

Enhancing your record display

A gentle introduction to BibTemplate

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Motivation

- Most publicly listed and visible Evergreen catalogues use the out-of-the-box defaults
- We received “constructive feedback” on our use of the default record display at launch
 - A few days (and nights) of effort resulted in a much richer record display and happier users
- Circle of sharing
 - Mike Rylander brought us BibTemplate
 - I'll teach you the ropes today
 - You go home and make Evergreen look good!





atwood

Go!

Keyword

All Formats

Choose a library to

Home

Advanced Search

My Account

Log in

My Title Results

My Title Details

PINES

Result 6 of 10 [Start](#) << >> [End](#)

Record Summary

Title	Handmaid's tale
Author	Atwood, Margaret Eleanor
ISBN	
Edition	
Publication Date	c1986
Publisher	Houghton Mifflin
Physical Description	print
Format	text
Abstract	

[Copy Summary](#)

[Shelf Browser](#)

[MARC Record](#)

Library	Callnumber	Actions	Available	Checked out	In process	In transit	Reshelving	On holds shelf	On orde
Piedmont Regional Library System									
Commerce Public Library	FIC ATW	details browse	1	0	0	0	0	0	0
Headquarters-Winder	FIC ATW	details browse	0	1	0	0	0	0	0



Approaches to teaching Atwood's The handmaid's tale and other works / edited by Sharon R. Wilson, T

File Edit View History Bookmarks Tools Help

Approaches to teaching Atwood'...

Text Size: Regular / Large | Language: English (Canada)

atwood handmaid Go! Keyword All Formats

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Home
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My Title Results
 My Title Details

Relevant Subjects

- Atwood, Margaret Eleanor 1939-
- Feminism and literature
- Women and literature

Relevant Series

- Approaches to teaching world literature

Result 5 of 18 Start << >> End

Record Summary

Title	Approaches to teaching Atwood's The handmaid's tale and other works Thomas B. Friedman, and Shannon Hengen.
ISBN	0873527356 (recycled paper) 0873527364 (pbk. : recycled paper)
Edition	
Publisher	New York, NY : Modern Language Association of America, 1996.
Physical Description	print vii, 215 p.
Format	text
Subjects - personal name	Atwood, Margaret Eleanor, -- 1939- -- Handmaid's tale. Atwood, Margaret Eleanor, -- 1939-
Subjects	Feminism and literature -- Canada -- History -- 20th century. Women and literature -- Canada -- History -- 20th century.
Additional authors	Wilson, Sharon Rose. Friedman, Thomas B. Hengen, Shannon Eileen.

[Copy Summary](#) [Shelf Browser](#) [Reviews](#) [MARC Record](#)

Book Review

Approaches to Teaching Atwood's "The Handmaid's Tale" and Other

by Wilson, Sharon R. (Editor); Friedman, Thomas B. (Editor); Hengen, Shannon (Editor)

BibTemplate basics

- Introduced in Evergreen 1.6
- **Goal:** Simplify access and display of arbitrary content from the underlying bibliographic record
 - Not just MARCXML, but MODS, FGDC, whatever
- **Basic usage:** Requires knowledge of at least one metadata format offered by Evergreen
- **Advanced usage:** Familiarity with JavaScript, CSS3 selector syntax, and XML



A few simple steps...

- Create a new skin to work with:

```
cd /openils/var/web/opac/skin/
```

```
cp -r craftsman super
```

```
cd super/xml/rdetail/
```

- All of the action is in `rdetail_summary.xml`
- Let's add MARC field 504 (bibliography note) to our display



Adding a MARC field

1. Add a row to the table of metafield attributes:

```
<tr> </tr>
```

2. Inside the first table cell, name the attribute:

```
<td>Bibliography note</td>
```

3. Inside the second cell, include the crazy SPAN tag identifying your MARC field of choice:

```
<td>  
  <span type='opac/slot-data'  
    query='datafield[tag=504] '>  
  </span>  
</td>
```



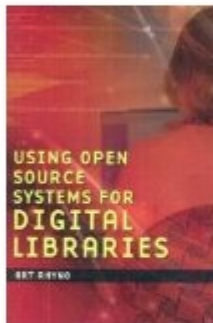
Text: [Larger](#) | [Smaller](#) | Language:

open Search Keyword All Formats Choose a different library...

Example Consortium

Record Summary

Place Hold



Title	Using open source systems for digital libraries
Author	Rhyno, Art.
ISBN	159158065X
Edition	
Publication Date	c2004
Publisher	Libraries Unlimited
Physical Description	print xvi, 160 p. : ill. ; 23 cm.
Format	text
Abstract	

Copy Summary Shelf Browser MARC Record

Library	Callnumber	Copy Location	Actions	Available	Checked out	In process	In transit	Reshelving	On holds shelf	On order	Reserves
Example System 1											
Example	744080 R48	Stacks	Copy	0	0	0	0	2	0	0	0




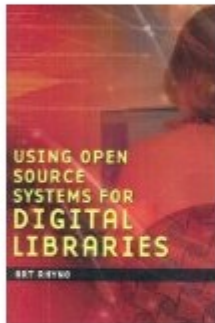
Text: [Larger](#) | [Smaller](#) | Language:


Search All Formats Choose a different library...

Example Consortium

Record Summary

 Place Hold



Title	Using open source systems for digital libraries
Author	Rhyno, Art.
ISBN	159158065X
Edition	
Publication Date	c2004
Publisher	Libraries Unlimited
Physical Description	print xvi, 160 p. : ill. ; 23 cm.
Format	 text
Abstract	
Bibliography note	Includes bibliographical references (p. 123-133) and index.

Copy Summary

Shelf Browser

MARC Record

Library	Callnumber	Copy Location	Actions	Available	Checked out	In process	In transit	Reshelving	On holds shelf	On order	Reserves
---------	------------	---------------	---------	-----------	-------------	------------	------------	------------	----------------	----------	----------

Example System 1



Review: a single MARC field

- This is all that we had to add to display the contents of an arbitrary MARC field:

```
<tr>
  <td>Bibliography note</td>
  <td
    type='opac/slot-data' query='datafield[tag=504] '>
  </td>
</tr>
```

- **Note:** If multiple fields match, they are displayed on consecutive lines within the same left-hand cell



A specific MARC subfield

- To display a specific MARC subfield, add that subfield to the query attribute.
 - For example, subfield \$a is the only user-oriented subfield in field 586 (Awards Note)

```
<tr>  
  <td>Awards note</td>  
  <td type='opac/slot-data'  
    query='datafield[tag=586] subfield[code=a] '>  
  </td>  
</tr>
```



Intermediate BibTemplate usage

- Thus far, we've just been using the (quite reasonable) defaults, but we can do more!
 - 1) We tag an element with attribute `type='opac/slot-data'`
 - 2) BibTemplate runs the corresponding CSS3 selector syntax-based query from the `query` attribute for that element against the bib metadata
 - 3) BibTemplate returns an `item NodeList` to process in the contained `type='opac/slot-format'` script
 - 4) If no script, just the text content is returned



Hiding empty rows

- Empty rows with no matching data are ugly. Hide them by default instead, and display them only if they have content:

```
<tr class='hide_me' id='tag504'>
  <td>Bibliographic note</td>
  <td type='opac/slot-data' query='datafield[tag=504]'>
    <script type='opac/slot-format'><![CDATA[
      dojo.query('#tag504').removeClass('hide_me');
      return '<span>' + dojox.data.dom.textContent(item) +
        '</span><br/>';
    ]]></script>
  </td></tr>
```



CDATA and <script>

- `<![CDATA[...]]>` tells Evergreen Web server to treat the contents as literal “character data” - avoids hilarity of entity substitution
- `<script type='opac/slot-format'>...</script>`, contained within an 'opac/slot-data' element, receives a variable named `item` containing the results of the query (a NodeList)
- The rest is just plain old JavaScript!



Suppressing a subfield

- MARC data includes subfields like 650 \$2 (source of heading) not meant for exposure to humans
- The CSS3 negation operator, and a more complex script, can save us...
- ... so let's see an example.
- **Note:** you can cut and paste this example and replace '700' and '4' as desired for your own purposes.



Subfield suppression

```
<tr class='hide_me' id='tag700'>
<td>Additional authors</td>
<td type='opac/slot-data' query='datafield[tag=700] '>
  <script type='opac/slot-format'><![CDATA[
    dojo.query('#tag700').removeClass('hide_me');
    var text = '';
    var list = dojo.query('subfield:not([code=4])', item);
    for (var i =0; i < list.length; i++) {
      text += dojox.data.dom.textContent(list[i]) + ' ';
    }
    return '<span>' + text + '</span><br/>';
  ]]></script>
</td></tr>
```



Other metadata formats

- BibTemplate supports other Evergreen metadata formats:
 - MODS 3.3: datatype='mods33'
 - Dublin Core: datatype='rdf_dc'
 - FGDC: datatype='fgdc'
- To use: add the corresponding datatype attribute to your type='opac/slot-data' element and adjust your query attribute accordingly
- But sadly, we just use marcxml-full...



marcxml in brief

```
<record>
  <leader>00706cam a2200241 a 4500</leader>
  <controlfield tag="005">20040427145408.0</controlfield>
  <controlfield tag="008">030731s2004      ctua      001 0
eng </controlfield>
...
  <datafield tag="020" ind1=" " ind2=" ">
    <subfield code="a">159158065X (alk. paper)</subfield>
  </datafield>
  <datafield tag="100" ind1="1" ind2=" ">
    <subfield code="a">Rhyno, Art.</subfield>
  </datafield>
  <datafield tag="245" ind1="1" ind2="0">
    <subfield code="a">Using open source systems for
digital libraries /</subfield>
    <subfield code="c">Art Rhyno.</subfield>
  </datafield>
...
</record>
```



marcxml-full (holdings!) in brief

```
<record>
  <leader>00706cam a2200241 a 4500</leader>
  ""
  <volumes xmlns="http://open-ils.org/spec/holdings/v1">
    <volume lib="OWA" label="ZA4080 .R48 2004">
      <copies>
        <copy barcode="31862016946721" circ_modifier="CIRC"
holdable="t" opac_visible="t">
          <status ident="0">Available</status>
          <location ident="598">Leddy: Main Bldng</location>
          <circlib ident="109">Leddy Library</circlib>
          <circ_lib shortname="OWA" name="Leddy Library"/>
          <copy_notes/>
          <statcats/>
        </copy>
      </copies>
      <uris/>
      <owning_lib shortname="OWA" name="Leddy Library"/>
    </volume>
  </volumes>
</record>
```



CSS3 selectors

- Most useful attribute match operators:
 - `datafield[tag=245]` - exact match
 - `datafield[tag^=65]` - match start of value
- Selectors always narrow, so select broadly and iterate through the NodeList
- See:
 - <http://api.dojotoolkit.org/jsdoc/1.3/dojo.query>
 - <http://www.w3.org/TR/css3-selectors/>



Anticipated questions

- *Will a lot of record display customizations affect display performance?*
 - Not much: it's just one extra server request per bib record data type, the rest is just JavaScript.
- *Can we use this outside of record details?*
 - Yes, practically anywhere. Kevin Beswick is rewriting the search results page at Laurentian to display availability, call numbers, URLs, and basic bib record metadata via BibTemplate.
- *How's the browser compatibility?*
 - Good, if you like Internet Explorer 6-8, Firefox, Chrome/Chromium, and Safari. Opera fails, sadly.
- *What's in store for the future of BibTemplate?*



Advanced BibTemplate

- Most of what we do at Laurentian is intermediate record display enhancement
- But we have made our ISSN fields work harder:
 - Populate the “ISSN” field with the value(s)
 - Check our OpenURL server to determine if we have any electronic holdings for that periodical
 - Populate the “Online resources” field with the value(s)
- We have also customized our electronic resource display



More more more

- Laurentian University's customized record details page is available at <http://ur1.ca/tj4t> - along with lots of other stuff in the Evergreen contributions repository
- The Dojo Toolkit (<http://dojotoolkit.org>) is the JavaScript framework of choice for Evergreen – great optimized cross-browser support for DOM manipulation, asynchronous calls, etc



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