Getting more out of MARC for music and movies with Primo: strategies for display, search and faceting

1. MARC record

336	text +b txt +2 rdacontent
337	unmediated ‡b n ‡2 rdamedia
338	volume ‡b nc ‡2 rdacarrier
386	Americans ‡a Women ‡2 lcdgt

 Primo is a library search interface that can incorporate both MARC and non-MARC data from multiple sources

- All incoming records are transformed into a standard format: PNX (Primo normalized XML)
- PNX record has sections, such as search, display, facets, links
- Each section has **fields**, both out-of-the-box fields, such as title and creator, and 50-150 locally-defined fields

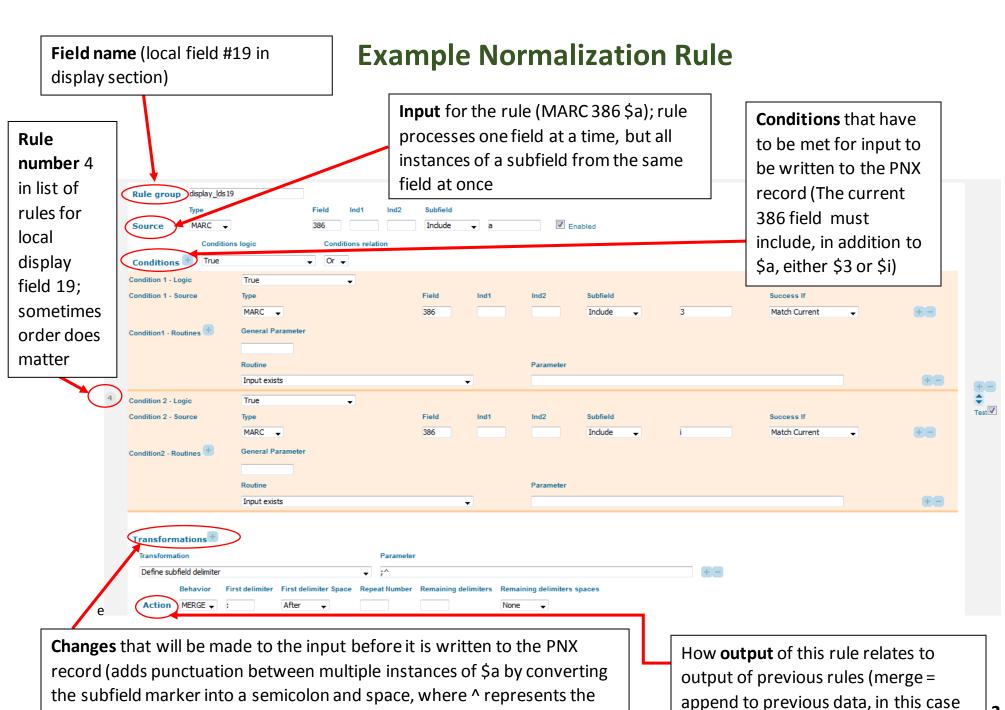
A fierce brightness: twenty-five years of women's poetry
Margarita Donnelly, editor, writer of foreword.; Beverly McFarl

Margarita Donnelly, editor, writer of foreword.; Beverly McFarland, 1937- editor.; Micki Reaman, 1963- editor.; Hilda Raz, writer of introduction.; Carole Oles, writer of introduction.; Corvallis, Oregon: Calyx Books; 2002

Available at Knight Library 2nd-4th Floors (PS589 .F54 2002) and other locations



Normalization rules to transform incoming records into PNX are written in Primo's web-based Back
Office interface



space); by default, subfields are separated by a space

ex. Americans Women \rightarrow Americans; Women

2

content of \$3 and/or \$i, as part of the same instance of local display field 19)

257 (Country of Producing Entity) Display: Accounting for Variations

Two ways to record data in 257:

- string (AMIM—Archival Moving Image Materials—cataloging style)
 257 \$aFrance; Italy.
- 2. subfielded values from controlled vocabulary with no punctuation:

257 **\$a**France**\$a**Italy*\$2naf*

Additional variants are not uncommon:

257 \$aFrance ;\$altaly.\$2naf

257 **\$a**France ; Italy*\$2naf* (\$a is same as 1st example in 1st column except it lacks final period)

Goal: Display all variants in a standard, readable form

1. Change any subfield delimiters to "; " (^ indicates space)

Transformation	Parameter
Define subfield delimiter ▼	;^

- 2. Replace double semicolons with a single semicolon (@@ separates term to find and term to replace with)

 Replace string by string ;;@@;
- 4. Remove any spaces in front of a semicolon by replacing "++;" with ";" Replace string by string ++;@@;
- 5. Change "++" back to space

 Replace string by string ++@@^
- 6. Remove periods from the end of the string Remove characters from the end .

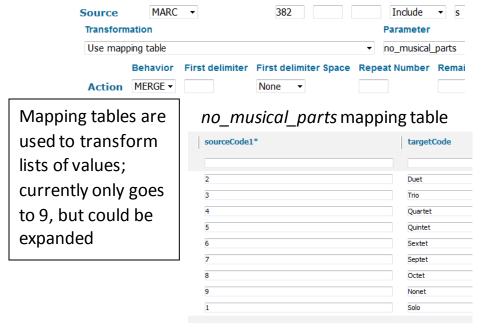
	Start (\$a)	\$aFrance ; Italy.	\$aFrance\$altaly	\$aFrance;\$altaly.
1	\$a → "; "	France ; Italy.	France <mark>;_</mark> Italy	France ; <u>;</u> Italy.
2	";;" → ";"	France ; Italy.	France; Italy	France <mark>;</mark> Italy.
3	" " → "++"	France <mark>++</mark> ; <mark>++</mark> Italy.	France; <mark>++</mark> Italy	France <mark>++</mark> ;++Italy.
4	"++;" → ";"	France <mark>;</mark> ++Italy.	France;++Italy	France <mark>;</mark> ++Italy.
5	"++" → " "	France; <mark>_</mark> Italy.	France; <mark>_</mark> Italy	France; <mark>_</mark> Italy.
6	Remove "."	France; Italy_	France; Italy	France; Italy_

382 (Medium of Performance): Making Data Display Intelligibly

1. First rule forces the start of a new PNX field



2. 382 \$s [total number of performers] = 4



Quartet: violin (2); viola (1); cello (1)

3. 382 \$t [total number of ensembles] = 1

Transformations				
Transformation			Parameter	
Copy As Is		•		
Add to end of string		•	^ensemble	S
Replace string by string		•	1 ensemble	s@@1^ensemble
Behavior First de	elimiter First delimiter Space	Repe	at Number	Remaining delimi
Action MERGE ▼	None ▼			

1 ensemble, 1 solo: clarinet (1); big band (1) (solos for: clarinet)

4. 382 \$r [total number of individuals performing alongside ensembles] = 1

Transform	nation				Parameter	
Copy As	Is			•		
Add to e	nd of string			•	^solos	
Replace s	string by strir	ng		•	1 solos@@:	1^solo
Action	Behavior MERGE ▼	First delimiter	First delimiter Space After ▼	Rep	eat Number	Remaini

1 ensemble, 2 solos: trumpet (1); trombone (1); band (1) (solos for: trumpet; trombone)

Comma in first delimiter box for merge action changes the **initial \$r** into a comma before merging it with any preceding text in the same instance of this PNX field. If there is no preceding text, it does nothing. "After" in the first delimiter space box puts a space after that comma.

5. 382 \$a [medium of performance], \$b [soloist],\$e [number of ensembles of the same type],\$n [number of performers of the same medium] =

\$b violin \$n 1 \$a singing bowl \$n 1 \$p crotales \$n 1 \$a string orchestra \$e 1

Parameter

) (1)@@)

) (1)@@)

Transformation

Replace string by string

Replace string by string

Replace string by string

MERGE _

Replace string by string ; 1@@^(1) Replace string by string ; 2@@^(2) Replace string by string ; 9@@^(9)	; 1; 1; string orchestra; 1	Violin; 1; singing bow
	; 1@@^(1)	Replace string by string
Replace string by string ; 9@@^(9)	y ; 2@@^(2)	Replace string by string
Replace string by string ; 9@@^(9)	\	•••
• • • • • • • • • • • • • • • • • • • •		Replace string by string
Violin (1); singing bowl (1) (1); string orchestra	ıl (1) (1); string orchestra (1	Violin (1); singing bov

Replace string by string

violin (1); singing bowl (1); string orchestra (1)

(alternate instrumentation: crotales) (solos for:

violin) [alternative for singing bowl]

First delimiter First delimiter Space

When combining different types of MARC subfields from the same field in one PNX field, there are two options:

- A. Write separate rules for each subfield and then merge them (rules 2-4, 6-9):
 - Can treat subfields differently
 - Cannot retain order of subfields; each type of subfield is processed sequentially
- B. Write one rule that takes multiple subfields as input (rule 5):
 - Must treat all subfields the same way
 - Retains order of subfields

All subfield delimiters have to be changed to the same string

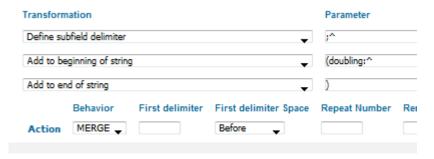
Notice extra 1 from \$n that goes with \$p (alternate instrumentation); \$p not included in this rule because it can't be distinguished (see rule 7 for \$p)

Uses the fact that \$n and \$e are always numbers to remove extra semicolons and add parentheses around numbers; currently only works for numbers 1-9; need to look at data to see how high to go

Removes extra numbers; same problem with how high to go as above

Adds colon space to beginning of string if merging with data from \$s, \$t or \$r (rules 2-4); does nothing if none of these subfields are present

6. 382 \$d [doubling instrument] = bass drum



Quartet: violin (2); viola (1); cello (1) (doubling: bass drum)

7. 382 \$p [alternative medium of performance] = cornet

Transforn	nation			Parameter	
Define su	bfield delimiter		▼	,^	
Add to be	eginning of strin	g	•	(alternate instrun	nentation:^
Add to er	nd of string		▼)	
	Behavior	First delimiter	First delimiter Space	Repeat Number	Remaining de
Action	MERGE 🛖		Before 🕌		

Solo: trumpet (1) (alternate instrumentation: cornet)

Extra words that are added to the display, such as doubling, alternate instrumentation, solo, and duet, are also added to the general search index (not shown)

8. 382 \$b [soloist] = cello

Transform	nation			Parameter	
Define su	bfield delimiter		▼	;^	
Add to be	ginning of string	l	▼	(solos for:^	
Add to en	nd of string		▼)	
Action	Behavior MERGE _	First delimiter	First delimiter Space	Repeat Number	Rer

Duet: cello (1); piano (1) (solos for: cello)

9. 382 \$v [note] = boy's chorus

Transformation				Parameter	
Add to be	eginning of string	9	▼	[
Remove	characters from	the end	•	^	
Add to er	nd of string		•]	
	Behavior	First delimiter	First delimiter Space	Repeat Numb	
Action	MERGE 🕌		Before 🕌		

bass voice (1); male voice (7); children's chorus; chorus; orchestra (solos for: bass voice) [boy's chorus]

Genre Drama (898) Feature films (804)Fantasy films (490)Fiction films (426) Film adaptations (245) More options • Language

Country of Production Original Date

Jnited States (510)	2010s	(252)
Great Britain (131)	2000s	(180
lapan (91)	1990s	(93)
rance (84)	1980s	(74)
Canada (25)	1970s	(53)

Music: Musical Key

C major	(51)
A minor	(31)
C minor	(27)

Music: Numeric Designation

```
op. 17
        (9)
op. 33
        (7)
K. 454
        (1)
op. 23 op. 87
                (1)
K. 386
       (1)
```

Experimenting with

Facets

(2.914)English Spanish (870)English (828)French (865)Japanese (177)(308)Japanese French (56)Chinese (128)Spanish (36)

Chinese

Director

Yates, David, 1963- (30) Miyazaki, Hayao, 1941- (16) Charney, Nicolas H (16) Tatge, Catherine Performer Jackson, Peter, 196

> Radcliffe, Daniel, 1989-Watson, Emma, 1990- (44) Grint, Rupert, 1988- (44) Smith, Maggie, 1934-Rickman, Alan (39)

Original Language

(31)

Creator Demographic Group

Americans (1,226) African Americans (704) Men (701) Gay men (78) Oregonians (44)

Composer

Beethoven, Ludwig van, 1770-**1827** (939) Mozart, Wolfgang Amadeus, **1756-1791** (817) Schubert, Franz, 1797-1828 (654)Chopin, Frédéric, 1810-1849 (528)Liszt, Franz, 1811-1886 (381)

Performer

London Symphony Orchestra Philharmonia Orchestra (London,

England) (369) Royal Philharmonic Orchestra (283)

London Philharmonic Orchestra (261)7

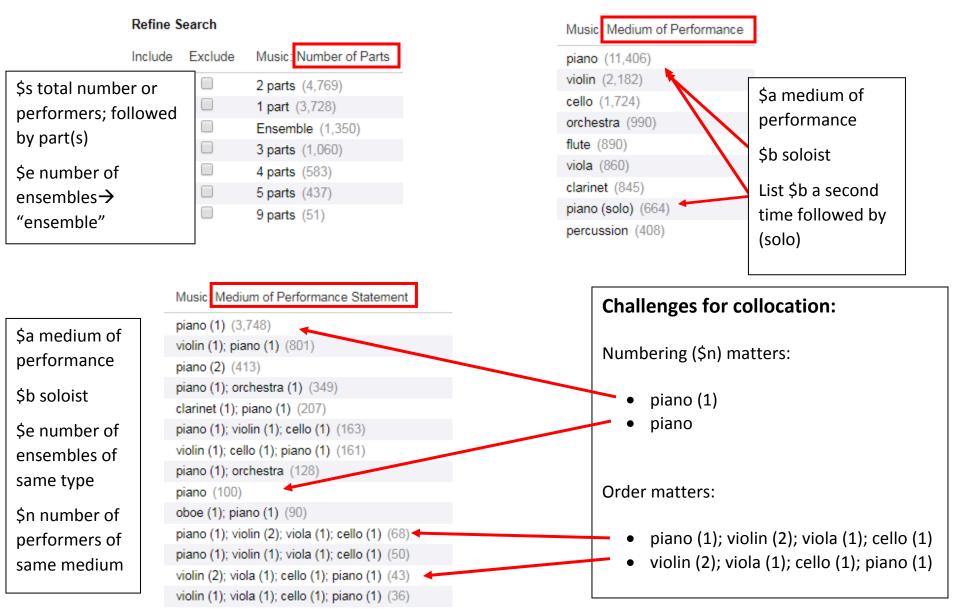
Jandó, Jenő, 1952- (229)

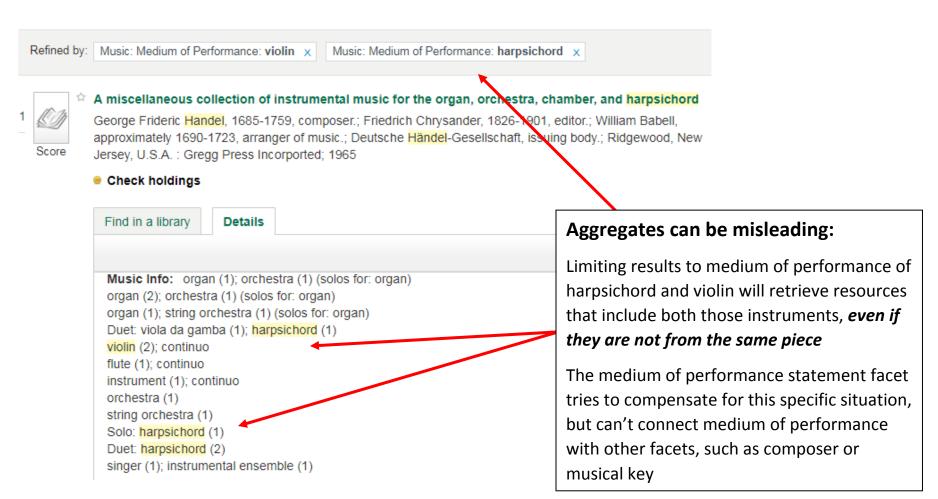
Audience

Children (28,508) Adults (4,887) General audience (3,195) School children (1,768) Specialized audience (1,134)

382: Faceting on Medium of Performance

Facets shown after keyword search on "piano"





Try it out:

http://alliance-primo-

sb.hosted.exlibrisgroup.com/primo_library/libweb/action/search.do?vid=UO_NRWG

(https://tinyurl.com/ydea3veq)

Send feedback and suggestions to:

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