

What does RDA linked data look like and how does it benefit users?

Gordon Dunsire

Presented to RDA Forum, ALA
Annual, Orlando, USA, June 25, 2016

Toolkit full example: flat file (no links)

SCORE – RDA ELEMENTS

RDA REF	RDA ELEMENT	ENTITY	DATA RECORDED
2.3.2	Title proper	M	Concerto for violin and chamber music
2.4.2	Statement of responsibility relating to title proper	M	Margaret Brouwer
2.8.2	Place of publication	M	[United States?]
2.8.4	Publisher's name	M	Brouwer New Music Publishing
2.8.6	Date of publication	M	[2007]
2.13	Mode of issuance	M	single unit
3.2	Media type	M	unmediated
3.3	Carrier type	M	volume
3.4.3	Extent of notated music	M	1 score (76 pages)
3.5	Dimensions	M	42 cm
6.9	Content type	E	notated music
6.15	Medium of performance ¹	W	violin, orchestra
7.13.3	Form of musical notation	E	staff notation
7.22	Duration	E	25 min.
17.8	Work manifested ²		Brouwer, Margaret, 1940- . Concertos, violin, orchestra
19.2	Creator		Brouwer, Margaret, 1940-
18.5	Relationship designator		composer
6.28.1	<i>Authorized access point representing a musical work</i>		<i>Brouwer, Margaret, 1940- . Concertos, violin, orchestra</i>

Toolkit full example: r-balls (linked data)

RDA Example: Score

Topic: Concerto for violin and chamber music. Brouwer New Music Publishing. [2007]. Volume

Number of entities: 4

This r-ball focuses on the manifestation "Concerto for violin and chamber music. Brouwer New Music Publishing. [2007]. Volume".

It is the example of a Score given in [Complete examples - bibliographic records](#) in RDA Toolkit.

The example is also used in the RDA Registry for [Score from Complete examples – bibliographic records](#) and [Score from Complete examples – bibliographic records \(unconstrained\)](#). Variations in the RDF representations are intentional and are compatible with RDA guidance and instructions.

Downloads

- [RIMMF ball](#) (application/zip)
- [RDF ball](#) (text/rdf+nt)

More about:

- [RIMMF-balls](#)
- [RDF-balls](#)

Toolkit full example: RIMMF (linked data)

W -- rdaex00002622.txt -- Brouwer, Margaret, 1940- Concertos, Violin, orchestra *

File Edit M -- rdaex00002621.txt -- Concerto for violin and chamber music. Brouwer New Music Publi...

File Edit View Options Help

Element Label	Text	RDA Rule	AAP
manifestation			
has RIMMF identifier °	rdaex00002621	no rule	
has composite key °	Concerto for violin and chamber music. Brouwer New Music Publishing [2007] Volume		

P -- rdaex00002623.txt -- Brouwer, Margaret, 1940-

File Edit View Options Help

Element Label	Text	RDA Rule	AAP
person			
has RIMMF identifier °	rdaex00002623	no rule	
has authorized access point °	Brouwer, Margaret, 1940-	9.19	
has name of the person		9.2	
has preferred name for the person	Brouwer, Margaret	9.2.2	☒
has variant name for the person	Margaret Brouwer	9.2.3	
has date associated with the person		9.3	
has date of birth	1940	9.3.2	☒
is composer of ✕	Brouwer, Margaret, 1940- Concertos, Violin, orchestra <rdaex00002622>	P50204	

WEMI Links

W R-Tree

R | D | A

Toolkit full example: RIMMF (linked view)

Relationship tree for: "Brouwer, Margaret, 1940- Concertos, Violin, orche..."

Relationship	Heading	
Work	Brouwer, Margaret, 1940- Concertos, Violin, orchestra	☐
Has composer	Brouwer, Margaret, 1940-	☐
Has expression of work	Brouwer, Margaret, 1940- Concertos, Violin, orchestra. Notated music	☐
Has manifestation of expression	Concerto for violin and chamber music. Brouwer New Music Publishing. [2007]. Volume	☐

☐ Remove entity coloring

☒ De-dupe

Close selected

ort ...

Dig

To use this form

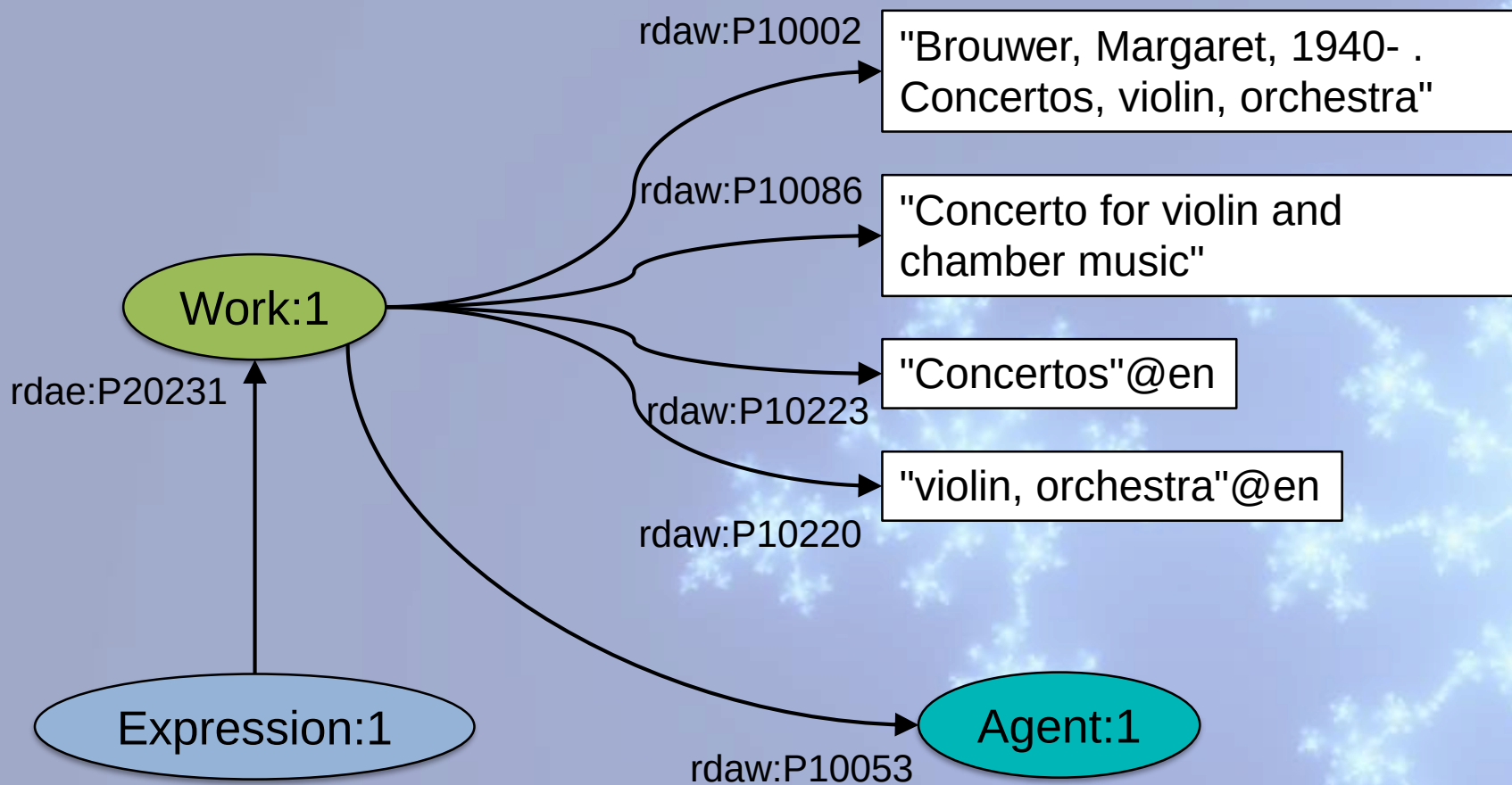
Toolkit full example: RIMMF RDF

```
<http://rimmfdata.com/r/rdaex00002623> <http://rdaregistry.info/Elements/a/P50117> "Brouwer, Margaret" .
<http://rimmfdata.com/r/rdaex00002623> <http://rdaregistry.info/Elements/a/P50103> "Margaret Brouwer" .
<http://rimmfdata.com/r/rdaex00002623> <http://rdaregistry.info/Elements/a/P50121> "1940" .
<http://rimmfdata.com/r/rdaex00002623> <http://rimmf.com/vocab/authorizedAccessPointPerson>
"rdaex00002623" .
<http://rimmfdata.com/r/rdaex00002623> <http://rdaregistry.info/Elements/a/P50187> <
http://rimmfdata.com/r/rdaex00002622> .
<http://rimmfdata.com/r/rdaex00002622> <http://rimmf.com/vocab/authorizedAccessPointWork> "rdaex00002622" .
<http://rimmfdata.com/r/rdaex00002622> <http://rdaregistry.info/Elements/w/P10223> "Concertos" .
<http://rimmfdata.com/r/rdaex00002622> <http://rdaregistry.info/Elements/w/P10086> "Concerto for violin
and chamber music" .
<http://rimmfdata.com/r/rdaex00002622> <http://rdaregistry.info/Elements/w/P10219> "2007" .
<http://rimmfdata.com/r/rdaex00002622> <http://rdaregistry.info/Elements/w/P10053> <
http://rimmfdata.com/r/rdaex00002623> .
<http://rimmfdata.com/r/rdaex00002622> <http://rdaregistry.info/Elements/w/P10220> "violin, orchestra" .
<http://rimmfdata.com/r/rdaex00002622> <http://rimmf.com/vocab/variantAccessPointWork> "Concerto for
violin and chamber music" .
<http://rimmfdata.com/r/rdaex00002622> <http://rimmf.com/vocab/variantAccessPointWork> "Concertos" .
<http://rimmfdata.com/r/rdaex00002622> <http://rimmf.com/vocab/variantAccessPointWork> "Brouwer, Margaret,
1940- Concerto for violin and chamber music" .
<http://rimmfdata.com/r/rdaex00002622> <http://rimmf.com/vocab/variantAccessPointWork> "Concertos, violin,
orchestra" .
```

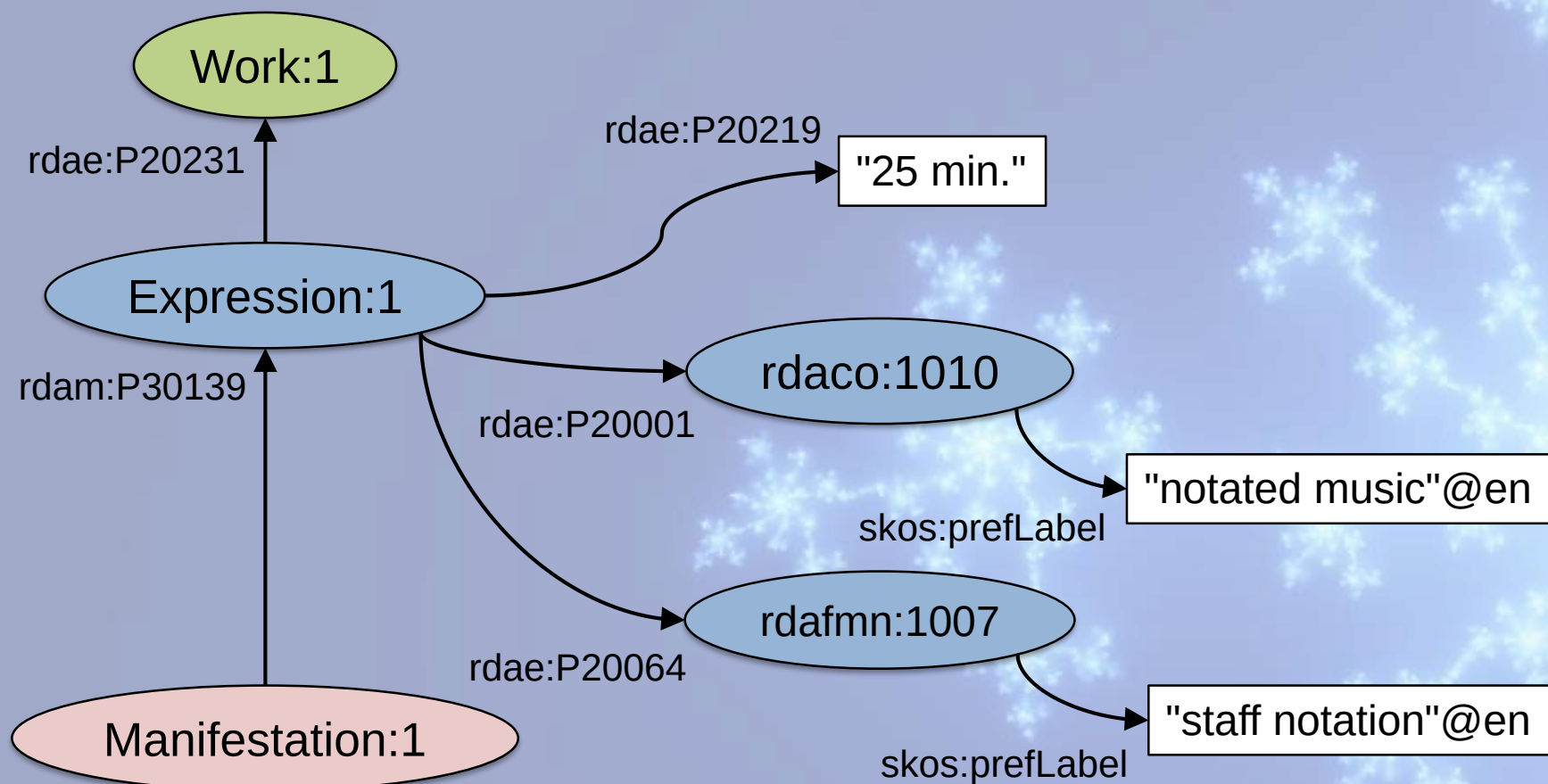

Toolkit full example: RDF turtle (semantic linked data)

```
@prefix ex: <http://example.com/> .
@prefix rdaa: <http://rdaregistry.info/Elements/a/> .
@prefix rdac: <http://rdaregistry.info/Elements/c/> .
@prefix rdaco: <http://rdaregistry.info/termList/RDAContentType/> .
@prefix rdact: <http://rdaregistry.info/termList/RDACarrierType/> .
@prefix rdae: <http://rdaregistry.info/Elements/e/> .
@prefix rdafmn: <http://rdaregistry.info/termList/MusNotation/> .
@prefix rdam: <http://rdaregistry.info/Elements/m/> .
@prefix rdami: <http://rdaregistry.info/termList/ModeIssue/> .
@prefix rdamt: <http://rdaregistry.info/termList/RDAMediaType/> .
@prefix rdaw: <http://rdaregistry.info/Elements/w/> .
@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
#
# Example: Score from Complete examples - bibliographic records
# 11 May 2016
#
ex:A1
  rdaa:P50094 "Brouwer, Margaret, 1940-" ;
  rdaa:P50103 "Margaret Brouwer" ;
  rdaa:P50117 "Brouwer, Margaret" ;
  rdaa:P50121 "1940" .
```

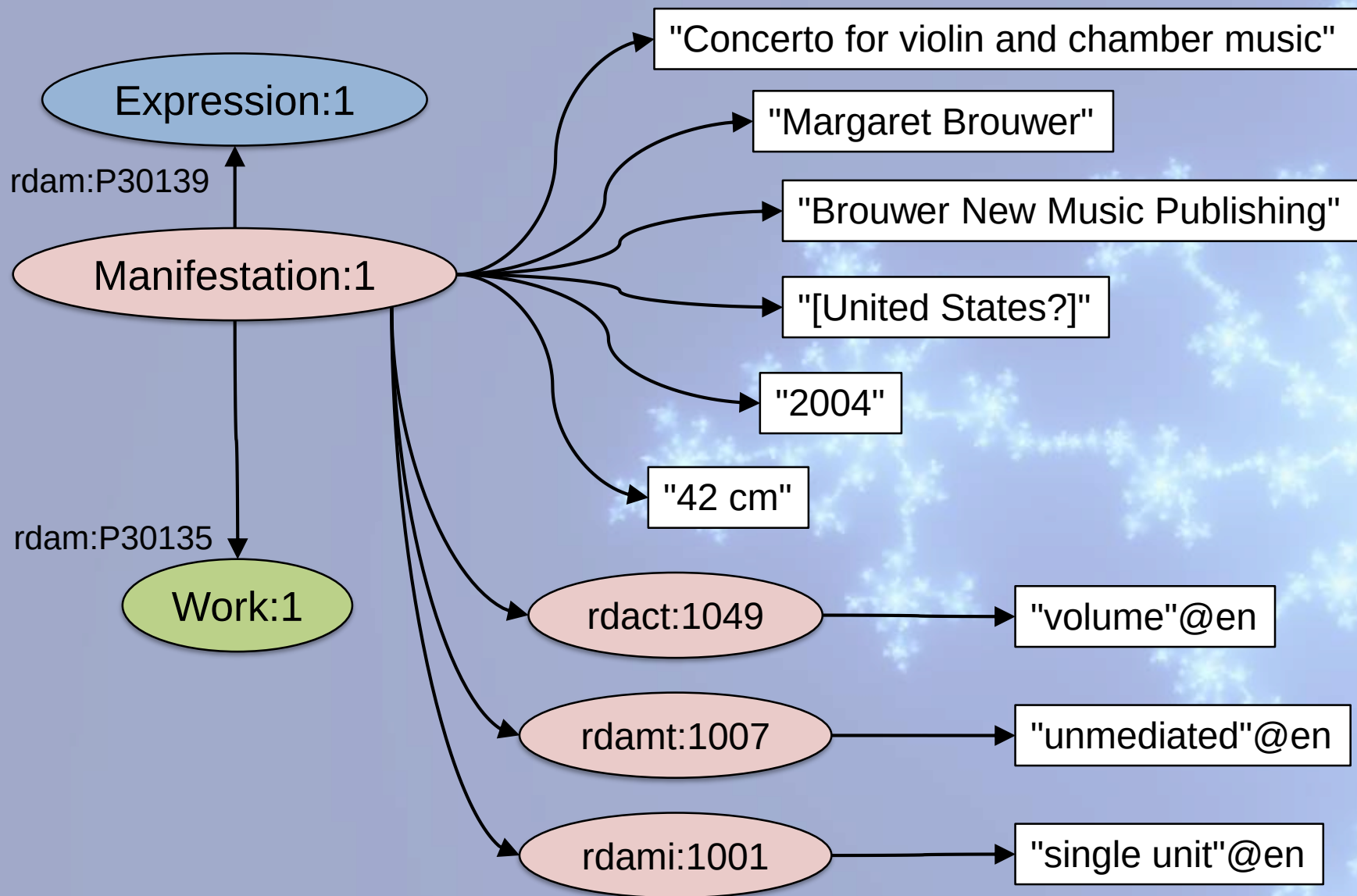
Work linked data cluster



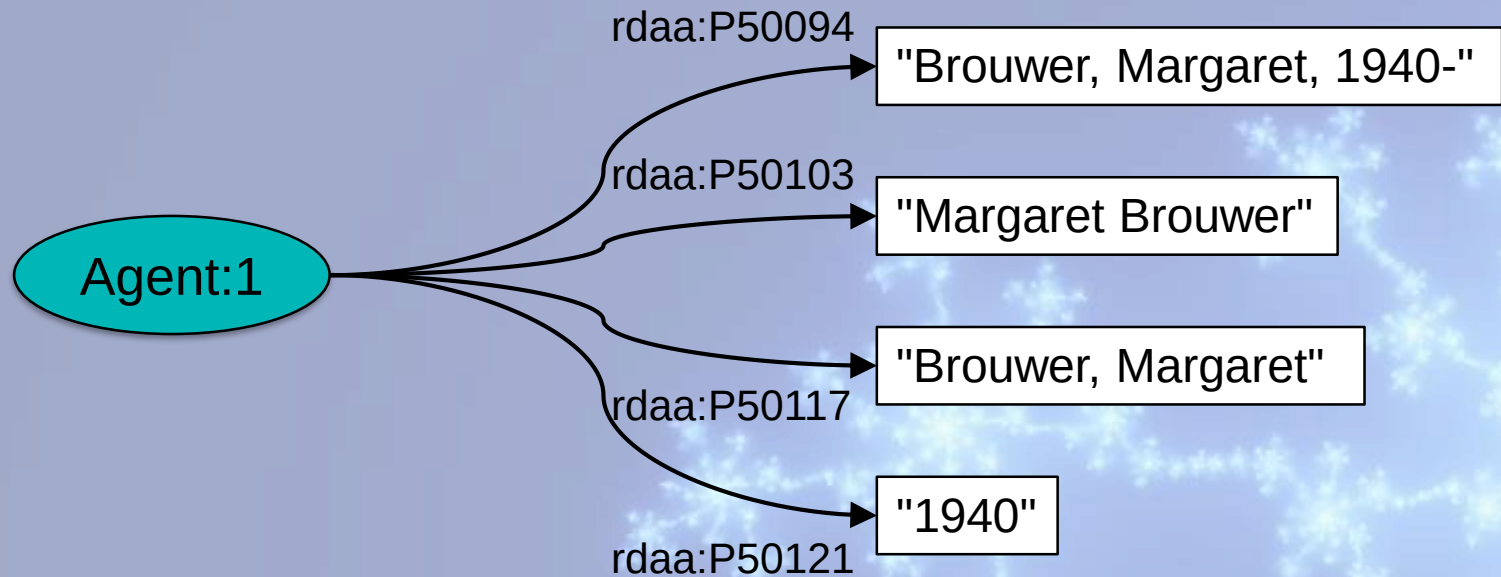
Expression linked data cluster



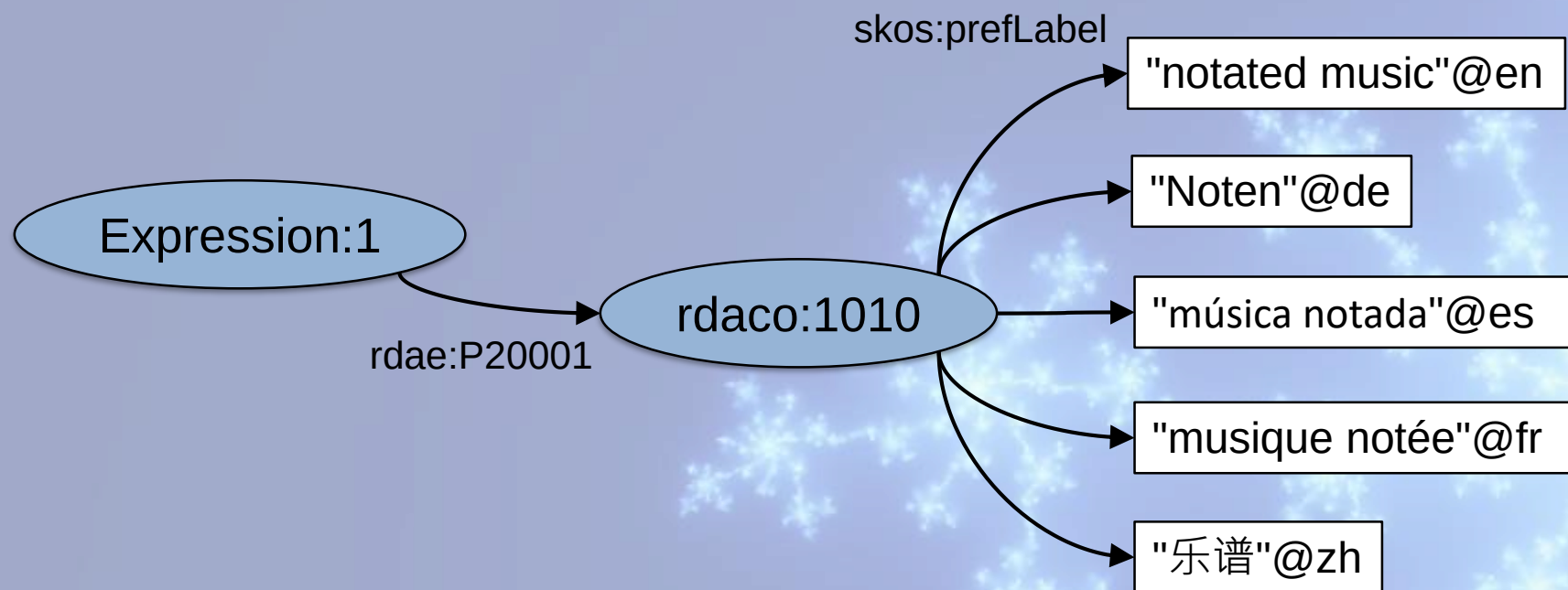
Manifestation linked data cluster



Agent linked data cluster



Multilingual labels, etc.



RIMMF in English

E -- rdaex00002624.txt -- Brouwer, Margaret, 1940- Concertos, Violin, orches... — □ ×				
File Edit View Options Help				
☰	Element Label	Text	RDA Rule	AAP
▶	expression			
	has RIMMF identifier °	rdaex00002624	no rule	
	has authorized access point °	Brouwer, Margaret, 1940- Concertos, Violin, orchestra. Notated music	6.27.3	
	has content type	Notated music	6.9	☒
	has date of expression	2007	6.10+	☐
	has form of notation		7.13	
	has form of musical notation	staff notation	7.13.3	
	has duration	25 min.	7.22	
	has work expressed	Brouwer, Margaret, 1940- Concertos, Violin, orchestra <rdaex00002622>	17.6+	☒
	has manifestation of expression	Concerto for violin and chamber music. Brouwer New Music Publishing. [2007]. Volume <rdaex00002621>	17.9+	
WEMI Links				
W R-Tree				

RIMMF in Spanish

E -- rdaex00002624.txt -- Brouwer, Margaret, 1940- Concertos, Violin, orches...

Archivo

Edición

Vista

Opciones

Ayuda

Element Label	Text	RDA Rule	AAP
► [-] Expresión			
Identificador de RIMMF	rdaex00002624	no rule	
Punto de acceso autorizado	Brouwer, Margaret, 1940- Concertos, Violin, orchestra. Música notada	6.27.3	
Tipo de contenido	música notada	6.9	☒
Fecha de la expresión	2007	6.10+	☐
[-] Forma de notación		7.13	
Forma de la notación musical	notación pautada	7.13.3	
Duración	25 min.	7.22	
Obra expresada	Brouwer, Margaret, 1940- Concertos, Violin, orchestra <rdaex00002622>	17.6+	☒
Manifestación de la expresión	Concerto for violin and chamber music. Brouwer New Music Publishing. [2007]. Volumen <rdaex00002621>	17.9+	

0

WEMI Links

R-Tree

RIMMF in French

E -- rdaex00002624.txt -- Brouwer, Margaret, 1940- Concertos, Violin, orc...

Fichier

Insertion

Affichage

Options

Aide

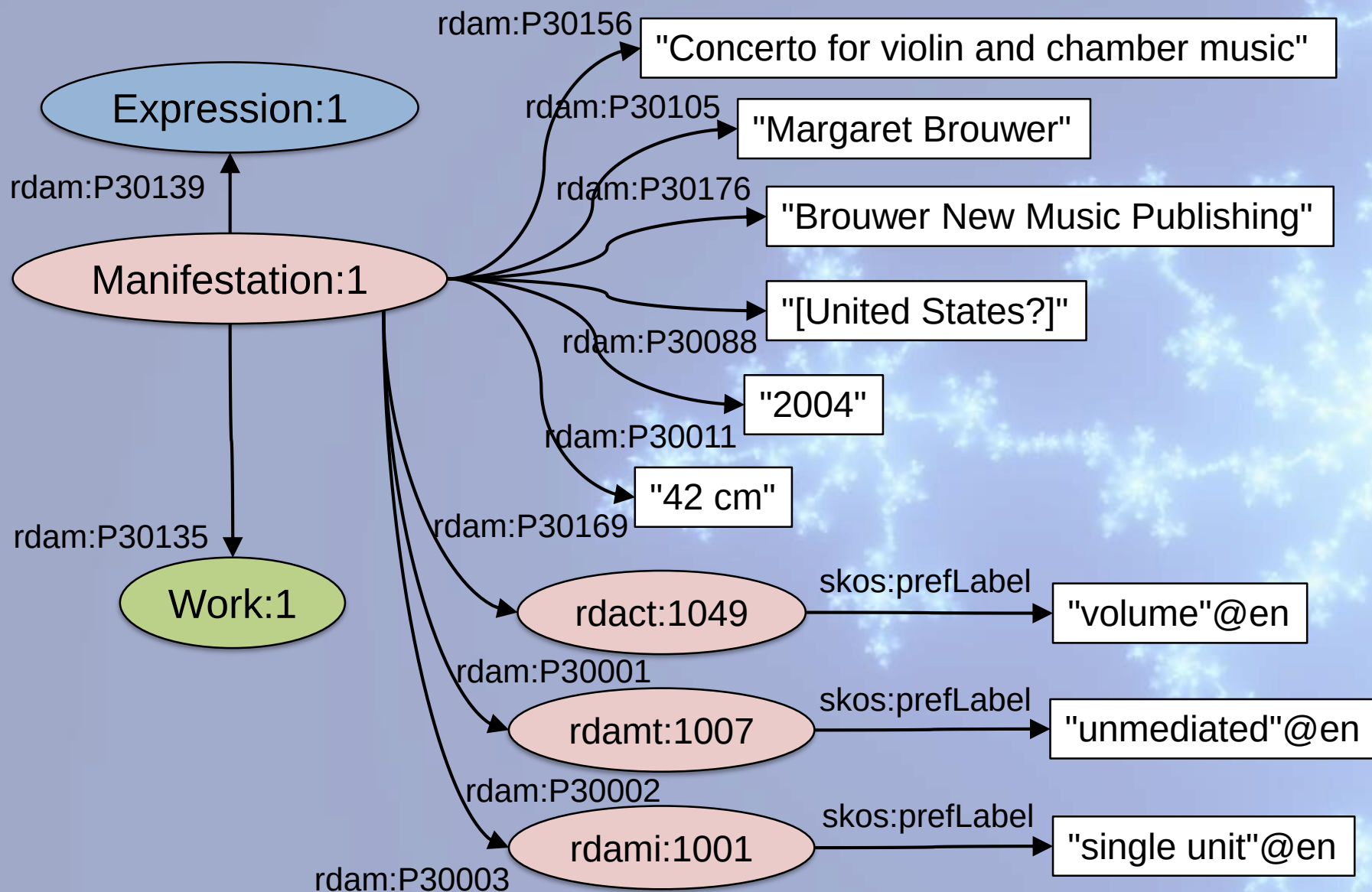
Element Label	Text	RDA Rule	AAP
► [-] Expression			
Identifiant de RIMMF	rdaex00002624	no rule	
Point d'accès autorisé	Brouwer, Margaret, 1940- Concertos, Violin, orchestra. Musique notée	6.27.3	
Type de contenu	musique notée	6.9	☒
Date de l'expression	2007	6.10+	☐
[-] Forme de la notation		7.13	
Forme de la notation musicale	notation sur portée	7.13.3	
Durée	25 min.	7.22	
Œuvre exprimée	Brouwer, Margaret, 1940- Concertos, Violin, orchestra <rdaex00002622>	17.6+	☒
Manifestation d'une expression	Concerto for violin and chamber music. Brouwer New Music Publishing. [2007]. Volume <rdaex00002621>	17.9+	

⌘

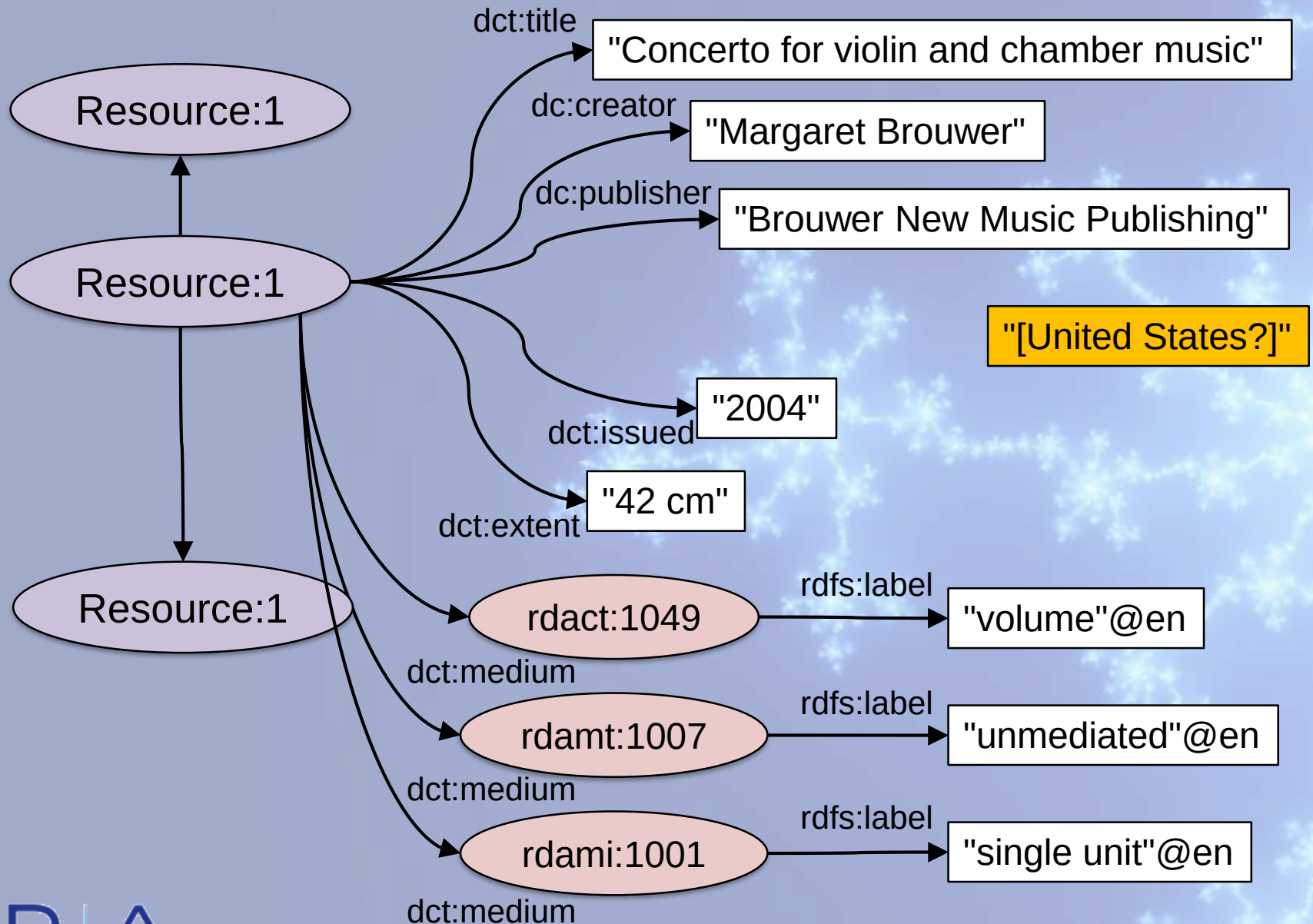
WEMI Links

R-Tree

Manifestation linked data cluster in RDA/RDF



Manifestation linked data cluster in Dublin Core

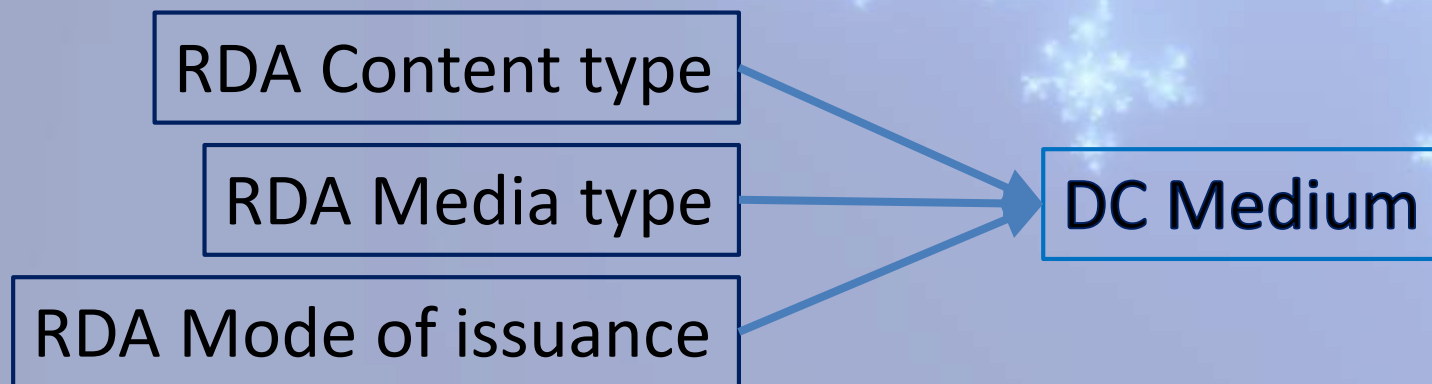


Transformation from RDA to DC loses information

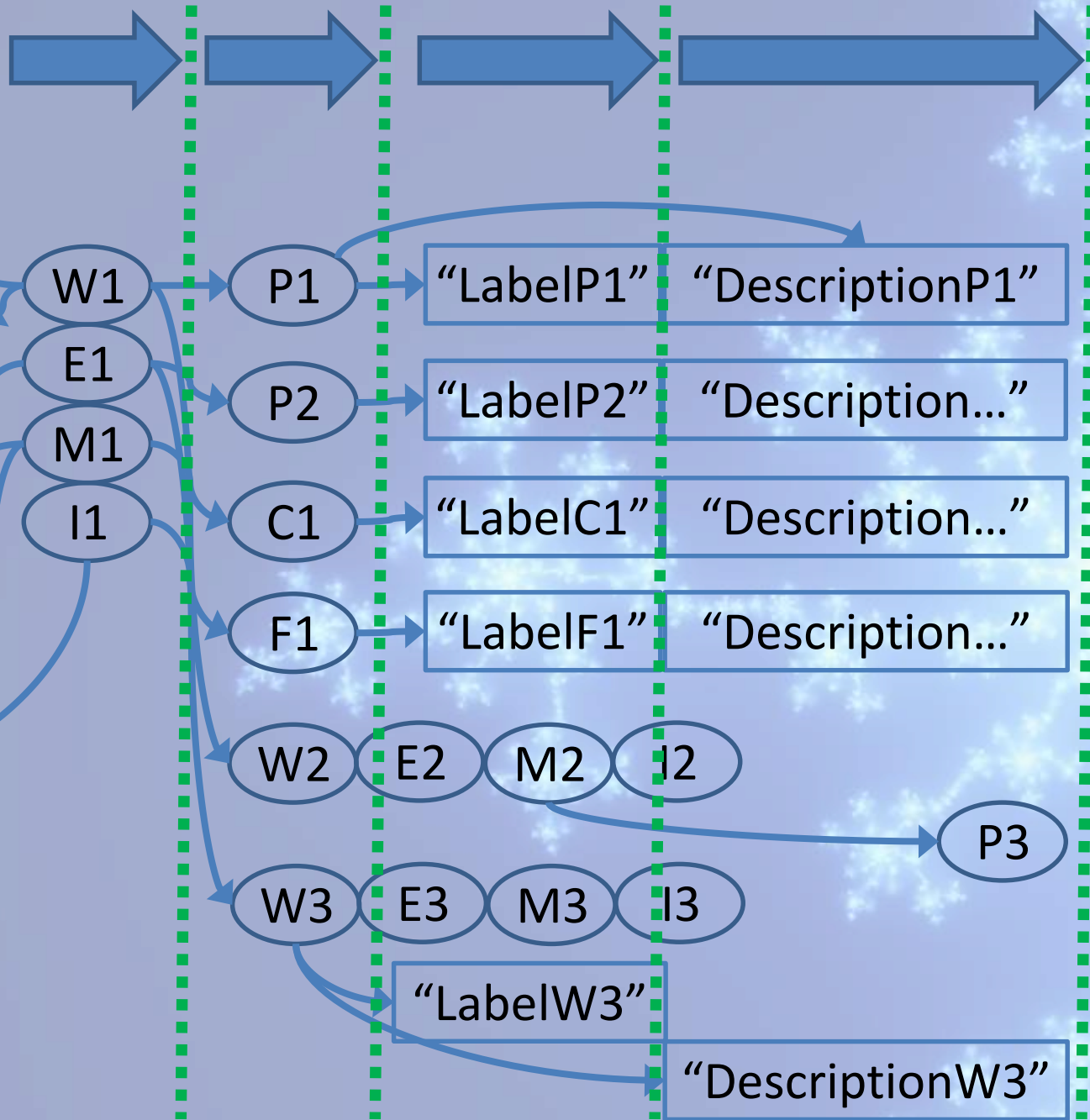
DC Terms agents (creator, publisher)
expect things, not strings

↳ Original DC agents (creator, publisher) do not
expect things or strings – can be used for strings

No place for place!



A record?



RDA benefits for users

- User's choice of language of labels and controlled terminologies
- User's ability to expand or contract the detail displayed
- Choice of flat-file, related description and authority data, and graphical display of data
- Fine granularity supporting interoperability with all coarser-grained schema

Thank you!

- ❖ rscchair@rdatoolkit.org
- ❖ RSC website
 - ❖ <http://www.rda-rsc.org/>
- ❖ RDA Toolkit
 - ❖ <http://www.rdatoolkit.org/>
- ❖ RDA Registry
 - ❖ <http://www.rdaregistry.info/>
- ❖ RDA data, Jane-athons, etc.
 - ❖ <http://www.rballs.info/>

Example data sources

❖ RDA Toolkit

- ❖ http://www.rdatoolkit.org/sites/default/files/rsc_rda_complete_examples_bibliographic_april2016.pdf

❖ RDA Registry

- ❖ http://www.rdaregistry.info/Examples/exRSCFullS_core.html

❖ R-Balls

- ❖ <http://rballs.info/topics/m/rdaex/rdaexScore.html>