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Ready...Set...URIs...Actionable!

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Identifiers

Why identifiers?

First of Tim Berners-Lee's four principles of linked data:

"Use URIs as names for Things."

Resource

The THING that has an identity

Uniformity

Why uniform identifiers?

Uniformity facilitates semantic interpretation

Why IRIs?

URIs: US-ASCII, subset of IRI

IRIs: fully Unicode-enabled

ASCII (URI) vs. UTF-8 (IRI)

	encoding						utf-8 or %HH	us-ascii or %HH
original	<===>	bytes					IRI	URI
March	utf-8	4D	61	72	63	68	March	March
März	utf-8	4D	C3	A4	72	7 A	März	M%C3%A4rz
März	iso-8859-1	4D	E4	72	7 A		M%E4rz	M%E4rz
März	macintosh	4D	8 A	72	7A		M%8Arz	M%8Arz
								L

URI: http://xn--99zt52a.w3.mag.keio.ac.jp

IRI: http://納豆.w3.mag.keio.ac.jp

Actionability

Why actionable URIs/IRIs?

Second of Tim Berners-Lee's four principles of linked data:

"Use HTTP URIs so that people can look up those names."

Actionability

Use HTTP scheme to query and retrieve:

"http:" "//" host [":" port] [abs_path ["?" query]]

Actionability

Not actionable: (OCoLC)fst00903451

Actionable: http://id.worldcat.org/fast/903451

Current environment

Where does linked data fit in?

First two principles of linked data already within reach

A mighty subfield

\$0

- Authority record control number or standard number
- Available for X00, X10, X11, X30, 240, most 65X, others
- Repeatable

Processing

Batch processing using MarcEdit



Processing

Batch processing with Perl scripting

```
## FAST fst 2nd indicator value 7
    for my $f6XX ( $record->field('65.') ) {
        my $sub2 = $f6XX->subfield('2') if ($f6XX->subfield('2'));

    if ( $sub2 ) {
        if ( $sub2 =~/fast/ ) {
            my $sub0 = $f6XX->subfield('0') if ($f6XX->subfield('0'));
        if ($sub0 =~ /fst/ ) {
            my ($rem, $ID) = split /fst/, $sub0;

            my $newSUB = qq{http://id.worldcat.org/fast/$ID};
            $f6XX->update( 0 => $newSUB);}
            }
        }
    }
}
```

Processing

Single record updating using URIs provided by id.loc.gov, FAST, VIAF, other services

Costs and benefits

Costs and drawbacks

- time spent learning, training
- time spent performing additional step, quality control, supplemental editing
- lack of immediate visible results

Costs and benefits

Benefits

- improved knowledge of MARC
- acquaintance with id.loc.gov, FAST, VIAF
- improved MarcEdit skills
- "things" vs. "strings"