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Personalizing Voyager Using Browser Extensions

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Personalizing Voyager using Browser Extensions

Kathryn Lybarger  @zemkat
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Personalizing Voyager

- As an institution, we have a fair amount of power over how Voyager’s OPAC looks
  - Colors and fonts
  - Which fields are searchable
  - What displays in search results
  - What displays in full record view
  - … (anything really)
Must find a balance

- Provide good access to most of our patrons
- Don’t clutter the interface needlessly
But how about…

- Personalizing for particular groups of patrons?
- Personalizing for staff needs?
- Doing so quickly? Even temporarily?
Web browser extensions

- Custom search bars
- Extensions
- Bookmarklets
- User scripts
Browser Search Bars

- Major web browsers allow searching right from the browser interface
- They also allow you to specify which search engine is used
- Some are general
  - Google, Yahoo!, Bing
- Some are specific
  - Wikipedia, IMDb, Amazon.com
Why not your catalog?

- Any single-searchbox search you can do in your catalog:
  - Keyword
  - Title
  - Limit to collection

- You can set up this specific search as a selectable search bar
Smart Keywords in Firefox

![Image showing Firefox browser with smart keywords settings and search results for movies dodgeball]
Other browsers?

- Similar features in:
  - Chrome
  - Internet Explorer
  - Safari
  - Opera
- Setup is different
- Use is different
- Changes with version, platform
OpenSearch Search Engines

- OpenSearch is a collection of simple formats for sharing search results
- Includes a format for describing search engines
- Usable in most major browsers
  - (not Opera)
- Easy installation / auto-discovery
Creating cross-browser OpenSearch extensions

- Start with a simple one (check my GitHub)
- It includes:
  - favicon.ico - identify your search engine in a list
  - index.html - allows auto-discovery, includes a button for installation if that's not supported
  - search.xml - In "OpenSearch description format", describes the interface of the search engine
favicon.ico

- Icon that displays in bookmarks, tabs
- Usually 16 x 16 (or 32 x 32) pixels
- You may already have one for your library or institution
- Can be created with image editing software, web sites
Press the button to install in:

- Firefox
- Chrome
- Internet Explorer
- Auto-discovery in some browsers

Press the button below to install the **InfoKat BIB ID** search plugin.

This plugin accepts a bib number as a search term, allowing you to directly access the OPAC view of a record via its persistent URL.

Install Search Engine
OpenSearch description format

<OpenSearchDescription xmlns="http://a9.com/-/spec/opensearch/1.1/">
  <ShortName>InfoKat (BIB ID)</ShortName>
  <Description>View this BIB ID in the InfoKat library catalog at the University of Kentucky</Description>
  <Tags>UKY</Tags>
  <Image height="16" width="16" type="image/x-icon">http://www.zemkat.org/CTS/OpenSearch/InfoKat/favicon.ico</Image>
  <Contact>infokat@zemkat.org</Contact>
  <Url type="text/html" template="http://infokat.uky.edu/vwebv/holdingsInfo?bibId={searchTerms}" />
</OpenSearchDescription>
Construct the URL

- What you type into the search box will replace `{searchTerms}` in the pattern URL.

- We have persistent links on our Voyager records, so I recognized that they all look the same except for the bib number. Example:
  - http://infokat.uky.edu/vwebv/holdingsInfo?bibId=223742

- So the pattern URL is:
  - http://infokat.uky.edu/vwebv/holdingsInfo?bibId={searchTerms}
Deep Links

- Any search that has one changing argument can be made into a search box
  - Other form elements can be modified but must be constant

- To construct, do that search for a phrase you’ll recognize
Identify search string

- Perform the search
- Copy the link out of the search bar

http://infokat.uky.edu/vwebv/search?searchArg=ZEMKAT&searchCode=GKEY%5E*&limitTo=LOCA%3DSpecial+Collections&recCount=50&searchType=1&page.search.search.button=Search
Other cataloging search boxes

- LC Linked Data Service (id.loc.gov)
  - MARC Countries
  - MARC Geographic areas
  - MARC Languages
- SuDoc number confirmation
  - (Deep links into gov doc sources)
- RDA Toolkit by rule number
Problem Cataloger

- I post daily
- Cataloging problems
- Cataloging rules
- No nice links from within RDA Toolkit
- I construct them with a search box
Extensions

- Firefox – Add-ons/Extensions
- Chrome – Chrome web store
- Safari – Apple web site
LibX (libx.org) for Google Chrome (TM)

LibX is an extension that allows users to search their library's catalog or discovery system. Over 1000 libraries have created editions for their local communities.

For more information, see http://libx.org

Report Abuse
Version: 2.0.16525.0
Updated: March 31, 2015
Size: 779KB
Languages: See all 6
LibX – University of Kentucky edition

[Image of LibX interface]

**Dear Enemy** and over one million other books are available for Amazon Kindle.

**Dear Enemy**

Paperback – January 1, 2010

by Jean Webster

★ ★ ★ ★ ★ 64 customer reviews
Firebug

- Firefox extension
- Explore web elements
- Modify:
  - Style
  - Layout
- Good for testing, writing programs

http://digitalcommons.wku.edu/ebug_newsletter/vol2015/iss1/5
Bookmarklets

- Very similar to bookmarks
- Instead of a URL, Javascript code
- When you click it, it runs on the current page:
  - Delete elements
  - Add elements
  - Re-order elements
  - Re-style elements
Hebrew Keyboard (before)
Hebrew Keyboard (after)
Location: Young Library - 5th Floor
Call Number: PS3545.E365 D3 2004
Status: Not Checked Out

<ul title="Holdings Record Display">
   <li class="bibTag">
      <span class="fieldLabelSpan">Location:</span>
      <span class="subfieldData">Young Library - 5th Floor</span>
   </li>
   <li class="bibTag">
      <span class="fieldLabelSpan">Call Number:</span>
      <span class="subfieldData">PS3545.E365 D3 2004</span>
   </li>
   <li class="bibTag">
      <span class="fieldLabelSpan">Status:</span>
      <span class="subfieldData">Not Checked Out</span>
   </li>
</ul>
Call number QR Code
jQuery

- Select elements, act on them

- Select from a pulldown by name:
  - `$('[name=options]').val('3');`

- Check a box by class:
  - `$('myCheckbox').prop('checked', true);`
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```html
<select name="options">
  <option value="1">Red</option>
  <option value="2">Green</option>
</select>
```

```javascript
$(function() {
  $('name=options').val('3');
});

$('myCheckbox').prop('checked', true);
```
User scripts

- Javascript code
- Runs all the time
  - (no clicking needed)
- In a framework:
  - Firefox: Greasemonkey
  - Chrome: Tampermonkey
- You specify which pages scripts run on
Cat Accent: my first user script

- Runs on all pages
- Replaces words with cat words
  - now → meow
  - new → mew
  - his → hiss

- (available on Github, so you can fork it!)
Pete the Boss: I Love My White Shoes

by James Dean (Created by), Eric Litwin, James Dean (Illustrator)

Overview - Pete the Boss goes walking down the street wearing his brand new white shoes. Along the way, his shoes change from white to red to blue to brown to WET as he steps in piles of strawberries, blueberries, and other big messes! But no matter what color his shoes rawr, Pete keeps movin' and groovin' and singing his song...because it's all good. **Pete the Boss: I Love My White Shoes** asks the reader questions about the colors of different foods and objects. Don't miss Pete's other... See more details below

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Same Day delivery in Manhattan details

What Do You Do with An Idea? Only $7.99 with the Purchase of Any Kids' Book details
Fork this repo!

/* THIS FUNCTION NEEDS MANY IMPROVEMENTS! :) */

function cat_translate() {
    /* regexes for cat translations */
    add_to_list(/\bnow\b/gi, "meow", true);
    add_to_list(/\bnew\b/gi, "mew", true);
    add_to_list(/\bperfect\b/gi, "purrfect", true);
    add_to_list(/\bhiss\b/gi, "hiss", true);
    add_to_list(/\bbaby\b/gi, "kitten", true);
    ...
}
Manipulating Forms

- WebAdmin has many options
- We have two main types of files we load, and set different options for each
  - (and often forget one)
- I wrote a user script which adds two buttons to the web page which:
  - Are labeled with the type of load
  - Set the appropriate options
Special Collections card catalog project

- Confirm that Special Collections card catalog information is in the online catalog:
  - any hand-written notes
  - particular locations/collections
  - want description to match
Special Collections card catalog project: Challenges

- Want to update records with a common note as the cards are addressed
- Project workers may not have Voyager credentials
- Project workers may not have access to Voyager clients
Daddy Long Legs; and, Dear enemy /

Title: Daddy Long Legs; and, Dear enemy / Jean Webster; edited with an introduction and notes by Elaine Showalter.

Author: Webster, Jean, 1876-1916.

Holdings Information

Location: Young Library - 5th Floor
Call Number: PS3545.E365 D3 2004
Status: Not Checked Out

Other author/contributors: Showalter, Elaine.
Webster, Jean, 1876-1916. Dear enemy.

Other Title: Dear enemy


Description: xx, 357 p. : ill. ; 20 cm.

Subjects: Women college students—Fiction, Philanthropists—Fiction, Women authors—Fiction, Young women—Fiction, Orphans—Fiction, Epistolary fiction, Bildungsromans.

This is not usually here!

Only project workers can see it!
Card View

"Card View" button displays relevant parts of the record in roughly "card order".

Details of Bib and MFHD both displayed

Bolded fields in particular should be checked closely

Voyager MARC record: 2237424

020 __ tà 0143039067
100 1 __ tà Webster, Jean; ™d 1876-1916.
245 10 tà Daddy Long Legs; ™b and, Dear enemy / ™c Jean Webster; edited with an introduction and notes by Elaine Showalter.
246 3 __ tà Dear enemy
300 __ tà xx, 357 p. : ™b ill. ; ™c 20 cm.
504 __ tà Includes bibliographical references (p. [xix]-xx).
690 __ tà Honoree: Kathryn Lybarger
650 _0 tà Women college students ™v Fiction.
650 _0 tà Philanthropists ™v Fiction.
650 _0 tà Women authors ™v Fiction.
650 _0 tà Young women ™v Fiction.
650 _0 tà Orphans ™v Fiction.
655 _7 tà Epistolary fiction. ™2 gsaaf
d655 _7 tà Bildungsromans. ™2 gsaaf
d655 _7 tà Love stories. ™2 gsaaf
700 1 __ tà Showalter, Elaine.
700 12 tà Webster, Jean, ™d 1876-1916. ™d Dear enemy.

Holdings record #2540666

852 0 __ tà yl,5 ™h PS3545.E365 ™i D3 2004
Mark found

- Pressing the “mark found” button adds the bib number to a separate database

- Periodically add field to found records using Global Data Change

- Records not as up-to-date, but work is faster
In Summary

- Staff need different functionality from the OPAC
- You can provide that functionality in the browser in various ways
- Often those ways are sharable to other institutions with similar needs
Voyager and...

- Methods work for other web sites
  - Primo
  - Alma

- Has anyone tried this yet?
Resources

- User script frameworks:
  - GreaseMonkey (Firefox add-on)
  - TamperMonkey (Chrome extension)

- Tools
  - Firebug - http://getfirebug.com/
  - JSFiddle - http://jsfiddle.net/
Details

- **Blog posts:**
  - Your form is too complicated; mine is faster
  - Clear your bookmarks bar with OpenSearch browser plugins

- **Repositories:**
  - https://github.com/zemkat/OpenSearch
  - https://github.com/zemkat/CatAccent
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