

Is That Book Checked Out?

Getting Holdings and Availability Data into Other Applications



Jane Sandberg

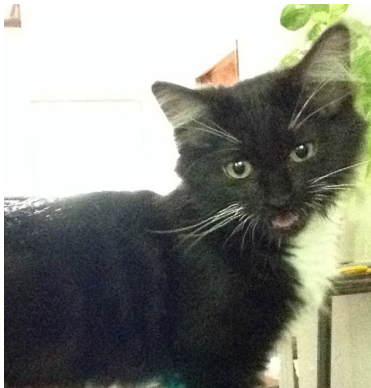
Linn-Benton Community College

April 21, 2016

Background

- Creating a new Discovery Layer
- Using Blacklight, because it's cool!
- Wanted real-time holdings data, but did not want to query the db directly.

I had already met SuperCat

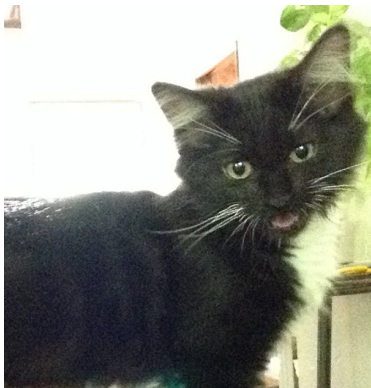


- Our consortium's sysadmin pointed me toward some documentation on the wiki
- I used it to create a cute display of our new books

SuperCat is nice!



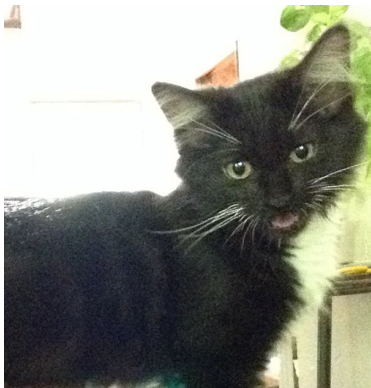
SuperCat is nice!



Format was nice!

I could easily parse the XML with nokogiri's xpath powers – Blacklight already had this as a dependency!

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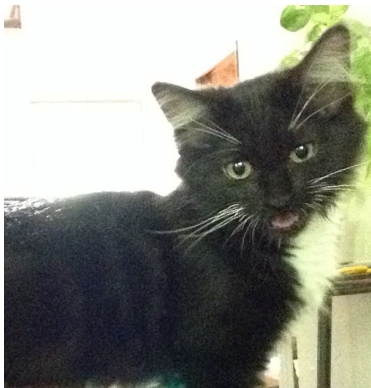
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Credentials required

None!

SuperCat is nice!



Format was nice!

I could easily parse the XML with nokogiri's xpath powers – Blacklight already had this as a dependency!

Credentials required

None!

Capabilities are clear

Easy to get to list of possible formats.

How to use SuperCat

Format

```
http://example.com/opac/extras/supercat/  
{COMMAND}/  
{FORMAT}/  
{Specific information needed by your COMMAND}
```


How to use SuperCat

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{COMMAND}/  
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{Specific information needed by your COMMAND}
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Example SuperCat query

```
http://libcat.linnbenton.edu/opac/extras/supercat/retrieve/atom-  
full/record/514477
```

Results of Supercat query

[snip]

```
<counts>
```

```
  <count type="public" count="1" available="1" unshad
```

```
  <count type="staff" count="1" available="1" unshad
```

```
</counts>
```

```
<volumes>
```

```
  <volume id="tag:open-ils.org:asset-call_number/643
```

```
    <copies>
```

```
      <copy id="tag:open-ils.org:asset-copy/442300"
```

```
        <status ident="0" opac_visible="t">Available
```

```
        <location ident="223" opac_visible="t">New b
```

```
        <circlib ident="7" opac_visible="t">LBCC Lib
```

[snip]

Supercat isn't perfect

- The atom-full format had everything I needed, but it also returns a bunch of other (bibliographic) data that we don't really need.
- htmlholdings-full format didn't have any helpful markup. Also wasn't totally interested in dropping results in as an HTML list.
- Staff suggestion: display due datetime when item checked out

OpenSearch



Credit: Alan David Robb / CC0

OpenSearch



Credit: Alan David Robb / CC0

Format was also nice!
In fact, it had the same
format options as
supercat...

OpenSearch



Credit: Alan David Robb / CC0

Format was also nice!
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Credentials required
None!

OpenSearch



Credit: Alan David Robb / CC0

Format was also nice!

In fact, it had the same
format options as
supercat...

Credentials required

None!

Capabilities are clear

Because they are the same
as supercat...

UnAPI



Credit: Public Domain Image

UnAPI



Credit: Public Domain Image

Format was almost ideal!
holdings_xml-full!

UnAPI



Credit: Public Domain Image

Format was almost ideal!
holdings_xml-full!

Credentials required
None!

UnAPI



Credit: Public Domain Image

Format was almost ideal!
holdings_xml-full!

Credentials required
None!

Capabilities are not clear
Unless you read through
Open-ILS/src/perlmods
/lib/OpenILS/WWW
/SuperCat.pm

UnAPI

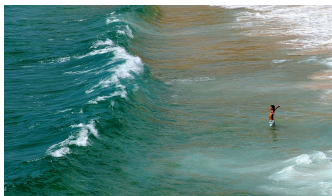
- URLs look like this:
`https://libcat.linnbenton.edu/opac/extras/unapi?id=tag:U2@bre:biblio_record_entry/280157&format=holdings_xml-full`
- Still don't have due dates in there.

JSON from opensrf web gateway



Credit: Joaquim Alves Gaspar /
CC-BY-SA-3.0

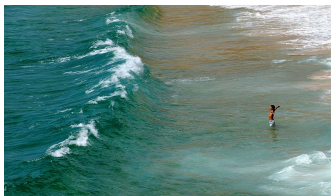
JSON from opensrf web gateway



Format is kinda scary
But very compact!

Credit: Joaquim Alves Gaspar /
CC-BY-SA-3.0

JSON from opensrf web gateway



Credit: Joaquim Alves Gaspar /
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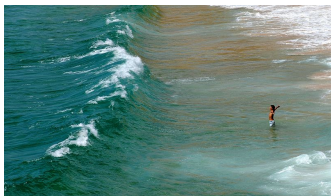
Format is kinda scary

But very compact!

Credentials required

Authentication token

JSON from opensrf web gateway



Credit: Joaquim Alves Gaspar /
CC-BY-SA-3.0

Format is kinda scary
But very compact!

Credentials required
Authentication token

Capabilities are pretty
much unlimited

As long as Evergreen can
do it, I can do it too.

JSON from opensrf web gateway

```
http://libcat.linnbenton.edu/gateway?  
service=open-ils.cat&  
method=open-ils.cat.asset.copy_tree.retrieve&  
param=[AUTH TOKEN]&  
param=294385&param=7
```

Getting an auth token



How to get here: Admin → For developers → Javascript Shell

Results of opensrf query

```
{ "payload": [ [ [ /*--S acn--*/ [ [ "2012-11-13T15:50:08-0800", 756052, "f", "2012-11-13T15:50:08-0800", 756052, 275533, "M1507.O5555 2003bx", 7, 294385, null, null, null, "M1507 O5555 02003BX", /*--S acnc--*/ [ 3, "Library of Congress (LC)", "asset.label_normalizer_lc", "050ab,055ab,090abef" ] /*--E acnc--*/ , /*--S acnp--*/ [ -1, "", "", 1 ] /*--E acnp--*/ , /*--S acns--*/ [ -1, "", "", 1 ] /*--E acns--*/ ] /*--E acn--*/ , /*--S acn--*/ [ [ /*--S acp--*/ [ null, null, "38813001133703", 358160, null, 7, "DEFAULT", "t", null, "2012-11-13T15:51:31-0800",
```

[snip]