

| New LC Fields/Subfields: In recent |
|---|
| years, many new fields and subfields |
| have been introduced into MARC21 |
| that can prove useful when leveraged |
| in a faceted discovery interface. In this |
| presentation, we will look at several of |
| these, describing how we incorporated |
| them into Primo and discussing the |
| challenges we encountered. |

New fields for non-genre/form info: In 2007 the Library of Congress (LC) began a project to create a new genre/form vocabulary with the intention of moving information describing what a resource is out of topical subject fields and into a separate genre/form field. Although, the terms in red were incorporated into this new vocabulary, something had to be done with the related information in black that was also part of the existing Library of Congress subject headings.

| To account for this information, LC |
|---|
| created some additional new |
| vocabularies, including LCDGT for |
| demographic group terms. There is a |
| new MARC field (386) to record |
| creator demographic group terms, |
| which we display and facet in Primo as |
| shown here. This facet is |
| straightforward to create, but there |
| are many questions about best |
| practices for choosing what data to put |
| in this field. |

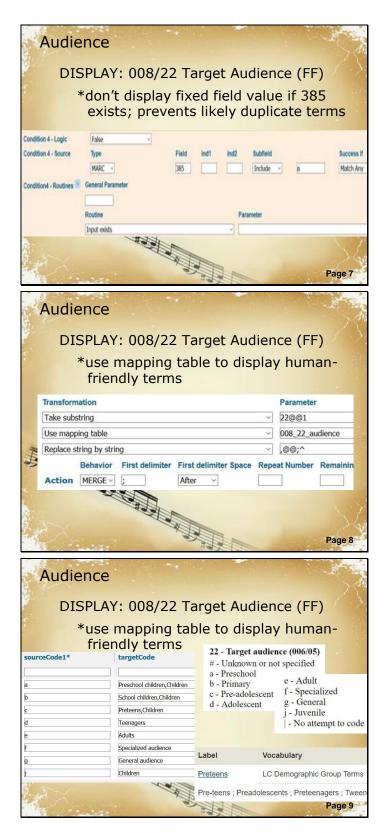
| | | Creator Demographic Group |
|---|-------------------------------|-------------------------------------|
| | | Men (547) |
| Library of Congress | | Americans (500) |
| | | Women (226) |
| Demographic Group | | African Americans (115) |
| | Creator Demogra | Britons (115) |
| Terms (LCDGT) | Men (2,685) | English (105) |
| | Americans (918) | Authors (94) |
| | French (675) | Statesmen (93) |
| English dupper the Manage suthans | Women (612) | Inventors (86) |
| English drama \$x Women authors | Gay men (451) | Scientists (84) |
| | Britons (384) | Printers (83) |
| | English (368) | Slaves (74) Politicians (47) |
| Refined by: Genre: Drama x Original Language: English x | Jews (229) | Activists (45) |
| Creator Demographic Group: Women x Creator Demographic Group: English x | Germans (217) | University and college faculty memb |
| | Australians (96) | Journalists (35) |
| - a a b | Estonians (74) | Immigrants (33) |
| Language: English | Mexicans (73) | Poets (29) |
| Subjects: English drama 18th century; English drama Women authors | Argentines (63) | Jews (28) |
| Genre/Form: Drama; Drama; Acting editions. | Brazilians (62) | Clergy (27) |
| Work Information: Time Period of Creation: Eighteenth century: | Norwegians (59) | |
| Original language: English; | New Zealanders (| 41) |
| | Greeks (34) | |
| Creator Demographic Group: Women; English; Britons | | |
| | Turks (23) Portuguese (14) | |



Demographic group terms for audience may be recorded in the new 385 field, which we also display and facet. In the audience PNX display field, we combine information from three different sources: the audience code in 008, the recently-created 385 field and the audience note field.

Display of the 385 field is straightforward and the rule follows the pattern used in Primo for displaying subject fields.

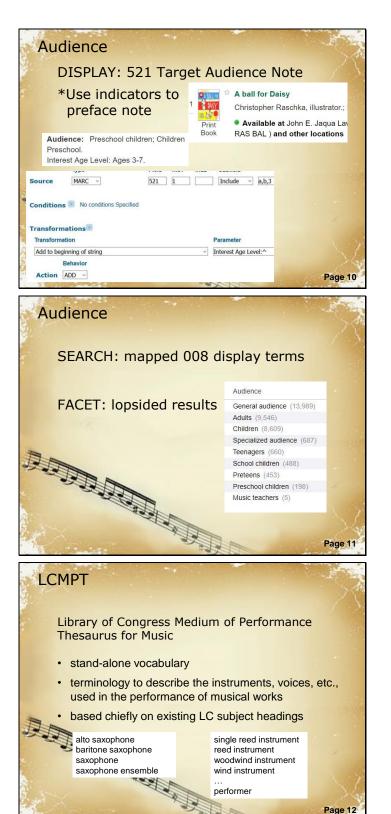
Positions in MARC 008 can have different meanings depending on record format. The audience fixed field is not used in all record formats. In the map format, this byte has a completely different meaning. If maps are not excluded from this rule, you will get odd results, such as all of your quadrangle maps having an audience of preschool children. We therefore add conditions to exclude the record formats, such as maps, that do not include audience.



We also added a condition to ignore the fixed field if the 385 field also exists. This is done to reduce redundancy in display and would be unnecessary if Primo de-duped PNX display fields.

We then isolate the value of the audience fixed field and send it to a mapping table to turn it into a humanfriendly value for display.

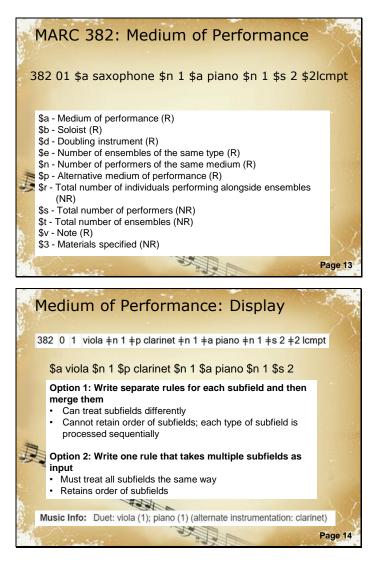
This is our mapping table, which we use for display, search and faceting. Because we also use the textual terms from the LCDGT vocabulary for faceting, we chose terms that matched that vocabulary to improve collocation. The label for the value "c" in the MARC format is "pre-adolescent," but that is a cross-reference for preteens in LCDGT so we used "Preteens" as our label.



Finally, we display the audience note. This field includes indicator values that mark narrower meanings. We add prefixes to the note display based on these indicator values where applicable, as shown here with 1st indicator 1 for interest age level.

We made sure to map the coded values from the fixed field to textual terms in the search index. Because of the way Primo weights facet values, the facet results are dominated by the fixed field terms and it is hard to find examples with LCDGT. It's also not clear how useful the general, adult and specialized audience values are since they are much less consistently used.

Medium of performance is another type of information that is commonly combined with genre in LCSH. LC and the Music Library Association have developed a new vocabulary called Library of Congress Medium of Performance Thesaurus for Music or LCMPT. LCMPT was created as a new home for this information and the 382 field was added to MARC to support it.



As you can see by the number of subfields, 382 is designed to support more complex details about medium of performance than LCSH. It was also intended to be useful in a faceted environment.

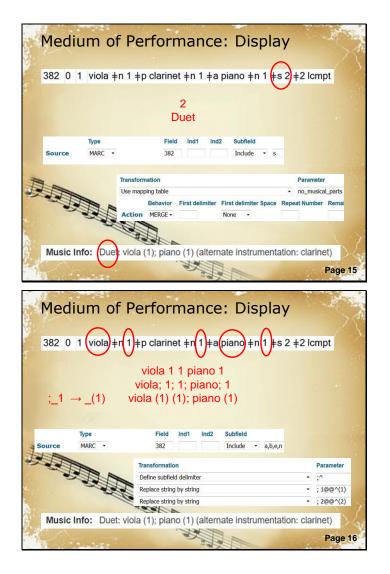
Looking at the raw 382 field at the top of this slide, it is clear that some intervention is needed to make this new data usefully displayable and searchable in Primo.

Although the Primo norm rules provide powerful tools for manipulating MARC data, there are some limitations on what is possible, especially for complex fields with many subfields. There are two approaches that can be used to deal with fields that include more than one type of subfield.

The first approach is to process each type of subfield separately and then combine them. This allows you to treat specific subfields differently, but it doesn't preserve the order of the subfields. That is, you could get all the subfield a's followed by all the \$n's.

The second approach is to process the different types of subfields with a single rule. In this case, you preserve the order of the data, but you can't do something different to subfield a from what you're doing to subfield n.

We used a combination of both approaches to turn 382 into something eye-readable. I will now walk through how we got from the raw MARC at the top of this slide into the humanreadable display at the bottom.



The first rule that applies takes subfield s, a non-repeatable subfield, as input. Subfield s should contain a number representing the total number of performers. We use a mapping table, which I'll show later, to change numbers into words for display. Here the rule takes the input of 2 and maps it to the word Duet.

The second rule takes its input from multiple subfields. The starting input for this rule is the top red line that says "viola 1 1 piano 1" Notice that the order is preserved, but there's no way to identify which data came from what subfield.

We start with the transformation to define a subfield delimiter. We use a semicolon and space, which results in the second line where the data from each subfield is separated by a semicolon.

We then take advantage of the fact that we can identify numbers to remove the semicolon preceding any number and instead put the number in parentheses. This is a situation that is crying out for a regular expression. There actually is a transformation in the documentation that looks like it would be helpful here, but unfortunately, that function is broken. So we explicitly wrote a replace transformation for the numbers 1-9. This will fail if there are 10+ performers coded as playing the same instrument, but that is uncommon.

| 3 | 382 0 1 viola + n 1 + p | clarinet +n1)+a | biano +n1 +s | 2 +2 lcmpt |
|---|--------------------------|--|-------------------------|----------------------|
|) | $(1) \rightarrow 1$ vic | ı (1) (1); piano ıla (1); piano (1 ɔla (1); piano (1 |) | |
| | Replace string by string | • | ; 9@@^(9) | |
| | Replace string by string | • |) (1)@@) | |
| | Replace string by string | • |) (1)@@) | |
| - | Replace string by string | • |) (1)@@) | |
| | Replace string by string | • |) (1)@@) | |
| | Replace string by string | • |) (1)@@) | |
| | Replace string by string | • |) (2)@@) | •) (9)@@ |
| | | Behavior First | delimiter First delimit | er Space Repeat Numb |

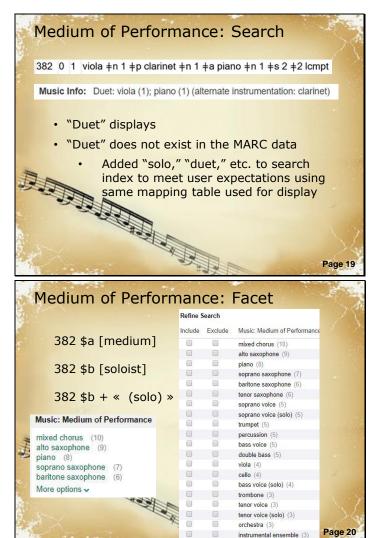
| 382 (|) 1 viol | la ‡n 1 ‡p clarinet ‡n 1 ‡a piano ‡n 1 ‡s | s 2 ‡2 lcmpt |
|--------|----------------|--|---------------------------------|
| | (a | clarinet alternate instrumentation: clarinet) | |
| Source | Type MARC - | Field Ind1 Ind2 Subfield 382 Include - p | |
| | | Transformation Define subfield delimiter • | Parameter |
| | | Add to beginning of string | ' (alternate instrumentation |
| | | Add to end of string |) |
| | 20 | Behavior First delimiter First delimiter Space Rep | eat Number Remaining de |

We have another problem, though, which is that subfield n is used both for the number of performers in the main medium of performance statement and also after doubling and alternate instrumentation as shown here with the clarinet part. We have no way to distinguish these different meanings of subfield n, which is causing the multiple appearance of the number 1 after viola.

We undertake another series of find and replace actions to remove extra numbers. Because we cannot do this conditionally, we tried to include enough transformations to account for the vast majority of situations. However, it is still possible to find medium of performance statements in our catalog with extra numbers if you know where to look.

Finally, the merge action for this rule pre-pends a colon and space to the instrumentation if there is preceding text, such as duet.

The last thing to deal with in this example is the alternate instrumentation in subfield p. Given our choice between preserving the order of the data and thus associating clarinet with the instrument that it is an alternative for and being able to process the subfield separately, we have chosen the latter. This enables us to separately label the alternate instrumentation.



For the most part, we have just added the 382 subfields to the general search index without any intervention. However, we have included rules to index the words, such as duet and alternate instrumentation, that we generated for display. It turns out that at least some users do want to search by words like "solo."

Currently, we have implemented three facets based on medium of performance in the 382 field.

The first one is a facet for instrument, voice or ensemble type. This includes everything from \$a medium of performance and \$b soloist. The terms from \$b are double-posted with the qualifier solo to help users find pieces that have solo parts for their instrument.

This seems pretty straightforward, but there are a couple ways this facet behaves that likely clash with user expectations or preferences.

| | um of Performance | | | | |
|---|------------------------------|----------------|--------------------------------------|---|---------|
| piano (2,44 violin (2,26 cello (1,206 | 9) | Results 1 - 20 | of 2,145 for nrwg music | Sorted | by: R |
| viola (652) clarinet (46 More option | 6) | Refined by: N | usic: Medium of Performance: plano x | Music: Medium of Performance: violin | |
| | | eAudio | Access Online Details | r, arranger of music.; Maria Clementi, (f den : Brilliant Classics; 2015 | "Idinis |
| efine Search clude Excl | | of Performance | Results 1 - 20 of 2,564 for nrwg mus | ic OR | |
| | piano (2,440) | | | | |
| | violin (2,269) | | Refined by: Music: Medium of Perform | nance: violin × piano × | |
| | | | | | |
| 2 | cello (1,206) | | | | |
| | cello (1,206) viola (652) | | Complete music for s | olo plano & violin and plano | |

Medium of Performance: Facet Music: Medium of Performance piano (2,440) Results 1 - 20 of 2,145 for nrwg music Sorted by: F violin (2,269) cello (1,206) viola (652) clarinet (466) AND Refined by: Music: Medium of Performance: plano x Music: Medium of Performance: violin x More options ~ Complete music for solo piano & violin and piano 1 ()) Luigi Dallapiccola, 1904-1975, composer, arranger of music.; Maria Clementi, (Piani Fanfoni, 1964- Instrumentalist.; Leeuwarden : Brilliant Classics; 2015 oAudio Piano concerto ; Violin concerto ((اله Kurl Atterberg, 1887-1974, composer.; Dan Franklin Smith, instrumentalist.; Christian instrumentalist.; B. Tommy Andersson, conductor.; Gävle symfoniorkester, instrument Audio CD 01999 Available at Knight Library Audio & Video Room (COMPACT DISC CX5963) Find in a library Details orchestra. op. 7. E mino rmat: 1 audio disc (72 min.) : digital, stereo ; 4 3/4 in. Genre/Form: Concertos; Concertos; Compact discs Additional subjects: Concertos (Piano); Concertos (Violin) OCLC Number: 53306586 Alma IZ record number: 9986955601852 Alma IZ record number: 99072176930001451 Music Info: *plano (1); orchestra (solos for: plano) Violin (1): orchestra (solos for: violin) Page 22 First of all, users probably want to find pieces that include all the instruments or voices that they select. That is, they want to do a Boolean AND search.

If they search by selecting terms consecutively, which is the only way to do it with the short list shown at the top of the slide, they will get an AND search.

However, if they select multiple terms at once from the longer "refine my results" list, Primo will perform an OR search. This makes sense from the standpoint that for most long lists, an OR search would be preferred, and it's desirable for all the "refine my results" lists to exhibit the same behavior. But it probably isn't what users want from this particular facet most of the time.

Another important thing to notice is that the facets are working against bib records for the whole resource being described so violin and piano just have to be somewhere in the record.

They don't have to be referring to the same piece as in this example which includes a solo piano concerto and a solo violin concerto.

| Include Exclude Music: Number of Performers 2 2 performers (107) 4 performers (84) 4 1 performers (84) 1 performer (44) 6 3 performers (14) 5 performers (12) 7 5 performers (10) 14 performers (10) 7 7 performers (10) 11 performers (9) 10 10 performers (7) 6 performers (7) 20 performers (4) 20 performers (4) 20 performers (4) | Refine S | Search | | |
|---|----------|---------|-----------------------------|--|
| 4 performers (84) 1 performers (84) 3 performers (84) 9 9 9 9 9 9 14 15 14 15 14 15 14 15 14 15 14 15 14 15 16 17 17 18 19 11 10 | Include | Exclude | Music: Number of Performers | |
| 1 performer (44) ensemble (42) 3 performers (14) 5 performers (12) 14 performers (10) 7 performers (10) 11 performers (9) 10 performers (7) 6 performers (5) | | | 2 performers (107) | |
| ensemble (42) 3 performers (14) 5 performers (12) 14 performers (10) 7 performers (10) 11 performers (9) 10 performers (7) 6 performers (5) | | | 4 performers (84) | |
| Construction (%2) Construction (%2) | | | 1 performer (44) | |
| 5 performers (12) 14 performers (10) 7 performers (10) 11 performers (9) 10 performers (7) 6 performers (5) | | | ensemble (42) | |
| | | | 3 performers (14) | |
| 11 performers (10) 11 performers (3) 10 performers (7) 6 performers (5) | | | 5 performers (12) | |
| 11 performers (9) 10 performers (7) 6 performers (5) | | | 14 performers (10) | |
| 10 performers (7) 6 performers (5) | | | 7 performers (10) | |
| G performers (5) | | | 11 performers (9) | |
| | | | 10 performers (7) | |
| 20 performers (4) | | | 6 performers (5) | |
| | | | 20 performers (4) | |

| Refine S | earch | |
|----------|----------|---|
| Include | Exclude | Music: Medium of Performance Statement |
| | | soprano saxophone (1); alto saxophone (1); tenor saxophone (1); baritone saxophone (1) (58) |
| | | alto saxophone (1); piano (1) (39) |
| | | saxophone (1) (26) |
| 8 | | saxophone (1); piano (1) (18) |
| | <u>_</u> | alto saxophone (1) (10) |
| | | soprano saxophone (1); piano (1) (7) |
| | | baritone saxophone (1); piano (1) (6) |
| | | saxophone (1); plano (1); bass (1); drums (1) (5) |
| | | saxophone (2) (5) |
| | | alto saxophone (1); orchestra (1) (5) |
| | | tenor saxophone (1); piano (1) (5) |
| | | alto saxophone (2) (4) |
| | | alto saxophone (2); tenor saxophone (1); baritone saxophone (1) (4) |
| | | saxophone (4) (4) |
| | | horn (1); piano (1) (4) |

In addition to medium of performance, we also implemented a facet for total number of performers if that is given.

It doesn't attempt to count ensembles, but just lists the presence of an ensemble. Some of the larger numbers of individual performers should possibly be double-posted under ensemble, but we're not doing that right now.

Again, the facets are working against the bib so if you pick 1 performer and saxophone, there's no guarantee that all the results will include a piece for solo sax. However, the results are not as misleading as they might be thanks to relevancy ranking and the fact that you can only ever see the top twenty values in a given facet.

In order to compensate somewhat for that weakness, we have also created a medium of performance statement facet, which allows users to specify exactly what combination of instruments or voices they are looking for.

| Challenges for Collo | ocation |
|--|--|
| | Music: Medium of Performance Statement |
| | piano (1) (3,748) ★ |
| | violin (1); piano (1) (801) |
| | piano (2) (413) |
| Order matters: | piano (1); orchestra (1) (349) |
| | clarinet (1); piano (1) (207) |
| piano (1); violin (2); viola (1); cello (1) violin (2); viola (1); cello (1); piano (1) | piano (1); violin (1); cello (1) (163) |
| | violin (1); cello (1); piano (1) (161) |
| | piano (1); orchestra (128) |
| 11 m | piano (100) ★ |
| | oboe (1); piano (1) (90) |
| | piano (1); violin (2); viola (1); cello (1) (68) |
| | piano (1); violin (1); viola (1); cello (1) (50) |
| A A A A A A A A A A A A A A A A A A A | violin (2); viola (1); cello (1); piano (1) (43) |
| the state | violin (1); viola (1); cello (1); piano (1) (36) |
| | Page 25 |

There are a couple places where this facet doesn't provide the collocation that users will expect. One is due to the fact that the MARC format allows you to omit the 1 for any instrument or voice that has only a single performer. Since the facets are looking at literal text strings, they see piano and piano followed by 1 as two different things. This is an old screenshot and we have since been able to resolve this issue by supplying a 1 following any medium of performance that doesn't have a number of performers specified.

The thornier issue is that the instruments or voices are not listed in a standard order, which again results in different strings that don't collocate. The two lines marked with arrows both contain the same instrumentation, just in a different order. This is unlike LCSH headings for medium of performance, where there are rules for ordering the instruments so that correctlyconstructed headings do collocate. As far as I can tell, reordering the instruments is beyond the capability of Primo's data manipulation tools so the only solution would be to do some massaging of the data before sending it to Primo.

Relationship Designators Personal main entry: 100 1 \$a Poulin, Richard, \$e author. Corporate added entry: 710 1 \$a United States. \$b Department of State, \$e issuing body. Personal added entry: 700 1_ \$a Soares, Paul \$c (Writer on computer games), \$e author, \$e illustrator. ATTEN AND IN Page 26 **Composers and Performers** Performer Top results for operas Wiener Philharmoniker (546) Philharmonia Orchestra (London, England) (542) Composer Domingo, Plácido, 1941-Verdi, Giuseppe, 1813-1901 London Symphony Orchestra (2.913)(466) Mozart, Wolfgang Amadeus, Callas, Maria, 1923-1977 1756-1791 (2.403) (464)Wagner, Richard, 1813-1883 More options v Puccini, Giacomo, 1858-1924 (1,770) Rossini, Gioacchino, 1792-1868 (1,398) More options v Page 27 **Composers and Performers** Any record 100/700 \$e = composer 100/700 \$4 = cmp Record format = score (ldr/06 = c or ldr/06 = d) 100 any 700 2nd indicator 2 \$t (title) exists Record format = musical sound recording (ldr/06 = j) 100 240 (uniform title) exists

\$t (title) exists

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Carling and

700 2nd indicator 2

Implementation of the RDA cataloging rules also led to new fields in MARC and increased usage of some existing fields and subfields. We've tried to find a way to put these to good use.

For example, we've received requests to make more use of relationship designators for searching and faceting in Primo.

We've created three new facets – one each for Composers, Directors, and Performers. Here are the top results from a search for operas.

We rely on a combination of approaches to generate the composer facet. We use relator terms or codes where they exist, but many records lack these. For records on a score format, we include all 100 fields and names from analytic name-title access points under the assumption that these are all composers. For records coded as musical sound recordings, we only infer that the 100 represents the composer if a uniform title is also present in 240, but we again include all the names from name-title entries in 700 with 2nd indicator 2.



Humpty Dumpty Problem for the organ, a mber, and harps George Frideric Handel. 1685-1759, composer. Friedrich Chrysi approximately 1690-1723, arranger of music. Deutsche Händel-Jersey, U.S.A.: Gregg Press Incorported. 1965 nder, 18 editor William Babeli Check holdings Find in a library Details Aggregates can be misleading: Limiting results to medium of performance of Music info: organ (1), orchestra (1) (solos for organ organ (2), orchestra (1) (solos for organ) harpsichord and violin will retrieve resources organ) os for: organ that include both those instruments, even if a da gamba (1); barp they are not from the same piece The medium of performance statement facet tries to compensate for this specific situation tra (1) but can't connect medium of performance inpsichord (2) with other facets, such as composer or al ensemble (1) musical key Teles and a second Page 30

Chicken-and-egg question or What comes first, field use or discovery tools?

New fields that aren't widely used result in incomplete recall of results when used as faceting values. This causes users to see them as inaccurate, and degrades trust. This situation makes institutions hesitant to develop facets for new fields - which makes their cataloging shops hesitant to spend time encoding them. This results in the new fields not being widely used. Rinse, repeat.

Retrospective conversion projects can increase the field use, but they sometimes use incomplete or inaccurate algorithms to batch process records, and can result in degradation of trust in the converted data.

Humpty Dumpty - aggregates of multiple works

Users limiting by multiple instruments will get results with those instruments present in the record - but that doesn't mean the instruments all appear in the same piece. We've tried to improve this situation by providing the Medium of Performance Statement facet, but if the user is looking for a specific medium of performance statement in a piece by a specific composer or in a specific key, they're back to the aggregate problem.

This is a general problem for resources that include multiple discrete works, such as music compilations on CD and literary anthologies.



Using facets in a material-specific interface or Primo view

One reason that many libraries in our consortium haven't implemented these facets is that there are usability challenges with a long list of facets. Many of these fall "below the fold," making them easy for users to miss. Amazon and other retails sites often compensate for this problem by showing a shorter list of facets that are contextually linked to the user's search. This isn't possible in Primo, but one way to work around this limitation is to create a separate, materialspecific interface.

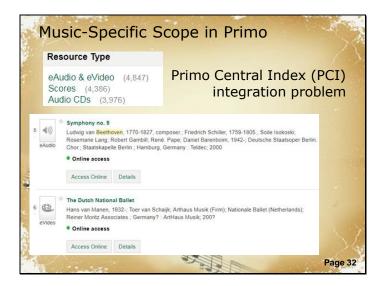
There are some caveats to this approach:

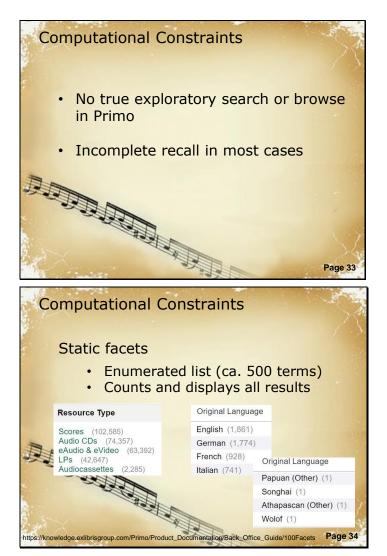
You have to market that interface heavily to make sure users are aware of it.

It leads to using multiple interfaces instead of one.

How easy is it to switch between the general search interface and the material-specific one"? Will users get confused about which interface they're in?

Looking at the possibility of creating a format-specific interface segues us into...





PCI integration with customized facets is not possible – this makes it difficult to use new facets to create formatspecific scopes (and therefore views) for music or videos in Primo.

The lack of PCI integration creates some facet limitations for us, too. OTB facets always have to be present to pull in PCI resources, and they pull in things that we don't want to see (ex. Videos pulled into a music-specific view due to "Audiovisual" resource type used for PCI.)

There is no true exploratory search due to Primo <u>facet</u> limitations. These limitations lead to incomplete result sets in most cases. For example, contrast the behavior for:

static facet = all results; relatively short list of enumerated values; marc language code list (close to 500 values)

https://knowledge.exlibrisgroup.com/ Primo/Product_Documentation/Back_ Office_Guide/100Facets

| Refine S | earch | | |
|----------|---------|-------------------------------|--|
| nclude | Exclude | Genre | |
| | 6 | Scores (31,733) | Dynamic facets |
| 0 | | Scores and parts (18,058) | Open-ended list |
| | | Music (12,929) | |
| | | Excerpts (12,912) | Displays top 20* terms |
| | | Songs and music (9,299) | from records ranked in |
| | | Musical settings (7,954) | |
| | | Chamber music (7,633) | top 200* results |
| | | Sound recordings (7,400) | Displays count (and |
| | | Art music (6,112) | |
| | | Parts (Music) (4,404) | retrieves) matching |
| | | Excerpts, Arranged (3,893) | records from top 50,000 |
| | | Songs (3,454) | |
| | | Plano music (3,043) | results |
| | | Arrangements (Music) (3,014) | |
| | | Instrumental settings (2,452) | |
| | | Sonatas (2,252) | |
| | | Suites (1,991) | *Default values; can be increased |
| | | Orchestral music (707) | somewhat, but trade-off on |
| | | Motion picture music (517) | performance |
| | | Instrumental music (292) | A Contraction of the second se |
| | | | Page 35 |

Constraints on Manipulation

Norm Rules in Primo Back Office

- Browser-based GUI interface with hard-coded conditions and transformations
- There's no way to move just one rule of a group to a group in another rule set.
- OTB conditions/transformations can't always target really specific data strings.

No.

• Some transformations are broken, which requires creative multi-step workarounds.

dynamic facet = displays only top 20 terms from top 200 results; hit count is from top 50,000 records only.

https://knowledge.exlibrisgroup.com/ Primo/Product_Documentation/Back_ Office_Guide/100Facets

Constraints on manipulating rules due to browser-based GUI with hard-coded conditions and transformations. We're *mostly* able to achieve our goals with the interface, but there are some problems that are real bugbears here.

Long page load times

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No way to move just one rule of a rule group to the same group in a different set - you have to replace the entire group.

Conditions and transformations are hard-coded, and they are not always flexible enough to make really targeted changes and data manipulations. Broken transformation – Replace Last RegExp By String

With this transformation, it would be possible to easily handle some of the end-of-string punctuation (particularly useful with name normalization) issues that we've encountered.

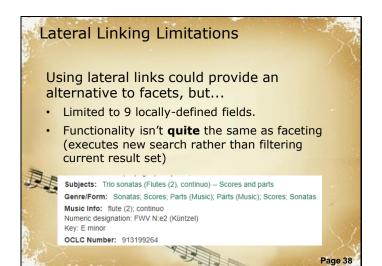
Without it, we're forced to use clunky multi-step workarounds, or just live with "lesser evils" in data display. SF#00177731 (WWU) in Development status since 12/21/2015.

Video at

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http://www.screencast.com/t/8ohPUN MkNs2. Feel free to reference this case number if you open your own! :-D

Primo Indexing Limitations MARC field-specific search and browse These features have garnered some interest with our members We're limited to 50 local search indexes in Primo, and none will pull in PCI resources. OTB indexes have fields grouped together. Browse indexes are significantly more limited in number and data source.



Primo indexing limitations

There is interest in our consortium in MARC field-specific search and browse indexes. These are not currently supported by Primo due to limitation on number of locally-configurable search fields and lack of PCI integration, which we've mentioned earlier. Using OTB indexes to get the PCI results incorporated means we can't have a tag-specific index. Browse indexes are very limited in number and function.

We could use lateral-linking fields to deliver partial functionality in this regard, but there are some critical...

Hyperlinking (Lateral linking) field limitations

Current limit in Primo is 9 laterallylinked fields. With the expansion of display fields to 250 in number, we'd love to have additional fields set aside for lateral linking. (Maybe the 13X and 23X fields? Or could Primo support a lateral-linking "toggle" for every local field? Then institutions could decide field-by-field what creates a link and what doesn't.)

Lateral links provide functionality that's similar to faceting, but not equivalent (Executing new keyword/exact search rather than limiting current results). But institutions may prefer this to creating

Getting More out of MARC with Primo Kelley McGrath and Lesley Lowery May 4, 2018

facets for certain metadata fields. (Depends on local user preference and institutional needs).

https://knowledge.exlibrisgroup.com/ Primo/Product Documentation/Back Office Guide/100Facets

In summary, we've been able to achieve a LOT with Primo's norm rules to expose new, more granular metadata to users for faceting. This will help both nascent and advanced researchers locate resources that can advance their scholarly work.

The increasing use of the new MARC fields makes this kind of flexible innovation more important as time goes on – and more useful. OCLC has a longitudinal study of field use going on at

http://experimental.worldcat.org/mar cusage. Check it out!

Ultimately, we can use either Primo or Google Analytics to assess the use of "clickable" elements like facets and hyperlinked display fields in Primo.

Moving (and Looking) Forward

We've been very successful in using new metadata fields to set up facets for Alliance. member institutions' use.

As time goes on and these newer fields are more widely used, the facets will prove more accurate and more helpful. Stats on field use are available at tp://experimental.worldcat.org/marcusage/

We can review facet use with Primo Analytics. Page 39

Receiving/reviewing requests for new

facets, display fields, and search

designators, a general relationship

Will Primo VE allow institutions to take

advantage of new metadata through a

work in progress. Stay tuned, and be ready to advocate for this if it's

customization structure that's as flexible as NRs? Early indications are that it won't – but VE is very much a

indexes. (e.g. using specific

Next up for us:

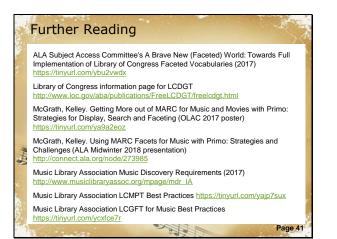
facet)

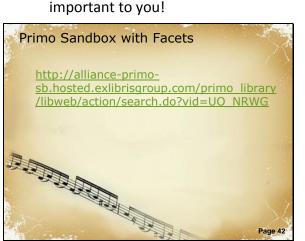
Moving (and Looking) Forward

We're investigating additional facets on request.

- Specific relationship designators
- Would a general "relationship" facet be useful?

We have lots of questions about Primo VE! Will Primo normalization rules still exist? Will Primo VE have the flexibility of Primo for translating metadata for faceting? If not, we'll need to advocate for





ALA Subject Access Committee's A Brave New (Faceted) World: Towards Full Implementation of • Library of Congress Faceted Vocabularies (2017) https://tinyurl.com/ybu2vwdx

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- Music Library Association Music Discovery Requirements (2017) http://www.musiclibraryassoc.org/mpage/mdr IA
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