and/or date information relating to the publication, printing, distribution, issue, release, or production instance	Coarse

Granularity of "Place"

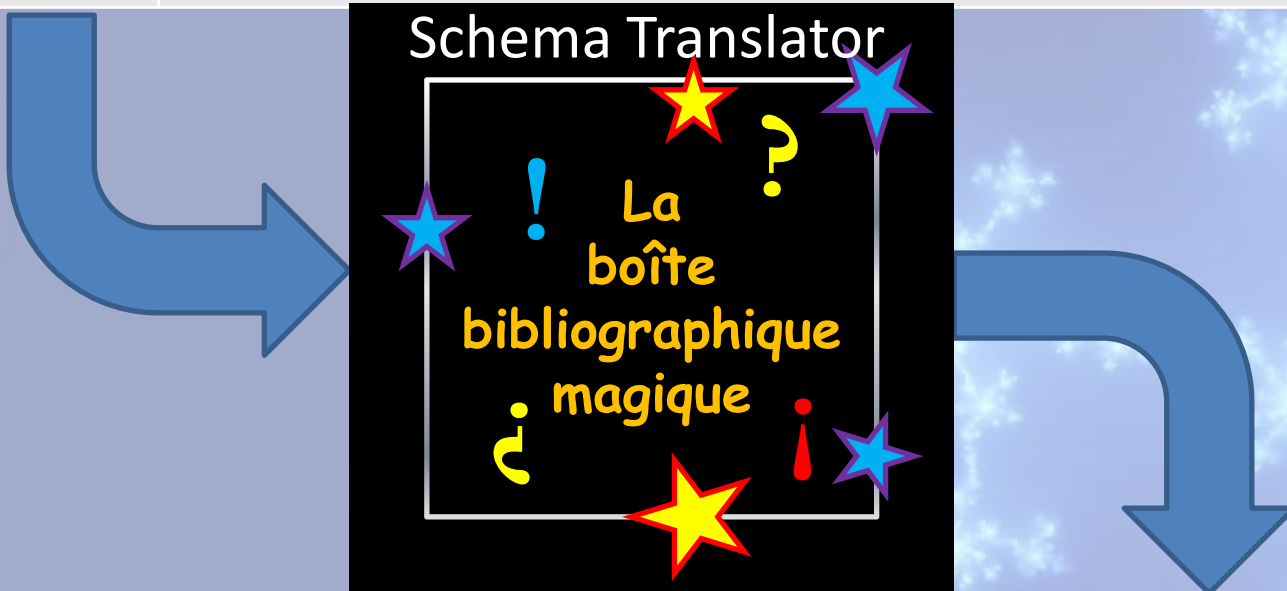
Aggregation of "Place" + other elements

Black box



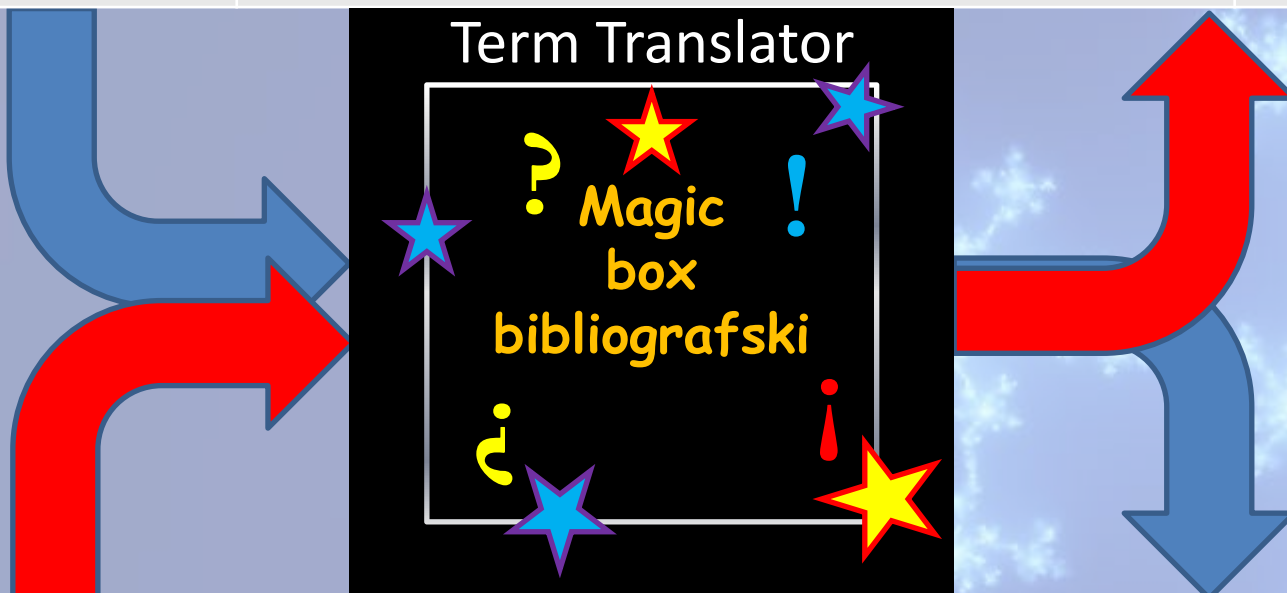
We do not need to know what goes on inside

Subject	Predicate/property	Object
This resource	has place of publication (RDA)	"Zagreb"
ex:Resource1	rdam:P30088	"Zagreb"



Subject	Predicate/property	Object
This resource	has place of publication, production, distribution (ISBD)	"Zagreb"
ex:Resource1	isbdu:P1016	"Zagreb"

Subject	Predicate/property	Object
This resource	has frequency of issue ... (UNIMARC)	"daily"
ex:Resource1	unimarc:U110__a1	unimarc:cf:h



Subject	Predicate/property	Object
This resource	has frequency of issue ... (UNIMARC)	"daily"
ex:Resource1	unimarc:U110__a1	rdaf:1010

Subject	Predicate	Object
ex:Resource1	isbd:P1016	"Zagreb"
ex:Resource1	isbd:P1017	"Hrvatsko knjižničarsko društvo"
ex:Resource1	isbd:P1018	"2012"



Subject	Predicate	Object
ex:Resource1	isbd:P1162	"Zagreb : Hrvatsko knjižničarsko društvo, 2012"

Subject	Predicate	Object
ex:Resource1	isbd:P1162	"Zagreb : Hrvatsko knjižničarsko društvo, 2012"



Subject	Predicate	Object
ex:Resource1	isbd:P1016	"Zagreb"
ex:Resource1	isbd:P1017	"Hrvatsko knjižničarsko društvo"
ex:Resource1	isbd:P1018	"2012"

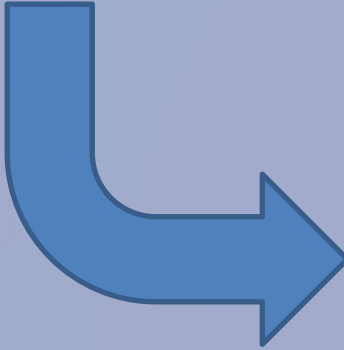


← Soup of triples



Reconstituted ingredient →





Record breaker

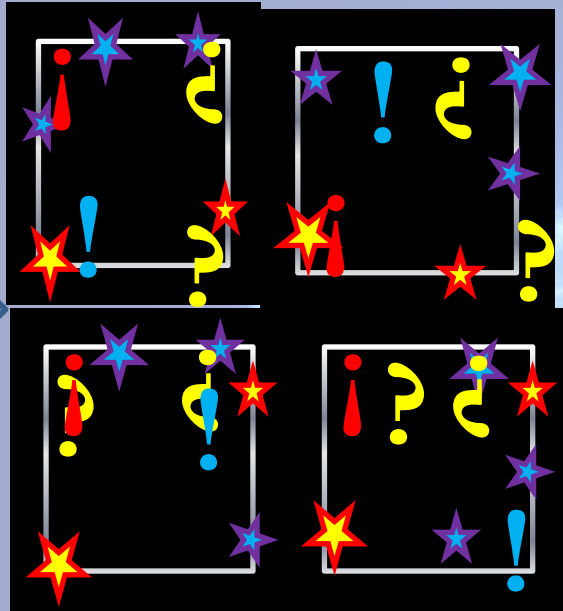
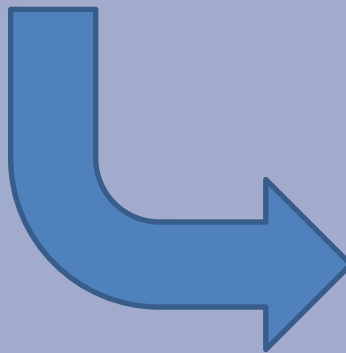
Magikoa kutxa bibliografia

The central black box contains the text "Record breaker" at the top and "Magikoa kutxa bibliografia" in the center. The text is surrounded by decorative elements: a blue star, a blue exclamation mark, a yellow question mark, a yellow star, a red star, and a red exclamation mark.



Magic?

Act locally



Think globally

Or Technique?

Management infrastructure

- ❖ What happens if an element or concept changes?
 - ❖ Protocol for change notification and re-mapping
- ❖ Who are the parties to such a protocol?
 - ❖ Registry of ownership and provenance
- ❖ Self-governing or third party arbitration?
- ❖ How reliable is the map?
 - ❖ Version control? Meta-metadata? Provenance!

Acknowledgements

- ❖ Google Translate
 - ❖ translate.google.com
- ❖ Michaelangelo, Creation of Adam, Sistine Chapel, 1511-1512
- ❖ Pieter Bruegel the Elder, The Tower of Babel, 1563
- ❖ Chicken and chicken soup: Good cooks everywhere!