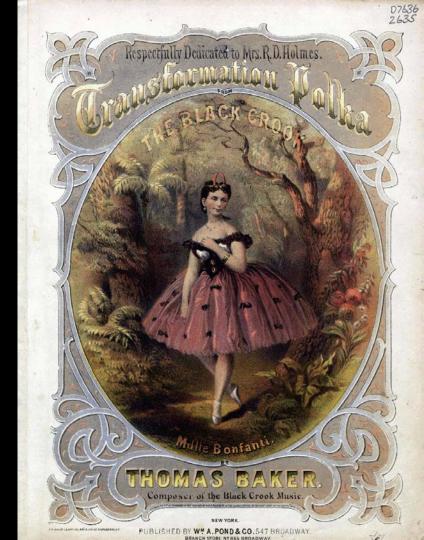
Fearless

Transformation:
Applying OpenRefine to
Digital Collections

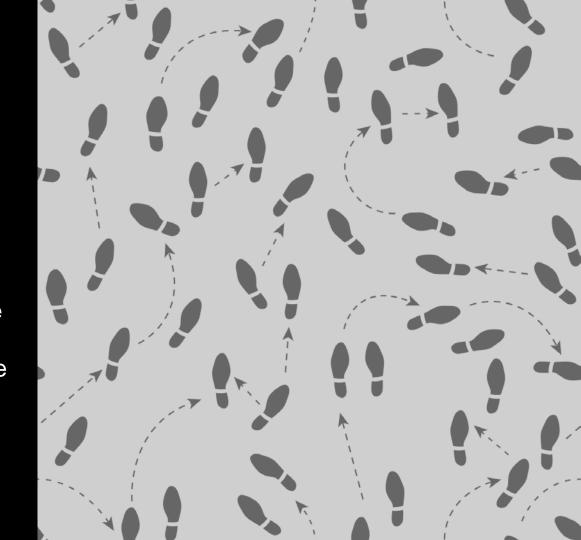
Kara Long
Catalog and Metadata Librarian
Baylor University Libraries

@thekaralong



A genda:

- The Spencer project
- Re-examining the workflow
- Implementing OpenRefine
- Other uses for OpenRefine in digital collections







LA VIVANDIERE





more an IRVING CAESAR

POPULAR PAINBERS TROM THE MUSICAL EXTRAUAGAN.

INK BAUM EARD / CZ

で

ERIC CHAPIN RIS. & THE PORBIDDEN LAND



the Beginning

Project started in 1999

TexTreasures Grant to digitize 1,000 pieces

Descriptive metadata loaded into ILS

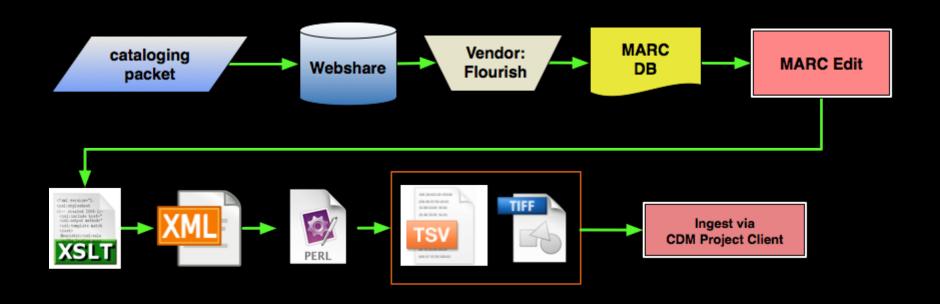
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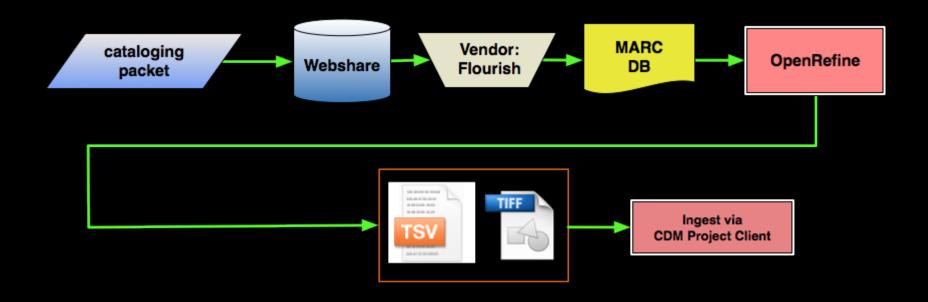




the Workflow



the Workflow Revised



#18853426

Botsford, George, 1874 - 1949. Grizzly bear. Words by Irving Berlin. As sung by Tim McMahon. N. Y., Ted Snyder Co. (Inc.), 1910. no pl. no.

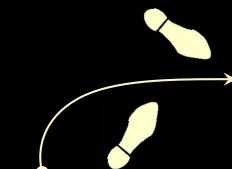
Lyrics with piano

01732

SPENCER

15-2

Fc: orange, bears, photo Tim McMahon. Bc: excerpts 2 songs, illus. covers.



STATUS BY APPT ONLY

BY APPT ONLY



Alt Title Grizzly bear

Note First line of text: Out in San Francisco where the weather's fair First line of chorus. Hug up close to your baby

Alt Title Frances G. Spencer Collection of American Sheet Music.



MARC

426135815

OCoLC

001

003

LEADER 00000ncm 2200000Ia 4500

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005
       20100607104730.0
008
       090717s1910
                      nyurga
035
       (OCoLC)426135815
040
       SST|cSST|dIYU
048
       vn01 | aka01
049
       IYUU
099
       Spencer D1732 .15
       Spencer D1732 .15-2
099
      Botsford, George, d1874-1949.
245 14 The dance of the grizzly bear / cwords by Irving Berlin ;
       music by George Botsford.
246 3 Grizzly bear
      iFirst line of text: aOut in San Francisco where the
       weather's fair
      |iFirst line of chorus:|aHug up close to your baby
246 1
       New York : bTed Snyder Co., cc1910.
260
       1 score (5, [1] p.); c35 cm.
300
       For voice and piano.
500
       cD1732 .15: illustrated t. p. in orange, black and white
562
       with a drawing of 2 bears / Frew; photo. of Sophie Tucker.
       cD1732 .15-2: Illustrated t. p. in orange, black and
562
       white with a drawing of 2 bears / Frew; photo. of Tim
       McMahon.
       cD1732.15: "As sung by Sophie Tucker."
562
       cD1732.15-2: "As sung by Tim McMahon."
562
       cD1732.15: Advertisement for Alexander's ragtime band
562
       march and twostep / Berlin on p. [6].
```

- 562 |cD1732.15-2: Advertisement for Draggy rag and Call me up some rainy afternoon / Berlin on p. [6].
 590 Frances G. Spencer Collection of American Sheet Music.
- 590 Spencer subject: Dance other.
 590 Spencer subject: Famous people Sophie Tucker.
- 600 10 Tucker, Sophie, d1884-1966 vPortraits.
- 600 10 McMahon, Tim|vPortraits. 650 0 Songs with piano.
 - 0 Popular music|zUnited States|y1901-1910.
 - 0 Grizzly bear|vSongs and music.
 - 650 0 Ragtime music.
 - 690 Famous people Sophie Tucker. 700 1 Berlin, Irving, d1888-1989. 4lyr
 - 700 1 Frew, John.|4ill 700 1 Tucker, Sophie,|d1884-1966.|4prf
 - 700 1 McMahon, Tim.|4prf
 - 793 0 Frances G. Spencer Collection of American Sheet Music.
 - 856 41 |uhttp://digitalcollections.baylor.edu/u?/fa-spnc,32641 |zConnect to this title in the Baylor University Libraries
 - Digital Collections

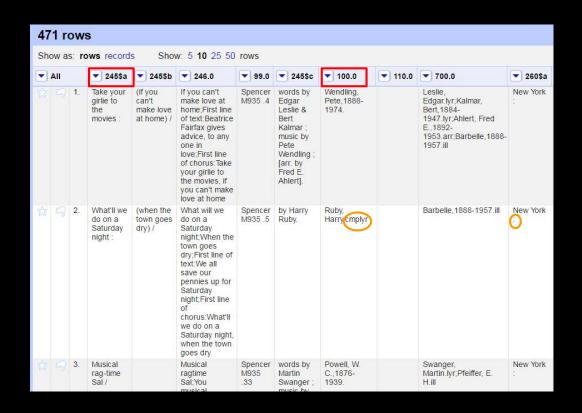
 856 41 |uhttp://digitalcollections.baylor.edu/u?/fa-spnc,30638 | zConnect to this title in the Baylor University Libraries
 - |zConnect to this title in the Baylor University Libraries
 Digital Collections
 915 Flourish

Title	The dance of the grizzly bear	
Alternative Title	Grizzly bear	
First line of verse	Out in San Francisco where the weather's fair	
First line of chorus	Hug up close to your baby	
Statement of Responsibility	words by Irving Berlin ; music by George Botsford.	
Composer	Botsford, George, 1874-1949	
Lyricist	Berlin, Irving, 1888-1989	
Performers	Tucker, Sophie, 1884-1966	
Publisher	New York: Ted Snyder Co.	
Date	1910	
Physical Description	1 score (5, [1] p.) ; 35 cm.	
Instrumentation	For voice and piano.	
Note	D1732 .15: "As sung by Sophie Tucker." ; D1732 .15: Advertisement for Alexander's ragtime band march and twostep / Berlin on p. [6].	
Cover Art Description	D1732 .15: Illustrated t. p. in orange, black and white with a drawing of 2 bears / Frew; photo. of Sophie Tucker.	
Subject - Library of Congress	Tucker, Sophie, 1884-1966 Portraits.; McMahon, Tim Portraits.; Songs with piano.; Popular music United States 1901-1910.; Grizzly bear Songs and music.; Ragtime music.	
Spencer Subject	Dance. Famous people - Sophie Tucker.	
Collection Title	Frances G. Spencer Collection of American Sheet Music. American Melting Pot Collection.	
OCLC	426135815	
Call No.	Spencer D1732 .15	
Rights	http://www.baylor.edu/lib/digitization/digitalrights &	
Metadata set	2009_11.bib.xml Wed Jul 7 11:54:26 2010	
Resource Type	Musical Score	
Format	Image	
Language	No Linguistic Content	
ID	d1732_15	
Custodian	Baylor University, Crouch Fine Arts Library	

·IRVING BERLIN TED SNYDER & WATERSON DERLIN SNYDER &

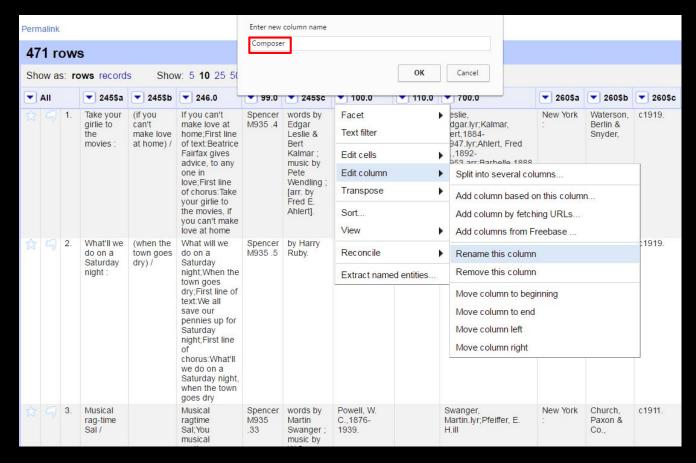
- Interactive Data
 Transformation tool (IDT)
- Open source
- Runs locally
- Interactive like a spreadsheet
 - but more powerful
- Programmable like a database
 - but more exploratory





Creating a new project

- Rename and reorder MARC fields
- Join values
- Split values
- Re-format dates
- Remove unnecessary punctuation, delimiters, etc.
- Add new fields for the digital collection



Renaming columns

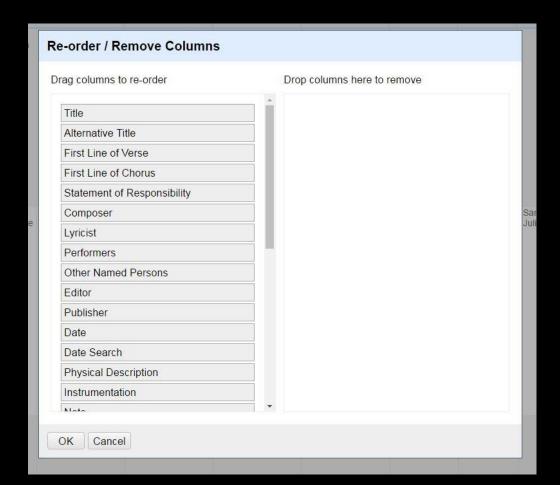
Columns are the primary units of interaction.

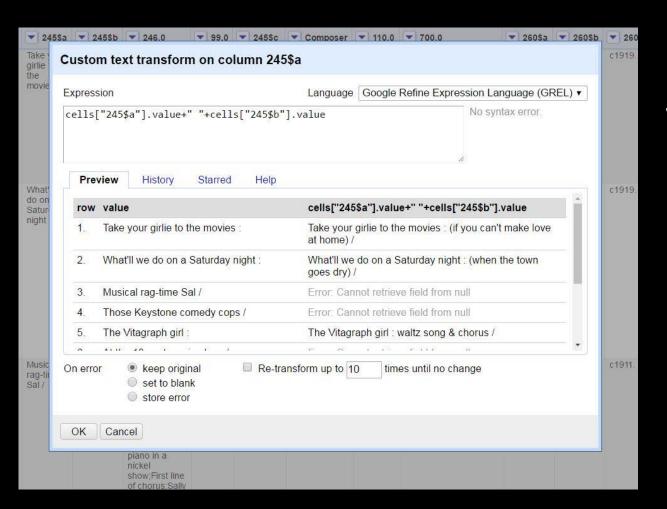
Column names must exactly match our CDM field names in order for upload the metadata.

MARC 100 → Composer

Re-ordering columns

Once all the fields have been re-named, they can be re-ordered under the All columns menu.

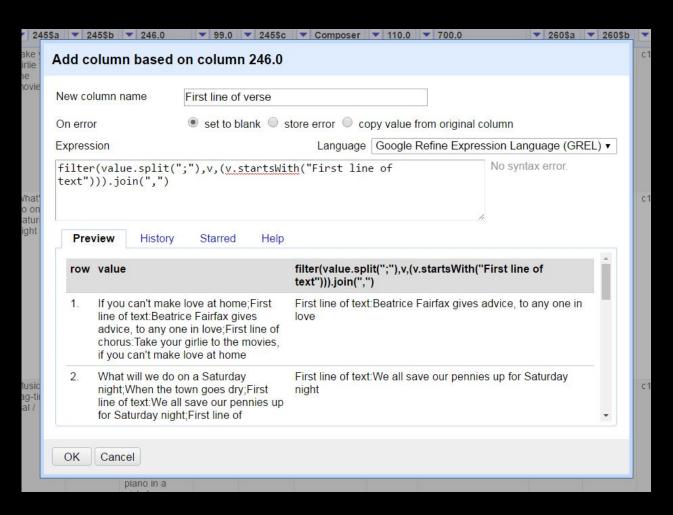




Joining Values

Transform data with Google Refine Expression Language (GREL)

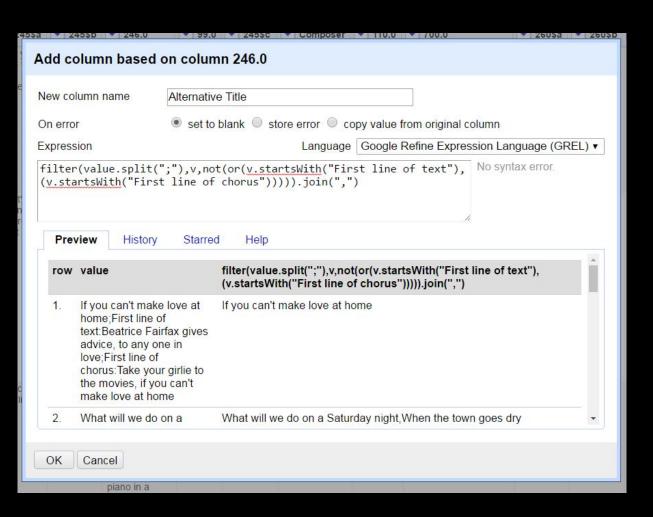
Joining the 245\$a and 245\$b to create the Title field



Splitting values

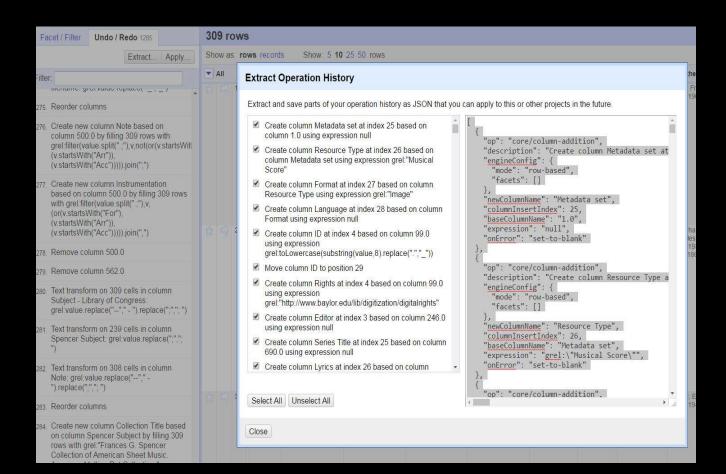
The 246 must be split into two or three fields:

- Alternative
 Title
- First line of verse
- First line of chorus

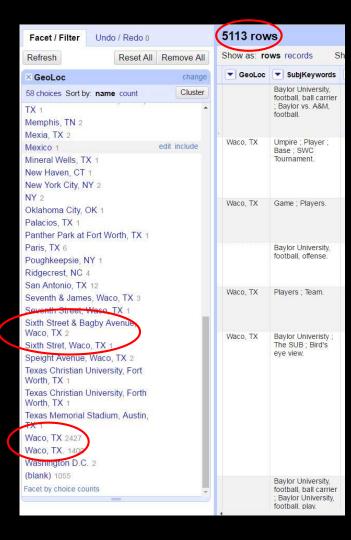


Splitting values

Know your data!



Extract and save operation history



Identifying clean up in existing CONTENT dm collections

- Text faceting
- Custom text facets
- Identifying duplicates

Invaluable Resources

http://openrefine.org/

http://freeyourmetadata.org/

https://github.com/OpenRefine/OpenRefine/wiki/GREL-Functions

Verborgh, Ruben, and Max De Wilde. *Using OpenRefine*. Birmingham: PACKT Publishing, 2013.

Van Hooland, Seth, and Ruben Verborgh. *Linked Data for Libraries, Archives, and Museums: How to Clean, Link, and Publish Your Metadata.* Chicago: Neal-Schuman, 2014.