FAST in Practice:
a progress report from Cornell

NOTSL/NORASIST MEETING
CUYAHOGA COUNTY PUBLIC LIBRARY, NOVEMBER 21ST, 2014
CHEW CHIAT NAUN (CNC53@CORNELL.EDU)
CORNELL UNIVERSITY
The FAST Team

<table>
<thead>
<tr>
<th>OCLC Research</th>
<th>Cornell University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rick Bennett</td>
<td>Gary Branch</td>
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<tr>
<td>Eric Childress</td>
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<tr>
<td>Kerre Kammerer</td>
<td>Steven Folsom</td>
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<td>Diane Vizine-Goetz</td>
<td>Ardeen White</td>
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</tbody>
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Cornell cataloguers for pilot: Yen Bui, Roswitha Clark, Sung Ok Kim, Yelena Kurbanova, Apikanya McCarty, Teresa Mei
Also: Frances Webb (Cornell Discovery & Access team)
Outline

Motivations
Players
LCSH vs FAST
Discovery implications
Cataloguing experiences
Vocabulary development
Future possibilities
Why FAST? Why Us? Why Now?

Two drivers:

Discovery and Access
- Improved genre/form access and faceting

Minimal level cataloguing
- Controlled subject access
Discovery and Access Initiative

- Charged to provide integrated access
  - Multiple data sources
  - Improved user experience
- Representation across the library
  - Library Technical Services members
  - Project developer
- Blacklight system
  - Open source
  - Runs off triple store
  - Supports faceted interface
  - Full local control over Solr index
Cornell Pipeline for Blacklight

Data Sources
- MARC21 (from ILS and elsewhere)
- Non-MARC

Integration Layer
- XML
- RDF

Indexing
- Mapping to Solr Fields for Blacklight
Library Technical Services

- No-backlog policy
- Minimal-level cataloguing
  - About 25% of original cataloguing output
  - Subject keywords
- Non-MARC cataloguing
- Emphasis on cross-functional training
- Internal Batch Processing/Automation unit
Timeline

**September 2013**
- Cornell makes initial inquiry to OCLC about genre/form algorithm
- OCLC announces plan to populate WorldCat with FAST

**December 2013**
- ALCTS eforum on FAST

**January 2014**
- OCLC and Cornell agree to FAST conversion project

**February 2014**
- FAST cataloguing pilot commences (will become MLC standard in December)

**Spring 2014**
- Batch conversion testing
- Vocabulary development discussions (local extensions, problematic mappings)

**October 2014**
- OCLC delivers converted records
- Cornell begins merging FAST headings into Voyager records

**Early 2015?**
- FAST implemented in discovery
LCSH Limitations for Faceting

- Inconsistent terminology (place names)
- Implied concepts (events)
- Obsolete coding (genre/form)
- Nonspecific, nonparseable dates
- Weak hierarchy
## Current Subject Faceting in Blacklight

<table>
<thead>
<tr>
<th>Field</th>
<th>Count</th>
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<tbody>
<tr>
<td>Language</td>
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<tr>
<td>Subject/Genre</td>
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<tr>
<td>Gambling</td>
<td>12</td>
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<tr>
<td>Casinos</td>
<td>4</td>
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<tr>
<td>Minority business enterprises</td>
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<td>United States: Small</td>
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<tr>
<td>Business Administration</td>
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<tr>
<td>Bildungsromans</td>
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</tr>
<tr>
<td>Subject: Region</td>
<td></td>
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<tr>
<td>Las Vegas (Nev)</td>
<td>17</td>
</tr>
<tr>
<td>Nevada Las Vegas</td>
<td>11</td>
</tr>
<tr>
<td>United States</td>
<td>2</td>
</tr>
<tr>
<td>Arizona Black Mesa (Navajo County and Apache County)</td>
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<tr>
<td>Black Mesa (Navajo County and Apache County, Ariz.)</td>
<td>1</td>
</tr>
<tr>
<td>Subject: Era</td>
<td></td>
</tr>
<tr>
<td>20th century</td>
<td>4</td>
</tr>
<tr>
<td>Fiction/Non-Fiction</td>
<td></td>
</tr>
</tbody>
</table>

1. **The real Las Vegas** 1996

2. **The man who invented Las Vegas** 2000
   - Olin Library F849.L35 W56x 2000

3. **Super casino : inside the "new" Las Vegas** 2001
   - ILR Library (Ives Hall) F849.L35 E27 2001

4. **24/7 : living it up and doubling down in the new Las Vegas** 1999
   - Multiple Locations
## Faceting: Before and After

### Before

**Subject/Genre**
- Gambling
- Casinos
- Minority business enterprises
- United States. Small Business Administration
- Bildungsromans

**Subject: Region**
- Las Vegas (Nev.) 17
- Nevada--Las Vegas 11
- United States 2
- Arizona--Black Mesa (Navajo County and Apache County) 1
- Black Mesa (Navajo County and Apache County, Ariz.) 1

**Subject Era**
- 20th century 4

### After (aspirational!)

**Subject: Topic**
- Gambling 12
- Casinos 4
- Minority business enterprises 2
- United States. Small Business Administration 2

**Subject: Region**
- Nevada--Las Vegas 28
- Arizona--Black Mesa (Navajo County and Apache County) 2
- United States 2

**Subject: Era**
- 1900-1999 4

**Genre**
- Bildungsromans 1
What about all those duplicated headings?

Apply conditional logic in Solr mappings

Prefer FAST for faceting
  ◦ Use 6XX with $2 fast

Prefer LCSH in record view
  ◦ Suppress FAST from individual record view if LCSH is present.
Individual record view

**BEFORE**

**Wild women do**

*female killers, tricksters and crooks in Singapore*

Yeo Suan Futt

- **Author/Creator**: Yeo, Suan Futt
- **Format**: Book
- **Language**: English
- **Published**: Singapore : Marshall Cavendish Editions, (2013)
- **Subject**: Female offenders > Singapore
  - Crime > Singapore
- **Description**: 168 pages ; 20 cm
- **ISBN**: 9789814398411 (paperback)

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**AFTER**

**Wild women do**

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  978143984111 (paperback)
Cataloguing with FAST

- For minimal-level cataloguing only
  - Replaces use of uncontrolled 653

- Pilot since February 2014
  - Using http://fast.oclc.org/searchfast/
Cataloguing with FAST

• Introductory presentation
• Characteristics of FAST
• Strengths and weaknesses
• Cheat sheet
• FAST “mindset”
FAST heading types

Based on LCSH, but separated into facets:

- **Topical** (650)
- **Geographical** (651)
- **Event** (611)
- **Genre/form** (655)
- Name (600, 610)
- Chronological (648)
- Uniform titles (630)
FAST strengths

Easier to learn

Better controlled
  - All headings have authority ID (linked data)

Better suited to faceted discovery systems
  - Individual facets more meaningful than 6XX subfields

Backwards-compatible
  - Can be converted from LCSH
  - OCLC now adding FAST
FAST weaknesses

Not as specific as LCSH, e.g.
- United States – Foreign relations – China
- Hugo, Victor, 1802-1885 – Musical settings

Some irregularities caused by source data
Editing tools not yet integrated
Long-term commitment by OCLC?
searchfast
searchfast
Key training points

Use what you find (all headings established)

Subjects do not cross facets

Observe distinction between topical and genre/form facets

Fewer application rules
  • No constraints on combinations of topical and geographical terms
  • Order of headings is not significant

Dates can be whatever you need to assign.
FAST vs LCSH: Round Two

100 1_ $aBall, Susan C.,$d1957-$eauthor.

245 10 $aVoices in the band :$ba doctor, her patients, and how the outlook on AIDS care changed from doomed to hopeful /$cSusan C. Ball.


650 _0 $aAIDS (Disease)$zNew York (State)$zNew York$xHistory.

650 _0 $aAIDS (Disease)$xPatients$zNew York (State)$zNew York.

648 _7 $a1992-2000$2fast

650 _7 $aAIDS (Disease)$xPatients$2fast$0(OCoLC)fst00793864

651 _7 $aNew York (State)$zNew York$2fast$0(OCoLC)fst01204333

655 _7 $aPersonal narratives$2fast$0(OCoLC)fst01423843

655 _7 $aSocial history$2fast$0(OCoLC)fst01411634
Cataloguing: state of play

1,500+ titles catalogued to date
Generally well-accepted by cataloguers
Will adopt as minimal-level standard in December

Further steps
- Maintenance
- Improvements to editing tools?
- LCSH vs FAST again
Vocabulary issues

Unestablished headings
Problematical mappings
Missing references (e.g. vernacular)
Scope notes
Event headings
What happens if a heading is not in FAST?

Extensions

For manual cataloguing:

Not in LCNAF:

600 17 $a Folsom, Steven $2 fast/NIC

In LCNAF but not in FAST:

600 17 $a Childress, Eric $2 fast/naf $0 (DLC)no2005043559

Legal but not explicitly established in LCSH:

650 _7 $a Elephants $x Weight $2 fast/lcsh

For batch conversion:

Accept headings that failed to validate, but add separate FAST extension:

650 _7 $a Roriquez Rivera, Virginia $2 fast/NIC/NAC
Batch load

For loading into Voyager:
• Retain existing LCSH, but merge FAST headings into records that don’t have them.
• Convert $x$ form subdivisions to FAST 655s except for post-2000 LC records.

For loading to WorldCat:
• Add $2$ fast/NIC, fast/naf, and fast/lcsh headings to WorldCat master records
• Do not add $2$ fast/NIC/NAC to WorldCat
• OCLC Research will harvest $2$ fast/naf and fast/lcsh (but not fast/NIC) and add to the FAST vocabulary
Maintenance

In theory:

- For new records lacking FAST, rely on OCLC master record updates
- OCLC will supply report of changed headings
- IDs should facilitate automation
- Not restricted to ILS data
## FAST change report

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
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<tbody>
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<td>reading</td>
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<td>OldHeading</td>
<td>References</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<td>56</td>
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<td>Old</td>
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<tr>
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<tr>
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</table>

**References**

- 05 surrounded by (56) | 05/0000000
- 05 surrounded by (56) | 05/0000000
- 05 surrounded by (56) | 05/0000000
- 05 surrounded by (56) | 05/0000000

**Notes**

- Fastchange and overlay (56) | 05/0000000
- Fastchange and overlay (56) | 05/0000000
- Fastchange and overlay (56) | 05/0000000
- Fastchange and overlay (56) | 05/0000000
Mapping subdivisions

Description and travel ➔ Travel
Death and burial ➔ Death and burial of a person
Economic conditions ➔ Economic history
Pictorial works ➔ Pictorial works (655)
Congresses ➔ Conference proceedings (655)
Relations ➔ ????
Problematical mappings

651 _0 |a Indonesia |x Relations |z China |x History.
651 _0 |a China |x Relations |z Indonesia |x History.
650 _7 |a Relations |2 fast |0 (OCoLC)fst01892706
651 _7 |a China. |2 fast |0 (OCoLC)fst01206073
651 _7 |a Indonesia. |2 fast |0 (OCoLC)fst01209242
“Relations” – OCLC solution

Relations [countries] → International relations
Foreign relations → Diplomatic relations
Foreign economic relations → International economic relations
Military relations → Military relations
Relations [religions] → Interfaith religions
Event headings

FAST conversion output
611 _7 $a Trenton, Battle of (New Jersey : 1776) $2 fast
648 _7 $a 1776 $2 fast
651 _7 $a New Jersey $2 Trenton $2 fast

FAST event authority
034 __ $d W07444355$e W07444355$e N0401301$g N0401301$g2 geonames
043 __ $a n-us-nj
046 __ $s1776
053 _0 $a E241.T7
111 0 _ $a Trenton, Battle of (New Jersey : 1776)
511 __ $a American Revolution (1775-1783)$0 (OCoLC)$f$t01351668$w g
551 __ $a New Jersey$z Trenton$0 (OCoLC)$f$t01207908
Implied data: other possibilities?

016 7_ $a fst01033761$2 OCoLC
040 __ $a OCoLC$b eng$c OCoLC$f fast
053 _0 $a DD253$b DD255$c Germany
150 __ $a National socialism
450 __ $a Nazism
551 __ $a Germany $0 (OCoLC)fst01210272
Recap of Benefits

Better designed terms for faceting
Eliminates split values in facets
Potential to parse out facet types, e.g. subject vs genre
Better control of subjects in minimal level cataloguing
Aligns with linked data goals
Two name forms

LC: Rembrandt Harmenszoon van Rijn, 1606-1669
ULAN: Rembrandt van Rijn
ID: 5000111051

Rembrandt van Rijn (Dutch painter, draftsman, and printmaker, 1606-1669)

Note: Noted as one of the most popular and influential artists of his period. His work is characterized by the Baroque interest in dramatic scenes and strong contrasts of light on a dark stage. The subjects of his works include portraits, landscapes, figures, animals, and scenes of biblical and secular history and mythology. He was very prolific, producing paintings, etchings, and drawings. Rembrandt executed about 400 paintings, over 1000 drawings, and around 300 etchings.

Names:

Rembrandt van Rijn (preferred, V, display, IC) — "Rijn" refers to a geographic place, the site of the mill owned by his father in Leyden

Rijn, Rembrandt van (V)
Rembrandt Harmensz. van Rijn (V)
Rembrandt Harmensz. van Rijn (V)
Van Rijn, Rembrandt (V)
Rembrandt (V)

... from 1632 onwards he signed his works with only the forename "Rembrandt"; in documents, however, he continued to sign "Rembrandt van Rijn"
VIAF: ULAN to LC

{ "viafID":"64013650", "BAV": ["ADV12608643","ADV12133591"], "BIBSYS": ["x90079516"], "BNE": ["XX1721483"], "BNF": ["http://catalogue.bnf.fr/ark:/12148/cb11940484n"], "DNB": ["http://dnb.info/gnd/185997163","http://dnb.info/gnd/187972621","http://dnb.info/gnd/11859964X"], "ISNI": ["0000000121363802"], "JPG": ["500011051"], "LAC": ["005636912"], "LC": ["n79142935"], "LNB": ["LCN10-000052327"], "NCL": ["00453967"], "NKC": ["jn20000701488"], "NLA": ["0000035139809"], "NLI": ["000010683"], "NLE": ["all1412719"], "NNS": ["000006655"], "NTA": ["06866558X"], "NUKAT": ["vtls000536005"], "PTEHH": ["79239"], "SELIBR": ["197544"], "SWDCC": ["027341925"], "SWNL": ["vtls000164787"], "WKB": ["Rembrandt"], "IMAGINE": ["http://www.imj.org.il/imagine/thesaurus/artists/T9821.htm"]}
LC to FAST

Rembrandt Harmenszoon van Rijn, 1606-1669 [Find in WorldCat]

Used for:
- Râmbrânt, 1606-1669
- Rembrandt Garmes van Reïn, 1606-1669
- Rembrandt van Reïn, 1606-1669
- Lun-po-lang, 1606-1669
- Rembrandt, 1608-1669
- Van Rijn, Rembrandt Harmenszoon, 1606-1669
- Rijn, Rembrandt Harmenszoon van, 1606-1669
- Rembrandt Harmensz van Rijn, 1606-1669
- Rembrandt, 1606-1669
- Rembrandt van Rijn, 1606-1669

Usage:
- LC (2014) Subject Usage: 432
- WC (2014) Subject Usage: 7,025

Record ID:
fa9004d7043

Sources and Other Links:
- Rembrandt Harmenszoon van Rijn, 1606-1669 (DLC: 79142395)
- Rembrandt Harmenszoon van Rijn, 1606-1669 (URL: http://viaf.org/viaf/64013650)
- Rembrandt (URL: http://en.wikipedia.org/wiki/Rembrandt)
Closing thoughts

Cataloguers addressing discovery
Value of research-driven organization
Editorial process
Having control over your tools
Getting there from here
Resources


Kelley McGrath, “Facet-Based Search and Navigation with LCSH: Problems and Opportunities” [http://journal.code4lib.org/articles/23](http://journal.code4lib.org/articles/23)

OCLC FAST web site: [http://oclc.org/research/activities/fast.html](http://oclc.org/research/activities/fast.html)

ALCTS eforum summary:


Cornell cheat sheet: [http://lts.library.cornell.edu/lts/pp/cat/127FAST](http://lts.library.cornell.edu/lts/pp/cat/127FAST)

Cornell FAST introductory presentation: [http://ecommons.cornell.edu/bitstream/1813/34435/2/FAST_C%26M.pptx](http://ecommons.cornell.edu/bitstream/1813/34435/2/FAST_C%26M.pptx)
Questions?