THE AMERICAN
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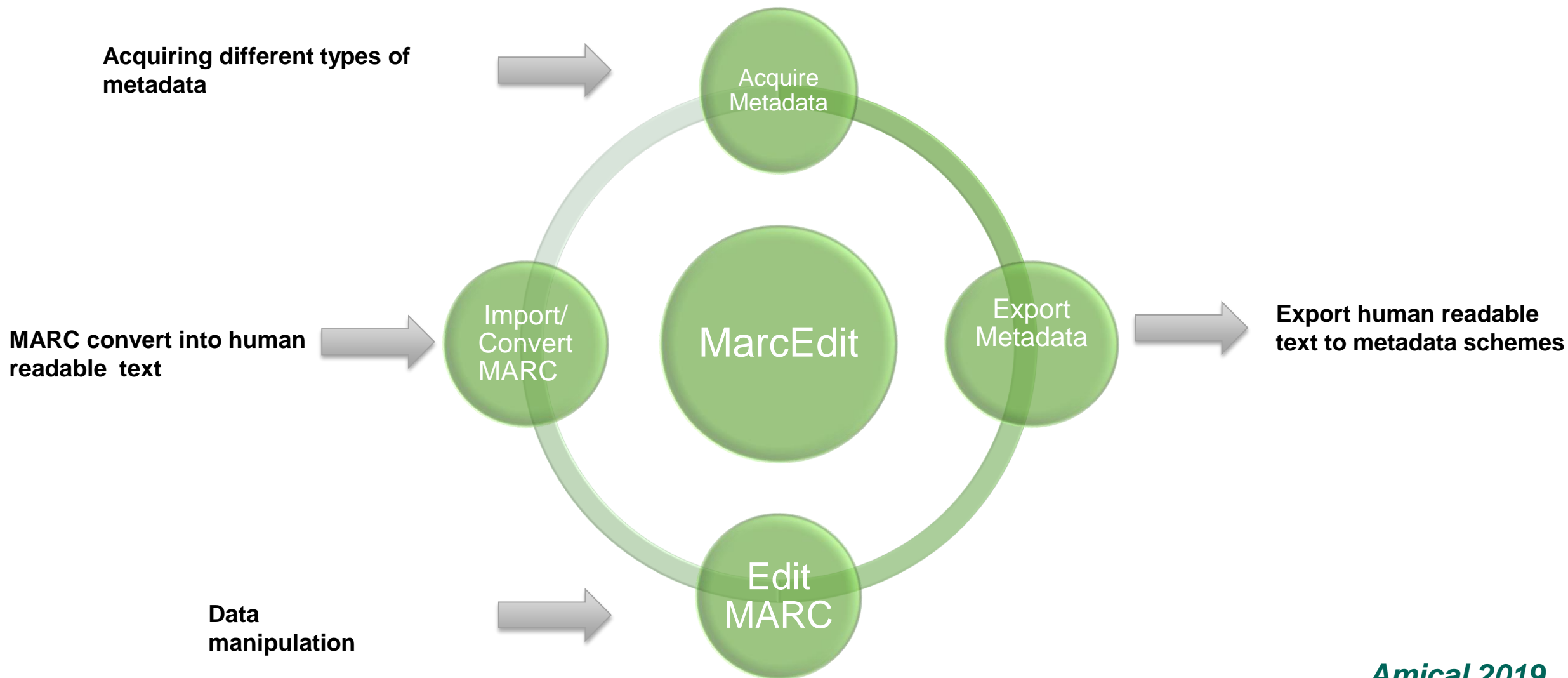The conference for libraries, technology & learning at international American universities.

The "ABC" of MarcEdit

Ghenwa Wehbeh & Omar Farhoud

- ❑ **MarcEdit Biography**
- ❑ **Basic Functions and Tools**
- ❑ **MarcNext**
- ❑ **ILS and OCLC Integration**
- ❑ **Live Demo**

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MarcEdit Biography

❏Freeware developed by Terry Reese in 1999 (Oregon State University)

❏Initiated from a cataloguing clean up (bulk) project

❏Works within a very heterogeneous metadata environment

❏Compatible with Windows/Linux/MacOS

MarcEdit Biography

❑ Offers modern libraries the ability to work with different formats metadata acquired from different sources

❑ Capacity of manipulating data enabling librarians to make the best use of their resources

❑ Multiple schema interoperability among various systems

❑ Latest stable version is 7.1

Basic Functions and Tools

Acquiring different types of metadata

MARC convert into human readable text

Data manipulation

Export human readable text to metadata schemes

Acquire Metadata

Import/ Convert MARC

MarcEdit

Export Metadata

Edit MARC

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Basic Functions and Tools

MARCJoin

MARCSplit

Merge Records

MARCValidator

Batch Process Records

Harvest OAI Records

Z39.50/SRU Client

RDA Helper

Clustering Tools

Delimited Text Translator

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MarcEdit

MARCJoin   ×

MARCJoin Utility

Save File:
c:\file_output

File(s) to Join:
C:\Input1.mrc|C:\Input2.mrc

Process

Close
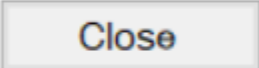
Edit File
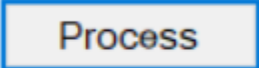
Options
☑ Join Individual Files

Status:

❑ Combines separate Marc records into single file

❑ All the files must be in the same format .mrc

❑ If you are merging files already in (.mrc) format, your destination file must also be in(.mrc) format

❑ When the process finishes, you will receive a confirmation message in the UI screen

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MARCJoin

MARCJoin Utility

Save File:

c:\file_output

File(s) to Join:

C:\Input1.mrc|C:\Input2.mrc

Options
☑ Join Individual Files

Status:

Process

Close

Edit File

❑ Splits large/Bulk MARC record file into smaller files for easier handling

❏ Ability to customize your selection of (Records Per File and # of files)

MARCSplit

MARCSplit Utility

Source File:

C:\Input1.mrc

Destination Folder:

C:\Desktop\MARC_Folder

Options

Records Per File:

50000

☑ # of files:

5

Process

Close

❑ Splits large/Bulk MARC record file into smaller files for easier handling

❑ Ability to customize your selection of (Records Per File and # of files)

Merge MARC Records

Merge Record Data

Source File:

c:\input1
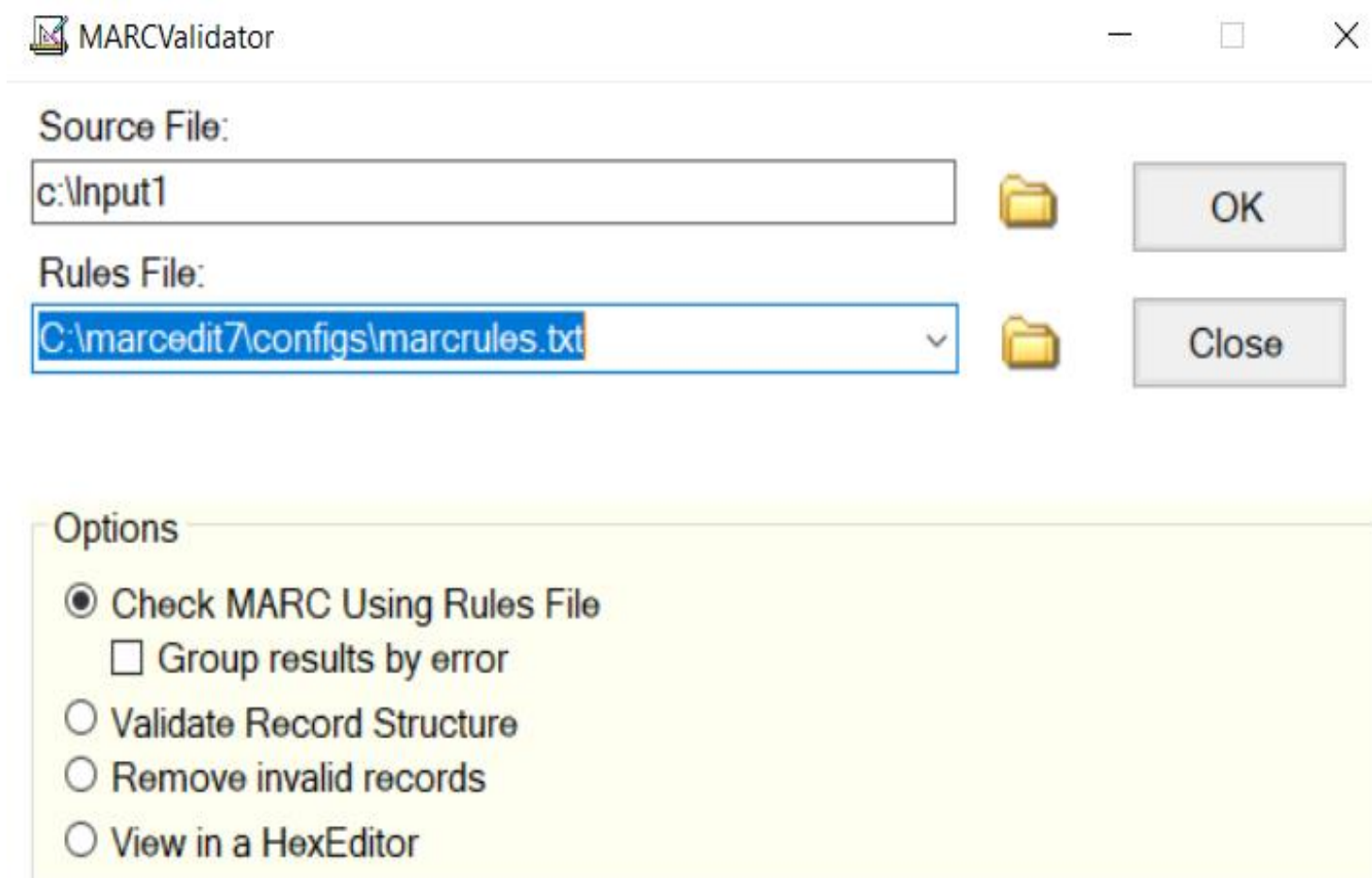
Merge File:

c:\input2

Save File:

c:\output

Record Identifier: MARC2 ☑ Customize Fields
☐ Unicode Encoded

Next => | Cancel

- ❏ Merging additional content into existing records i.e. specific field added

- ❏ Select the field / fields you want to import under Customize Fields

- ❏ Merging options :
  - Unique data
  - All data
  - Selected fields

- ❑ Validate records according to **rules file** (MARC21)
  - i.e. structural problems in a MARC record

- ❑ Identify invalid records
  - A mrc file labeled mrc_error.mrc will be created

- ❑ Remove invalid records
  - A mrc file labeled mrc_clean.mrc will be created

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MarcEdit

```
DR 01333nam a2200337 u 4500
01 4221
05 20020514112125.0
08 940501e19760601enka\\\\\b\\\\000\0\ENG\\
10 \\$a76356692
10 \\$a88051555
15 \\$aGB***
20 \\$a0500810125
35 \\$a(OCoLC-LQU)4221
35 \\$a(OCoLC)2120181
40 \\$aLQU$bENG$cLQU
49 \\$aLQUA
82 04$a135.3
00 10$aCoxhead, David,$d1940-
45 10$aDreams :$bvisions of the night /$cDavid Coxhead, Susan H
60 \\$a London :$bThames and Hudson,$c1976.
60 \\$aNew York :$bThames and Hudson,$cc1976, rep.1990.
00 \\$a95, [1] p. :$bill. (some col.) ;$c28 cm.
90 \\$aArt and imagination
04 \\$aIncludes bibliographical references (p. [96]).
50 \0$a$uDreams
00 10$aHiller, Susan.
40 0\$aVisions of the night.
52 \\$aRNL$cFolio - RNL$fAvailable$j135.3:C879d:c.1$pBE0000362
52 \\$aBYB$cStacks - BY$fAvailable$j135.3:C879d:c.1$pBY0006338
52 \\$00$9(OCoLC-LQU)C4158$aRiyad Nassar Library$A1$BLQU$             $yStandard Loan$YSTD
52 \\$00$9(OCoLC-LQU)C234302$aByblos$A2$BLQU$cStacks - E          XAVL$yStandard Loan$YSTD

DR 01094nam a2200253 u 4500
01 56172
05 20020819100346.0
08 890101e19740601nyua\\\j\\\\\\000\1\ENG\\
10 \\$a73015857
20 \\$a0027496104
35 \\$a(OCoLC-LQU)56172
35 \\$a(OCoLC)704923
40 \\$al QU$bENG$cl QU
```

Results

```
*****************************************************************
THIS FILE LIKELY HAS DUPLICATE RECORDS. DUPLICATES
DETERMINED BY USING  THE FOLLOWING CRITERIA: 001,035
$a,245$ab,856$u AS MATCH POINTS.
*****************************************************************

Record #:  1
001 (if defined):  4221
245 (if defined):  Dreams :$bvisions of the night /$cDavid Coxhead,
Susan Hiller
Errors:
        010:  Has been marked as a non-repeating field.
        100-ind2:  Invalid data (0)  Indicator should be undefined.
        490-ind1:  Invalid data (\)  Indicator can only be 01.
        650-  $u:  Subfield cannot be defined in this field.
        700-ind2:  Invalid data (0)  Indicator can only be b2.
```

☑ Word Wrap

Close

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MarcEdit

Batch Process Records ✕

Batch Process MARC Records

Source Directory:
C:\Users\ghenwa.wehbeh\Desktop\dream split

☑ Include Subfolders

Process

Close

Options

File Types:
MARC21

Function:
From MARC to MARCXML ▽

☐ Load Tasks

Status:

❑ This function allows users to compile more than one files or groups of files to MARC/MARCXML in batches

❑ Convert MARC records into or out of MARCXML

❑ Upload source file, state the type of the file, choose function you want to undergo and process

❑ Once MarcEdit is finished you will see a dialog box confirms the files have been generated.

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MarcEdit

❑ Harvest records from sources having the Open Archives Initiative – Protocol for Metadata Harvesting (OAI-PMH) service enabled.

❑ Ability to harvest records from Institutional Repositories (IR) and convert to MARC to include in the library system

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MarcEdit

Metadata Harvester — □ ✕

Harvest OAI Data

Home | Advanced Settings

GetRecord:

ResumptionToken:

☐ Translate to MARC-8

Timeout (in secs.)
150

User Agent:
MarcEdit 7 (OAI Harvester) ⌄   Reset

☑ Harvest Raw Data (save OAI data to local file system)

XSLT Engine:
◉ Default   ○ MSXML   ○ SAXON

OK   Save   Close

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MarcEdit

Database Properties

Z39.50 Database Settings:

Database Properties	Advanced Properties

Name:
LAU Libaries

Host:
z3950.lau.edu.lb

Database:
default

Port:
2220

Syntax:
MARC21

Username:

Password:

☐ Override pause (6 secs.)

☑ Show Database

Save	Delete	Close

- ❑ Z39.50 is an information exchange protocol with the ability to retrieve MARC records from different resources on the web

- ❑ Example of Z39.50 usage: OCLC records download from WorldCat

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Basic Functions and Tools

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MarcEdit

RDA Helper — □ ✕

☑ Add 100 $e Relator Field
☑ 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
  $b: language of cataloging
☑ Process the 502
☑ Delete GMD
☐ Generate GMD
☑ Expand Abbreviations
  Edit List | Edit Fields

Source: c:\input1
Save: c:\output1

Select: All | None ⓘ

OK   Close

❑ Adding RDA fields to MARC records: *"Bridging the gap between AACR2 and RDA"*

❑ It generate RDA elements not already present in the record.

❑ Expand abbreviation

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Clustering Tools   — □ ✕

Data Clustering Tools
The data clustering tools provide a set of simplified clustering options for enhanced batch data cleanup. For advanced clustering functionality, please consider using OpenRefine.

Select the data you want to cluster:

100, 700

Select Clustering Algorithm:

Levenshtein Distance

☑ Use FingerPrint Tokens
Cluster on the following Subfields:

a

☐ Only Display Clustered Subfields
☐ Activate Record Extraction Tools
Display Clusters:

cluster > 1

Sort Data:

Numerically [0-9]

Generate Cluster

❑ Simple Clustering tool (not to replace **OpenRefine**)

❑ Same as deduplication

❑ Works on files up to 1 million records.

❑ Works only on MARC data

N.B.: File should be in mnemonic format (mrk)

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- ❑ Simple Clustering tool (not to replace **OpenRefine**)

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N.B.: File should be in mnemonic format (mrk)

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MarcEdit Delimited Text Translator

Source File:
C:\MarcEdit Delimited Text Translator-Excel.XLSX

Output File:
C:\Output.mrk

Excel Sheet Name: Sheet1

Delimiter Values

Delimiter: Character: Qualifier
Tab

Options

Edit LDR/008

☑ UTF-8 Encoded

Next

Cancel

❑ Map fields in a delimited text file (CSV, XLXS, TXT) into a MARC file

❑ Ability to save templates for later use

❑ Very handy tool to import data into ILS from Excel.

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MarcEdit

```
=LDR  00000nam a2200000la 45e0
=008  190316s9999\\\\xx\\\\\\\\\\\\\000\0\und\d
=100  10$aGhenwa and Omar          ← Author
=245  14$aThe ABC of MarcEdit      ← Title
=260  \\$c2019.            ← Publication Date
```

❑ Map fields in a delimited text file (CSV, XLXS, TXT) into a MARC file

❑ Ability to save templates for later use

❑ Very handy tool to import data into ILS from Excel.

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MarcNext

BibFrame Testbed

- Marc to BibFrame conversion
- Output in RDF XML, JSON

Link Identifiers

- Add URI to 1xx, 6xx, and 7xx

bf: BibFrame TestBed

The BibFrame2 Testbed is a simple to use utility designed to allow metadata specialists the ability to model their data using BibFrame Concepts.

Process

Close

Source File: `c:\input.mrc`

Save File: `c:\output.xml`

File Type: MARCXML

BaseURI: `http://www.example.com`

Profile: BibFrame1

Translation Rules: `https://marcedit.reeset.net/software/xquery/module` Edit

Data Serialization: RDFXML

❑ "Initiated by the Library of Congress, **BIBFRAME** provides a foundation for the future of bibliographic description, both on the web, and in the broader networked world that is grounded in Linked Data techniques."

Loc.gov

❑ Replace MARC

- ❑ Add Uniform Resource Identifier (**URIs**) to records

- ❑ Allows users to generate links to resolve access points **1XX**, **6XX**, and **7XX**

- ❑ MarcEdit is one of the few tools the Library of Congress will allow to run in batch against their **live** data

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Link Identifiers

MarcEdit

```
=LDR  04891cam  2200577li 4500
=001  on1050870702
=003  OCoLC
=005  20190227030349.0
=006  m\\\\\o\\d\\\\\\\\
=007  cr\|||||||||||
=008  180906t20192019paua\\\\ob\\\\001\0\eng\d
=040  \\$aMMU$beng$erda$cMMU$dMMU$dINM$dOPELS$dUAB$dOPELS$dCASUM$dOCLCO$dYDX$dLEATE$dSTF$dOTZ$dLVT$dOCL$dOCLCO
=020  \\$a9780323568456$q(electronic bk.)
=035  \\$a(OCoLC)1050870702
=050  \4$aRJ446
=060  \4$aWS 310
=082  04$a616.3/3$223
=245  00$aGastroenterology and nutrition :$bneonatology questions and controversies /$c[edited by] Josef Neu, Brenda Poindexter ; consulting editor Richard A. Polin.
=250  \\$aThird edition.
=264  \1$aPhiladelphia, PA :$bElsevier,$c[2019]
=300  \\$a1 online resource (xiii, 204 pages) :$billustrations.
=336  \\$atext$btxt$2rdacontent$0http://id.loc.gov/vocabulary/contentTypes/txt
=337  \\$acomputer$bc$2rdamedia$0http://id.loc.gov/vocabulary/mediaTypes/c
=338  \\$aonline resource$bcr$2rdacarrier$0http://id.loc.gov/vocabulary/carriers/cr
=504  \\$aIncludes bibliographical references and index.
=650  \0$aPediatric gastroenterology.$0http://id.loc.gov/authorities/subjects/sh85099151
=650  \0$aNewborn infants$xDiseases.$0http://id.loc.gov/authorities/subjects/sh85066052
=650  \7$aNewborn infants$xDiseases.$2fast$0http://id.worldcat.org/fast/fst01432010
=655  \4$aElectronic books.
=700  1\$aNeu, Josef,$eeditor.$0http://id.loc.gov/authorities/names/n85368142$1http://viaf.org/viaf/114337311/
=700  1\$aPoindexter, Brenda,$eeditor.$0http://id.loc.gov/authorities/names/n2014181796$1http://viaf.org/viaf/306383115/
=700  1\$aPolin, Richard A.$q(Richard Alan),$d1945-$eeditor.$0http://id.loc.gov/authorities/names/n82218787$1http://viaf.org/viaf/64105411/
=776  08$iPrint version:$tGastroenterology and nutrition.$bThird edition.$dPhiladelphia, PA : Elsevier, [2019]$z9780323545020$w(DLC)  2018006369$w(OCoLC)1022987099
=830  \0$aNeonatology questions and controversies.$0http://id.loc.gov/authorities/names/no2008056480
=856  40$3ScienceDirect$uhttps://ezproxy.lau.edu.lb:2443/login?url=https://www.sciencedirect.com/science/book/9780323545020
```

Select System:

Koha
Local

Profiles:

default
LAULibraries

Add | Delete

Host Name:

olib9

Username:

olibwv

Password:

****

☐ Ignore SSL Certificate Errors

☐ Use Z39.50 Settings

Select | |

☑ Enable ILS Options

ILS Integration:

❑ Ability to link the library system to MarcEdit where we can search, create and update local holdings

OCLC API Key Settings

Request/Manage an OCLC Key (connects to OCLC)

OCLC Search API Key

wPzDFKEEIU0jD5tuU3VRWxgI8ua3EYOPh1RRkMo4X8UZV

OCLC Metadata API Key

orHgsjCvzLhsqym33yUewMAyP2YGDoLwOCn1s0VjIZxtB2yE

Secret Key (Paired with Metadata API Key)

principalID

80a3a3fb-a510-475b-b1f2-33b483996e78

principalIDNS

urn:oclc:wms:da

Classification Schema:
Dewey Decimal

☑ Show Text

Validate Keys

Institution Code:
LQU

Holding Code:

Get Holding Codes

OCLC Integration:

A. Request WSKey:

1- WorldCat Metadata API
2- WorldCat Registry/Configuration Platform Service
3- WorldCat Search API

B. principalID
C. principalIDNS
D. Institution Code

Search OCLC WorldCat

Search WorldCat:

stigmata	title ▾	and ▾	**Search**
cixous	author ▾		**Close**

Results: ⬇ ☐ Download Local Bibliographic Record If Present

OCLC Number	Title
426147752	Stigmata :escaping texts /Hâeláene Cixous.
1073523156	Stigmataescaping textsHélène Cixous ; with a foreword by Jacqu
939663256	Stigmata[Elektronisk resurs].
941875874	Stigmata :escaping texts.
901910154	Stigmata: escaping textsHélène Cixous [aut].

Select All | None

Let's go live!

Thank You

Let's discuss further:

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Omar Farhoud: Lebanese American University: ofarhoud@lau.edu.lb

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