# Remapping Problematic LCSH in TRLN Discovery

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# Introduction (About me)

- Library Data Strategist, Head of Library Data Strategy & Services
- TRLN Discovery Developer Team

# Introduction (About the shared online catalog)

- TRLN initiative since 2007
- Legacy to now – Endeca
  - http://search.trln.org/
  - https://search.lib.unc.edu/
  - https://search.lib.unc.edu/filmfinder/
- Coming soon – TRLN Discovery
  - https://disco-qa.lib.unc.edu/

# "Expand to TRLN"

# TRLN Discovery: Shared index: Solr

- Solr
  - open source
  - index + search

":{
:true,


main_t:goats AND access_type_f:Online AND institution_a:unc"}},
mFound":129,"start":0,"docs":[

b3547657",
"{\"href\":\"http://purl.access.gpo.gov/GPO/LPS4781\",\"type\":\"fulltext\",\"text\":\"Open Access resource -- Full text ava
uggest":["United States. Agricultural Statistics Board",
 States. National Agricultural Statistics Service"],
:["{\"name\":\"United States. Agricultural Statistics Board\"}",
e\":\"United States. National Agricultural Statistics Service\"}"],
:["unc"],
a":["LCCN: 00230086",
em Number: 0021-N (online)"],
_a":["English"],
":"b3547657",
e_a":["Available"],
y_current_a":["Annual"],
e_a":["eng"],
d":"OCLC44616828",
k_a":["{\"title\":[\"Sheep and goats (Online)\"]}"],
ggest":["Sheep and goats."],
in":"Sheep and goats.",
rt_ssort_single":"Sheep and goats.",
ype_a":["Online"],
ion_a":["unc",


,
ber":"44616828",
main_a":["{\"type\":\"imprint\",\"value\":\"Washington, D.C. : Agricultural Statistics Board\"}"],
eral_a":["\"MtAn 5-2,\" Jan. 29, 1999-",
ption based on: Jan. 1, 1995; title from screen caption.",
 issue consulted: Feb. 1, 2008."],
mary_a":["This full-text file contains the number of sheep, value and classes; Angora goat and all goat inventory and value
ons keeping sheep; operations and inventory by size groups, regions, and U.S.; total number on feed for slaughter. Statistic

# TRLN Discovery: Shared catalog application: Blacklight

- Blacklight
  - open source
  - library-created
  - discovery interface

UNC | UNIVERSITY LIBRARIES

| Title ▾ | goats | Search 🔍 |

Advanced Search

🔄 Start over | Edit Search | You searched for: | Title › goats ✖ | Access Type › Online ✖

Sort by Relevance ▾ | 20 per page ▾

earching:

**UNC Libraries**

UNC, Duke, NCSU, NCCU Libraries (378)

Limit your search

| ☑ Available Online | 132 |

Availability ▾

| Available | 132 |

Library Location ▾

| **UNC Chapel Hill** | 5 |
| ▸ Davis Library | 5 |

1. Sheep and goats.

Washington, D.C. : Agricultural Statistics Board

Government publication, Journal, Magazine, or Periodical

☑ Open Access resource -- Full text available

2. Rugged Rocky Mountain sheep & goats : rough and tough mountain climbers.

[Provo, UT] : USDA, Forest Service , [2000]

Book, Government publication

☑ Open Access resource -- Full text available

":{
:true,


main_t:goats AND access_type_f:Online AND institution_a:unc"}},
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b3547657",
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":"b3547657",
e_a":["Available"],
y_current_a":["Annual"],
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d":"OCLC44616828",
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ons keeping sheep; operations and inventory by size groups, regions, and U.S.; total number on feed for slaughter. Statstic

# TRLN Discovery: Shared data model: Argot

- Argot is our name for our shared data model
  - MARC -> Argot
  - Digital collections -> Argot
  - ICPSR DDI metadata -> Argot
- Argot specification is publicly available

# Representing subject data in Argot

- subject_headings
- subject_suggest
- subject_topical
- subject_chronological
- subject_geographic
- subject_headings_remapped

# Subject data in Argot: subject_headings

- indexed for keyword and subject search
- displayed in full record view with adaptive hyperlinking

=650 \0$aAbolitionists$zNorth Carolina$xHistory$y19th century$vSources.

```
"subject_headings": [
    "Abolitionists -- North Carolina -- History -- 19th century -- Sources
    ]
```

## This item is about

- Antislavery movements > North Carolina > Sources
- Abolitionists > North Carolina > History > 19th century > Sources

# Example mappings: subject_headings

| element/field | subelement/subfield(s) | constraints | processing_type |
|---|---|---|---|
| 653 | a | i2 =~ /[ 012345]/ | subelement_to_value |
| 662 | abcdfgh | none | concat_subelements |
| 656 | akvxyz | none | concat_subelements |
| 657 | avxyz | none | concat_subelements |
| 600 | abcdfghjklmnopqrstuvxyz | none | concat_subelements |
| 610 | abcdfghklmnoprstuvxyz | none | concat_subelements |
| 650 | abcdgvxyz | none | concat_subelements |
| 611 | acdefghklnpqstuvxyz | none | concat_subelements |
| 647 | acdgvxyz | none | concat_subelements |
| 630 | adfghklmnoprstvxyz | none | concat_subelements |
| 651 | agvxyz | none | concat_subelements |
| 648 | avxyz | none | concat_subelements |

# Subject data in Argot: subject_suggest

- searched when you start typing in keyword or subject search box
- displayed in auto-suggest dropdown

=650 \0$aAbolitionists$zNorth Carolina$xHistory$y19th century$vSources.

```
"subject_suggest": [
  "Abolitionists -- North Carolina -- History -- 19th century -- Sources"
]
```

# Subject data in Argot: subject_topical

- populates "About Topic" facet

=650 \0$aAbolitionists$zNorth Carolina$xHistory$y19th century$vSources.

```
"subject_topical": [
  "Abolitionists", "History"
]
```

## About Topic

| | |
|---|---|
| Abolitionists | 47 |
| History | 35 |
| Antislavery movements | 28 |
| Slavery | 23 |
| African Americans | 11 |
| Fugitive slaves | 9 |
| Quakers | 9 |
| Slaves | 8 |
| Hedrick, Benjamin Sherwood, 1827-1886 | 7 |
| Politics and government | 7 |

more »

15 . 1

# Example mappings: subject_topical

| element/field | subelement/subfield(s) | constraints | processing_type |
|---|---|---|---|
| 600 | abcdfghjklmnopqrstu | none | concat_subelements |
| 600 | x | none | subelement_to_value |
| 610 | abcdfghklmnoprstu | none | concat_subelements |
| 610 | x | none | subelement_to_value |
| 611 | acdefghklnpqstu | none | concat_subelements |
| 611 | x | none | subelement_to_value |
| 630 | adfghklmnoprst | none | concat_subelements |
| 630 | x | none | subelement_to_value |
| 647 | acdg | none | concat_subelements |
| 647 | x | none | subelement_to_value |
| 648 | x | none | subelement_to_value |
| 650 | abcdg | none | concat_subelements |
| 650 | x | none | subelement_to_value |
| 651 | x | none | subelement_to_value |

| | | |
|---|---|---|
| 653 a | i2 = 4 | subelement_to_value |
| 653 a | i2 =~ /[ 0123]/ | subelement_to_value |
| 656 a | none | subelement_to_value |
| 656 x | none | subelement_to_value |

# Subject data in Argot: subject_chronological, subject_geographic

- populates "About Time Period" and "About Places" facets

=650 \0$aAbolitionists$zNorth Carolina$xHistory$y19th century$vSources.

```
"subject_chronological": [
  "19th century"
],
"subject_geographic": [
  "North Carolina"
]
```

## About Time Period

| | |
|---|---|
| 19th century | 22 |
| Civil War, 1861-1865 | 7 |
| 1775-1865 | 4 |
| 1865-1950 | 3 |
| 1861 - 1865 | 2 |
| 18th century | 2 |
| 1861-1865 | 1 |
| John Brown's Raid, 1859 | 1 |
| Revolution, 1775-1783 | 1 |

## About Places

| | |
|---|---|
| North Carolina | 52 |
| United States | 27 |
| Southern States | 5 |
| Ohio | 4 |
| Arkansas | 2 |
| Cabarrus County (N.C.) | 2 |
| Confederate States of America | 2 |
| Cottage Home Plantation (Lincoln County, N.C.) | 2 |
| Dallas County (Ala.) | 2 |
| Indiana | 2 |

more »

# Subject data in Argot: subject_headings_remapped

- NOT displayed in record, facets, or auto-suggest
- indexed for keyword and subject search

=650 \0$aIllegal aliens$zEurope.

```
"subject_topical": [
    "Undocumented immigrants"
],
"subject_headings": [
    "Undocumented immigrants -- Europe"
],
"subject_headings_remapped": [
    "Illegal aliens -- Europe"
]
```

## This item is about

- Undocumented immigrants > Europe
- Undocumented immigrants > Senegal

# Behavior in TRLN Discovery

- Search for subject: "illegal aliens"
    - 1993 results; not seen in About Topic facet, record; autosuggest issue
- Search for subject: "undocumented immigrants"
    - 1974 results; seen in About Topic facet, record

**Not perfect yet... Proof of concept stage! Some weird glitches to look into**

# What to remap and what to map it to?

- Initial list for proof of concept
- Not complete
- Need TRLN-wide agreement
- Governance for this still undecided
- **Your input needed**

# So what?

- This doesn't make our catalog unbiased or fully inclusive (c.f. Emily Drabinski)
- Can be seen as confusing to users – Is CU's approach better?
- Technically, not very difficult
- Small step = good step?