

# Reuse, repurpose ...

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ALA 2013, Chicago

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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)

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### 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)

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### 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 <a href="https://repository.tamu.edu/handle/1969.1/PILO-TAMU-4023249">https://repository.tamu.edu/handle/1969.1/PILO-TAMU-4023249</a> ‡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	<a href="http://hdl.handle.net/1969.1/PILO-TAMU-4023249">http://hdl.handle.net/1969.1/PILO-TAMU-4023249</a>	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 degree in May 1985.</note>
</mods>
```

# BIBFRAME

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

<b>Creator(s)</b>	 Bass, James Traugott, 1957-
<b>Note(s)</b>	<ul style="list-style-type: none"><li>› Typescript (photocopy).</li><li>› "Submitted to the College of Engineering of Texas A &amp; M University in partial fulfillment of the requirement for the degree of Doctor of Engineering."</li><li>› "May 1985."</li><li>› "Major subject: Electrical Engineering."</li></ul>
<b>Subject(s)</b>	<ul style="list-style-type: none"><li>🏠 <a href="#">General Electric Company. Research and Development Center.</a> (★)</li><li>🔍 <a href="#">Electrical engineering.--New York (State)--Schenectady</a></li><li>🔍 <a href="#">Reluctance motors.--Design and construction</a></li><li>🔍 <a href="#">Major Electrical Engineering</a></li></ul>

### Instance(s) [Intern experience at General Electric Corporate Research and Development Center : an internship report](#)

<b>Contributor</b>	 <a href="#">Texas A &amp; M University. College of Engineering.</a> (★)
<b>Dimensions</b>	28 cm.
<b>Extent</b>	xv, 180 leaves :
<b>Note(s)</b>	<ul style="list-style-type: none"><li>› Typescript (photocopy).</li><li>› "Submitted to the College of Engineering of Texas A &amp; M University in partial fulfillment of the requirement for the degree of Doctor of Engineering."</li><li>› "May 1985."</li><li>› "Major subject: Electrical Engineering."</li></ul>
<b>Illustration Note(s)</b>	› ill.
<b>Supplementary Content Note(s)</b>	› 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  
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vilik at library tamu edu

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