marcli

A command line tool to parse (large) MARC files

Hector Correa
Princeton University Library
code{4}lib 2021

Bibliographic Record

Coffee.

Author	Pan American Union [Browse]
Format	Book
Language	English
Edition	[Rev. ed]
Published/Created	Washington [1958]
Description	19 p. illus. 23 cm.

Copies in the Library

Location	Call Number	Status
ReCAP - HathiTrust Emergency Temporary Access ReCAP	F1408 .P363 v.12 Browse related items	Online access

Details

Notes	No. 6 of a volume of pamphlets.
Other views	Staff view

MARC data

LEADER 00793cam a2200253 4500	
001 2527861	
005 20200817104959.0	
008 851022s1958 dcua 000 0 eng d	
035	a| (OCoLC)ocm12706015
035	9| CLX2905TS
035	a| 2527861
040	a| KSW c| KSW d| PUL
110 2	a| Pan American Union. 0| http://id.loc.gov/authorities/names/n79118117
245 1 0	a| Coffee.
250	a| [Rev. ed]
260	a| Washington c| [1958]
300	a| 19 p. b| illus. c| 23 cm.
490 1	a| Its Commodity series, v| 633-E-5658
590	a| No. 6 of a volume of pamphlets.
650 0	a| Coffee z| Latin America.
810 2	a| Pan American Union. t| Commodity series ; v| 633-E-5658.
945	a| F b| 1 c| 1300.694 v.12
911	a| 19990912
852 0 0	0| 2810635 b| rcppa t| 1 h| F1408 i| .P363 v.12 x| tr fr f
959	a| 2008-10-24 16:03:31 +0000

MARC data (binary)

$ less marc_file.mrc

MARC data (XML)

$ less marc_file.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<collection xmlns="http://www.loc.gov/MARC21/slim" xmlns:marc="http://www.loc.gov/MARC21/slim">
 <record>
  <leader>01805nam a2200385 i 4500</leader>
  <controlfield tag="001">ocm57175940</controlfield>
  <controlfield tag="005">20041206161421.0</controlfield>
  <controlfield tag="006">m        d f        </controlfield>
  <controlfield tag="007">cr cn-</controlfield>
  <controlfield tag="008">041206s1976    dcua    sb   f000 0 eng c</controlfield>
  <datafield tag="040" ind1=" " ind2=" ">
   <subfield code="a">GPO</subfield>
   <subfield code="c">GPO</subfield>
   <subfield code="d">MvI</subfield>
   <subfield code="d">MvI</subfield>
  </datafield>
  <datafield tag="042" ind1=" " ind2=" ">
   <subfield code="a">pcc</subfield>
  </datafield>
  <datafield tag="043" ind1=" " ind2=" ">
   <subfield code="a">n-us---</subfield>
  </datafield>
  <datafield tag="074" ind1=" " ind2=" ">
   <subfield code="a">0620-A (online)</subfield>
  </datafield>
  <datafield tag="086" ind1="0" ind2=" ">
   <subfield code="a">I 19.4/2:735</subfield>
  </datafield>
  <datafield tag="100" ind1="1" ind2=" ">
   <subfield code="a">Swanson, Vernon E.</subfield>
   <subfield code="q">(Vernon Emmanuel),</subfield>
   <subfield code="d">1922-1992.</subfield>
  </datafield>
  <datafield tag="245" ind1="1" ind2="0">
   <subfield code="a">Guidelines for sample collecting and analytical methods used in the U.S. Geological Sur
hemical composition of coal</subfield>
   <subfield code="h">[electronic resource] /</subfield>
   <subfield code="c">by Vernon E. Swanson and Claude Huffman, Jr.</subfield>
  </datafield>
  <datafield tag="260" ind1=" " ind2=" ">
   <subfield code="a">[Washington, D.C.] :</subfield>
```

MARC for humans (mrk)

$ marcli -file=marc_file.mrc

```
=LDR  01805nam a2200385 i 4500
=001  ocm57175940
=005  20041206161421.0
=006  m        d f
=007  cr cn-
=008  041206s1976    dcua    sb   f000 0 eng c
=040  \\$aGPO$cGPO$dMvI$dMvI
=042  \\$apcc
=043  \\$an-us---
=074  \\$a0620-A (online)
=086  0\$aI 19.4/2:735
=100  1\$aSwanson, Vernon E.$q(Vernon Emmanuel),$d1922-1992.
=245  10$aGuidelines for sample collecting and analytical methods used in the U.S. Geological Survey for determining
=260  \\$a[Washington, D.C.] :$bU.S. Dept. of the Interior, U.S. Geological Survey,$c1976.
=336  \\$atext$2rdacontent.
=337  \\$acomputer$2rdamedia.
=338  \\$aonline resource$2rdacarrier.
=440  \0$aGeological Survey circular ;$v735.
=500  \\$aTitle from title screen (viewed on Dec. 06, 2004)
=504  \\$aIncludes bibliographical references.
=538  \\$aMode of access: Internet from the USGS Web site. Address as of 12/06/04: http://pubs.usgs.gov/circ/c735/i
=650  \0$aCoal$xAnalysis.
=650  \0$aCoal$xSampling.
=700  1\$aHuffman, Claude.
=776  1\$aSwanson, Vernon Emanuel,$d1922-$tGuidelines for sample collecting and analytical methods used in the U.S.
=856  40$uhttp://purl.access.gpo.gov/GPO/LPS56007$zView online version
=907  \\$a.b37991760$b04-08-17$c07-26-05
=998  \\$aes001$b07-26-05$cm$da$e-$feng$gdcu$h0$i1
=910  \\$aMARCIVE
=910  \\$aHathi Trust report None
=945  \\$g0$j0$lesb  $on$p$0.00$q $r $s-$t255$u0$v0$w0$x0$y.i138993579$z07-26-05
```

Get it

```
$ curl -L https://github.com/hectorcorrea/marcli/releases/download/1.0.1/marcli > marcli

$ chmod u+x marcli

$ ./marcli -file=your-file.mrc
```

Download **marcli** for Mac OS,

marcli_linux for Linux,

or **marcli.exe** for Windows

Usage examples

```
# Read a MARC binary

$ marcli -file=file.mrc


# Read a MARC XML

$ marcli -file=file.xml


# Output selected fields only

$ marcli -file=file.mrc -fields=001,100,245,876
```

More examples

```
# Records that match a keyword
$ marcli -file=file.mrc -match=water


# Records that have a given field
$ marcli -file=file.mrc -fields=001,100,245,876 -hasFields=876


# Convert a MARC binary file to MARC XML
$ marcli -file=file.mrc -format=xml > file.xml
```

Combine with Linux tools

```
# Use with less for easy viewing

$ marcli -file=file.mrc -fields=001,005,100 -match=something| less
```

```
# Use with grep and wc to get counts

$ marcli -file=file.mrc -fields=001,005,100 -match=something| grep "=001" | wc -l
```

```
# Use with grep (and XML output) to find entire records

$ marcli -file=file.mrc -fields=001,100,245,876-format=xml | grep -E "Martin.*King"
```

How to get it

Binaries for Mac, Linux, and Windows:

- https://github.com/hectorcorrea/marcli/releases

Source code (Go):

- https://github.com/hectorcorrea/marcli

Questions, comments, thoughts:

- Contact me hector@hectorcorrea.com or @hectorjcorrea