

Reuse, repurpose ...

Violeta Ilik
Metadata Cataloging Librarian
Texas A&M University Libraries
ALA 2013, Chicago

MARC MARCXML MODS
METS PREMIS DUBLIN CORE

EAD Darwin Core TEI

...

IT fluent



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Can we do it?



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What do you need?

- basic HTML understanding
- CSS familiarity
- understanding of XML
- XML editor

and ...

- *Beginning XSLT 2.0 From Novice to Professional* by Jeni Tennison or
- *XSLT 2.0 programmer's reference* by Michael Kay

The road to XSLT

```
25 ▾ <!--  
26 remove a field  
27 -->  
28 <xsl:template match="marc:controlfield[@tag='001']"/>  
29 <xsl:template match="marc:controlfield[@tag='005']"/>  
30 <xsl:template match="marc:datafield[@tag='029']"/>  
31 <xsl:template match="marc:datafield[@tag='035']"/>  
32 <xsl:template match="marc:datafield[@tag='300']"/>  
33 <xsl:template match="marc:datafield[@tag='776']"/>  
34 <xsl:template match="marc:datafield[@tag='891']"/>  
35 <xsl:template match="marc:datafield[@tag='850']"/>  
36
```

First sloppy XSLT

```
23 <!--
24 add a field
25 -->
26 <xsl:template match="marc:record">
27   <marc:record>
28     <xsl:apply-templates/>
29     <marc:datafield tag="546">
30       <marc:subfield code="a">en_US</marc:subfield>
31     </marc:datafield>
32
33     <xsl:text>&#xa;</xsl:text>
34
35     <marc:datafield tag="590">
36       <marc:subfield code="a">
37         <xsl:text>text</xsl:text>
38       </marc:subfield>
39     </marc:datafield>
40
41     <xsl:text>&#xa;</xsl:text>
42     <marc:datafield tag="591">
43       <marc:subfield code="a">
44         <xsl:text>Internship Report</xsl:text>
45       </marc:subfield>
46     </marc:datafield>
47
```

Use of MARC tags

546 Language Note (R)

Input Standards

Required if applicable/Required if applicable

1st Indicator Undefined

⌀ Undefined

2nd Indicator Undefined

⌀ Undefined

Subfields (R=Repeatable NR=Nonrepeatable)

‡a Language note (NR)

‡b Information code or alphabet (R)

‡3 Materials specified (NR)

590 Local Note (R)

Input Standards

Optional/Optional

1st Indicator Privacy

⌀ No information provided

0 Private

1 Not private

2nd Indicator Undefined

⌀ Undefined

Subfields (R=Repeatable NR=Nonrepeatable)

‡a Local note (NR)

‡3 Materials specified (NR)

‡8 Field link and sequence number (R)

and many more 59X fields

MARC

Tag	I1	I2	Subfield Data
035			‡a (OCoLC)ocn813044758
040			‡a TXA ‡c TXA
035			‡a (OCoLC)813044758
043			‡a n-us-ny
099			‡a 1985 ‡a Record of Study ‡a B37
049			‡a TXAM
100	1		‡a Bass, James Traugott, ‡d 1957-
245	1	0	‡a Intern experience at General Electric Corporate Research and Development Center : ‡b an internship report / ‡c by James Traugott Bass.
260			‡c 1985.
300			‡a xv, 180 leaves : ‡b ill. ; ‡c 28 cm.
500			‡a Typescript (photocopy).
500			‡a "Submitted to the College of Engineering of Texas A & M University in partial fulfillment of the requirement for the degree of Doctor of Engineering."
500			‡a "May 1985."
500			‡a "Major subject: Electrical Engineering."
504			‡a Includes bibliographical references.
610	2	0	‡a General Electric Company. ‡b Research and Development Center.
650		0	‡a Electrical engineering ‡z New York (State) ‡z Schenectady.
650		0	‡a Reluctance motors ‡x Design and construction.
650		4	‡a Major Electrical Engineering.
710	2		‡a Texas A & M University. ‡b College of Engineering.
856	4	1	‡u https://repository.tamu.edu/handle/1969.1/PILO-TAMU-4023249 ‡z Click to connect to the full text of this electronic resource
994			‡a C0 ‡b TXA
948			‡a cataloged ‡b h ‡c 2012/10/16 ‡d o ‡e nbehmer ‡f 8:50:12 am

Added fields

dc.language.iso

dc.type.material

dc.type.genre

dc.type

dc.format.digitalOrigin

dc.format.medium

dc.rights

Intern experience at General Electric Corporate Research and Development Center: an internship report

[Show simple item record](#)

dc.creator	Bass, James Traugott, 1957-	en_US
dc.date.accessioned	2013-03-13T21:10:02Z	
dc.date.available	2013-03-13T21:10:02Z	
dc.date.created	1985-05	en_US
dc.date.issued	2013-03-13	
dc.identifier.uri	http://hdl.handle.net/1969.1/PILO-TAMU-4023249	en_US
dc.description	"Submitted to the College of Engineering of Texas A&M University in partial fulfillment of the requirement for the degree of Doctor of Engineering."	en_US
dc.description	Includes bibliographical references	en_US
dc.format.medium	electronic	en_US
dc.format.mimetype	application/pdf	en_US
dc.language	en_US	en_US
dc.publisher	Texas A&M University	en_US
dc.rights	This student work was part of a retrospective digitization project authorized by the Texas A&M University Libraries in 2012. Copyright remains vested with the author(s). It is the user's responsibility to secure permission from the copyright holder(s) for re-use of the work beyond the provision of Fair Use.	en_US
dc.subject	Major Electrical Engineering	en_US
dc.subject	Electrical Engineering	en_US
dc.subject.lcsh	General Electric Company - Research and Development Center	en_US
dc.subject.lcsh	Electrical engineering - New York (State) - Schenectady	en_US
dc.subject.lcsh	Reluctance motors - Design and construction	en_US
dc.title	Intern experience at General Electric Corporate Research and Development Center: an internship report	en_US
dc.type	Thesis	en_US
dc.type	Student Project	en_US
thesis.degree.discipline	Electrical Engineering	en_US
thesis.degree.grantor	Texas A&M University	en_US
thesis.degree.name	Doctor of Engineering	en_US
thesis.degree.level	Doctoral	en_US
dc.type.genre	Internship Report	en_US
dc.type.genre	thesis	en_US
dc.type.material	text	en_US
dc.format.digitalOrigin	reformatted digital	en_US

“sophisticated” XSLT

```
<xsl:for-each select="marc:datafield[@tag=830]">
  <xsl:variable name="relation.isPartOfSeries">
    <xsl:call-template name="subfieldSelect">
      <xsl:with-param name="codes">abcdevxyz034</xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
  <dc:relation.isPartOfSeries><xsl:value-of select="substring($relation.isP
</xsl:for-each>
```



```
<dc:language.iso>en_US</dc:language.iso>
<dc:type.material>text</dc:type.material>
<dc:thesis.degree.level>Doctoral</dc:thesis.degree.level>
<dc:publisher>Texas A&M University</dc:publisher>
<dc:format.digitalOrigin>reformatted digital</dc:format.digitalOrigin>
<dc:format.medium>electronic</dc:format.medium>
<dc:rights>This student work was part of a retrospective digitization project
<dc:type.genre>thesis</dc:type.genre>
<dc:type>Thesis</dc:type>
```

MODS

```
<mods version="3.4">
  <titleInfo>
    <title>Intern experience at General Electric Corporate Research and Development Center</title>
    <subTitle>an internship report</subTitle>
  </titleInfo>
  <name type="personal" usage="primary">
    <namePart>Bass, James Traugott</namePart>
    <namePart type="date">1957-</namePart>
  </name>
  <name type="corporate">
    <namePart>Texas A & M University</namePart>
    <namePart>College of Engineering.</namePart>
  </name>
  <typeOfResource manuscript="yes">text</typeOfResource>
  <genre authority="marcgt">bibliography</genre>
  <originInfo>
    <place>
      <placeTerm type="code" authority="marccountry">xx</placeTerm>
    </place>
    <dateCreated>1985</dateCreated>
    <dateIssued encoding="marc">1985</dateIssued>
    <issuance>monographic</issuance>
  </originInfo>
  <language>
    <languageTerm authority="iso639-2b" type="code">eng</languageTerm>
  </language>
  <physicalDescription>
    <form authority="marcform">print</form>
    <extent>xv, 180 leaves : ill. ; 28 cm.</extent>
  </physicalDescription>
  <note>Typescript (photocopy).</note>
  <note>Submitted to the College of Engineering of Texas A & M University in partial fulfillment of a requirement for the degree of Master of Science in May 1985.</note>
</mods>
```

BIBFRAME

8. Intern experience at General Electric Corporate Research and Development Center : an internship report

Creator(s)	 Bass, James Traugott, 1957-
Note(s)	<ul style="list-style-type: none">› Typescript (photocopy).› "Submitted to the College of Engineering of Texas A & M University in partial fulfillment of the requirement for the degree of Doctor of Engineering."› "May 1985."› "Major subject: Electrical Engineering."
Subject(s)	<ul style="list-style-type: none">🏠 General Electric Company. Research and Development Center. (★)🔍 Electrical engineering.--New York (State)--Schenectady🔍 Reluctance motors.--Design and construction🔍 Major Electrical Engineering
Instance(s)	Intern experience at General Electric Corporate Research and Development Center : an internship report
Contributor	 Texas A & M University. College of Engineering. (★)
Dimensions	28 cm.
Extent	xv, 180 leaves :
Note(s)	<ul style="list-style-type: none">› Typescript (photocopy).› "Submitted to the College of Engineering of Texas A & M University in partial fulfillment of the requirement for the degree of Doctor of Engineering."› "May 1985."› "Major subject: Electrical Engineering."
Illustration Note(s)	› ill.
Supplementary Content Note(s)	› Includes bibliographical references.

note: link to BIBFRAME will be deleted by the service

BIBFRAME

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <rdf:RDF
3   xmlns:bf="http://bibframe.org/vocab/"
4   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
5 >
6 <bf:Person rdf:about="http://bibframe.org/resources/r0z1372191057/ocn811027856person8">
7   <bf:label>Afiesimama, Boma Thompson, 1952-</bf:label>
8   <bf:authorizedAccessPoint>Afiesimama, Boma Thompson, 1952-</bf:authorizedAccessPoint>
9   <bf:hasAuthority rdf:nodeID="N5be5d068409c41eba1b103b2fbfab6a7"/>
10  </bf:Person>
11 </rdf:RDF>
12
```

note: link to BIBFRAME will be deleted by the service

BIBFRAME

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <rdf:RDF
3   xmlns:bf="http://bibframe.org/vocab/"
4   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
5 >
6 <bf:Topic rdf:about="http://bibframe.org/resources/r0z1372191057/ocn811027856topic11">
7   <bf:authorizedAccessPoint>Industrial engineering--Texas--Houston--Management</bf:authorizedAccessPoint>
8   <bf:label>Industrial engineering--Texas--Houston--Management</bf:label>
9   <bf:hasAuthority rdf:nodeID="N11cc08bc2c984217a96739092c906ddc"/>
10 </bf:Topic>
11 </rdf:RDF>
12
```

note: link to BIBFRAME will be deleted by the service

Sure we can!



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Violeta Ilik
Texas A&M University

Thank you

Violeta Ilik
Metadata Cataloging Librarian
Texas A&M University
vilik at library tamu edu
