

# Improve the Batch Cataloging at Your Library: MarcEdit to the Rescue

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# Agenda

1. About MarcEdit
2. Basic MarcEdit functions
3. Intermediate functions
4. Advanced functions
5. Resources

# What is MarcEdit?



- developed MarcEdit in 1999 by Terry Reese
- continually updated and expanded
- now version 6.2
- download the latest version at:  
<http://marcedit.reeset.net>

# Basic MarcEdit Functions

- MarcBreaker
- MarcEditor: deleting and adding fields and subfields
- MarcMaker
- Finding duplicate records
- MarcSplit & MarcJoin
- Marc Validator

**Start  
here!**

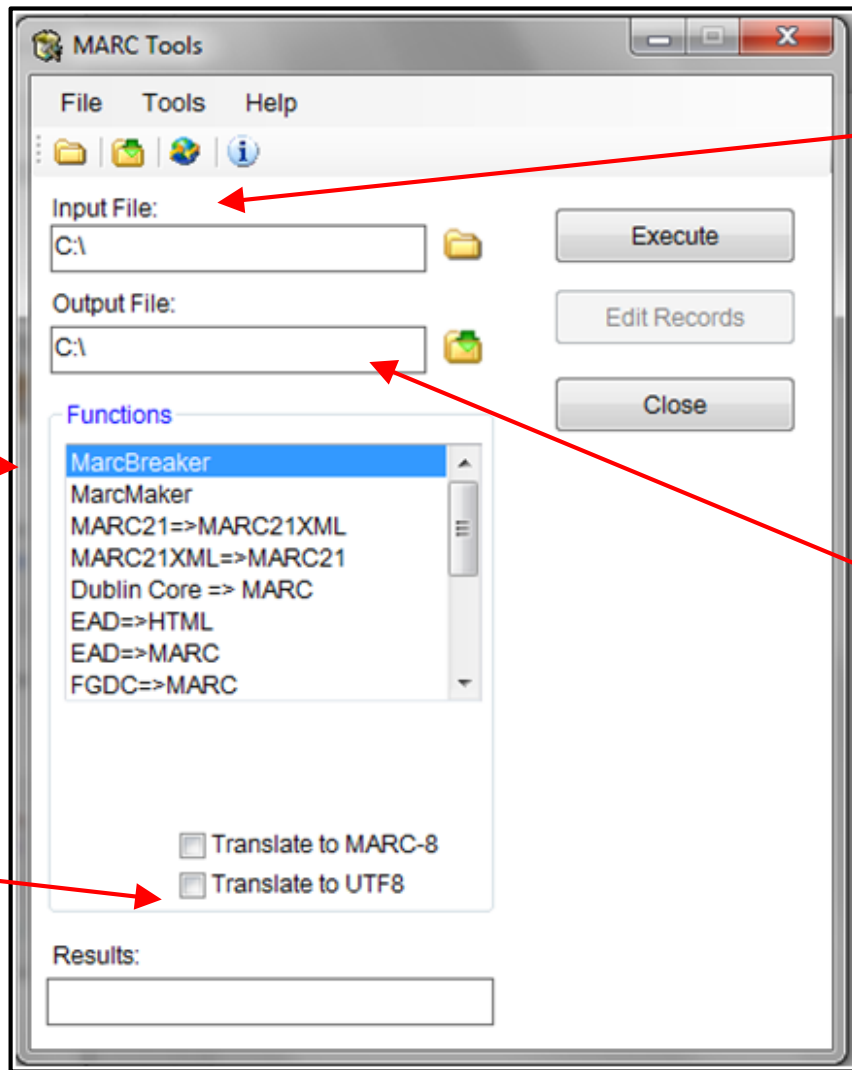


# MarcBreaker Function

- converts encoded MARC file into text for editing
- can convert into Unicode (UTF-8) if your system prefers that -- will handle diacritics!
- click for Unicode conversion before selecting files

**Function =**  
MarcBreaker

Can convert to  
Unicode or  
UTF8



**Input File =**  
encoded MARC  
file (original)

**Output File =** text  
version of file (output  
of breaking process)  
.mrk or mrk8

# MARC Editor

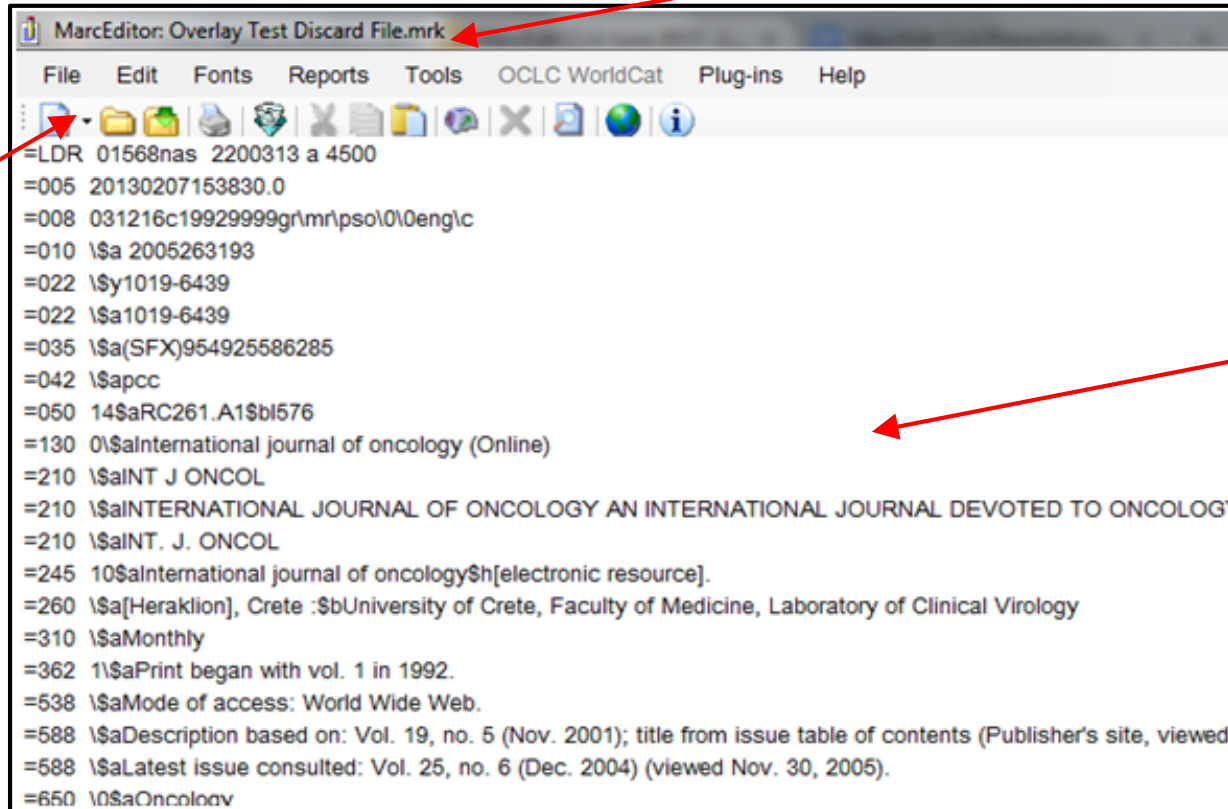
- core of MarcEdit
- has specialized tools for editing MARC fields as well as general text editing functions
- can add/delete/edit fields and subfields in all records, or with qualifiers to touch only some records



# MarcEditor Initial Screen

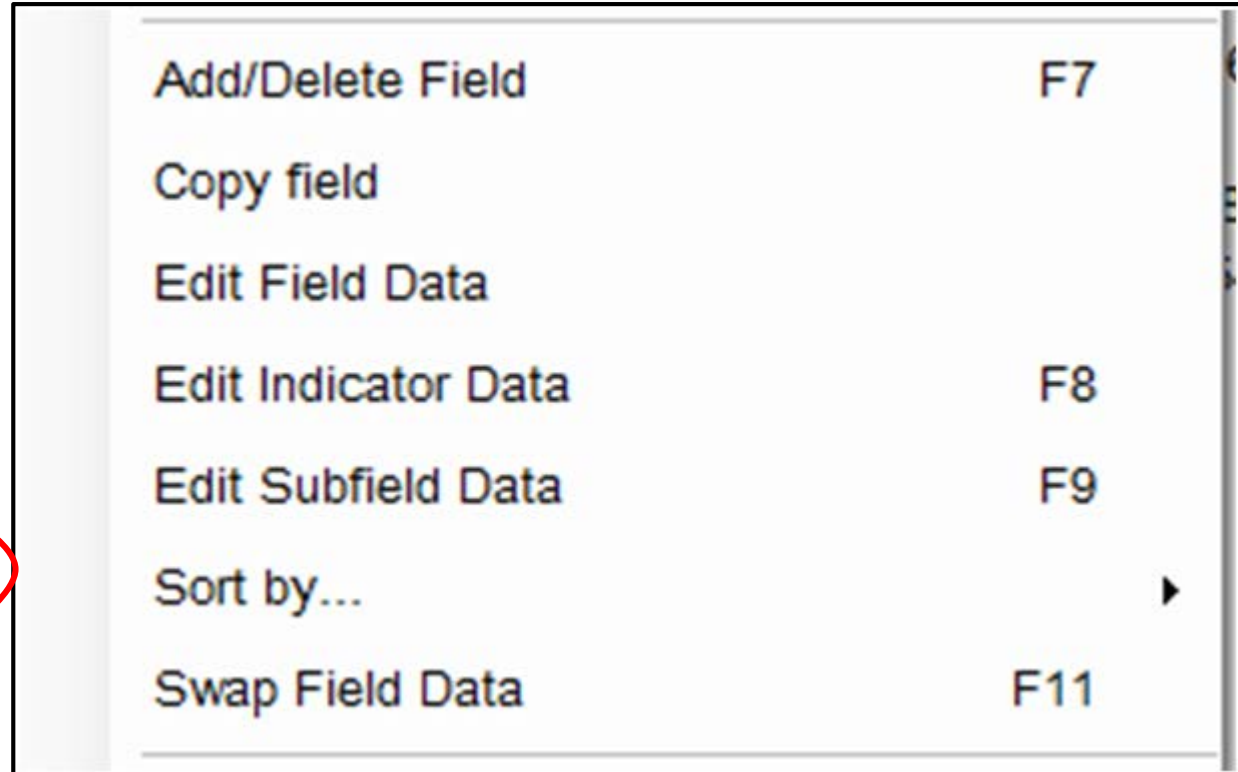
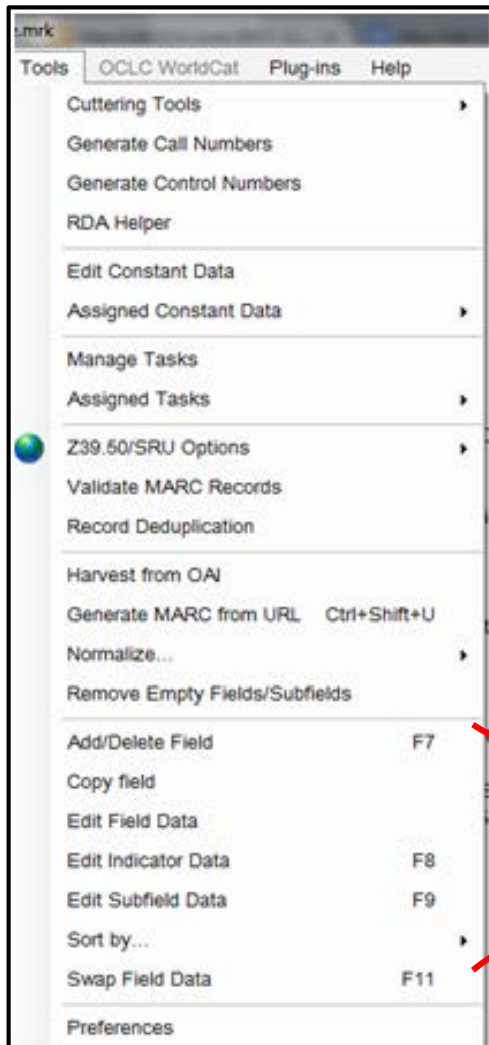
File name

Menu bar  
and icons



MARC  
record in  
text  
format!

# Basic editing functions



# Add Field

MarcEdit.NET Batch Editing Tools

### Add/Delete Field Utility

Field: 506

Field Data: \\\$aAccess restricted to subscri

Options:

- ☒ Match case
- ☒ Insert before
- ☐ Insert last
- ☐ Add field only if not present
- ☐ Add Field If Present
- ☐ Use Regular Expression
- ☐ Remove Duplicate Data
- ☐ Remove if field data does not match
- ☐ Process batch operation

Buttons: Delete Field, Add Field, Close

Drop down  
list of all  
MARC fields

Complete  
MARC  
field

Option to  
add only if  
not present

Add Field  
Button

# Delete all occurrences of a field:

Blank Field  
Data box;  
all 655  
fields will  
be deleted.

MarcEdit.NET Batch Editing Tools

*Add/Delete Field Utility*

Field: 655 Field Data:

Options:

- ☐ Match case
- ☐ Insert before
- ☐ Insert last
- ☐ Add field only if not present
- ☐ Add Field if Present
- ☐ Use Regular Expression
- ☐ Remove Duplicate Data
- ☐ Remove if field data does not match
- ☐ Process batch operation

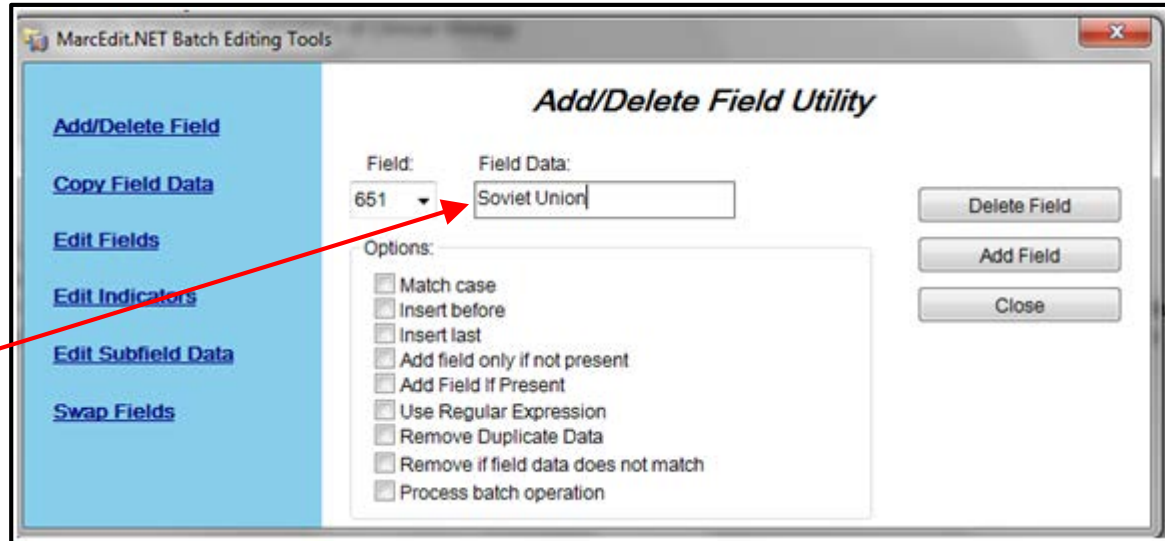
Delete Field

Add Field

Close

# Delete only fields with specific data:

Only 651 fields  
containing Soviet  
Union will be  
deleted.



# Adding and Editing Subfields

- similar functionality to working with entire fields
- can add only if not present
- can edit subfield containing only specific data

# Add subfield

**MarcEdit.NET Batch Editing Tools**

***Edit Subfield***

Field: 856 Subfield: z Field Data:

Replace with:  
Click here for access

Search Options:

- ☐ New subfield only
- ☒ Add subfield if not present
- ☐ Delete Subfield
- ☒ Match case
- ☐ Move subfield data
- ☐ Use regular expression

Buttons: Replace Text, Remove Text, Close

Left sidebar links:  
[Add/Delete Field](#)  
[Copy Field Data](#)  
[Edit Fields](#)  
[Edit Indicators](#)  
[Edit Subfield Data](#)  
[Swap Fields](#)

Callout 1: Will only add if no \$z exists (points to 'Add subfield if not present')

Callout 2: Use Replace with blank Field Data to add new subfield. (points to 'Replace Text')

Callout 3: This will add \$z even if another one is already there. (points to 'Match case')

# Delete subfield

MarcEdit.NET Batch Editing Tools

**Edit Subfield**

Field: 856 Subfield: z Field Data: Link to publisher

Replace with:

Search Options:

- ☐ New subfield only
- ☐ Add subfield if not present
- ☒ Delete Subfield
- ☒ Match case
- ☐ Move subfield data
- ☐ Use regular expression

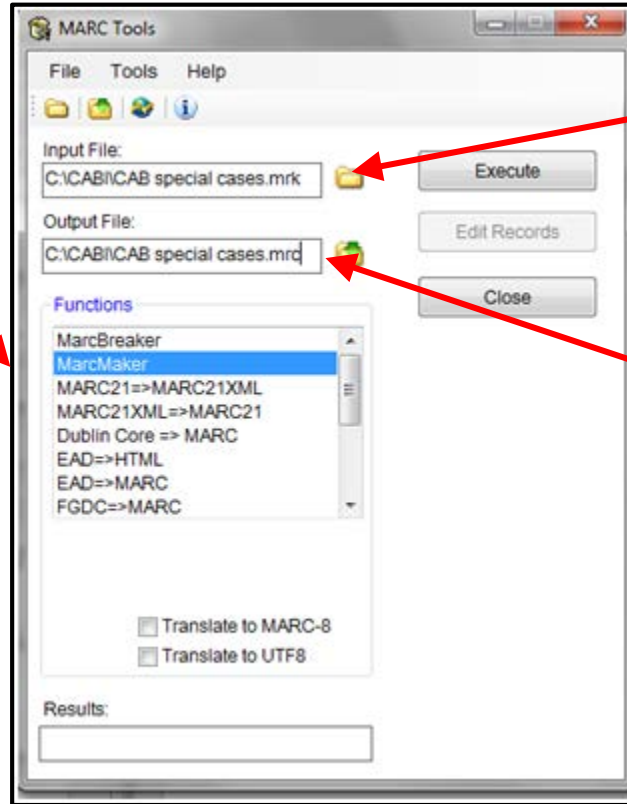
Buttons: Replace Text, Remove Text, Close

Callout boxes:

- Delete subfield (points to Delete Subfield checkbox)
- Delete selected subfields (points to Replace Text button)



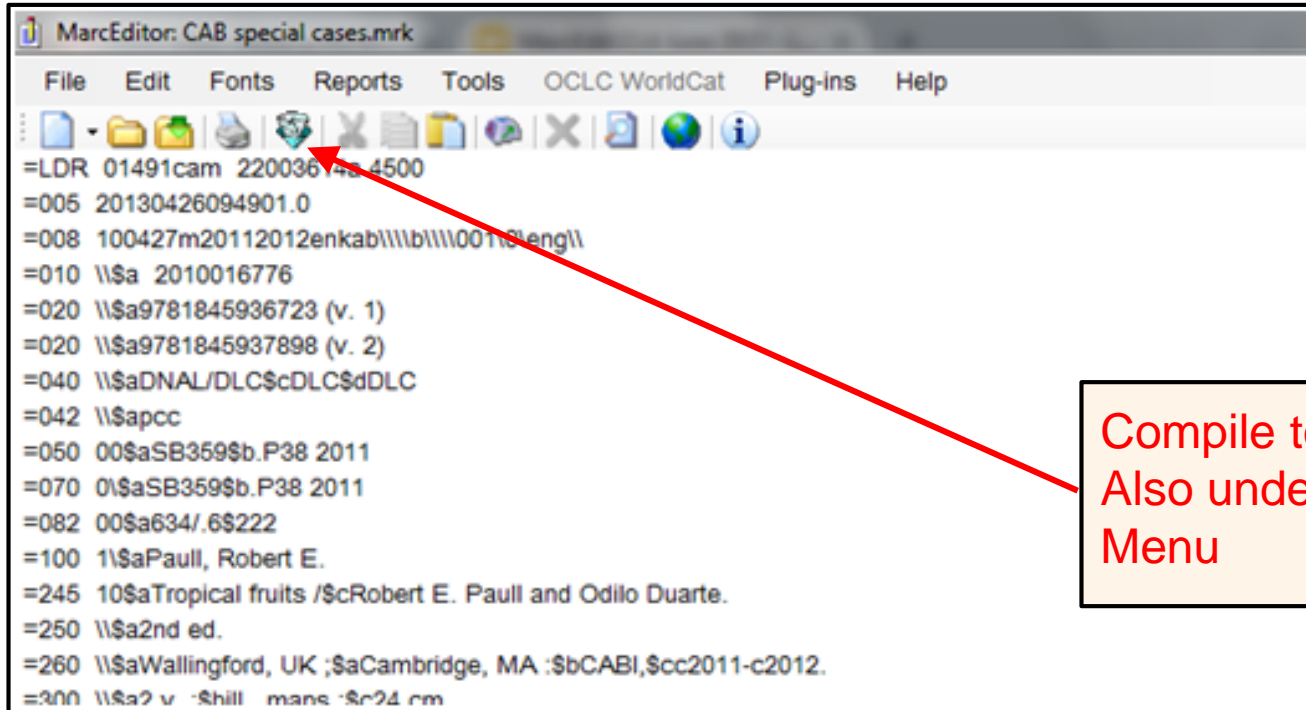
# MarcMaker in MARC Tools



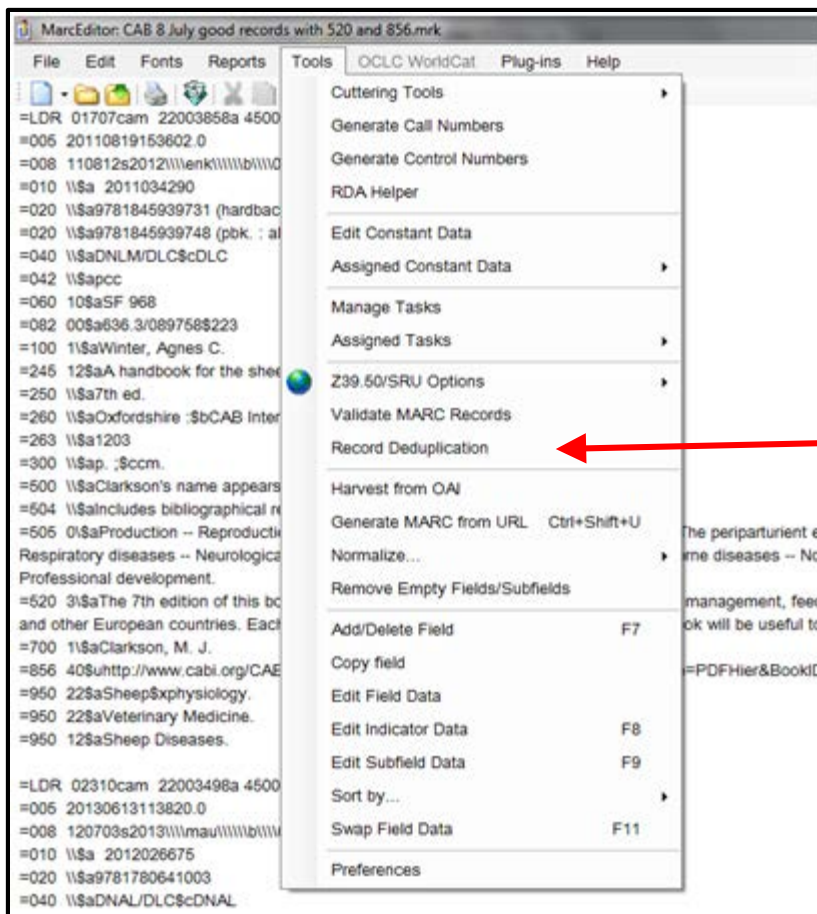
Text format  
file, either  
.mrk or .mrk8  
(UTF)

Encoded  
MARC file,  
.mrc

# MarcMaker in MarcEditor



Compile to MARC.  
Also under File  
Menu



# Record Deduplication

Record Deduplication

**Control Field:**

Field/Subfield 856\$u|

**Dedup on:**

Transaction Date 005

**Options:**

☒ Remove Duplicate Items  
☐ Print Unique Items

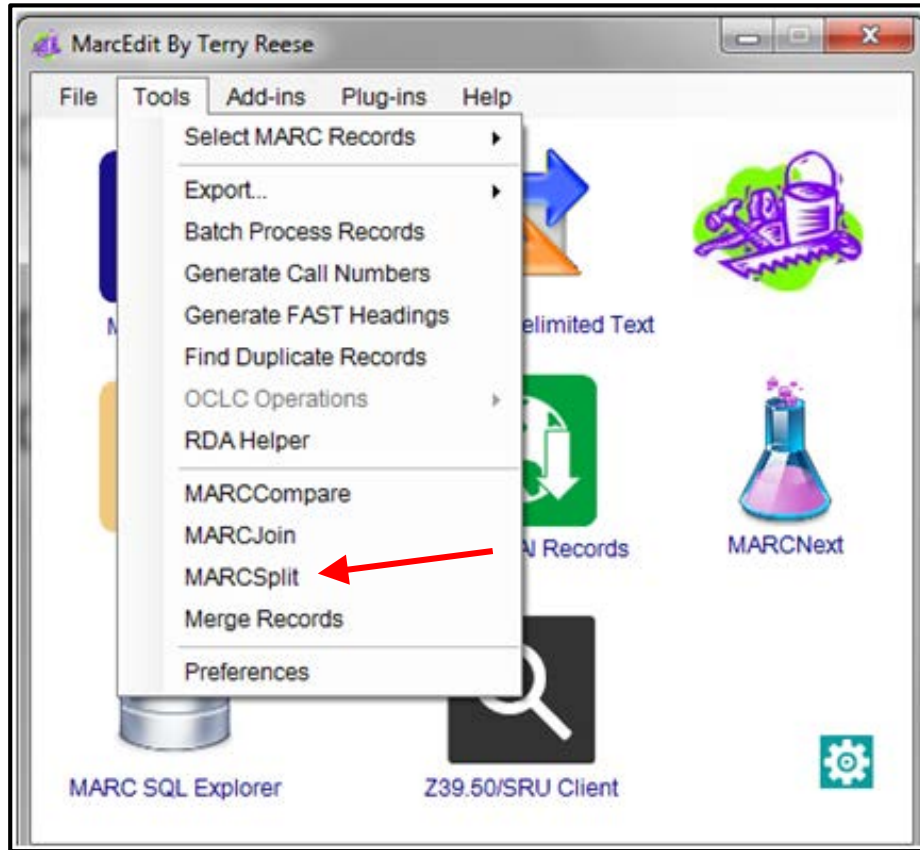
☒ **Save Dedup Items to:**

C:\EBSCO Academic Ebook Corrections.mrk

Process Close

# Record Deduplication

In this example, we're looking for records with duplicate URLs



# MARCSplit

Utilities Dialog

Batch Process  
MARC Records

Export Tab  
Delimited  
Records

MARCJoin

MARCSplit

Character  
Conversions

Merge Records

*MARCSplit Utility*

Source File:

C:\Users\Linda\Desktop\EB



Process

Destination Folder:

C:\Users\Linda\Desktop



Close

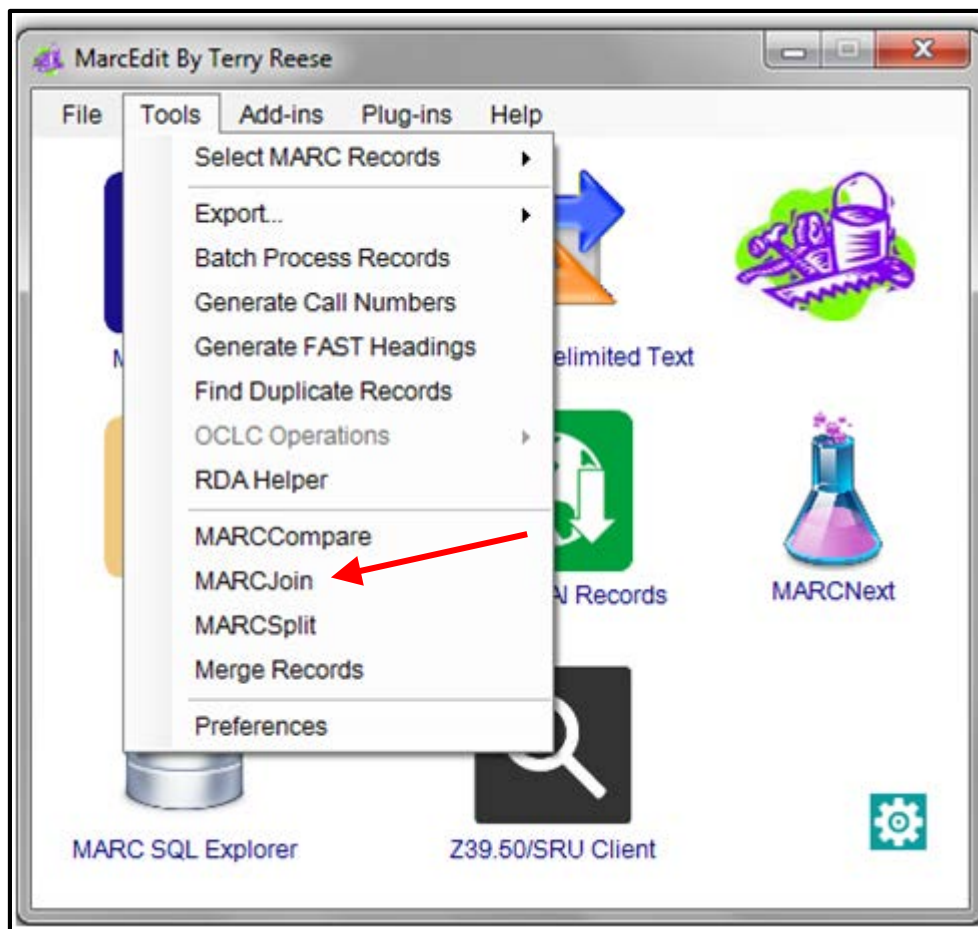
Records Per File:

1000

☐ # of files:



Set  
number of  
records in  
files



# MARCJoin

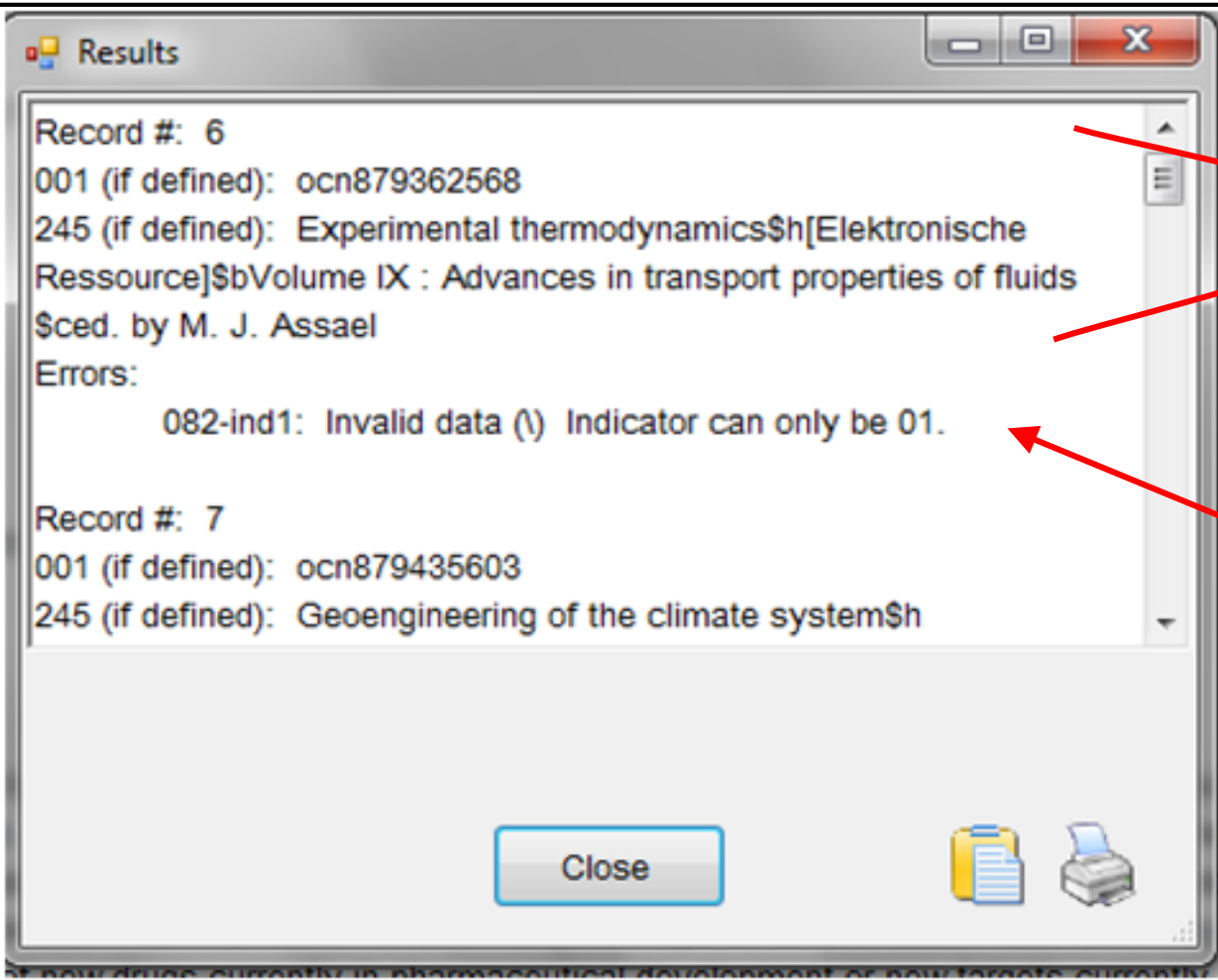


- will find errors in the MARC coding
- very useful if you have a record that your ILS will not accept!

- will find errors in the MARC coding
- very useful if you have a record that your ILS will not accept!



# MARC Validator



Information on the record so that you can find it.

Identifies error in MARC coding

# Intermediate Functions in MarcEdit

Find & Replace in MarcEditor

Select & Export individual records

Exporting records in Tab Delimited Format

Merging records

Composite fields

Validate Headings

Verify URLs

# Find & Replace Data Functions in MarcEditor

General text editing functions - simple but powerful!

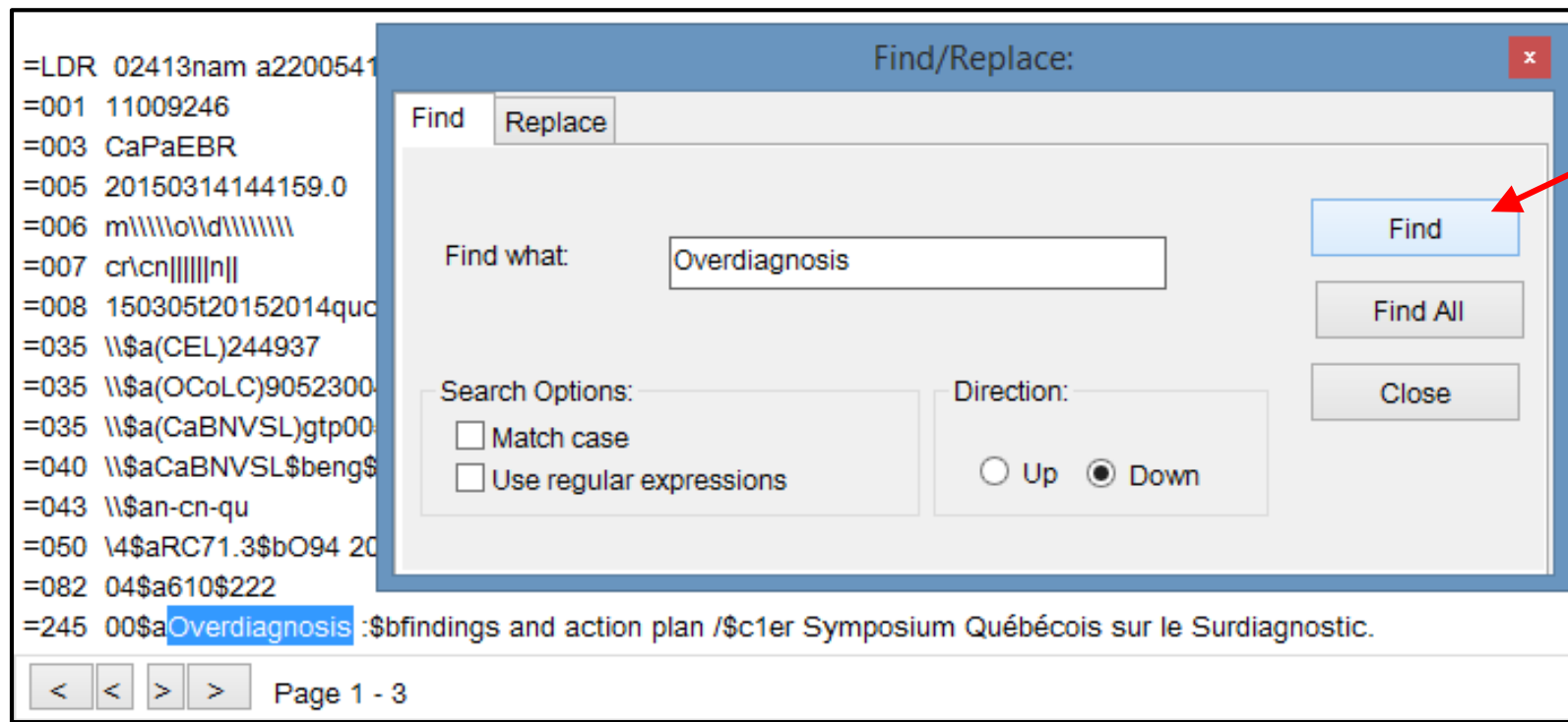
**Find / Replace** - to find and replace data (text string) on a current page in MARC text file

**Find All / Replace All** - to find and replace all occurrences of a given text string

Results can be sorted

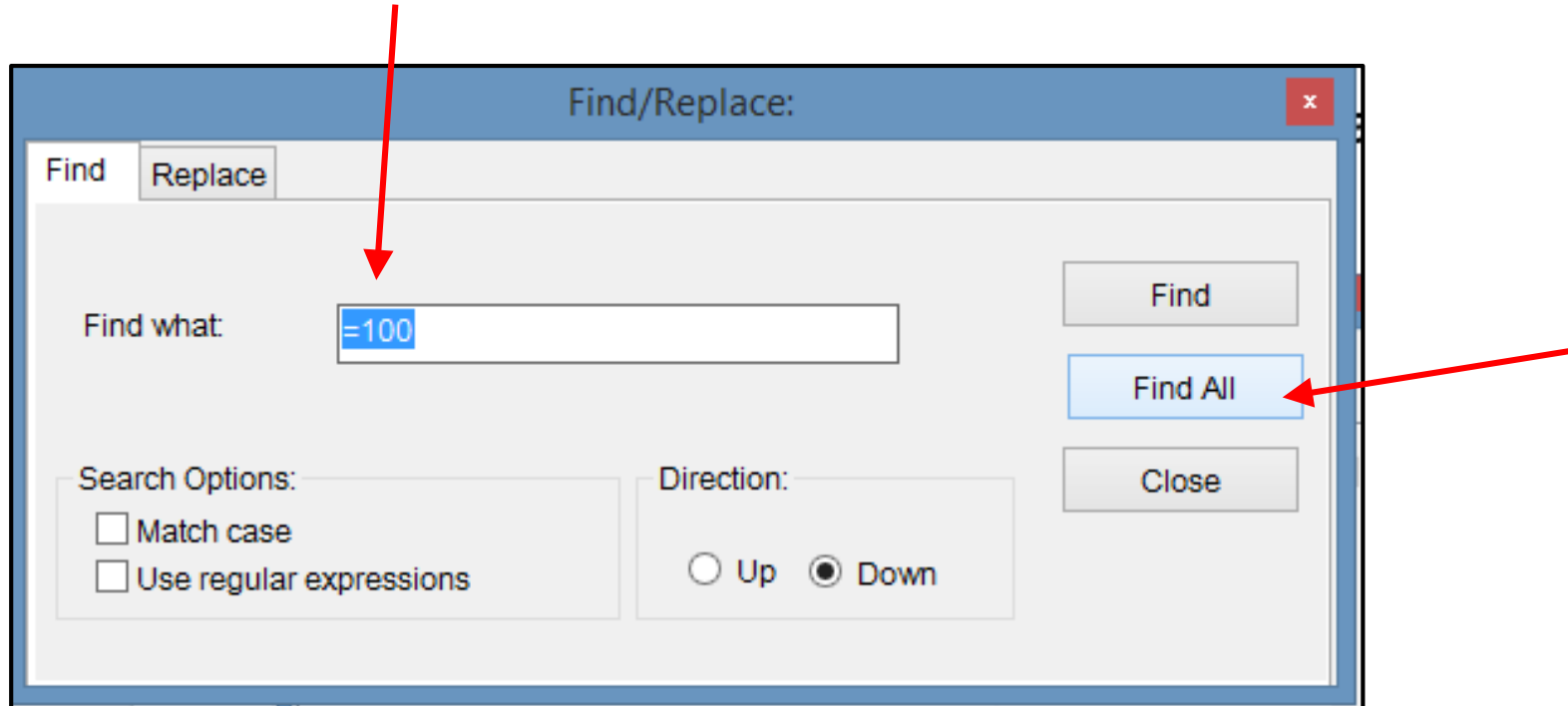
More powerful with regular expressions

# “Find” example



“Find All” - Allows users to quickly check data in a specific MARC field (or subfield)

Search for: **=MARCfieldTAG**



# Using “Find All” to search for data in a specific MARC field (100) - Results list

Find All Results

=100 was found 144 times.

Click here to sort the results

Found Text	Action
=100 1\SaAbattan, Spéro,\$auteur.	Jump to Record #: 102
=100 1\SaArcand, Lyne,\$auteur.	Jump to Record #: 253
=100 1\SaBakhiyi, Bouchra,\$auteur.	Jump to Record #: 203
=100 1\SaBeaucage, Clément,\$auteur.	Jump to Record #: 15
=100 1\SaBergstrom, Nancy,\$author.	Jump to Record #: 52
=100 1\SaBillard, Marie-Noëlle,\$auteur.	Jump to Record #: 30
=100 1\SaBisailon, Suzanne,\$auteur.	Jump to Record #: 5
=100 1\SaBoag, Alexander Harvey,\$d1961-\$author.	Jump to Record #: 124

Jump to Page Edit Find Query Close

Use scrollbar to  
browse the results

# Using **Find All** to find “invalid” subject headings

Click here to sort

610 fields with  
“invalid”  
(non LC)  
indicators

Find All Results	
=610 was found 10 times.	
Found Text	Action
=610 20\$aCanadian Integrated Program for Antimicrobial Resistance Surveillance.	Jump to Record #: 122
=610 20\$aCanadian Integrated Program for Antimicrobial Resistance Surveillance.	Jump to Record #: 166
=610 20\$aProgramme québécois de dépistage du cancer du sein.	Jump to Record #: 177
=610 22\$aCanadian Integrated Program for Antimicrobial Resistance Surveillance.	Jump to Record #: 122
=610 22\$aCanadian Integrated Program for Antimicrobial Resistance Surveillance.	Jump to Record #: 166
=610 22\$aProgramme québécois de dépistage du cancer du sein.	Jump to Record #: 177
=610 26\$aProgramme intégré canadien de surveillance de la résistance aux antimicrobiens.	Jump to Record #: 122
=610 26\$aProgramme québécois de dépistage du cancer du sein.	Jump to Record #: 177
=610 27\$aProgramme intégré canadien de surveillance de la résistance aux antimicrobiens.\$2fmesh.	Jump to Record #: 122
=610 27\$aProgramme québécois de dépistage du cancer du sein.\$2fmesh.	Jump to Record #: 177

# Deleting 6XX fields with specific indicators

MarcEdit.NET Batch Editing Tools

Add/Delete Field Utility

Field: 610 Field Data: 22\$a

Options:

- ☒ Match case
- ☒ Insert before
- ☐ Insert last
- ☐ Add field only if not present
- ☐ Add Field If Present
- ☐ Use Regular Expression
- ☐ Remove Duplicate Data
- ☐ Remove if field data does not match

Delete Field

Add Field

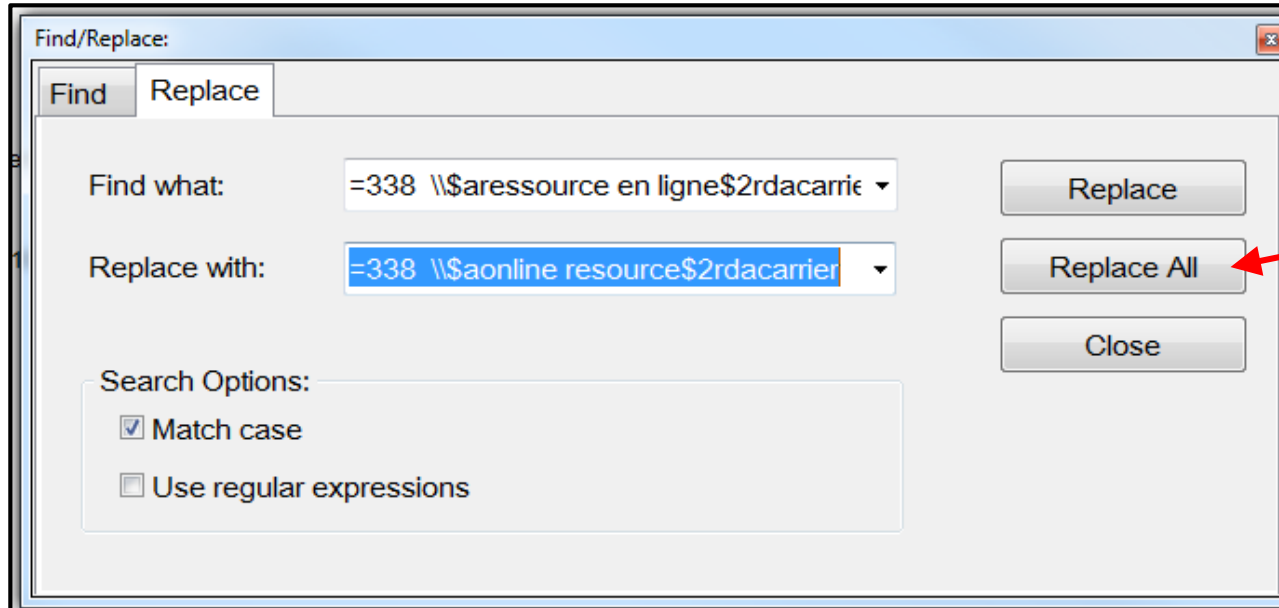
Close

Delete all fields with a specific indicator data using "Add/Delete Field Utility"



# Replace All

You can use Replace All to replace a whole MARC field - in this case 338 field with French text - with a completely different (English) text

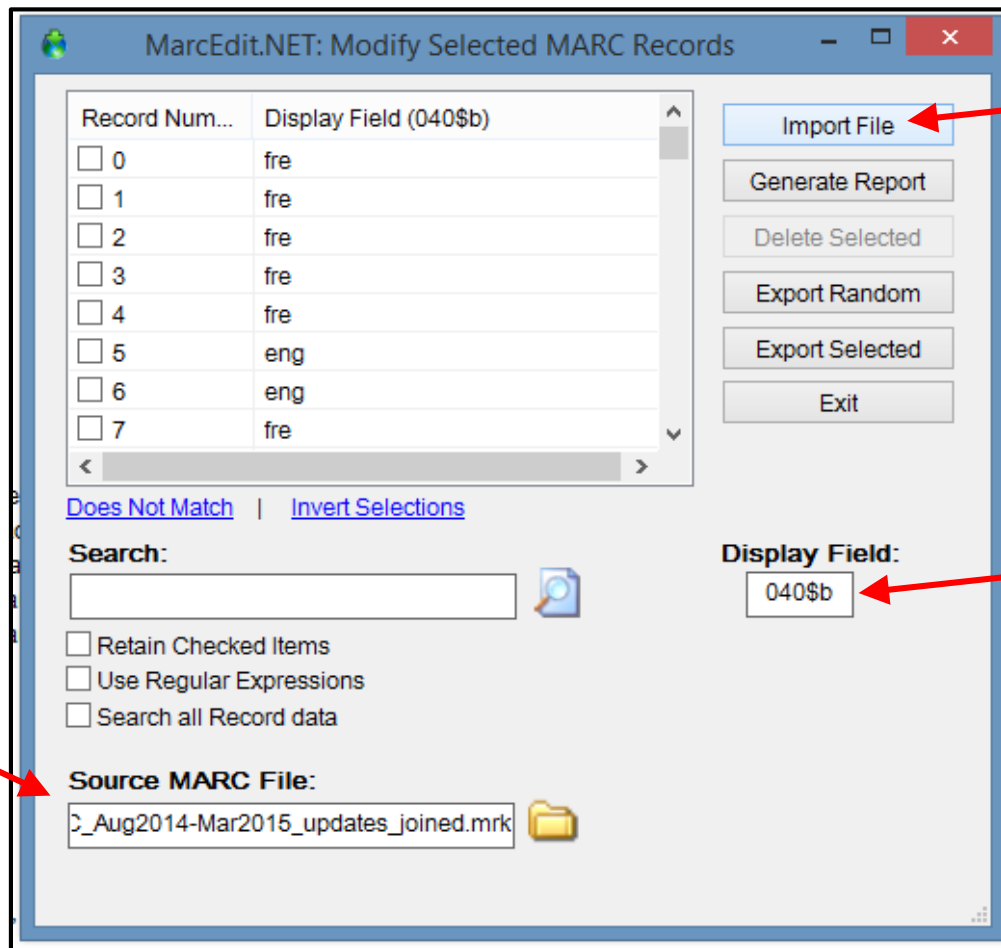


# **Extract / Delete Selected Records Utility**

**Extract Selected Records** - allows users to **extract individual records from a larger MARC file**

**Delete Selected Record** - allows users **delete individual MARC records from a larger MARC file**

Different types of searches can be performed to select individual records in the file

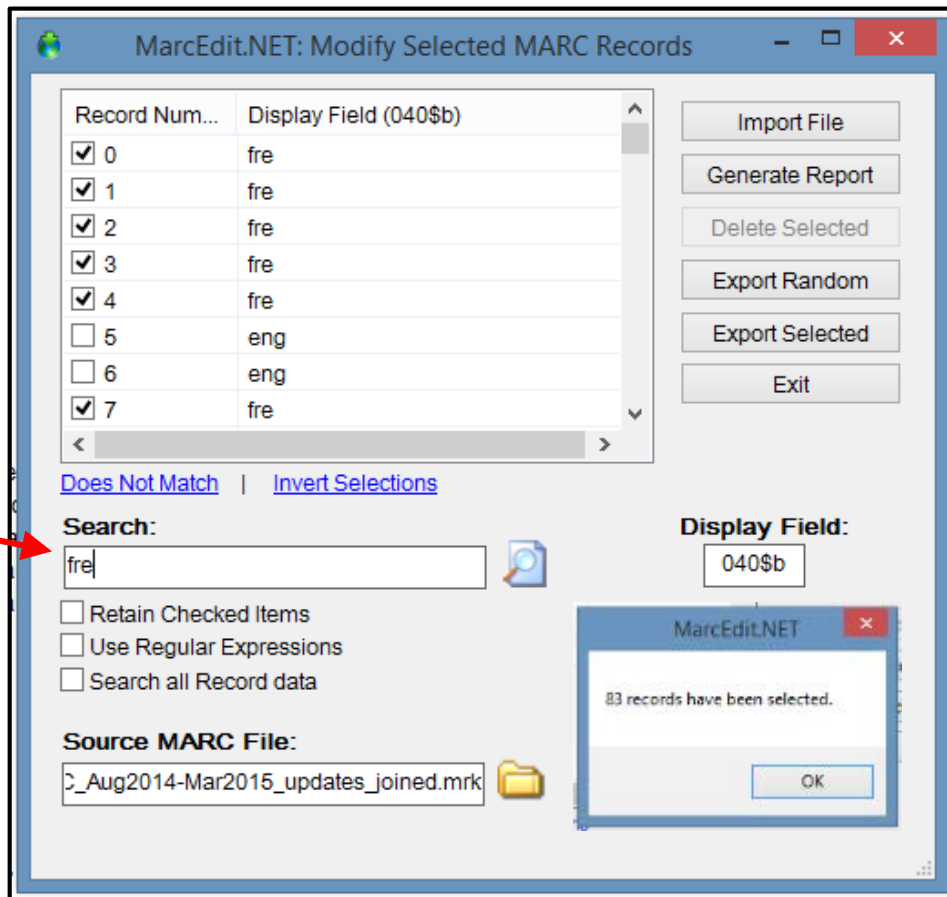


Source file -  
.mrk file that  
you want to  
select/extract  
records from

Click on Import File to  
import the file in this  
utility

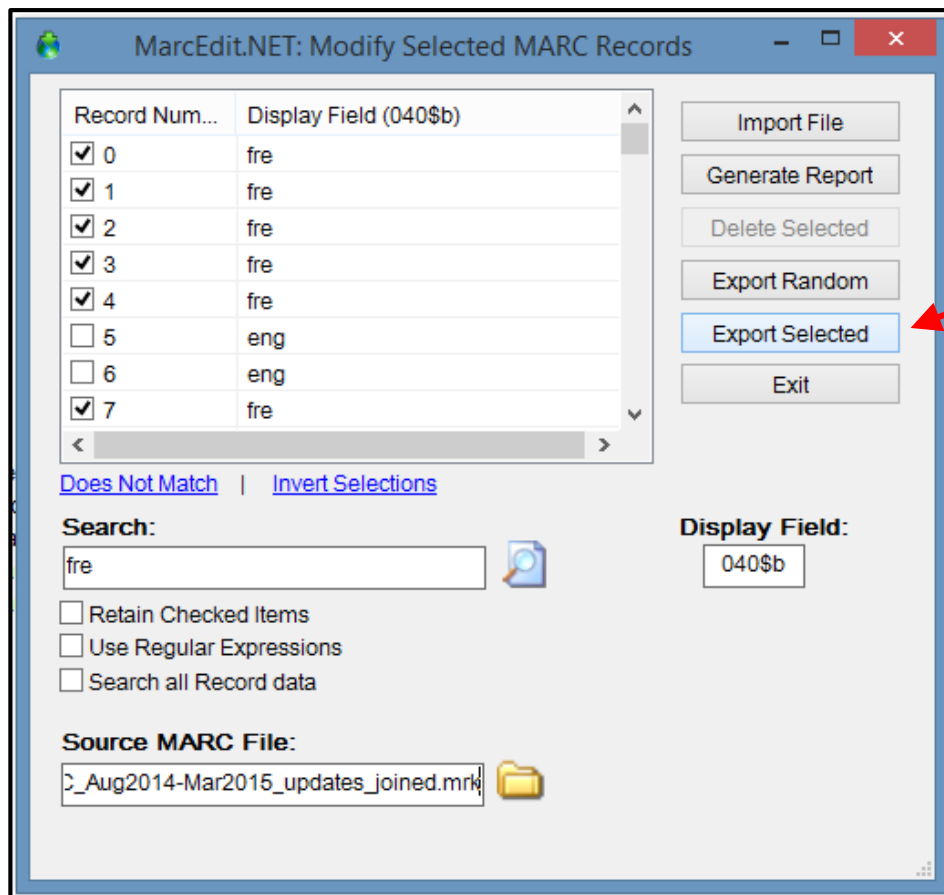
Display Field - contains  
the data based on which  
you want to select  
(extract) records

# Selecting individual records



Enter data in the Search box - Records containing the data specified will be selected after you execute the search

# Exporting selected records



Export Selected -  
selected records will  
be exported into  
new .mrk file

# Export Tab Delimited Records Utility

Export fields in tab delimited format

Can be used to identify missing and duplicate data in a specific field or subfield

Can be used to generate title lists, etc.

**MARC text file**



**Tab Delimited text**

```
=245 00$aBrain electrical activity mapping for diagnosing  
=336 \\\$atext$2rdacontent  
=650 \0$aDementia$xDiagnosis.  
=650 \0$aMental illness$xDiagnosis.  
=650 \0$aBrain mapping.  
=650 \0$aElectroencephalography.
```

```
245$a "Brain electrical activity mapping for  
diagnosing psychiatric disorders :"  
336$a "text"  
650$a "Dementia;Mental illness;Brain  
mapping.;Electroencephalography."
```

# Export Tab Delimited Records Utility

Utilities Dialog

**Export Tab Delimited Records**

*Step 1: Set File Paths*

[Text Field] [Folder Icon]

[Text Field] [Folder Icon]

? Select Field Delimiter [Dropdown]

? n field delimiter [Dropdown]

Next >> Close

.mrc file you want to export from

Tab Delimited text file you are exporting

# Selecting fields and subfields to export

Utilities Dialog

**Batch Process MARC Records**

**Export Tab Delimited Records**

**MARCJoin**

**MARCSplit**

**Character Conversions**

**Merge Records**

***Export Tab Delimited Records***

*Step 2: Define Fields/Subfields to Export*

245\$a  
050\$a

☐ Normalize field data

Field:  Subfield:  [Add Field](#)  
[Delete Field](#)

[Settings...](#)

Fields and subfields  
selected to export



## Using Tab Delimited records to identify missing and duplicate call numbers

Exported titles

Exported call numbers

	A	B	C
1	245\$a	050\$a	
2	Pascal the philosopher :	B1903	
3	Erasmus of Rotterdam	B785.E64	
4	Peter of Cornwall's Book of revelations	BV5091.V6	CB351
5	Merry hell	D547.C2	
6	Home in the city	E78.C2	
7	Sacred feathers	E99.M68	
8	Who is an Indian?	GN550	
9	Free to believe	KE4430	
10	A sea of languages	PN682.A67	
11	The free animal	PQ2053	
12	Wilde discoveries :	PR5824	PR5824
13	Margaret Atwood and the labour of literary celebrity	PR9199.3.A8	
14	Rotman on design	TS171	HD53
15	Pathogens for war	UG447.8	
16	My name is Lola		
17	Shipwreck at Cape Flora		
18	The fast-changing Arctic		

Records with  
two or more call  
numbers

Titles/records with  
no call numbers

# Z 39.50

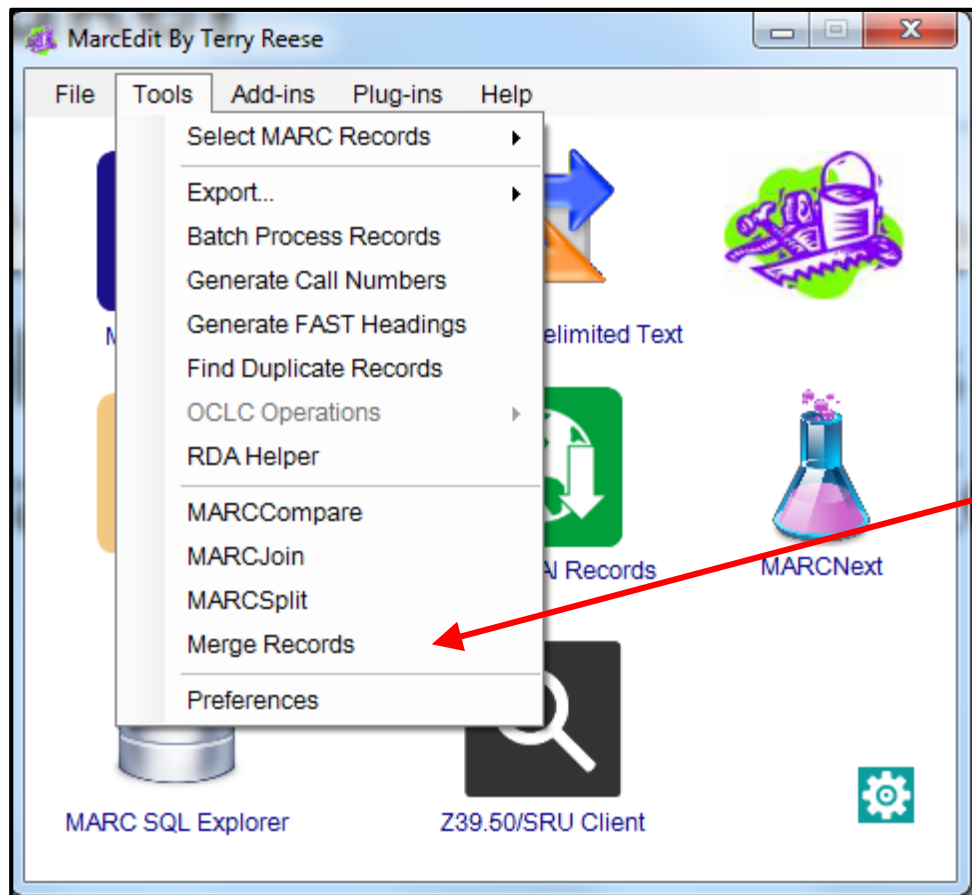
How to get records containing missing data:

- At Guelph, use Z 39.50 utility BookWhere (from Web Clarity)
- MarcEdit has Z 39.50 search -- Has LC and OCLC configured.

# Merge Records Tool

Merge data from one marc file into another file

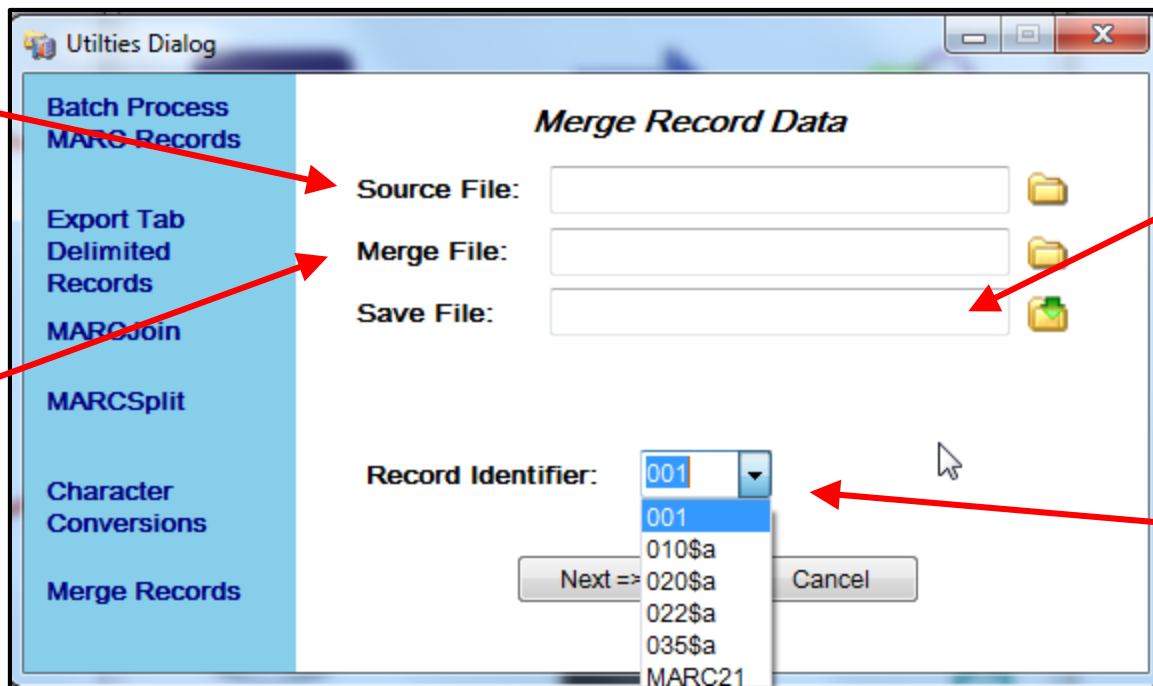
Can be used to **supply missing data** - such as call numbers or subject headings



ALL files must  
be in MRK or  
MRK8 format  
(text MARC, not  
encoded  
MARC)

File with  
most of the  
data you  
want

File with  
added  
data



Final file  
with all  
data

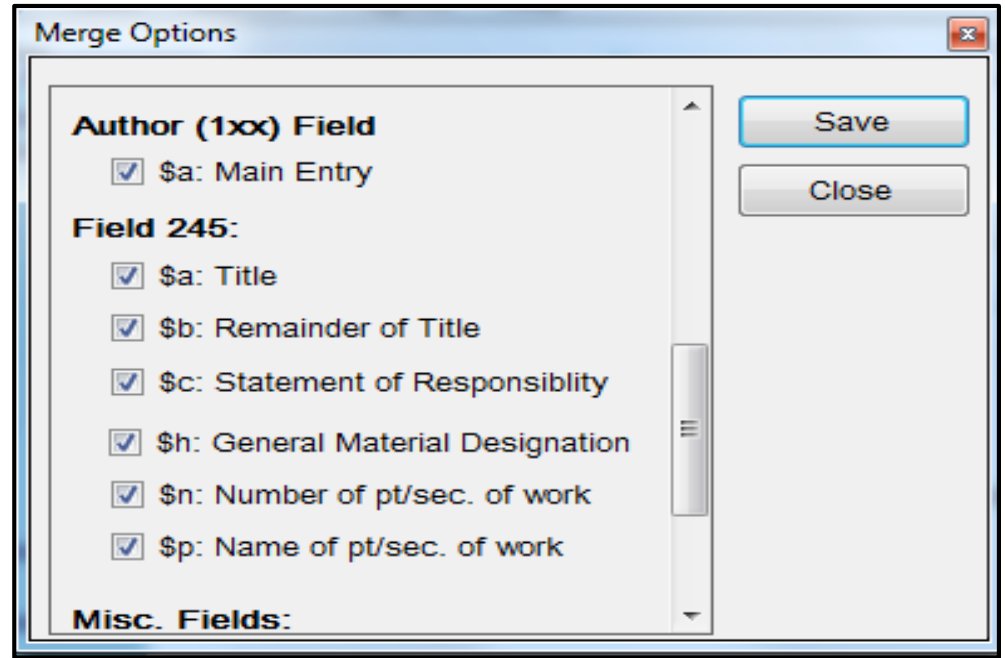
Field to  
match  
records on

# MARC21 as record identifier

choose Customize fields

Examples:

- 856 \$u
- Main entry + 245 \$a
- 776



The screenshot shows a 'Merge Options' dialog box with a list of fields and their subfields. The 'Author (1xx) Field' section has a checked checkbox for '\$a: Main Entry'. The 'Field 245:' section has checked checkboxes for '\$a: Title', '\$b: Remainder of Title', '\$c: Statement of Responsibility', '\$h: General Material Designation', '\$n: Number of pt/sec. of work', and '\$p: Name of pt/sec. of work'. The 'Misc. Fields:' section is partially visible at the bottom. On the right side of the dialog, there are 'Save' and 'Close' buttons.

**Merge Options**

**Author (1xx) Field**

- ☒ \$a: Main Entry

**Field 245:**

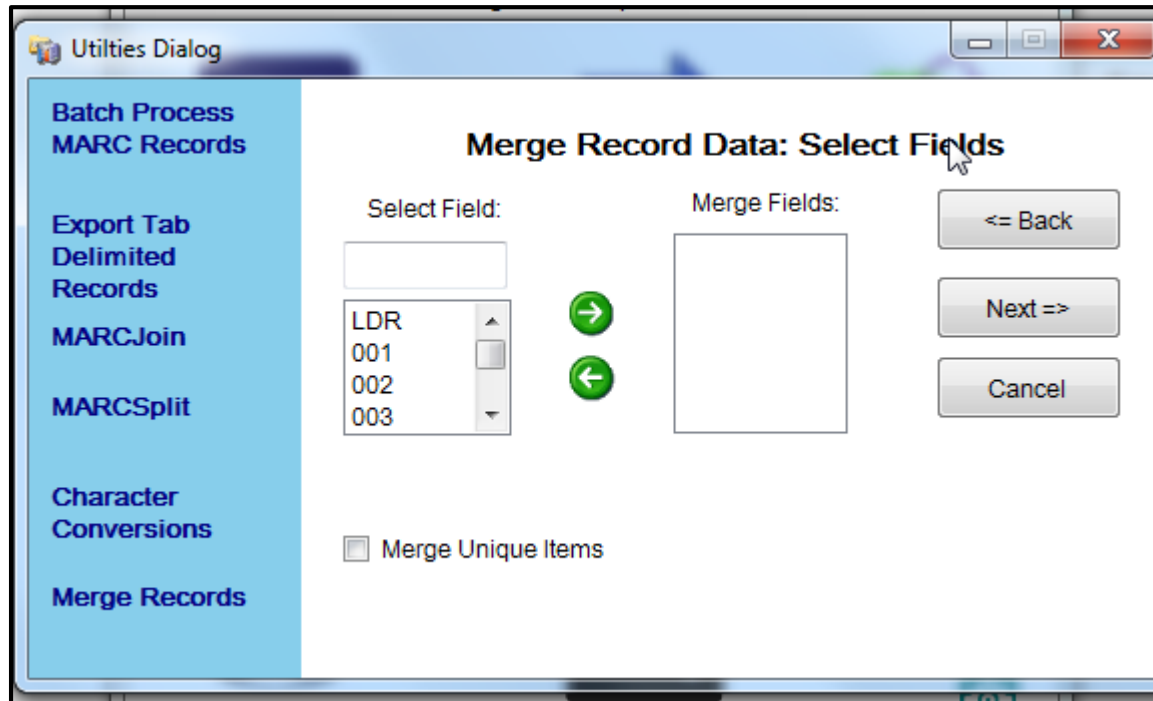
- ☒ \$a: Title
- ☒ \$b: Remainder of Title
- ☒ \$c: Statement of Responsibility
- ☒ \$h: General Material Designation
- ☒ \$n: Number of pt/sec. of work
- ☒ \$p: Name of pt/sec. of work

**Misc. Fields:**

Save

Close

Select fields to be merged INTO the 'source' file (the first one you specified):



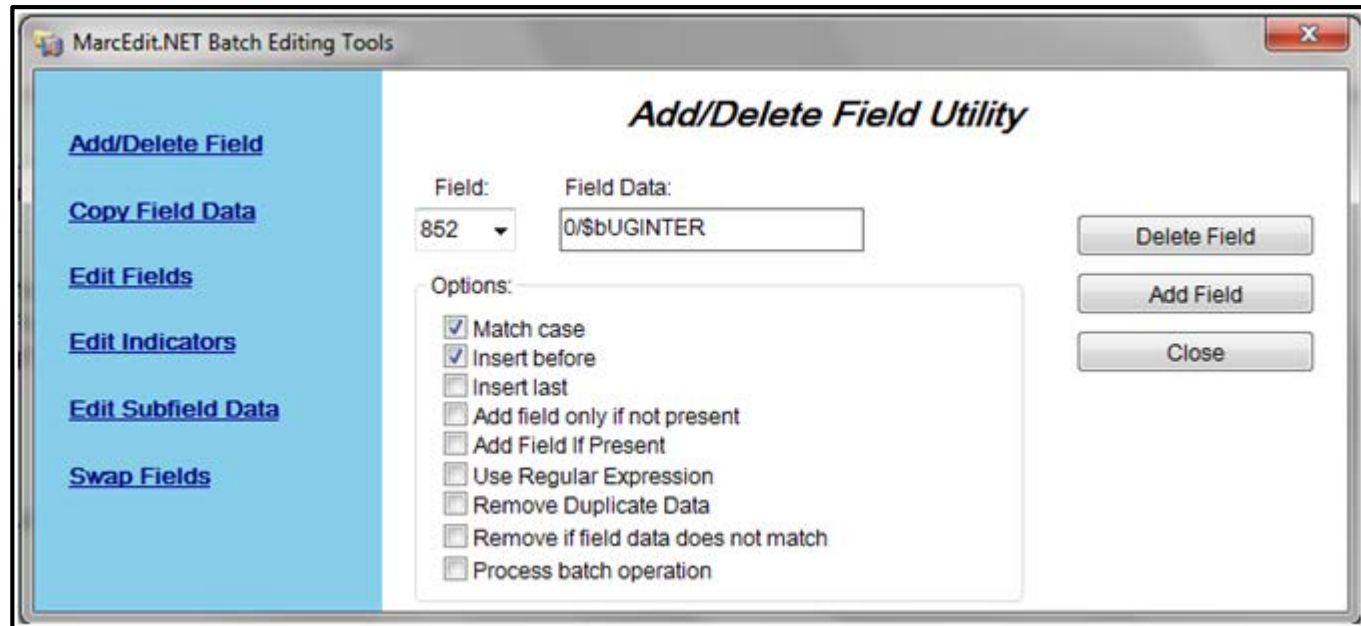
# Composite fields

Example: 852 with call number from 050 and location value

You need to copy some data from another part of the record, and also supply data for the field.



## Step 1: Create field



## Step 2: Use Swap to copy data from 050

Leaves 050  
unchanged

Adds to 852  
already  
created

The screenshot shows the 'Swap Field Utility' dialog box within the 'MarcEdit.NET Batch Editing Tools' application. The dialog has a blue sidebar on the left with the following options: 'Add/Delete Field', 'Copy Field Data', 'Edit Fields', 'Edit Indicators', 'Edit Subfield Data', and 'Swap Fields'. The main area is titled 'Swap Field Utility' and contains the following sections:

- Original Data:**
  - Field: 050 (dropdown)
  - Indicators: (empty box)
  - Subfields: a (text box)
  - Find: (empty text box)
- Modified Data:**
  - Field: 852 (dropdown)
  - Indicators: (empty box)
  - Subfields: h (text box)
  - Find: ☐ Treat as Regular Expression (checkbox and text box)
- Search Options:**
  - ☒ Copy Source
  - ☒ Add to existing field (this option is highlighted with a dashed border)
  - ☐ Add to existing/create new
  - ☐ Process one field per swap
  - ☒ Sort Modified Field

At the bottom right are 'Process' and 'Close' buttons. Two red arrows originate from the text on the left: one points from 'Leaves 050 unchanged' to the 'Original Data' section, and another points from 'Adds to 852 already created' to the 'Add to existing field' option in the 'Search Options' section.

# “Verify URLs” Add-in feature

- Generates a report providing the HTTP status codes returned for URLs in a record set.
- Follows redirects
- Default timeout after 100 seconds
- Use carefully - many vendors don't like url checkers!

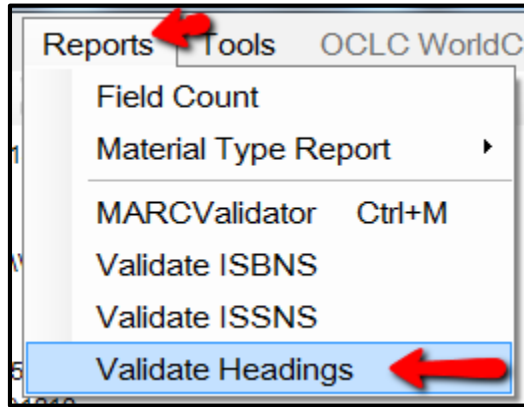
The screenshot shows the 'Verify URL' dialog box with the following fields and annotations:

- Report Options:**
  - Input File:** An empty text box with a folder icon to its right. A red arrow points to it from a red box containing the text "File that you want to check".
  - Output File:** An empty text box with a folder icon and a green checkmark icon to its right. A red arrow points to it from a red box containing the text "Link check report".
  - XSLT File:** A text box containing the path "C:\Program Files\MarcEdit 6\xslt\url\_verify.xml" with a folder icon to its right.
- Report Type:** A dropdown menu showing "HTML".
- Title:** A text box containing "245".
- Timeout (in seconds):** A text box containing "25".
- Fields:** A text box containing "all".
- Buttons:** "OK" and "Close" buttons on the right side. A red arrow points to the "OK" button.

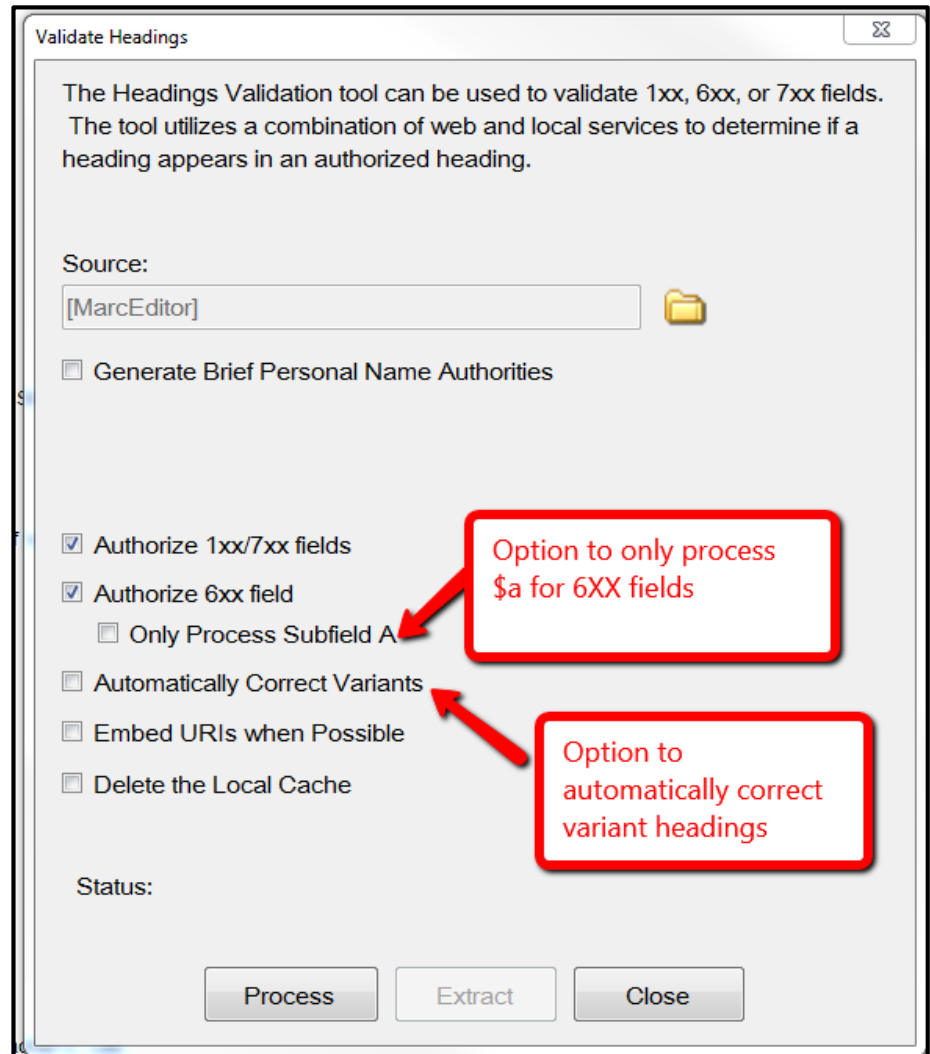
# Validate URLs - Error report

	A	B	C	D
1	<b>Errors:</b>			
2	<b>Display Field</b>	<b>URL</b>	<b>Status Code</b>	<b>Status Message</b>
3	The secret diary of Adrian Mole aged	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	404	Not Found;
4	Shoot/get treasure/repeat\$h[electronic resource]	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	404	Not Found;
5	Saturday night/Sunday morning /\$CKa	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	404	Not Found;
6	Ashes to ashes\$h[electronic resource]	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	404	Not Found;
7	Betrayal /\$CHarold Pinter.	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	404	Not Found;
8	Celebration /\$CHarold Pinter.	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	404	Not Found;
9				
10	<b>Validated:</b>			
11	<b>Display Field</b>	<b>URL</b>	<b>Status Code</b>	<b>Status Message</b>
12	A doll's house\$h[electronic resource]	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	200	OK;
13	A doll's house\$h[electronic resource]	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	200	OK;
14	'I'll leave it to you'\$h[electronic resource]	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	200	OK;
15	'I'll leave it to you'\$h[electronic resource]	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	200	OK;
16	The young idea\$h[electronic resource]	<a href="http://dx.doi.org/10.5061/dryad.8q9k7">http://dx.doi.org/10.5061/dryad.8q9k7</a>	200	OK;

# Validate Headings



- Live check against LC Authority files!
- Automatic correction of variant headings



# Validate Headings report

Headings  
Found

Headings  
Not Found

Variants  
Found

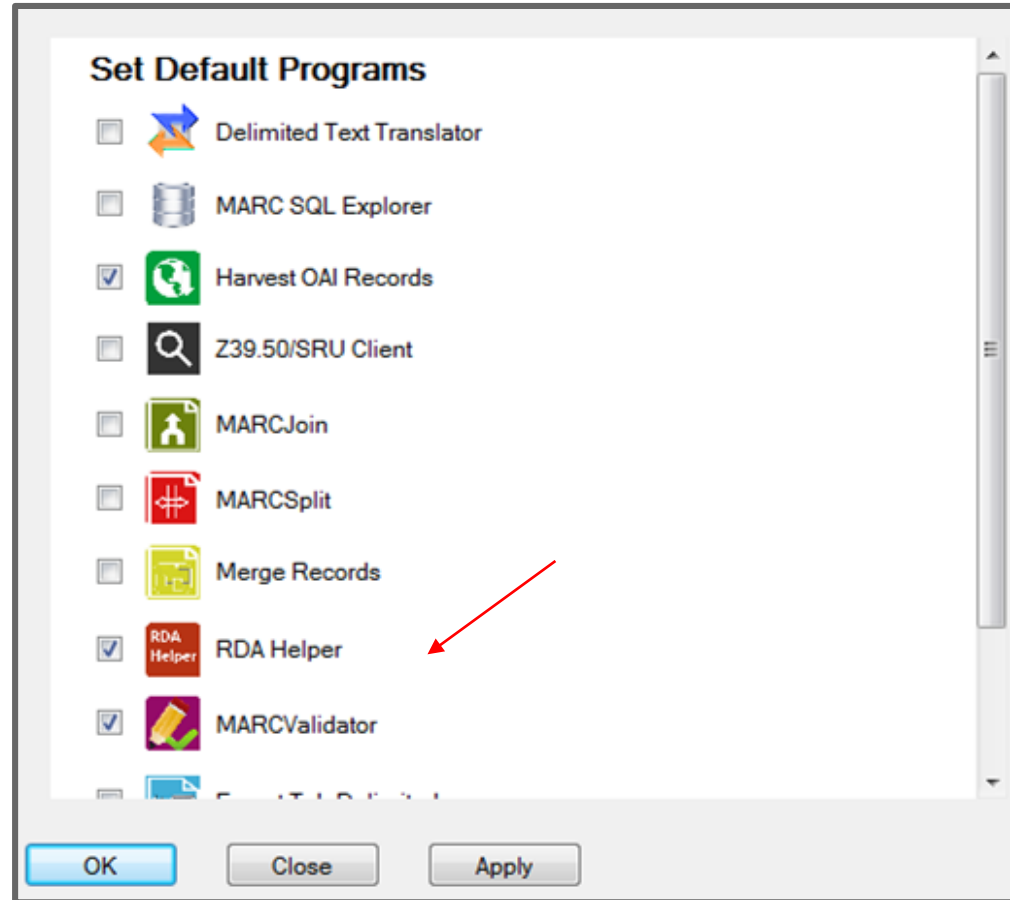
	A	B
1	<b>Validation Results:</b>	<b>Record #0</b>
2	Process completed in: 0.042416666666667 minutes.	<b>Term in Record:</b> Smith, Ken, 1947 Aug. 14-
3	Average Response Time from LC: 0.1125	<b>LC Preferred Term:</b> Smith, Ken, 1947 August 14-
4	Total Records: 5	<b>URL:</b> <a href="http://id.loc.gov/authorities/names/n2004032311">http://id.loc.gov/authorities/names/n2004032311</a>
5	<b>Records with Invalid Headings: 5</b>	
6	*****	<b>Record #1</b>
7	<b>1xx Headings Found: 0</b>	<b>Term in Record:</b> Slote, Michael A.
8	<b>6xx Headings Found: 15</b>	<b>LC Preferred Term:</b> Slote, Michael, 1941-
9	<b>7xx Headings Found: 3</b>	<b>URL:</b> <a href="http://id.loc.gov/authorities/names/n82210473">http://id.loc.gov/authorities/names/n82210473</a>
10	*****	
11	<b>1xx Headings Not Found: 0</b>	<b>Record #2</b>
12	<b>6xx Headings Not Found: 2</b>	<b>Term in Record:</b> pacific island americans
13	<b>7xx Headings Not Found: 2</b>	<b>LC Preferred Term:</b> Pacific Islander Americans
14	*****	<b>URL:</b> <a href="http://id.loc.gov/authorities/subjects/sh85093915">http://id.loc.gov/authorities/subjects/sh85093915</a>
15	<b>1xx Variants Found: 0</b>	Heading not found for: Pacific Island Americans in literature
16	<b>6xx Variants Found: 1</b>	
17	<b>7xx Variants Found: 2</b>	<b>Record #3</b>
18	*****	<b>Heading not found for:</b> Martin, Randy, 1957-
19	<b>Total Unique Headings Queried: 22</b>	Heading not found for: Peterson, Victor J.
20	<b>Found in Local Cache: 2</b>	
21	*****	<b>Record #4</b>
22		<b>Heading not found for:</b> Eating customs

# Advanced MarcEdit

- RDA Helper
- Regular Expressions
- Task Manager
- Mapping to different formats
- MARCNext
  - BIBFRAME
  - Linked Identifiers

# RDA Helper

- RDA specific data automatically generated
- based on the coded data
  - LDR/007/008
- analysis of certain fields
  - GMD
  - 300
  - 130
  - 240







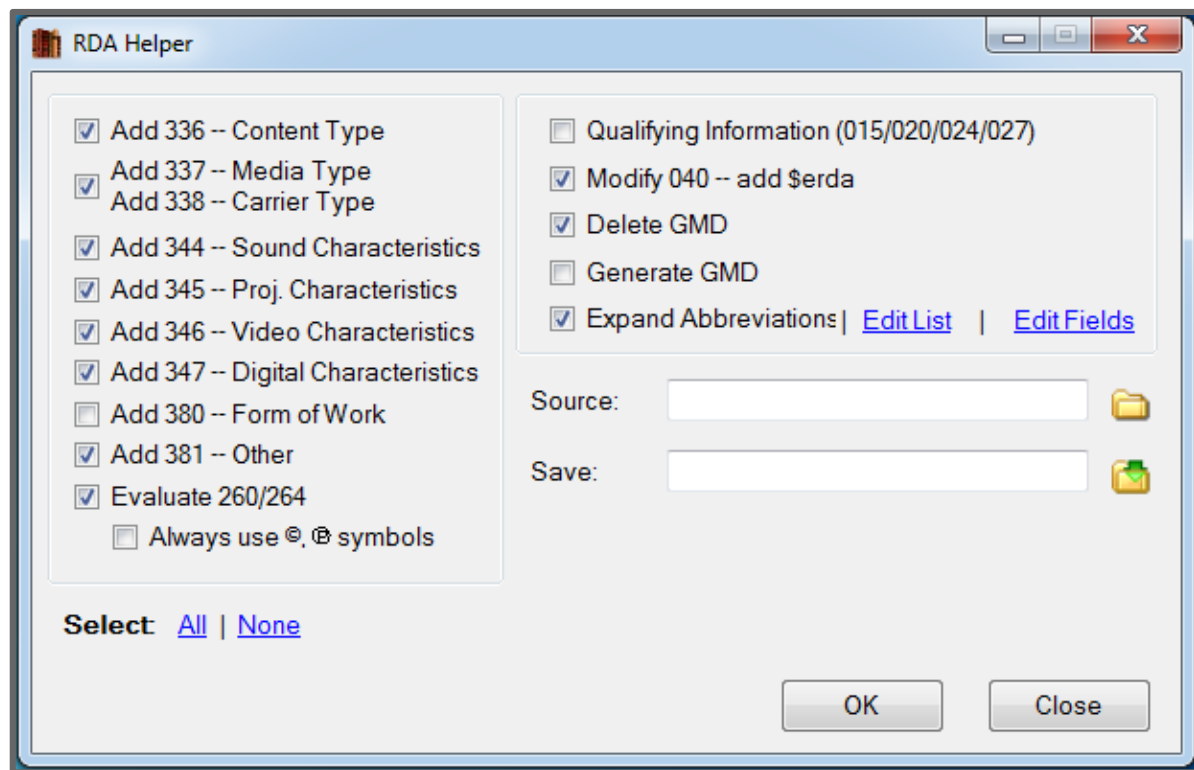
File Edit Fgnts Reports Tools OCLC WorldCat Plug-ins Help

03860cam a22003254a 4500  
001 3957491  
005 20121221093348.0  
007 ta  
008 080924s2008\\mdua\\b\\  
010 \\\$a 2007036045  
020 \\\$a9780801888182 (hardcov  
020 \\\$a0801888182 (hardcover :  
035 \\\$a(OCOLC)ocn173182396  
035 \\\$a(OCOLC)173182396  
040 \\\$aDLC\$cDLC\$dBTCTA\$dB  
\$dOrLoB-B  
050 00\$aHV4747\$b.E43 2008  
082 00\$a179/.3\$222  
090 \\\$aHV4747\$b.E43 2008\$5C  
245 00\$aElephants and ethics : \$  
Wemmer and Catherine A. Christen  
260 \\\$aBaltimore, Md. : \$bJohns  
300 \\\$axvii, 483 p. : \$bill. ; \$c26 c  
504 \\\$aincludes bibliographical re  
505 0\$aForeword / John Seidens  
Ethical Treatment of Elephants / C  
Elephant Philosophy and Science -  
Raman Sukumar -- 3. Personhood,  
Elephant Sociality and Complexity:  
-- 5. Elephants, Ethics, and History  
What Is the Evidence and How Can  
Jacob V. Cheeran -- Pt. II. Elephant  
Relativity -- 7. Elephants and Peop  
Dhriti K. Lahiri Choudhury -- 8. Carr  
Training / John Lehnhardt and Mar  
Circus-Zoo Relationship / Michael D  
Alward -- 11. View from the Big Top  
Schmitt -- 12. Challenges of Meetin  
Zoos Do Not Deserve Elephants / D  
Elephants / Michael Hutchins, Bran  
Elephants in Zoos? Can We Meet t  
Barber and Gary W. Miller -- 16. Giants in Chains: History, Biology, and Preservation of Asian

Cutting Tools  
Generate Call Numbers  
Generate Control Numbers  
Linked Data Tools  
RDA Helper  
Edit Constant Data  
Assigned Constant Data  
Manage Tasks  
Assigned Tasks  
Z39.50/SRU Options  
Validate MARC Records  
Record Deduplication  
Harvest from OAI  
Generate MARC from URL Ctrl+Shift+U  
Normalize...  
Remove Empty Fields/Subfields  
Add/Delete Field F7  
Build New Field  
Copy field  
Edit Field Data  
Edit Indicator Data F8  
Edit Subfield Data F9  
Sort by...  
Swap Field Data F11  
Preferences



# RDA Helper



The screenshot shows the 'RDA Helper' application window. It has a title bar with a book icon and the text 'RDA Helper'. The window contains two columns of checkboxes. The left column includes options for adding various characteristics (336-347), form of work (380), and other (381), along with an evaluation option (260/264) and a checkbox for always using specific symbols. The right column includes options for qualifying information, modifying 040, deleting GMD, generating GMD, and expanding abbreviations. Below these are input fields for 'Source' and 'Save', each with a folder icon. At the bottom, there are 'OK' and 'Close' buttons. A 'Select' dropdown is set to 'All'.

**RDA Helper**

☒ Add 336 -- Content Type

☒ Add 337 -- Media Type

☒ Add 338 -- Carrier Type

☒ Add 344 -- Sound Characteristics

☒ Add 345 -- Proj. Characteristics

☒ Add 346 -- Video Characteristics

☒ Add 347 -- Digital Characteristics

☐ Add 380 -- Form of Work

☒ Add 381 -- Other

☒ Evaluate 260/264

☐ Always use @, @ symbols


☐ Qualifying Information (015/020/024/027)


☒ Modify 040 -- add \$erda

☒ Delete GMD

☐ Generate GMD

☒ Expand Abbreviations | [Edit List](#) | [Edit Fields](#)

Source:  

Save:  

Select: [All](#) | [None](#)

**OK** **Close**

Ex

File Editor: Mixed file.mrk

File Edit Fonts Reports Tools OCLC WorldCat Plug-ins Help

=LDR 03860cam a22003254i 4500  
 =001 3957491  
 =005 20121221093348.0  
 =007 ta  
 =008 080924s2008\\mdual\\b\\l\\001\\0\\eng\\  
 =010 \\\$a 2007036045  
 =020 \\\$a9780801888182 (hardcover : alk. paper)  
 =020 \\\$a0801888182 (hardcover : alk. paper)  
 =035 \\\$a(OCoLC)ocn173182396  
 =035 \\\$a(OCoLC)173182396  
 =040 \\\$aDLC\$cDLC\$dBTCTA\$dBAKER\$dYDXCP\$dOCLCG\$dC#P\$dIXA\$dCDX  
 \$dYAM\$dDLC\$dOrLoB-B  
 =050 00\$aHV4747\$b.E43 2008  
 =082 00\$a179/.3\$222  
 =090 \\\$aHV4747\$b.E43 2008\$5CaOGU  
 =245 00\$aElephants and ethics : \$btoward a morality of coexistence / \$cedited by  
 Christen Wemmer and Catherine A. Christen ; foreword by John Seidensticker.  
 =260 \\\$aBaltimore, Md. : \$bJohns Hopkins University Press, \$c2008.  
 =300 \\\$axvii, 483 p. : \$bill. ; \$c26 cm.  
 =504 \\\$aIncludes bibliographical references and index.  
 =505 0\\\$aForeword / John Seidensticker -- 1. Introduction Never Forgetting the  
 Importance of Ethical Treatment of Elephants / Christen Wemmer and Catherine A.  
 Christen -- Pt. I. Overview of Elephant Philosophy and Science -- 2. Elephants in Time  
 and Space: Evolution and Ecology / Raman Sukumar -- 3. Personhood, Memory, and  
 Elephant Management / Gary Varner -- 4. Elephant Sociality and Complexity: The  
 Scientific Evidence / Joyce H. Poole and Cynthia J. Moss -- 5. Elephants, Ethics, and  
 History / Nigel Rothfels -- 6. Pain, Stress, and Suffering in Elephants: What Is the  
 Evidence and How Can We Measure It? / Janine L. Brown, Nadja Wielebnowski and  
 Jacob V. Cheeran -- Pt. II. Elephants in the Service of People: Cultural Differences and  
 Ethical Relativity -- 7. Elephants and People in India: Historical Patterns of Capture and  
 Management / Dhriti K. Lahiri Choudhury -- 8. Carrots and Sticks, People and  
 Elephants: Rank, Domination, and Training / John Lehnhardt and Marie Galloway -- 9.  
 Canvas to Concrete: Elephants and the Circus-Zoo Relationship / Michael D. Kreger --  
 10. Why Circuses Are Unsuitable to Elephants / Lori Alward -- 11. View from the Big Top:  
 Why Elephants Belong in North American Circuses / Dennis Schmitt -- 12. Challenges  
 of Meeting the Needs of Captive Elephants / Jane Garrison -- 13. Most Zoos Do Not  
 Deserve Elephants / David Hancocks -- 14. Zoos as Responsible Stewards of  
 Elephants / Michael Hutchins, Brandie Smith and Mike Keele -- 15. Can We Assess

File Editor: Mixed file-RDA Helper.mrk

File Edit Fonts Reports Tools OCLC WorldCat Plug-ins Help

=LDR 03860cam a22003254i 4500  
 =001 3957491  
 =005 20121221093348.0  
 =007 ta  
 =008 080924s2008\\mdual\\b\\l\\001\\0\\eng\\  
 =010 \\\$a 2007036045  
 =020 \\\$a9780801888182\$hardcover : alk. paper  
 =020 \\\$a0801888182\$hardcover : alk. paper  
 =035 \\\$a(OCoLC)ocn173182396  
 =035 \\\$a(OCoLC)173182396  
 =040 \\\$aDLC\$erda\$cDLC\$dBTCTA\$dBAKER\$dYDXCP\$dOCLCG\$dC#P\$dIXA  
 \$dCDX\$dYAM\$dDLC\$dOrLoB-B\$beng  
 =050 00\$aHV4747\$b.E43 2008  
 =082 00\$a179/.3\$222  
 =090 \\\$aHV4747\$b.E43 2008\$5CaOGU  
 =245 00\$aElephants and ethics : \$btoward a morality of coexistence / \$cedited by  
 Christen Wemmer and Catherine A. Christen ; foreword by John Seidensticker.  
 =264 1\\\$aBaltimore, Md. : \$bJohns Hopkins University Press, \$c2008.  
 =300 \\\$axvii, 483 pages : \$billustrations ; \$c26 cm.  
 =336 \\\$atext\$bxxt\$2rdacontent  
 =337 \\\$aunmediated\$bn\$2rdamedia  
 =338 \\\$avolume\$bnc\$2rdacarrier  
 =504 \\\$aIncludes bibliographical references and index.  
 =505 0\\\$aForeword / John Seidensticker -- 1. Introduction Never Forgetting the  
 Importance of Ethical Treatment of Elephants / Christen Wemmer and Catherine A.  
 Christen -- Pt. I. Overview of Elephant Philosophy and Science -- 2. Elephants in Time  
 and Space: Evolution and Ecology / Raman Sukumar -- 3. Personhood, Memory, and  
 Elephant Management / Gary Varner -- 4. Elephant Sociality and Complexity: The  
 Scientific Evidence / Joyce H. Poole and Cynthia J. Moss -- 5. Elephants, Ethics, and  
 History / Nigel Rothfels -- 6. Pain, Stress, and Suffering in Elephants: What Is the  
 Evidence and How Can We Measure It? / Janine L. Brown, Nadja Wielebnowski and  
 Jacob V. Cheeran -- Pt. II. Elephants in the Service of People: Cultural Differences and  
 Ethical Relativity -- 7. Elephants and People in India: Historical Patterns of Capture and  
 Management / Dhriti K. Lahiri Choudhury -- 8. Carrots and Sticks, People and  
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 Canvas to Concrete: Elephants and the Circus-Zoo Relationship / Michael D. Kreger --  
 10. Why Circuses Are Unsuitable to Elephants / Lori Alward -- 11. View from the Big Top:  
 Why Elephants Belong in North American Circuses / Dennis Schmitt -- 12. Challenges

# Regular Expressions

- What is a regular expression
- MarcEdit functions supported
- Major components of the language
- Getting regular expressions help
- Express yourself with regex

# Regular Expression

“A regular expression (regex or regexp for short) is a special text string for describing a search pattern. You can think of regular expressions as wildcards on steroids”.

`\b[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,4}\b`

<http://www.regular-expressions.info/>

# MarcEdit Regex Support

Extract / Delete

Find / Replace

Delete Field

Edit Subfield



MarcEdit remembers the last 10 replacements

Special Undo function that will undo your last global update

# Regex Literal Characters

backslash \

caret ^

dollar sign \$

period or dot .

vertical bar or pipe symbol |

question mark ?

plus sign +

opening parenthesis (

closing parenthesis )

opening square bracket [

opening curly brace {

asterisk or star \*

# Components of Regex

## Examples

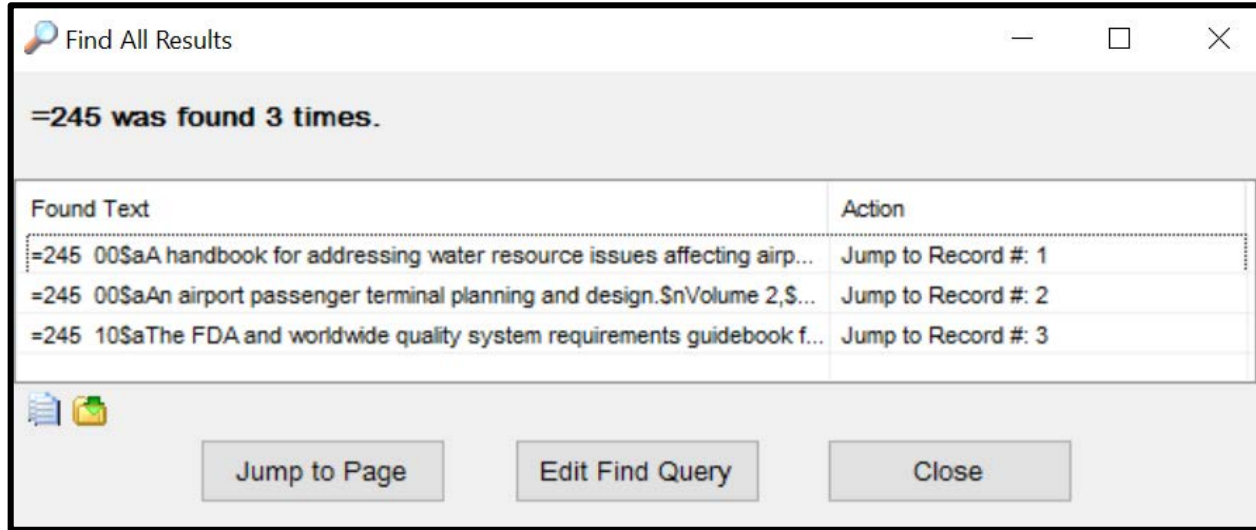
Groups and ranges	[ ] [^]	explicit set of characters to match [0-9], [a-z], [A-Z]
	( )	logical grouping of part of an expression (abc)
	{ }	explicit quantifier notation ab{2}c = abbc
Character classes	\w	matches any word character
	\d	matches any decimal digit



# Metacharacters Examples

Metacharacters Defined		Metacharacter Examples	
<code>^</code>	start of string	<code>^abc</code>	<code>abc</code> , <code>abcdef</code> , <code>abc123</code>
<code>\$</code>	end of string	<code>abc\$</code>	<code>abc</code> , <code>defabc</code> , <code>123abc</code>
<code>.</code>	any character	<code>a.c</code>	<code>abc</code> , <code>axc</code> , <code>amc</code> , <code>a3c</code>
<code>*</code>	0 or more previous character	<code>ab*c</code>	<code>ac</code> , <code>abc</code> , <code>abbc</code> , <code>abbbc</code>
<code>.*</code>	any sequence of characters	<code>a.*c</code>	<code>ac</code> , <code>axxc</code> , <code>amd</code> , <code>amvfc</code>
<code>[aeiou]</code>	matches any single character included in the specified set		
<code>[^aeiou]</code>	matches any single character NOT specified in the set		

# Regex Examples



Find

(=245 .)0(\\$aA )

(=245 .)0(\\$aAn )

(=245 .)0(\\$aThe )

Replace with

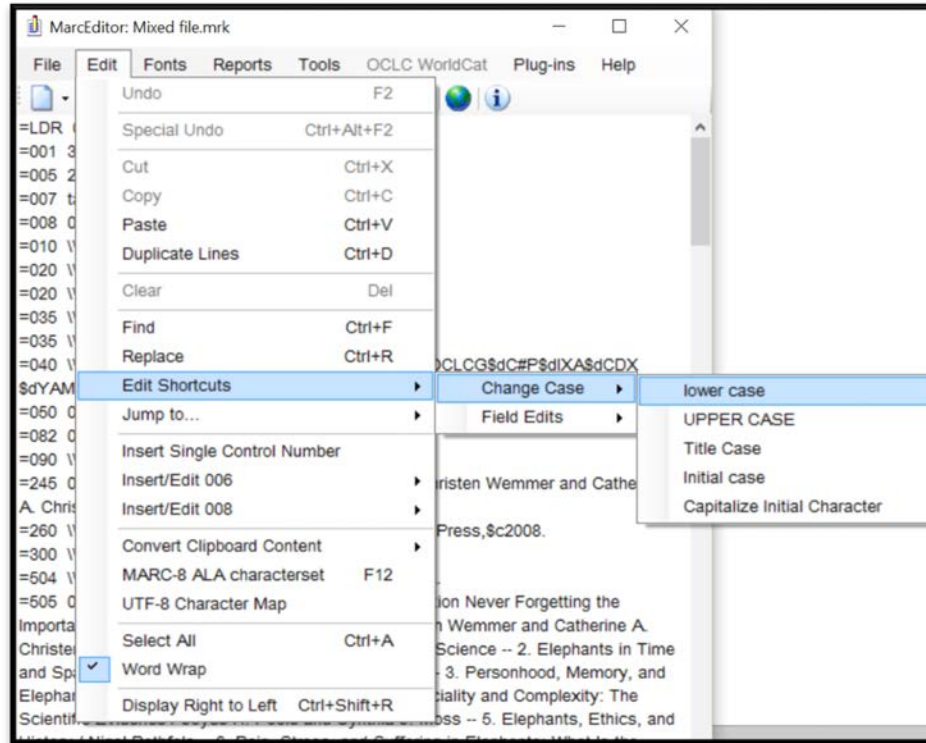
\${1}2\$2

\${1}3\$2

\${1}4\$2

# Regex Examples

=245 10 \$aELEPHANTS AND ETHICS



# Regex Examples

=245 10 \$aELEPHANTS AND ETHICS

Find What `(=245.{4})(\sa.)([A-Z .]*)`

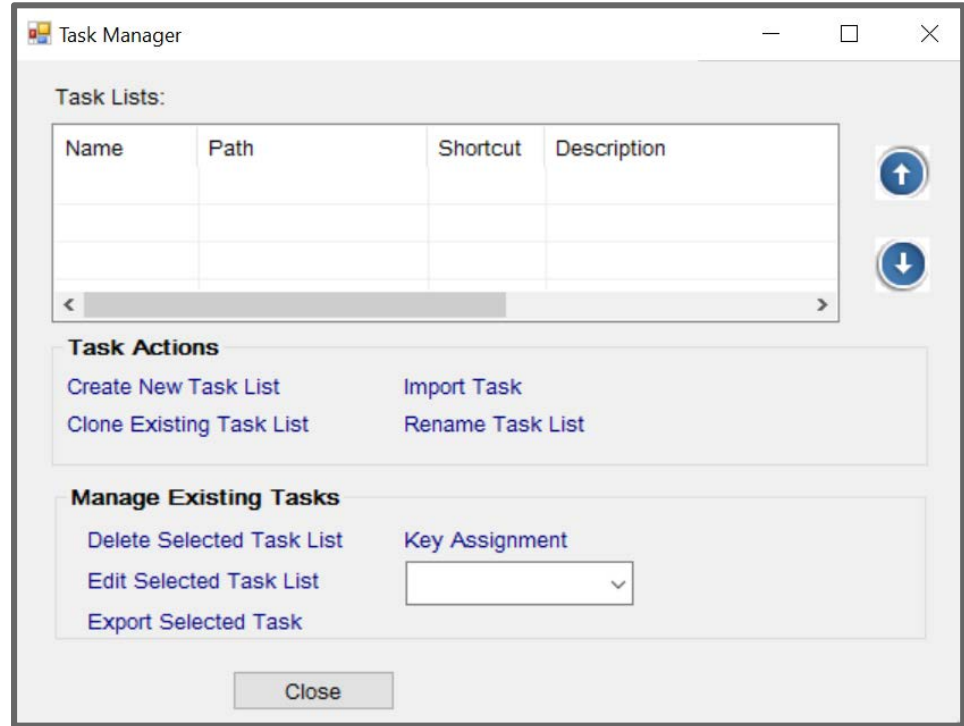
Replace With `$1$2Icase($3)`

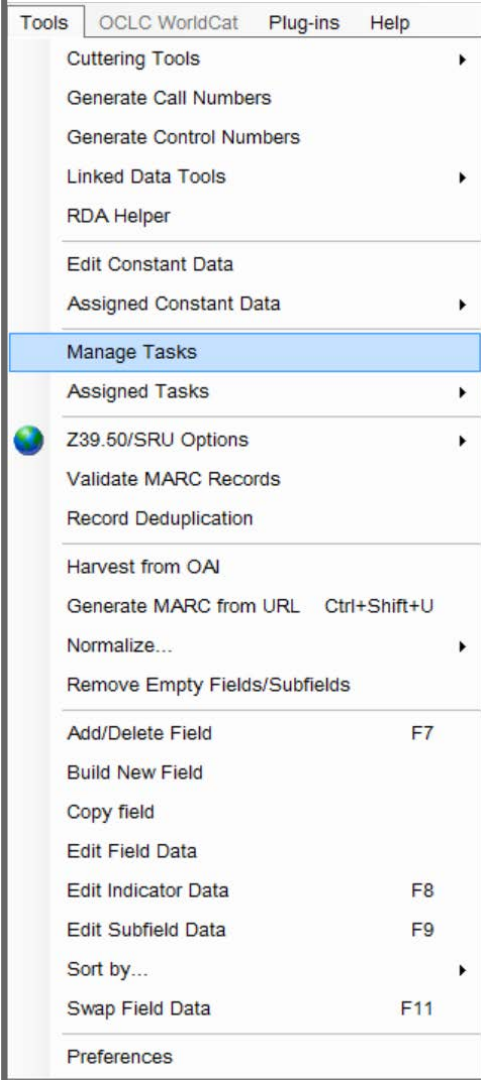
# Task Manager

- Provides a way to create defined task lists executed automatically
- Anything done in the MarcEditor, you can automate as task
- Chains task lists together
- Performs the tasks procedurally

# Task Manager

- You can:
  - Create new tasks
  - Clone tasks
  - Rename tasks
  - Delete tasks
  - Edit tasks
  - Share tasks
    - import
    - export
  - Key assignment









# Task Manager

## Demo

# Task Manager

add a new task

Actions:    

- Add Replace All Task
- Add New Field Task
- Add Delete Field Task
- Add Field Edit Task
- Add Edit Subfield Task
- Add Edit Indicator Task
- Add Swap Field Task
- Add Copy Field Task
- Add Task List
- Add RDA Helper
- Add Linked Data Task
- Add Build New Field Task





Edit Task List



Task List Name:

Description:

Tasks:

RDAHELPER	1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1				
DELETE 029	0	False	False	False	
DELETE 049	0	False	False	False	
DELETE 060	0	False	False	False	
DELETE 082	0	False	False	False	
DELETE 084	0	False	False	False	
DELETE 506	0	False	False	False	
ADD 506	\\\$aAccess restricted to Ryerson students, faculty and staff.\$5CaOTR				
REPLACE\$nAvailable via World Wide Web.	0				1
SUBFIELD_EDIT 856	3		View this ebook	0 0	
DELETE 994	0	False	False	False	
DELETE 981	0	False	False	False	
DELETE 910	0	False	False	False	
REPLACE(=245.{4})(\\$.a.)([A-Z .]*)	\$1\$2Icase(\$3)	2			1

Actions:    

Navigation:  



# Mapping to Different Formats

Input File:  
C:\

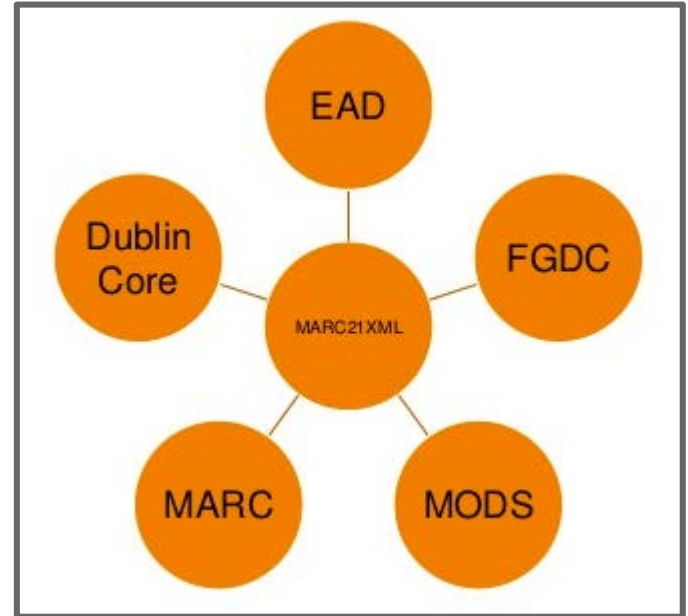
Output File:  
C:\

Functions

- MarcBreaker
- MarcMaker
- MARC21=>MARC21XML
- MARC21XML=>MARC21
- Dublin Core => MARC
- EAD=>HTML
- EAD=>MARC
- FGDC=>MARC
- MARC=>Dublin Core
- MARC=>FGDC
- MARC=>MODS
- MODS=>MARC
- MODS=>MARCXML

☐ Translate to MARC-8  
☐ Translate to UTF8

Results:



MARC Tools

Tools

Input File:  
C:\

Output File:  
C:\

Functions

- MarcBreaker
- MarcMaker
- MARC21=>MARC21XML
- MARC21XML=>MARC21
- Dublin Core => MARC
- EAD=>HTML
- EAD=>MARC
- FGDC=>MARC
- MARC=>Dublin Core**
- MARC=>FGDC
- MARC=>MODS
- MODS=>MARC
- MODS=>MARCXML

Results:

MarcEditor: Springer test.mrk

File Edit Fonts Reports Tools OCLC WorldCat Plug-ins Help

...

```
<?xml version="1.0" encoding="utf-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:dc="http://purl.org/dc/elements/1.1/">
  <rdf:Description>
    <dc:title>Encyclopedia of the History of Psychological Theories [electronic resource]
  </dc:title>
    <dc:creator>Rieber, Robert W.</dc:creator>
    <dc:creator>SpringerLink (Online service)</dc:creator>
    <dc:type>text</dc:type>
    <dc:publisher>New York, NY : Springer US,</dc:publisher>
    <dc:date>2012.</dc:date>
    <dc:language>eng</dc:language>
    <dc:description>"May 2013"</dc:description>
    <dc:description>Part 1</dc:description>
    <dc:subject>Philosophy (General).</dc:subject>
    <dc:subject>Science</dc:subject>
    <dc:subject>Sociology, general.</dc:subject>
    <dc:relation>Springer eBooks</dc:relation>
    <dc:relation></dc:relation>
    <dc:identifier>http://dx.doi.org/10.1007/978-1-4419-0463-8</dc:identifier>
    <dc:rights>Access restricted</dc:rights>
  </rdf:Description>
</rdf:RDF>
```

\\psf\Home\Desktop\Springer test.mrk loaded in 0.000000 seconds.



Tools

Input File:

C:\

Output File:

C:\

Functions

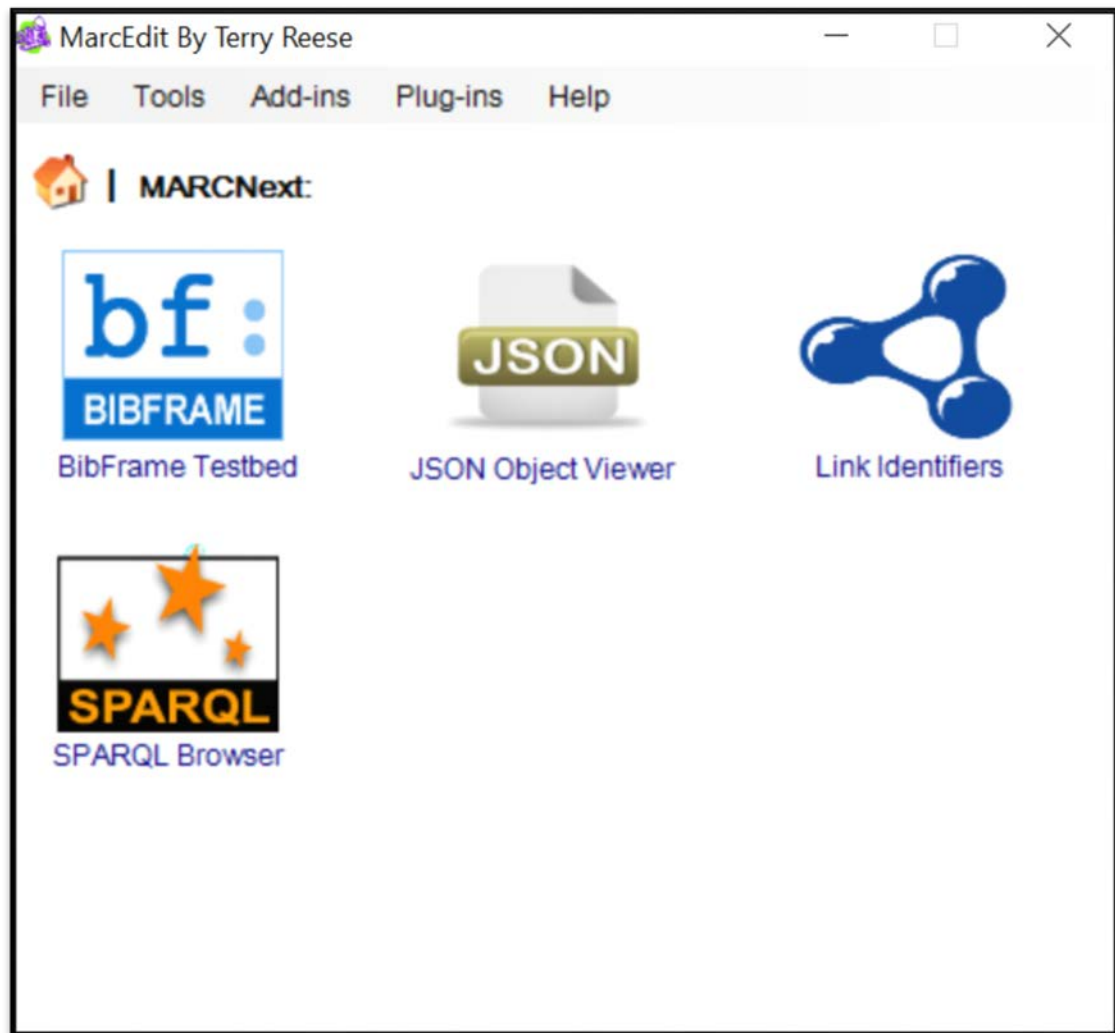
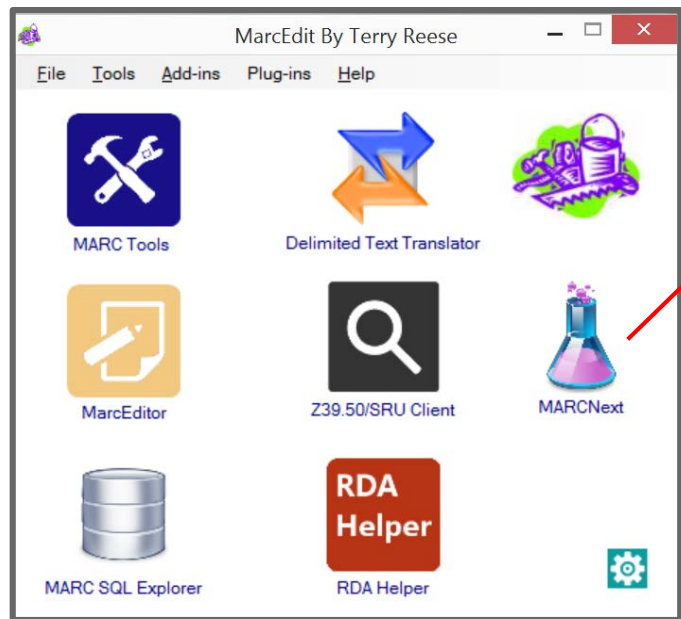
MarcBreaker  
 MarcMaker  
 MARC21=>MARC21XML  
 MARC21XML=>MARC21  
 Dublin Core => MARC  
 EAD=>HTML  
 EAD=>MARC  
 FGDC=>MARC  
 MARC=>Dublin Core  
 MARC=>FGDC  
**MARC=>MODS**  
 MODS=>MARC  
 MODS=>MARCXML

Results:

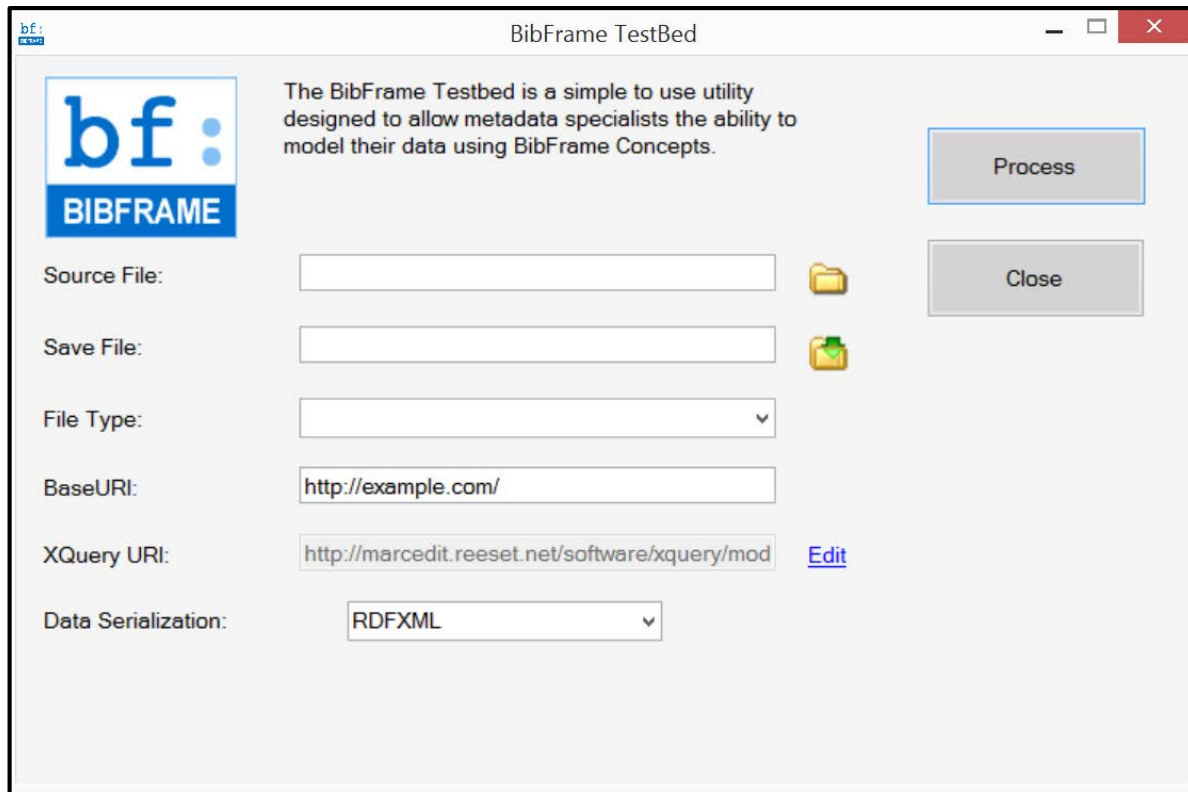
```

<?xml version="1.0" encoding="UTF-8"?>
- <modsCollection xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.loc.gov/mods/v3" xsi:schemaLocation="http://www.loc.gov/mods/v3
  http://www.loc.gov/standards/mods/v3/mods-3-0.xsd">
  - <mods version="3.0">
    - <titleInfo>
      <title>Letters of Lydia Maria Child</title>
    </titleInfo>
    - <name type="personal">
      <namePart>Child, Lydia Maria Francis</namePart>
      <namePart type="date">1802-1880</namePart>
    - <role>
      <roleTerm type="text" authority="marcrelator">creator</roleTerm>
    </role>
    </name>
    - <name type="personal">
      <namePart>Phillips, Wendell</namePart>
      <namePart type="date">1811-1884</namePart>
    </name>
    - <name type="personal">
      <namePart>Sewall, Harriet Winslow</namePart>
      <namePart type="date">1819-1889</namePart>
    </name>
    - <name type="personal">
      <namePart>Whittier, John Greenleaf</namePart>
      <namePart type="date">1807-1892</namePart>
    </name>
    <typeOfResource>text</typeOfResource>
    <genre authority="marc">biography</genre>
    - <originInfo>
      - <place>
        <placeTerm type="code" authority="marccountry">mau</placeTerm>
      
```

# MARC Next




# MARC to BIBFRAME




The screenshot shows a web application window titled "BibFrame TestBed". On the left is the "bf: BIBFRAME" logo. The main content area contains a description: "The BibFrame Testbed is a simple to use utility designed to allow metadata specialists the ability to model their data using BibFrame Concepts." Below this are several input fields: "Source File:" with a text box and a folder icon; "Save File:" with a text box and a download icon; "File Type:" with a dropdown menu; "BaseURI:" with a text box containing "http://example.com/"; "XQuery URI:" with a text box containing "http://marcedit.reeset.net/software/xquery/mod" and an "Edit" link; and "Data Serialization:" with a dropdown menu set to "RDFXML". On the right side of the window are two buttons: "Process" and "Close".

**bf: BIBFRAME**

The BibFrame Testbed is a simple to use utility designed to allow metadata specialists the ability to model their data using BibFrame Concepts.

Source File:  

Save File:  

File Type:

BaseURI:

XQuery URI:  [Edit](#)

Data Serialization:

**Process**

**Close**

- <bf:Work rdf:about="http://id.loc.gov/ASPS00000075/cwld">
 <rdf:type rdf:resource="http://bibframe.org/vocab/Text"/>
 <bf:authorizedAccessPoint> Sedgwick, Catherine Maria, 1789-1867. Life and letters of Catharine M. Sedgwick [electronic resource]
 Catharine M. Sedgwick</bf:authorizedAccessPoint>
 <bf:workTitle rdf:resource="http://id.loc.gov/ASPS00000075/cwldtitle319"/>
 <bf:creator rdf:resource="http://id.loc.gov/ASPS00000075/cwldperson320"/>
 <bf:contributor rdf:resource="http://id.loc.gov/ASPS00000075/cwldperson321"/>
 <bf:language rdf:resource="http://id.loc.gov/vocabulary/languages/eng"/>
 <bf:subject rdf:resource="http://id.loc.gov/ASPS00000075/cwldperson323"/>
 <bf:subject rdf:resource="http://id.loc.gov/ASPS00000075/cwldtopic324"/>
 <bf:relatedResource rdf:resource="http://id.loc.gov/ASPS00000075/cwldwork325"/>
 <bf:reproduction rdf:resource="http://id.loc.gov/ASPS00000075/cwldwork326"/>
 <bf:series rdf:resource="http://id.loc.gov/ASPS00000075/cwldwork327"/>
 <bf:derivedFrom rdf:resource="http://id.loc.gov/ASPS00000075/cwld.marcxml.xml"/>
 <bf:authorizedAccessPoint xml:lang="x-bf-hash"> deweymaryelizabeth18211910sedgwickcatherinemaria17891867lifeandlettersofcatharinemsedgwickengwork
 </bf:Work>
- <bf:Work rdf:about="http://id.loc.gov/ASPS00000075/cwldwork325">
 <bf:title> Sabin Americana, 1500-1926.</bf:title>
 <bf:authorizedAccessPoint> Sabin Americana, 1500-1926.</bf:authorizedAccessPoint>
 </bf:Work>
- <bf:Work rdf:about="http://id.loc.gov/ASPS00000075/cwldwork326">
 <bf:authorizedAccessPoint> Life and letters of Catharine M. Sedgwick</bf:authorizedAccessPoint>
 <bf:title> Life and letters of Catharine M. Sedgwick</bf:title>
 </bf:Work>
- <bf:Work rdf:about="http://id.loc.gov/ASPS00000075/cwldwork327">
 <bf:title> American civil war: letters and diaries</bf:title>
 <bf:authorizedAccessPoint> American civil war: letters and diaries</bf:authorizedAccessPoint>
 </bf:Work>
- <bf:Work rdf:about="http://id.loc.gov/ASPS00000097/cwld">
 <rdf:type rdf:resource="http://bibframe.org/vocab/Text"/>
 <bf:authorizedAccessPoint> Gibbons, Abby (Hopper), 1801-1893. Life of Abby Hopper Gibbons [electronic resource] : Told by
 daughter, Sarah Hopper Emerson. Life of Abby Hopper Gibbons Told chiefly through her correspondence</bf:authorizedAccessPoint>
 <bf:workTitle rdf:resource="http://id.loc.gov/ASPS00000097/cwldtitle26"/>
 <bf:creator rdf:resource="http://id.loc.gov/ASPS00000097/cwldperson27"/>
 <bf:contributor rdf:resource="http://id.loc.gov/ASPS00000097/cwldperson28"/>
 <bf:language rdf:resource="http://id.loc.gov/vocabulary/languages/eng"/>
 <bf:subject rdf:resource="http://id.loc.gov/ASPS00000097/cwldperson30"/>
 <bf:classificationLcc rdf:resource="http://id.loc.gov/authorities/classification/CT275.G37"/>
 <bf:reproduction rdf:resource="http://id.loc.gov/ASPS00000097/cwldwork32"/>
 <bf:series rdf:resource="http://id.loc.gov/ASPS00000097/cwldwork33"/>
 <bf:derivedFrom rdf:resource="http://id.loc.gov/ASPS00000097/cwld.marcxml.xml"/>
 <bf:authorizedAccessPoint xml:lang="x-bf-hash"> emersonsarahhoppergibbons18351918gibbonsabbyhopper18011893lifeofabbyhoppergibbonstoldchieflythrough
 </bf:Work>
- <bf:Work rdf:about="http://id.loc.gov/ASPS00000097/cwldwork32">
 <bf:authorizedAccessPoint> Life of Abby Hopper Gibbons</bf:authorizedAccessPoint>
 <bf:title> Life of Abby Hopper Gibbons</bf:title>
 </bf:Work>
- <bf:Work rdf:about="http://id.loc.gov/ASPS00000097/cwldwork33">
 <bf:title> American civil war: letters and diaries</bf:title>
 <bf:authorizedAccessPoint> American civil war: letters and diaries</bf:authorizedAccessPoint>
 </bf:Work>



## Build Linked Records



The Linked Data Tool has been designed to loop through a set of MARC records and resolve access points in the 1xx, 6xx, and 7xx

Source File:



Process

Save File:



Close

### AutoDetected Data

LC/NACO  
GND  
ULAN

### AutoDetected Data

AAT  
AGROVOC  
GND  
LC/NACO  
LCSH  
LCSH Children  
LCGFT  
LCMPT  
LCDGT  
MESH  
TGM

### ID Services



☒ AutoDetect Main/Added Entry



☒ AutoDetect Subject ID



☐ Process 3xx Fields



☐ OCLC VIAF

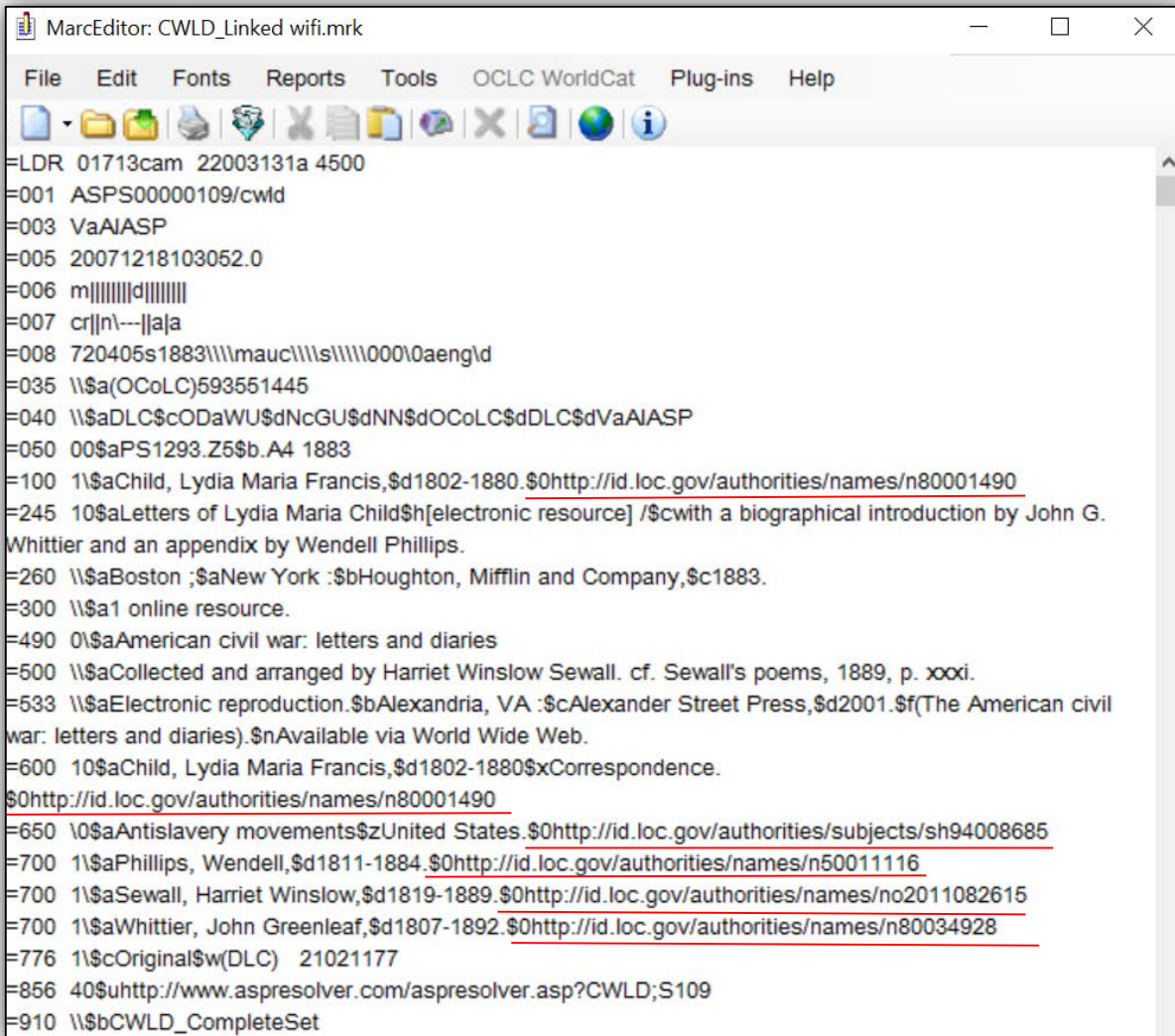
LC (NACO)



☐ Embed OCLC Work ID

OCLC Number: 001

France (BnF)  
France (Sudox)  
Germany  
Getty (ULAN)  
Hispanica  
Hungary  
ISNI  
Japan (NDL)  
Israel  
Italy  
Latvia  
Lebanon  
LC (NACO)  
Netherlands  
Norway  
Perseus  
Poland (Nation)  
Poland (NUKA)  
Portugal  
Singapore  
Spain  
Sweden  
Swiss (Nation)  
Syriac  
Swiss (RERO)  
Russia  
Vatican  
Wikipedia  
xA  
xR  
LC (NACO)





# Resources

MarcEdit website <http://marcredit.reeset.net/>

Youtube MarcEdit chanel <https://www.youtube.com/user/tpreese/videos>

MarcEdit Listserv <https://listserv.gmu.edu/cgi-bin/wa?A0=marcredit-l>

AUTOCAT Listserv <https://listserv.syr.edu/scripts/wa.exe?A0=AUTOCAT>

MarcEdit 101 Webinar Series <http://marcredit.reeset.net/marcredit-101-workshop>

# Regex Help

The “premier website about regular expressions” <http://www.regular-expressions.info/>

Quick reference

<http://msdn.microsoft.com/en-us/library/az24scfc>

Regex cheatsheet

<http://regexlib.com/CheatSheet.aspx>

<http://www.cheatography.com/davechild/cheat-sheets/regular-expressions/>

# THANK YOU

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