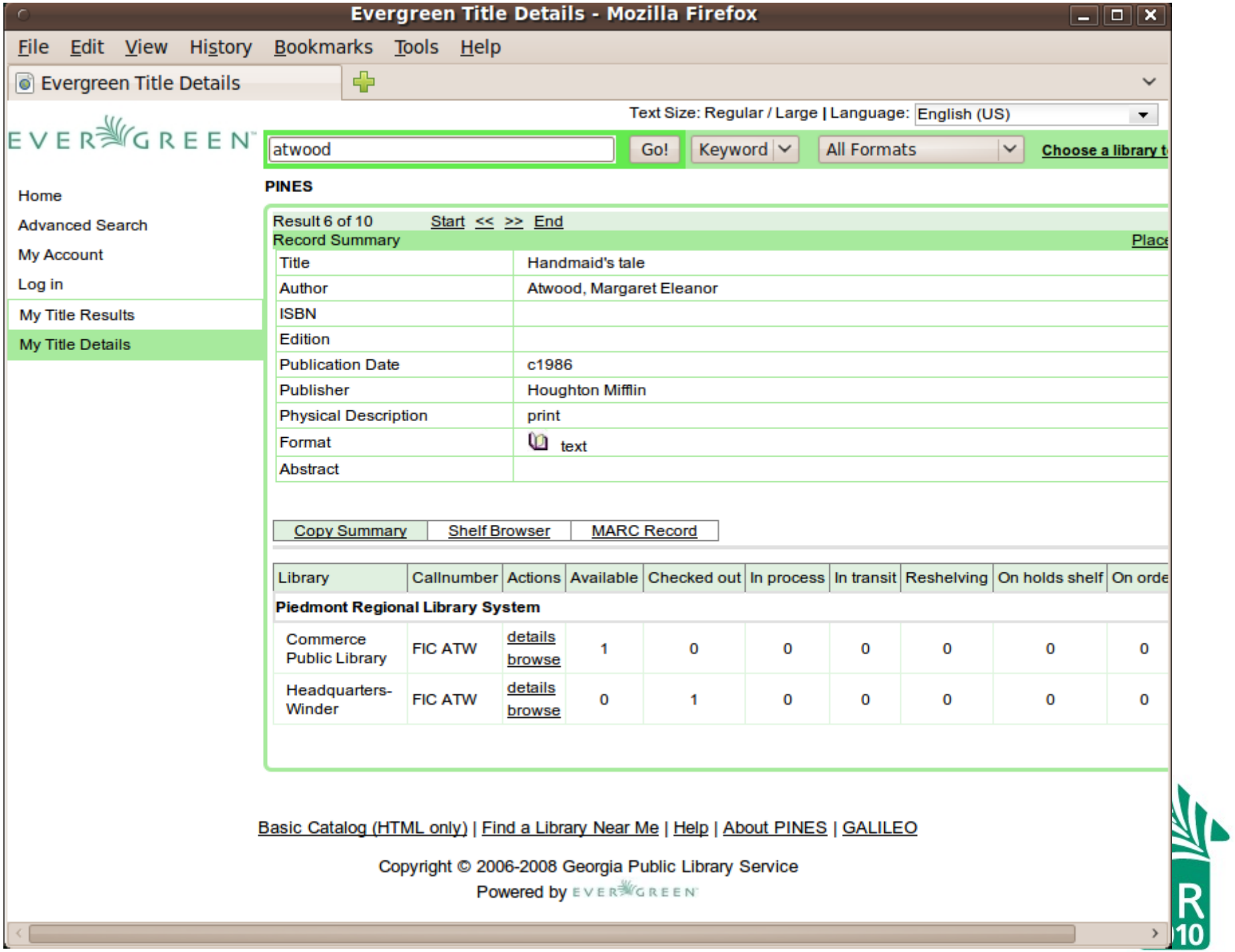
Enhancing your record display

A gentle introduction to BibTemplate

Dan Scott
Laurentian University

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
  - Alexander O'Neill at UPEI built a MARC display kit
  - Mike Rylander brought us BibTemplate
  - I'll teach you the ropes today
  - You go home and make Evergreen look good!


Evergreen Title Details - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Evergreen Title Details
Text Size: Regular / Large | Language: English (US)
EVERGREEN
atwood
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Keyword
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Choose a library t
Home
Advanced Search
My Account
Log in
My Title Results
My Title Details
PINES
Result 6 of 10 Start << >> End
Record Summary
Place
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
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In transit
Reshelving
On holds shelf
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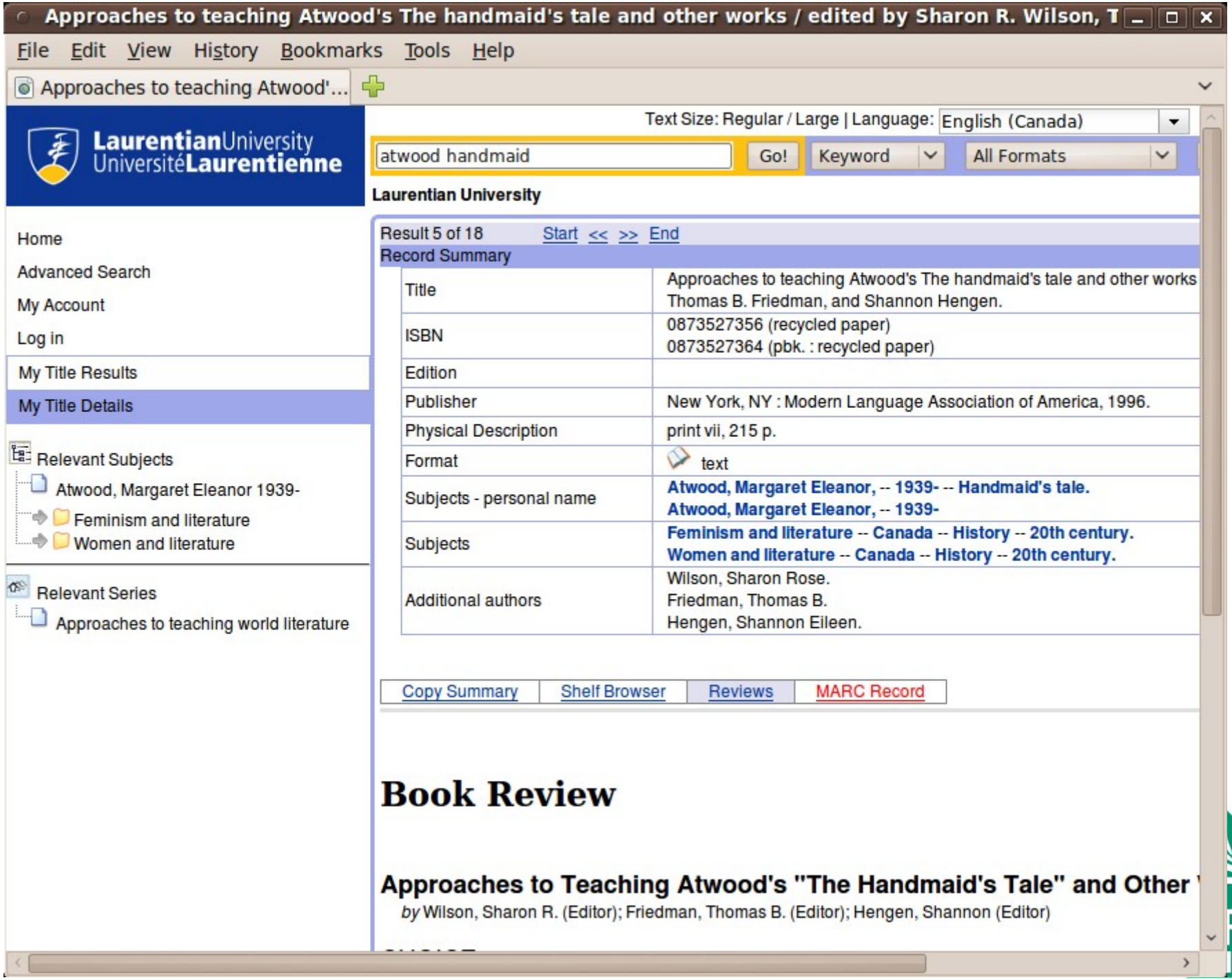

Approaches to teaching Atwood's The handmaid's tale and other works / edited by Sharon R. Wilson, T
File Edit View History Bookmarks Tools Help
Approaches to teaching Atwood'...
LaurentianUniversity
UniversitéLaurentienne
Text Size: Regular / Large | Language: English (Canada)
atwood handmaid
Go!
Keyword
All Formats
Laurentian University
Home
Advanced Search
My Account
Log in
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>
```

Evergreen Title Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Evergreen Title Details

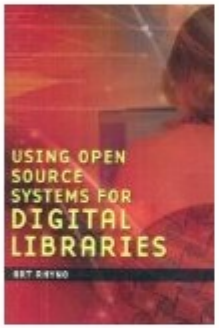
Text: Larger | Smaller | Language:

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	ZA4080 .R48	Stacks	Copy	0	0	0	0	2	0	0	0

Evergreen Title Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Evergreen Title Deta... | Template::Manual::S... | Library system pass... | Library system pass...

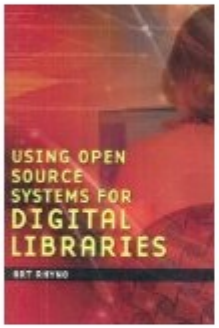
Text: Larger | Smaller | Language:

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

Example Consortium

Record Summary

Place Hold



Title	Using open source systems for digital libraries
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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											

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="3186201694672l" 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>
```

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

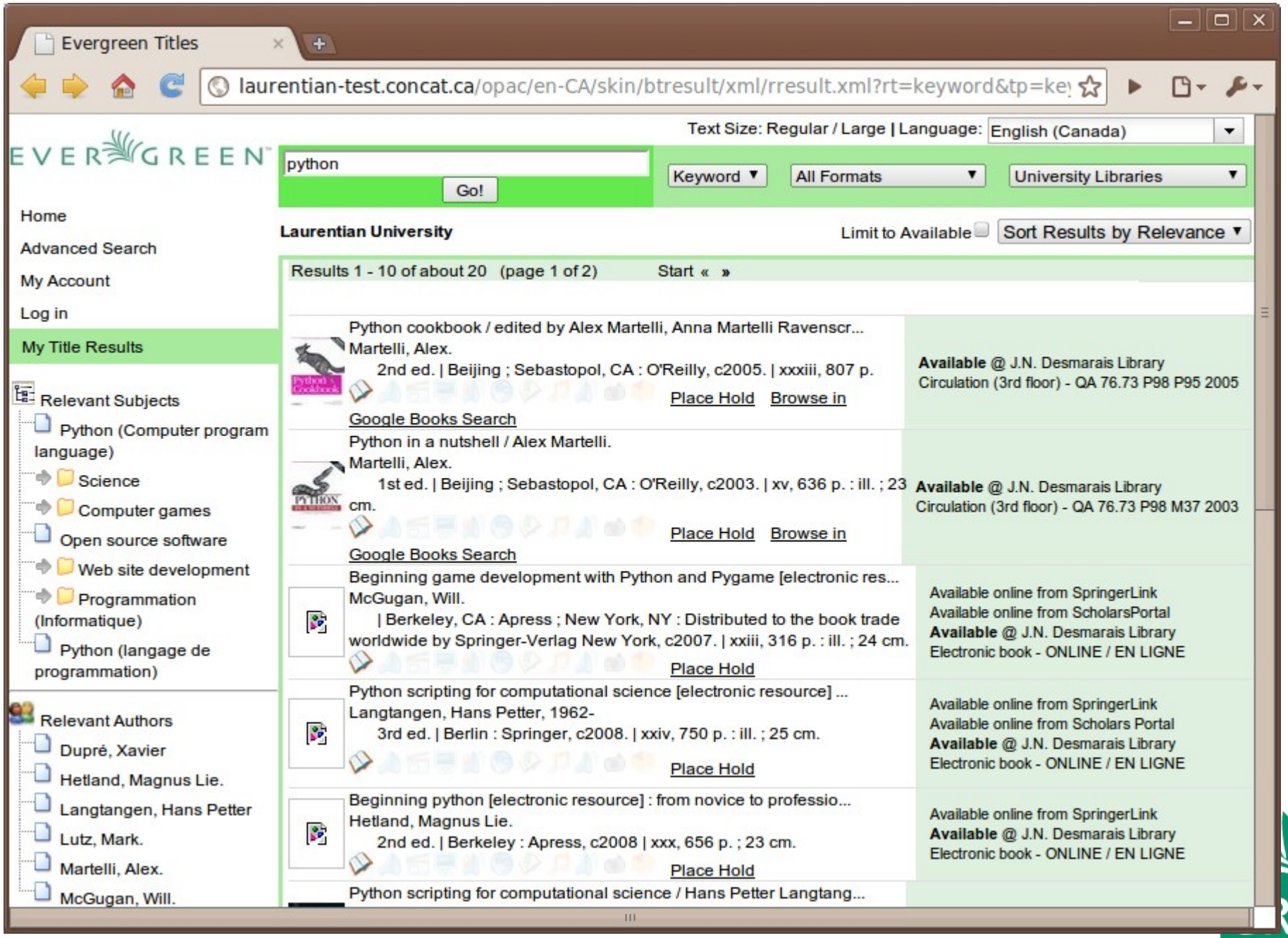
- BibTemplate supports other Evergreen metadata formats:
  - MODS 3.3: `datatype='mods33'`
  - Dublin Core: `datatype='rdf_dc'`
  - FGDC: `datatype='fgdc'`
- To use: add the corresponding `datatype` attribute to your `type='opac/slot-data'` element and adjust your `query` attribute accordingly
- But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

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?*


Evergreen Titles
laurentian-test.concat.ca/opac/en-CA/skin/btresult/xml/rresult.xml?rt=keyword&tp=ke
Text Size: Regular / Large | Language: English (Canada)
EVERGREEN
python
Go!
Keyword
All Formats
University Libraries
Home
Advanced Search
My Account
Log in
My Title Results
Laurentian University
Limit to Available
Sort Results by Relevance
Results 1 - 10 of about 20 (page 1 of 2) Start « »
Relevant Subjects
Python (Computer program language)
Science
Computer games
Open source software
Web site development
Programmation (Informatique)
Python (langage de programmation)
Relevant Authors
Dupré, Xavier
Hetland, Magnus Lie.
Langtangen, Hans Petter
Lutz, Mark.
Martelli, Alex.
McGugan, Will.
Python cookbook / edited by Alex Martelli, Anna Martelli Ravenscr...
Martelli, Alex.
2nd ed. | Beijing ; Sebastopol, CA : O'Reilly, c2005. | xxxiii, 807 p.
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Python in a nutshell / Alex Martelli.
Martelli, Alex.
1st ed. | Beijing ; Sebastopol, CA : O'Reilly, c2003. | xv, 636 p. : ill. ; 23 cm.
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McGugan, Will.
| Berkeley, CA : Apress ; New York, NY : Distributed to the book trade worldwide by Springer-Verlag New York, c2007. | xxiii, 316 p. : ill. ; 24 cm.
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Langtangen, Hans Petter, 1962-
3rd ed. | Berlin : Springer, c2008. | xxiv, 750 p. : ill. ; 25 cm.
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Hetland, Magnus Lie.
2nd ed. | Berkeley : Apress, c2008 | xxx, 656 p. ; 23 cm.
Place Hold
Available online from SpringerLink
Available @ J.N. Desmarais Library
Electronic book - ONLINE / EN LIGNE
Python scripting for computational science / Hans Petter Langtang...

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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