Implementing FAST at the University of North Texas Libraries

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Outline

Cataloging

Motivation to use FAST

- Converting LCSH to FAST
 - Challenges
 - Analysis

User Experience and Discovery

- Implications for discovery
 - Indexing
 - Facet values
 - Record display

Final thoughts

UNT Libraries



Willis Library

• Students: 32,392 FTE (Fall 2020)

- Collection size (FY2020): 3,912,011 items
 - 2,393,012 physical items
 - **2**,123,159 print books
 - 46,742 print journals
 - 223,111 physical media
 - o 1,518,999 electronic items
 - 1,151,032 electronic books
 - 189,202 electronic journals
 - 518 databases
 - 178,247 electronic media

Cataloging Workgroup

Mission

The Cataloging Workgroup will develop and implement consistent and uniform cataloging policies and practices across the UNT Libraries. This workgroup will discuss and resolve issues concerning MARC records in Sierra, OCLC cataloging systems and services, cataloging standards such as RDA: Resource Description and Access, as well as linked data and BIBFRAME.

Membership

Cataloging and Metadata Services – 1

Collection Development - 1

Government Documents – 1

Media Library – 1

Music Library – 1

Special Collections – 1

Cataloging Coordinator

Coordinating Discovery Systems Librarian

Resource Discovery Systems Librarian

Projects in Progress in 2018

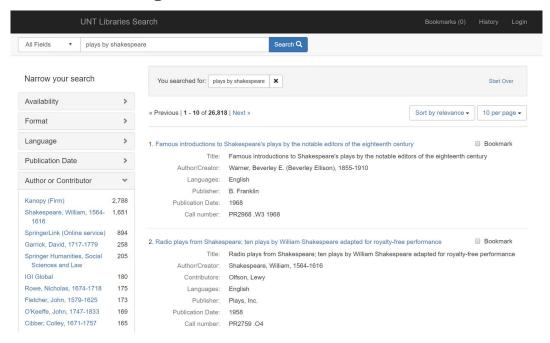
Automated Authority Control



MARS 2.0 Authority Control Planning Guide



Faceted Catalog



FAST (Faceted Application of Subject Terminology)

What is FAST?

- Fully enumerative faceted subject heading schema (i.e., authority records for all headings)
- Derived from Library of Congress Subject Headings (LCSH)

Benefits of FAST

- Simple to learn and apply
- Developed for friendly faceted-navigation
- LC subject headings can be converted to FAST headings
- Used to enrich WorldCat bibliographic records



LCSH vs. FAST: Duplication

- 650 #0 \$a Beauty, Personal.
- 650 #0 \$a Self-perception.
- 655 #7 \$a Internet videos. \$2 lcgft
- 655 #7 \$a Documentary films. \$2 lcgft
- 650 #7 \$a Beauty, Personal. \$2 fast \$0 (OCoLC)fst00829396
- 650 #7 \$a Self-perception. \$2 fast \$0 (OCoLC)fst01111797
- 655 #7 \$a Internet videos. \$2 fast \$0 (OCoLC)fst01750214
- 655 #7 \$a Documentary films. \$2 fast \$0 (OCoLC)fst01710390



LCSH vs. FAST: Duplication

650 #0 \$a Budget \$z United States \$v Periodicals.

650 #7 \$a Budget. \$2 fast \$0 (OCoLC)fst00840336 651 #7 \$a United States. \$2 fast \$0 (OCoLC)fst01204155 655 #7 \$a Periodicals. \$2 fast \$0 (OCoLC)fst01411641



Theoretical Mapping to Facets

Chronological

648 \$a

6XX \$y

Genre/Form

655 \$a

6XX \$v

Geographic

651 \$a

6XX \$z

Topical

650 \$a

6XX \$x

650 #0 \$a Budget \$z United States \$v Periodicals.

650 #7 \$a Budget. \$2 fast \$0 (OCoLC)fst00840336 651 #7 \$a United States. \$2 fast \$0 (OCoLC)fst01204155

655 #7 \$a Periodicals. \$2 fast \$0 (OCoLC)fst01411641

Genre/Form

Periodicals

Geographic

United States

Topical

Budget

LCSH vs. FAST: Chronological Differences

651 #0 \$a Ghana \$x History \$y Coup d'état, 1981.

611 27 \$a Coup d'état (Ghana: 1981) \$2 fast \$0 (OCoLC)fst01352585

648 #7 \$a **1981** \$2 fast

651 #7 \$a Ghana \$2 fast \$0 (OCoLC)fst01208741

655 #7 \$a History \$2 fast \$0 (OCoLC)fst01411628



LCSH vs. FAST: Chronological Differences

651 #0 \$a Lebanon \$x History \$y Civil War, 1975-1990.

611 27 \$a Civil War (Lebanon: 1975-1990) \$2 fast \$0 (OCoLC)fst01352309

648 #7 \$a **1975-1990** \$2 fast

651 #7 \$a Lebanon \$2 fast \$0 (OCoLC)fst01206063

655 #7 \$a History \$2 fast \$0 (OCoLC)fst01411628



LCSH vs. FAST: Chronological Differences

651 #0 \$a Great Britain \$x History \$y George V, 1910-1936.

648 #7 \$a **1910-1936** \$2 fast

651 #7 \$a Great Britain \$2 fast \$0 (OCoLC)fst01204623

655 #7 \$a History \$2 fast \$0 (OCoLC)fst01411628



LCSH vs. FAST: Geographic Differences

- 650 #0 \$a Female friendship **\$z California \$z Los Angeles** \$v Drama. 650 #0 \$a African American women \$z California \$z Los Angeles \$v Drama. 651 #0 **\$a Los Angeles (Calif.)** \$x Social conditions \$v Drama.
- 650 #7 \$a Female friendship. \$2 fast \$0 (OCoLC)fst00922609
- 650 #7 \$a African American women. \$2 fast \$0 (OCoLC)fst00799438
- 650 #7 \$a Social conditions. \$2 fast \$0 (OCoLC)fst01919811
- 651 #7 \$a California \$z Los Angeles. \$2 fast \$0 (OCoLC)fst01204540
- 655 #7 \$a Drama. \$2 fast \$0 (OCoLC)fst01423879



LCSH vs. FAST: Facet Values

LCSH

Chronological

Civil War, 1975-1990 Coup d'état, 1981 George V, 1910-1936

Genre/Form

Drama

Geographic

California -- Los Angeles Ghana Great Britain Lebanon Los Angeles (Calif.)

Topical

African American women Female friendship History Social conditions

FAST

Chronological

1910-1936 1975-1990 1981

Genre/Form

Drama History

Geographic

California -- Los Angeles Ghana Great Britain

Lebanon

Meeting/Event

Civil War (Lebanon : 1975-1990) Coup d'état (Ghana : 1981)

Topical

African American women Female friendship Social conditions

Cataloging Workgroup Decision

The Cataloging Workgroup has agreed in principle to implement Faceted Application of Subject Terminology (FAST) as part of the automated authority control project.

6XX Subject Access Fields

Scope

MARC fields 600, 610, 611, 630, 647, 648, 650, and 651 in bibliographic records in Sierra.

Sources for Subject Terms

The University of North Texas Libraries uses subject terms from the following controlled vocabularies:

2 nd Ind.	\$2 code	Source Name
0		<u>Library of Congress subject headings</u> (Washington, DC: Library of Congress, Cataloging Distribution Service) [also available through <u>Classification Web</u> and OCLC Connexion]
7	lctgm	Thesaurus for graphic materials: TGM I, Subject terms
7	liv	Legislative indexing vocabulary (Washington, DC: Library of Congress, Congressional Research Service)
7	nasat	NASA thesaurus (Washington. D.C.: NASA, Scientific and Technical Information Office)

Additional controlled vocabularies may be used based on the needs of an individual library/department. Contact the chair of the Cataloging Workgroup if you are interested in using a subject term from a controlled vocabulary not listed above.

Note: The Cataloging Workgroup has agreed in principle to implement <u>Faceted Application of Subject</u> <u>Terminology (FAST)</u> as part of the automated authority control project.

Source: UNT Libraries' Cataloging Manual

Converting LCSH to FAST with Backstage Library Works

Before

650 #0 \$a Women \$z United States.

651 #0 \$a United States \$x Social life and customs \$y To 1775.

After

650 #0 \$a Women \$z United States. \$0 http://id.loc.gov/authorities/subjects/sh85147355

651 #0 \$a United States \$x Social life and customs \$y To 1775.

\$0 http://id.loc.gov/authorities/subjects/sh85140528

648 #7 \$a To 1775 \$2 fast

650 #7 \$a Manners and customs. \$2 fast \$0 (OCoLC)fst01007815

650 #7 \$a Women. \$2 fast \$0 (OCoLC)fst01176568

651 #7 \$a United States. \$2 fast \$0 (OCoLC)fst01204155



LCSH to FAST: OCLC vs. Backstage

OCLC

- 650 #0 \$a Concrete bridges \$x Design and construction \$v Juvenile literature.
- 650 #0 \$a Cement \$v Juvenile literature.
- 650 #7 \$a Cement. \$2 fast \$0 (OCoLC)fst00850432
- 650 #7 \$a Concrete bridges \$x Design and construction. \$2 fast \$0 (OCoLC)fst01728119
- 655 #7 \$a Juvenile works. \$2 fast \$0 (OCoLC)fst01411637

Backstage

- 650 #0 \$a Concrete bridges \$x Design and construction \$v Juvenile literature.
- 650 #0 \$a Cement \$v Juvenile literature.
- 650 #7 \$a Concrete bridges \$x Design and construction. \$2 fast \$0 (OCoLC)fst01728119
- 650 #7 \$a Concrete bridges. \$2 fast \$0 (OCoLC)fst01715656
- 650 #7 \$a Cement. \$2 fast \$0 (OCoLC)fst00850432
- 655 #7 \$a Juvenile works. \$2 fast \$0 (OCoLC)fst01411637

LCSH to FAST: OCLC vs. Backstage

OCLC

- 610 10 \$a United States. \$b Veterans Administration \$x Officials and employees.
- 650 #0 \$a Veterans' hospitals \$x Security measures \$z United States.
- 650 #0 \$a Veterans' hospitals \$x Employees \$x Training of \$z United States.
- 655 #7 \$a Legislative hearings. \$2 lcgft
- 610 17 \$a United States. \$b Veterans Administration. \$2 fast \$0 (OCoLC)fst00558176
- 650 #7 \$a Employees. \$2 fast \$0 (OCoLC)fst00909111
- 650 #7 \$a Veterans' hospitals \$x Security measures. \$2 fast \$0 (OCoLC)fst01165841
- 651 #7 \$a United States. \$2 fast \$0 (OCoLC)fst01204155
- 655 #7 \$a Legislative hearings. \$2 fast \$0 (OCoLC)fst01910825

Backstage

- 610 10 \$a United States. \$b Veterans Administration \$x Officials and employees.
- 650 #0 \$a Veterans' hospitals \$x Security measures \$z United States.
- 650 #0 \$a Veterans' hospitals \$x Employees \$x Training of \$z United States.
- 655 #7 \$a Legislative hearings. \$2 lcgft
- 610 17 \$a United States. \$b Veterans Administration. \$2 fast \$0 (OCoLC)fst00558176
- 650 #7 \$a Employees. \$2 fast \$0 (OCoLC)fst00909111
- 650 #7 \$a Veterans' hospitals \$x Security measures. \$2 fast \$0 (OCoLC)fst01165841
- 650 #7 \$a Veterans' hospitals. \$2 fast \$0 (OCoLC)fst01165817
- 650 #7 \$a Veterans' hospitals \$x Employees. \$2 fast \$0 (OCoLC)fst01165828
- 651 #7 \$a United States. \$2 fast \$0 (OCoLC)fst01204155
- 655 #7 \$a Legislative hearings. \$2 fast \$0 (OCoLC)fst01910825

LCSH to FAST: OCLC vs. Backstage

OCLC

```
650 #0 $a Mexican Americans $v Fiction.
650 #7 $a Mexican Americans. $2 fast
$0 (OCoLC)fst01019072
655 #7 $a Fiction. $2 fast
$0 (OCoLC)fst01423787
```

Backstage

```
650 #0 $a Mexican Americans $v Fiction.

$0 http://id.loc.gov/authorities/subjects/sh2008107217

650 #7 $a Mexican Americans. $2 fast

$0 (OCoLC)fst01019072

651 #7 $a United States. $2 fast

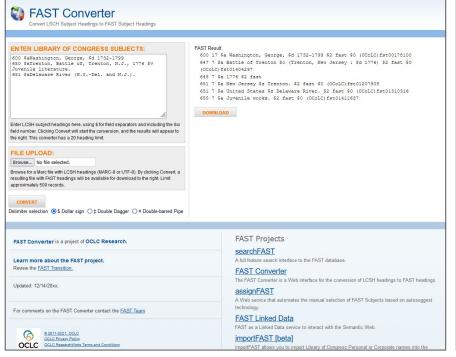
$0 (OCoLC)fst01204155

655 #7 $a Fiction. $2 fast

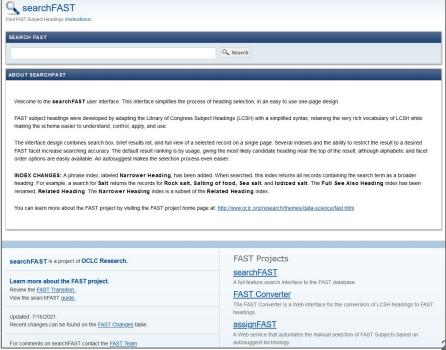
$0 (OCoLC)fst01423787
```

FAST Tools

FAST Converter: https://fast.oclc.org/lcsh2fast/



searchFAST: http://fast.oclc.org/searchfast/



Backstage Processing Issues: Biography

Before (Test File)

Example 1 Example 1 650 #0 \$a Country musicians \$v Biography. 650 #0 \$a Country musicians \$v Biography. 650 #7 \$a Country musicians \$x Biography. \$2 fast 650 #7 \$a Country musicians. \$2 fast \$0 (OCoLC)fst00881443 \$0 (OCoLC)fst00881442 650 #7 \$a Country musicians. \$2 fast 655 #7 \$a Biographies. \$2 fast \$0 (OCoLC)fst00881442 \$0 (OCoLC)fst01919896 Example 2 Example 2 650 #0 \$a Novelists, English \$y 20th century 650 #0 \$a Novelists, English \$y 20th century \$v Biography. \$v Biography. 648 #7 \$a 1900-1999 \$2 fast 648 #7 \$a 1900-1999 \$2 fast 650 #7 \$a Twentieth century. \$2 fast 650 #7 \$a Twentieth century. \$2 fast \$0 (OCoLC)fst01159810 \$0 (OCoLC)fst01159810 650 #7 \$a Biography. \$2 fast \$0 (OCoLC)fst00832149 650 #7 \$a Novelists, English. \$2 fast 650 #7 \$a Novelists, English. \$2 fast \$0 (OCoLC)fst01039718 655 #7 \$a Biographies. \$2 fast \$0 (OCoLC)fst01039718 \$0 (OCoLC)fst01919896

After

Backstage Processing Issues: Events

Before (Test File)

Example 1

651 #0 \$a United States \$x History \$y Revolution, 1775-1783. \$0 http://id.loc.gov/authorities/subjects/sh85140139

611 27 \$a American Revolution (1775-1783) \$2 fast \$0 (OCoLC)fst01351668

648 #7 \$a 1775-1783 \$2 fast 651 #7 \$a United States. \$2 fast \$0 (OCoLC)fst01204155 655 #7 \$a History. \$2 fast \$0 (OCoLC)fst01411628

Example 2

650 #0 \$a World War, 1939-1945 \$v Correspondence.

611 27 \$a World War (1939-1945) \$2 fast \$0 (OCoLC)fst01180924

648 #7 \$a 1939-1945 \$2 fast 655 #7 \$a Correspondence. \$2 fast \$0 (OCoLC)fst02003288

After

Example 1

651 #0 \$a United States \$x History \$y Revolution, 1775-1783. \$0 http://id.loc.gov/authorities/subjects/sh85140139

647 #7 \$a American Revolution \$c (United States : \$d 1775-1783) \$2 fast \$0 (OCoLC)fst01351668

648 #7 \$a 1775-1783 \$2 fast 651 #7 \$a United States. \$2 fast \$0 (OCoLC)fst01204155 655 #7 \$a History. \$2 fast \$0 (OCoLC)fst01411628

Example 2

650 #0 \$a World War, 1939-1945 \$v Correspondence.

647 #7 \$a World War \$d (1939-1945) \$2 fast \$0 (OCoLC)fst01180924

648 #7 \$a 1939-1945 \$2 fast 655 #7 \$a Correspondence. \$2 fast \$0 (OCoLC)fst02003288

Backstage Processing Issues: Geographic Names

Before (Test File)

651 #0 \$a Dallas (Tex.) \$v Newspapers.

651 #7 \$a Texas \$z Dallas Region. \$2 fast \$0 (OCoLC)fst01350640

655 #7 \$a Newspapers. \$2 fast \$0 (OCoLC)fst01423814

After

651 #0 \$a Dallas (Tex.) \$v Newspapers.

651 #7 \$a Texas \$z Dallas. \$2 fast \$0 (OCoLC)fst01204635

655 #7 \$a Newspapers. \$2 fast \$0 (OCoLC)fst01423814

Corresponding FAST authority record:

001 fst01350640

151 ## \$a Texas \$z Dallas Region

751 #0 \$a Dallas Region (Tex.)

751 #0 \$a Dallas (Tex.) \$0 (DLC)n 79023321 \$w nnc

Corresponding FAST authority record:

001 fst01204635

151 ## \$a Texas \$z Dallas

► 751 #0 \$a Dallas (Tex.) \$0 (DLC)n 79023321

Backstage Processing Issues: Geographic Names

Before (Test File) 650 #0 \$a World War, 1939-1945 \$z Ontario \$z Toronto. 651 #0 \$a Toronto (Ont.) \$x Social conditions. 647 #7 \$a World War \$d (1939-1945) \$2 fast \$0 (OCoLC)fst01180924 648 #7 \$a 1939-1945 \$2 fast 650 #7 \$a Social conditions. \$2 fast \$0 (OCoLC)fst01919811 651 #7 \$a Ontario \$z Toronto. \$2 fast \$0 (OCoLC)fst01205798 651 #7 \$a Ontario. \$2 fast \$0 (OCoLC)fst01204832

After

650 #0 \$a World War, 1939-1945 \$z Ontario \$z Toronto. 651 #0 \$a Toronto (Ont.) \$x Social conditions. 647 #7 \$a World War \$d (1939-1945) \$2 fast \$0 (OCoLC)fst01180924 648 #7 \$a 1939-1945 \$2 fast 650 #7 \$a Social conditions. \$2 fast \$0 (OCoLC)fst01919811 651 #7 \$a Ontario \$z Toronto. \$2 fast \$0 (OCoLC)fst01205798

Statistics: Number of Bibliographic Records

	Number of Records	Percent
Sent to Backstage	3,305,753	
FAST Added	3,006,450	90.9%
Without FAST	299,303	9.1%
Without 6XX	246,329	7.5%
With 6XX	52,974	1.6%



	Number of FAST Headings Added		Number of Unique FAST Headings Added	
600 Personal Name	324,290	2.83%	73,612	22.71%
610 Corporate Name	495,910	4.33%	29,896	9.22%
611 Meeting Name	3,801	0.03%	654	0.20%
630 Uniform Title	84,540	0.74%	9,700	2.99%
647 Named Event	76,457	0.67%	1,774	0.55%
648 Chronological Term	375,653	3.28%	5,341	1.65%
650 Topical Term	6,687,719	58.42%	175,485	54.15%
651 Geographic Name	1,678,565	14.66%	26,004	8.02%
655 Genre/Form	1,721,044	15.03%	1,623	0.50%
TOTAL	11,447,979	100%	324,089	100%

FAST Top 10: 600 Personal Name

1.	Shakespeare, William, \$d 1564-1616. \$2 fast \$0 (OCoLC)fst00029048	4,936
2.	Jesus Christ. \$2 fast \$0 (OCoLC)fst00040116	4,204
3.	Charles \$b I, \$c King of England, \$d 1600-1649. \$2 fast \$0 (OCoLC)fst00045745	2,315
4.	Washington, George, \$d 1732-1799. \$2 fast \$0 (OCoLC)fst00178100	1,269
5.	Charles \$b II, \$c King of England, \$d 1630-1685. \$2 fast \$0 (OCoLC)fst00038678	1,163
6.	Mary, \$c Blessed Virgin, Saint. \$2 fast \$0 (OCoLC)fst00068107	898
7.	Milton, John, \$d 1608-1674. \$2 fast \$0 (OCoLC)fst00029106	844
8.	Lincoln, Abraham, \$d 1809-1865. \$2 fast \$0(OCoLC)fst00030184	834
9.	Henry. \$2 fast \$0 (OCoLC)fst01484440	820
10.	Goethe, Johann Wolfgang von, \$d 1749-1832. \$2 fast \$0 (OCoLC)fst00029788	769

FAST Top 10: 610 Corporate Name

1.	United States. \$b Congress. \$2 fast \$0 (OCoLC)fst00529490	163,427
2.	Church of England. \$2 fast \$0 (OCoLC)fst00532932	12,021
3.	United States. \$b Army. \$2 fast \$0 (OCoLC)fst00533532	9,519
4.	United States. \$b Department of Defense. \$2 fast \$0 (OCoLC)fst01852447	8,031
5.	Catholic Church. \$2 fast \$0 (OCoLC)fst00531720	7,882
6.	United States. \$b Congress. \$b House. \$2 fast \$0 (OCoLC)fst00536930	5,787
7.	United States. \$b Department of the Interior. \$2 fast \$0 (OCoLC)fst01853028	4,540
8.	United States. \$b Department of the Treasury. \$2 fast \$0 (OCoLC)fst01853090	3,950
9.	United States. \$b Navy. \$2 fast \$0 (OCoLC)fst00533204	3,629
10.	United States. \$b Environmental Protection Agency. \$2 fast \$0 (OCoLC)fst00534882	3,619

FAST Top 10: 611 Meeting Name

1.	Westminster Assembly. \$2 fast \$0 (OCoLC)fst01405689	236
2.	Lewis and Clark Expedition \$d (1804-1806) \$2 fast \$0 (OCoLC)fst01406330	178
3.	Olympic Games. \$2 fast \$0 (OCoLC)fst01408249	134
4.	Expo (International Exhibitions Bureau) \$2 fast \$0 (OCoLC)fst01817824	97
5.	Century of Progress International Exposition. \$2 fast \$0 (OCoLC)fst01405740	94
6.	Uruguay Round (1987-1994) \$2 fast \$0 (OCoLC)fst01735798	93
7.	World's Columbian Exposition. \$2 fast \$0 (OCoLC)fst01405620	79
8.	New York World's Fair. \$2 fast \$0 (OCoLC)fst01723437	76
9.	Constitutional Convention (United States : 1787) \$2 fast \$0 (OCoLC)fst01695393	74
10.	Louisiana Purchase Exposition. \$2 fast \$0 (OCoLC)fst01405481	70

FAST Top 10: 630 Uniform Title

1.	Bible. \$2 fast \$0 (OCoLC)fst01356024	24,634
2.	Bible. \$p Psalms. \$2 fast \$0 (OCoLC)fst01808097	2,037
3.	Armed Forces (United States) \$2 fast \$0 (OCoLC)fst01359266	1,507
4.	Bible. \$p New Testament. \$2 fast \$0 (OCoLC)fst01808090	1,107
5.	Bible. \$p Old Testament. \$2 fast \$0 (OCoLC)fst01808092	1,052
6.	Constitution (United States) \$2 fast \$0 (OCoLC)fst01356075	1,002
7.	Bible. \$p Gospels. \$2 fast \$0 (OCoLC)fst01808065	565
8.	American Recovery and Reinvestment Act of 2009 (United States) \$2 fast \$0 (OCoLC)fst01911505	536
9.	Census (United States) \$2 fast \$0 (OCoLC)fst01363948	515
10.	Patient Protection and Affordable Care Act (United States) \$2 fast \$0 (OCoLC)fst01916081	511

FAST Top 10: 647 Named Event

1.	World War \$d (1939-1945) \$2 fast \$0 (OCoLC)fst01180924	10,396
2.	American Civil War \$c (United States : \$d 1861-1865) \$2 fast \$0 (OCoLC)fst01351658	7,898
3.	English Civil War \$c (Great Britain : \$d 1642-1649) \$2 fast \$0 (OCoLC)fst01352303	6,317
4.	American Revolution \$c (United States : \$d 1775-1783) \$2 fast \$0 (OCoLC)fst01351668	5,614
5.	World War \$d (1914-1918) \$2 fast \$0 (OCoLC)fst01180746	3,927
6.	Vietnam War \$d (1961-1975) \$2 fast \$0 (OCoLC)fst01431664	1,940
7.	Revolution \$c (France : \$d 1789-1799) \$2 fast \$0 (OCoLC)fst01354514	1,809
8.	Jewish Holocaust \$d (1939-1945) \$2 fast \$0 (OCoLC)fst00958866	1,755
9.	Iraq War \$d (2003-2011) \$2 fast \$0 (OCoLC)fst01802311	1,525
10.	War of 1812 \$c (United States : \$d 1812-1815) \$2 fast \$0 (OCoLC)fst01199067	1,480

FAST Top 10: 648 Chronological Term

1.	1900-1999 \$2 fast	44,871
2.	1700-1799 \$2 fast	28,623
3.	1600-1699 \$2 fast	18,830
4.	1800-1899 \$2 fast	15,709
5.	1991-2000 \$2 fast	14,734
6.	2001-2010 \$2 fast	10,711
7.	1939-1945 \$2 fast	8,910
8.	1861-1865 \$2 fast	7,427
9.	1981-1990 \$2 fast	6,860
10.	1951-1960 \$2 fast	6,098

FAST Top 10: 650 Topical Term

1.	Claims. \$2 fast \$0 (OCoLC)fst00863204	148,685
2.	Bills, Private. \$2 fast \$0 (OCoLC)fst00831840	139,956
3.	Politics and government. \$2 fast \$0 (OCoLC)fst01919741	57,968
4.	Jazz. \$2 fast \$0 (OCoLC)fst00982165	49,044
5.	Popular music. \$2 fast \$0 (OCoLC)fst01071422	38,476
6.	Operas. \$2 fast \$0 (OCoLC)fst01046191	32,429
7.	Piano music. \$2 fast \$0 (OCoLC)fst01063403	27,023
8.	Armed Forces \$x Appropriations and expenditures. \$2 fast \$0 (OCoLC)fst00814587	22,668
9.	Diplomatic relations. \$2 fast \$0 (OCoLC)fst01907412	22,311
10.	Music. \$2 fast \$0 (OCoLC)fst01030269	21,061

FAST Top 10: 651 Geographic Term

1.	United States. \$2 fast \$0 (OCoLC)fst01204155	742,304
2.	Great Britain. \$2 fast \$0 (OCoLC)fst01204623	97,081
3.	England. \$2 fast \$0 (OCoLC)fst01219920	39,442
4.	Texas. \$2 fast \$0 (OCoLC)fst01210336	27,324
5.	France. \$2 fast \$0 (OCoLC)fst01204289	21,167
6.	Europe. \$2 fast \$0 (OCoLC)fst01245064	15,923
7.	China. \$2 fast \$0 (OCoLC)fst01206073	11,358
8.	Germany. \$2 fast \$0 (OCoLC)fst01210272	11,244
9.	California. \$2 fast \$0 (OCoLC)fst01204928	11,124
10.	Ireland. \$2 fast \$0 (OCoLC)fst01205427	11,064

FAST Top 10: 655 Genre/Form

History. \$2 fast \$0 (OCoLC)fst01411628	185,995
Early works. \$2 fast \$0 (OCoLC)fst01411636	167,539
Vocal scores. \$2 fast \$0 (OCoLC)fst01692914	89,117
Legislative hearings. \$2 fast \$0 (OCoLC)fst01910825	79,997
Scores. \$2 fast \$0 (OCoLC)fst01692898	74,096
Parts (Music) \$2 fast \$0 (OCoLC)fst01692889	67,055
Criticism, interpretation, etc. \$2 fast \$0 (OCoLC)fst01411635	53,764
Biographies. \$2 fast \$0 (OCoLC)fst01919896	50,775
Conference papers and proceedings. \$2 fast \$0 (OCoLC)fst01423772	50,642
Periodicals. \$2 fast \$0 (OCoLC)fst01411641	46,571
	Early works. \$2 fast \$0 (OCoLC)fst01411636 Vocal scores. \$2 fast \$0 (OCoLC)fst01692914 Legislative hearings. \$2 fast \$0 (OCoLC)fst01910825 Scores. \$2 fast \$0 (OCoLC)fst01692898 Parts (Music) \$2 fast \$0 (OCoLC)fst01692889 Criticism, interpretation, etc. \$2 fast \$0 (OCoLC)fst01411635 Biographies. \$2 fast \$0 (OCoLC)fst01919896 Conference papers and proceedings. \$2 fast \$0 (OCoLC)fst01423772

LCSH to FAST: Implications for Discovery



... in a Faceted Catalog (FC)



- ... in a Faceted Catalog (FC)
- ... in a traditional OPAC



... in a Faceted Catalog (FC)

... in a traditional OPAC

What does it look like?



- ... in a Faceted Catalog (FC)
- ... in a traditional OPAC
- What does it look like?
- Implementation decisions?



```
... in a Faceted Catalog (FC)
```

... in a traditional OPAC

What does it look like?

Implementation decisions?

Is it effective? ... (Compared to LCSH?)



The Systems:







HOME ABOUT

Use this system to locate items owned or subscribed to by the UNT Libraries.

Basic Search Advanced Search Journal Title Author & Title Number Search

RESEARCH

SERVICES

Search Tips

SPACES NEWS CALENDAR

ASK US ACCOUNTS LOGIN



Search the UNT Library Catalog

ANY

Discover, our new catalog search tool, is now live! Try it here.

Searching: Keyword Title Author Subject Genre

Type Your Search Term(s)*

Material (Recommended)

Collection (Optional)

All Collections

Q Search

OTHER CATALOG SEARCHES

Media Library Catalog

Locate films, games, and other multimedia.

Music Library Catalog

Find audio recordings, scores, books, and other music related items.

Course Reserves

Find books, articles, music, and other items placed on reserves for a class.

FIND DATABASES & E-JOURNALS

Databases

Find research materials using one of our many specialized subscription-based online systems.

e-Journals

Find a journal that is available online.

e-Books

Find a book that is available online.

RECENT ACQUISITIONS

Best Sellers New Books Games Audio Video Digital Collections

Browse the newest items in our collections.

Suggest a Purchase

Think we should purchase something? Suggest it here.

III Sierra "WebPAC"



III Sierra "WebPAC"
Unchanged since Millennium



III Sierra "WebPAC"
Unchanged since Millennium
Last redesigned ~2011 (but kept updated)

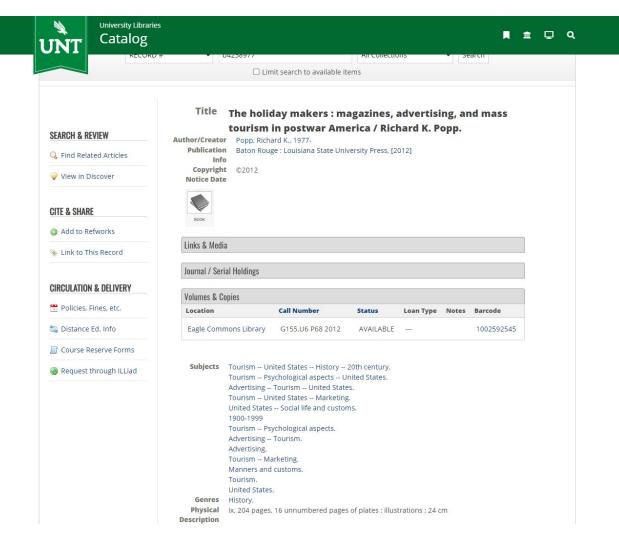


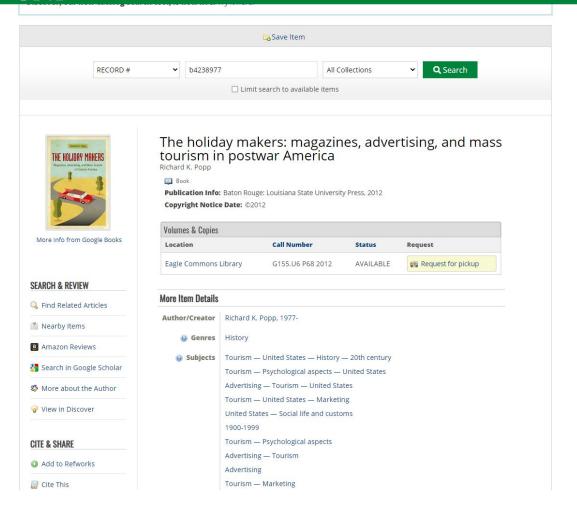
III Sierra "WebPAC"
Unchanged since Millennium
Last redesigned ~2011 (but kept updated)

Heavy JavaScript customization









III Sierra "WebPAC"
Unchanged since Millennium
Last redesigned ~2011 (but kept updated)

Heavy JavaScript customization









About Discover

We've upgraded catalog searching to be faster and more precise. **Discover** searches through descriptive records of 3+ million items, including books, media, music, and more. Search for what is important to you, and then refine your results using the filters that appear to the left-hand side of the screen.

Not sure where to begin? Start with a popular filter on the left, or browse the rest of the options here. Discover does not search inside books/journals; for full-text searching of articles, try this tool or search one of our many subscription databases.

Note: We are still developing Discover and some of the old catalog hasn't made it over yet. You can still use the old catalog if needed, but you can also expect Discover to be continuously upgraded and improved.

Other Library Resources



Course Reserves

Materials held for faculty members as required or recommended reading for



Databases

Find the best library databases for your research.



UNT Digital Library

Home to materials from UNT's research, creative, and scholarly activities.

"Discover" (Released in August, 2020)



"Discover" (Released in August, 2020)

Frontend: Blacklight



"Discover" (Released in August, 2020)

Frontend: Blacklight

Backend: Custom Solr index



"Discover" (Released in August, 2020)

Frontend: Blacklight

Backend: Custom Solr index

Indexing software is homegrown





Index design => "current" data!



Index design => "current" data!
Recently added FAST ...



Index design => "current" data!

Recently added FAST ...

So, currently:

Still designed / optimized for LCSH



Index design => "current" data!

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So, currently:

- Still designed / optimized for LCSH
- Accommodates FAST



Index design => "current" data!

Recently added FAST ...

So, currently:

- Still designed / optimized for LCSH
- Accommodates FAST

Next step: Re-evaluate, optimize for FAST (?)





1. Subject Phrase Index / Subject Facets



- 1. Subject Phrase Index / Subject Facets
- 2. Record Display Screen



- 1. Subject Phrase Index / Subject Facets
- 2. Record Display Screen
- 3. Keyword Searches



Implementation: OPAC Subject Index



Subjects

Tourism — United States — History — 20th century

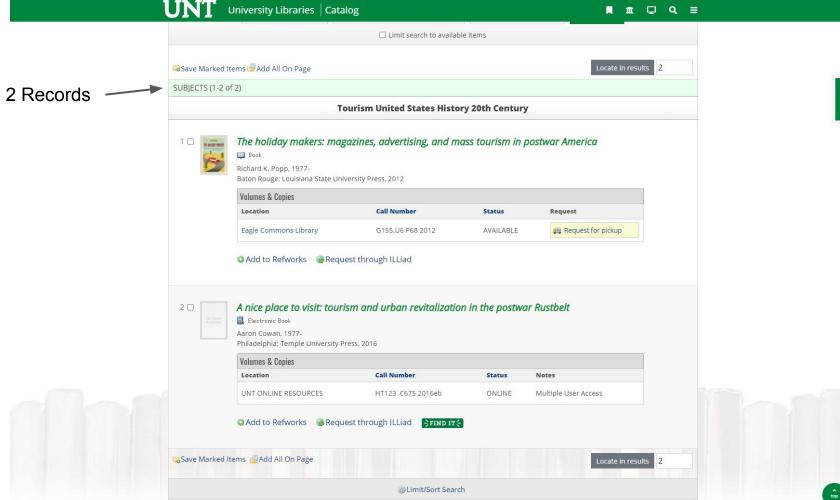
Tourism — Psychological aspects — United States

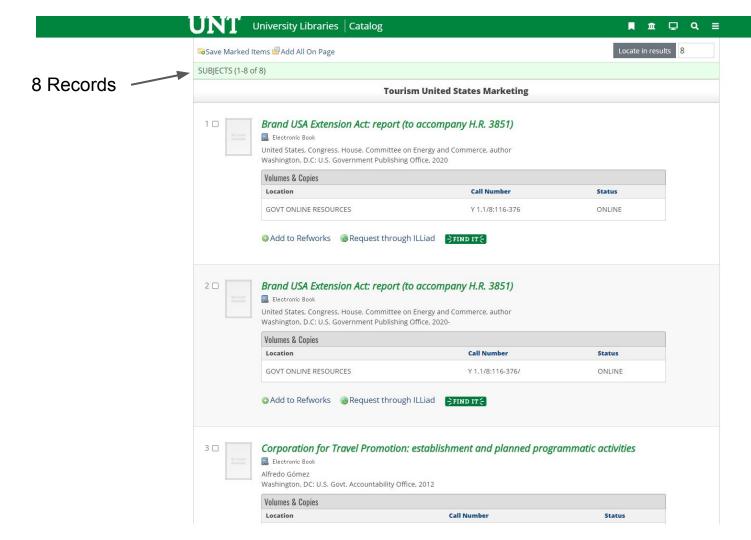
Advertising — Tourism — United States

Tourism — United States — Marketing

United States — Social life and customs







Subjects

Tourism — United States — History — 20th century

Tourism — Psychological aspects — United States

Advertising — Tourism — United States

Tourism — United States — Marketing

United States — Social life and customs



History

Subjects

Tourism — United States — History — 20th century

Tourism — Psychological aspects — United States

Advertising — Tourism — United States

Tourism — United States — Marketing

United States — Social life and customs

1900-1999

Tourism — Psychological aspects

Advertising — Tourism

Advertising

Tourism — Marketing

Manners and customs

Tourism

United States



Search the UNT Library Catalog

tourism

keyword.

Discover, our new catalog search tool, is now live! Try it here.

Searching: Keyword Title Author Subject Genre

search genres to find actual documentary films.

Type your Subject Terms*:

other similar vocabularies.

Collection (Optional)

All Collections

Q Search

Use this system to locate items owned or subscribed to by the UNT Libraries.

Basic Search Advanced Search Journal Title Author & Title Number Search

Find resources about a particular topic. To find resources in a particular genre or

format, search by genre. If you are unsure of the exact term to use, search by

For example, search subjects to find resources about documentary films, but

Subject terminology comes from the Library of Congress Subject Headings and

OTHER CATALOG SEARCHES

Media Library Catalog
Locate films, games, and other multimedia.

Music Library Catalog

Find audio recordings, scores, books, and other music related items.

Course Reserves

Find books, articles, music, and other items placed on reserves for a class.

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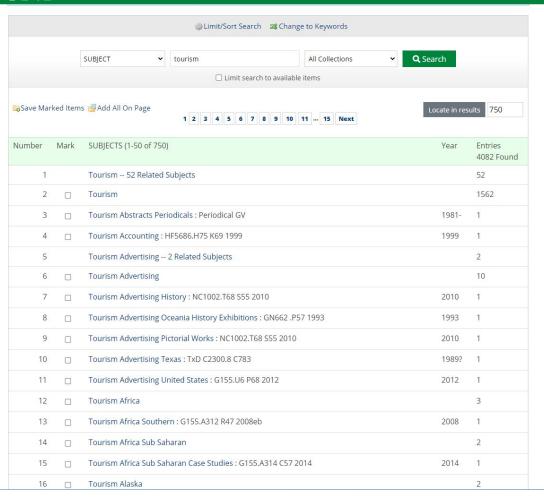
e-Books

Find a book that is available online.

RECENT ACQUISITIONS

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New FAST headings => "flattening" of LCSH



New FAST headings => "flattening" of LCSH Better discovery through better categorization



New FAST headings => "flattening" of LCSH Better discovery through better categorization Main consideration — setup of indexing rules:



New FAST headings => "flattening" of LCSH Better discovery through better categorization Main consideration — setup of indexing rules:

DO include relevant MARC fields



New FAST headings => "flattening" of LCSH Better discovery through better categorization Main consideration — setup of indexing rules:

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- DON'T exclude FAST (ind2 7, \$2fast)



New FAST headings => "flattening" of LCSH Better discovery through better categorization Main consideration — setup of indexing rules:

- DO include relevant MARC fields
- DON'T exclude FAST (ind2 7, \$2fast)
- DO remove control subfields (esp. \$2)





No Phrase Indexes in Discover!



No Phrase Indexes in Discover!

But, facets ~= Phrase Index



```
No Phrase Indexes in Discover!
But, facets ~= Phrase Index
(Comparable, but not equivalent ...)
```



No Phrase Indexes in Discover!
But, facets ~= Phrase Index
(Comparable, but not equivalent ...)
Index: More complex; more precise



No Phrase Indexes in Discover!

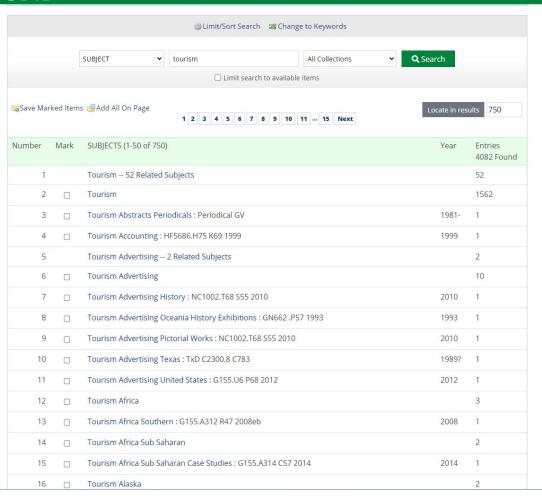
But, facets ~= Phrase Index

(Comparable, but not equivalent ...)

Index: More complex; more precise

Index: Harder to use for non-experts





No Phrase Indexes in Discover!

But, facets ~= Phrase Index

(Comparable, but not equivalent ...)

Index: More complex; more precise

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Facets: Simpler; broader



No Phrase Indexes in Discover!

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Index: More complex; more precise

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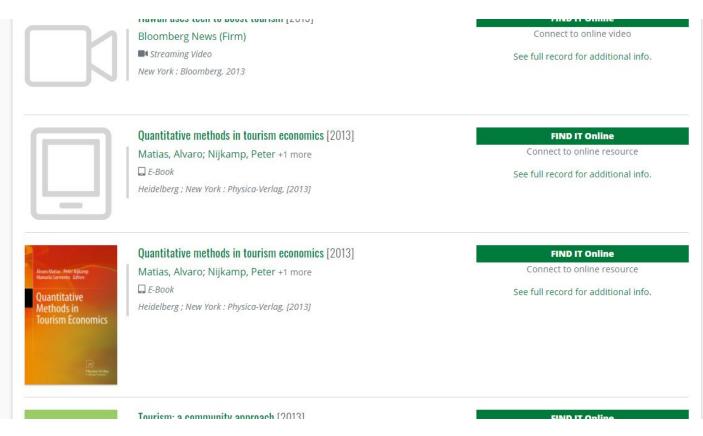
Facets: Simpler; broader

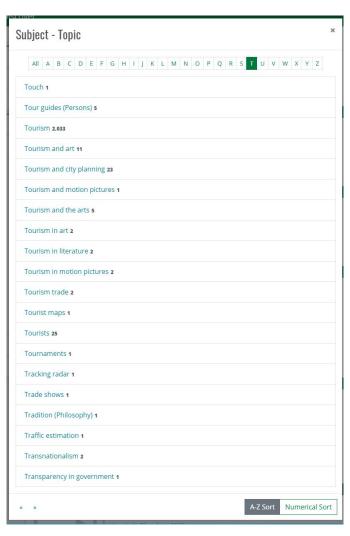
Facets: More intuitive for non-experts











How are your facets designed?



How are your facets designed? Two basic questions...



How are your facets designed?

Two basic questions...

1. What facets to use?



How are your facets designed?

Two basic questions...

- 1. What facets to use?
- 2. How to convert existing headings to facet values?





FAST => Personal Names, Corporate Names, Meeting Names, Geographic Names, Events, Titles, Time Periods, Topics, Form/Genre



FAST => Personal Names, Corporate Names, Meeting Names, Geographic Names, Events, Titles, Time Periods, Topics, Form/Genre

(... maybe nine subject facets is excessive ...)



Discover =>
 Genre (covers Form/Genre)
 Topic (covers Titles, Topics, and names)
 Region (covers Geographic Names)

Era (covers Time Periods)



Limit your search Access Resource Type > Format or Media Type Collection **Building Location Shelf Location** Date > **Newly Added** Language **Author or Contributor** Meeting or Event Title or Series Genre Subject - Topic Subject - Region Subject - Era





Current process, designed for LCSH ...



Current process, designed for LCSH ... How to convert **LCSH** to facets?



Current process, designed for LCSH ...

How to convert **LCSH** to facets?

1. Naive approach



LCSH to Facets, Naive Approach



LCSH to Facets, Naive Approach

LCSH Corn — Diseases and Pests — Control

Facets Corn

Diseases and Pests

Control



LCSH Skyscrapers — Heating and ventilation — Control

Facets Skyscrapers

Heating and ventilation

Control



LCSH Skyscrapers — Heating and ventilation — Control

Facets Skyscrapers

Heating and ventilation

Control ???



LCSH Tourism — Psychological aspects — United States

Facets Tourism

Psychological aspects

United States



LCSH Tourism — Psychological aspects — United States

Facets Tourism

Psychological aspects ???

United States



LCSH Tourism — Psychological aspects — United States

Facets Tourism

Psychological aspects ???

United States

(Also, won't group with **Pyschology** heading)



Current process, designed for LCSH ...

How to convert **LCSH** to facets?

1. Naive approach



Current process, designed for LCSH ...

How to convert **LCSH** to facets?

1. Naive approach



Current process, designed for LCSH

How to convert **LCSH** to facets?

- 1. Naive approach
- 2. Ignore subdivisions?



Current process, designed for LCSH

How to convert **LCSH** to facets?

- 1. Naive approach
- 2. Ignore subdivisions?
- 3. Generate better terms from (topical) subdivisions?





1st attempt: Convert (topical) subdivisions to FAST?



1st attempt: Convert (topical) subdivisions to FAST?

Batch downloaded LCSH and FAST linked data sets

1st attempt: Convert (topical) subdivisions to FAST?

- Batch downloaded LCSH and FAST linked data sets
- Filtered LCSH to *only* subdivisions with a schema.org:sameAs relationship to FAST



1st attempt: Convert (topical) subdivisions to FAST?

- Batch downloaded LCSH and FAST linked data sets
- Filtered LCSH to *only* subdivisions with a schema.org:sameAs relationship to FAST
- Out of 3,656 subdivisions? Only 42 matches.





2nd attempt: Generate custom mapping ...

• Examine mads: exampleNote in LCSH LD

- Examine mads: exampleNote in LCSH LD
- Extract each [reference heading]



- Examine mads: exampleNote in LCSH LD
- Extract each [reference heading]
- Massage the data ...



- Examine mads: exampleNote in LCSH LD
- Extract each [reference heading]
- Massage the data ...
- Hand curate results (so tedious!)





LCSH Corn — Diseases and Pests — Control

Facets Corn

Agricultural pests

Plant diseases

Plant parasites

Pest control



LCSH Skyscrapers — Heating and ventilation — Control

Facets Skyscrapers

Heating

Ventilation

Control (Heating)



LCSH Tourism — Psychological aspects — United States

Facets Tourism

Psychology

United States



Current process, designed for LCSH ...



Current process, designed for LCSH ... How does it work for **FAST**?



LCSH => FAST => Facets

LCSH Tourism — Psychological aspects — United States

FAST Tourism

Tourism — Psychological aspects

United States

Facets Tourism

Psychology

United States



Current process, designed for LCSH ...

How does it work for **FAST**?

About the same ...

Current process, designed for LCSH

How does it work for **FAST**?

- About the same ...
- With some terminology differences



LCSH => FAST => Facets

LCSH Tourism — United States — History — 20th Century

FAST Tourism History

United States <u>1900-1999</u>

Facets Tourism <u>1900-1999</u>

United States <u>20th Century</u>

History



Current process, designed for LCSH ...

How does it work for **FAST**?

- About the same ...
- With some terminology differences

(We currently convert **both** and keep unique terms)





Subject display is like an answer key ...



Subject display is like an answer key ...
Provide exact, expert-assigned headings



Subject display is like an answer key ...
Provide exact, expert-assigned headings
Headings are clickable for easy exploration



Subject display is like an answer key ...
Provide exact, expert-assigned headings
Headings are clickable for easy exploration
Which headings best support this use?



Genres	History	
Subjects	Tourism — United States — History — 20th century	
	Tourism — Psychological aspects — United States	
	Advertising — Tourism — United States	
	Tourism — United States — Marketing	
	United States — Social life and customs	LCSH
	1900-1999	FAST
	Tourism — Psychological aspects	
	Advertising — Tourism	
	Advertising	
	Tourism — Marketing	
	Manners and customs	
	Tourism	
	United States	

Subject display is like an answer key ...
Provide exact, expert-assigned headings
Headings are clickable for easy exploration
Which headings best support this use?

Both!



How to handle **duplication**?



How to handle **duplication**?

 You will have some duplication between LCSH and FAST headings

How to handle **duplication**?

- You will have some duplication between LCSH and FAST headings
- Differentiate between the two?



How to handle **duplication**?

- You will have some duplication between LCSH and FAST headings
- Differentiate between the two?
- Prevent display of duplicate headings?



We wanted consistent display in each system



We wanted consistent display in each system No differentiation by vocabulary



We wanted consistent display in each system No differentiation by vocabulary Display all subject headings, in order



We wanted consistent display in each system No differentiation by vocabulary Display **all** subject headings, in order Hide exact duplicates



We wanted consistent display in each system No differentiation by vocabulary Display all subject headings, in order Hide exact duplicates

OPAC: Done via custom JavaScript



We wanted consistent display in each system No differentiation by vocabulary Display all subject headings, in order Hide exact duplicates

- OPAC: Done via custom JavaScript
- Discover: Done during indexing



```
650 #0 $a Tourism $x Management. $0 http://id.loc.gov/authorities/subjects/sh2008112935 650 #0 $a Hospitality industry. $0 http://id.loc.gov/authorities/subjects/sh88004814
```

```
650 #7 $a Tourism $x Management. $2fast $0(OCoLC)fst01153180
```

650 #7 \$a Tourism. \$2fast \$0(OCoLC)fst01153142

650 #7 \$a Hospitality industry. \$2fast \$0(OCoLC)fst00961126



OPAC: No JavaScript

Subjects

Tourism -- Management.

Hospitality industry.

Tourism -- Management.

Tourism.

Hospitality industry.



OPAC: With JavaScript



Tourism — Management

Hospitality industry

Tourism



Discover

Subjects:

Tourism > Management Hospitality industry Tourism







To index or not to index?

• Why not?



To index or not to index?

• Why not?

OPAC — Set up keyword indexing rules ...



To index or not to index?

• Why not?

OPAC — Set up keyword indexing rules ...

- DO include relevant MARC fields
- DON'T exclude FAST (ind2 7, \$2fast)
- DO remove control subfields (esp. \$2)



FC — Set up fields / indexing ...



- FC Set up fields / indexing ...
 - Load FAST into subject search fields



- FC Set up fields / indexing ...
 - Load FAST into subject search fields
 - Parse like other subjects?



- FC Set up fields / indexing ...
 - Load FAST into subject search fields
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 - Deduplicate terms?



- FC Set up fields / indexing ...
 - Load FAST into subject search fields
 - Parse like other subjects?
 - Deduplicate terms?
 - One field for unique headings



- FC Set up fields / indexing ...
 - Load FAST into subject search fields
 - Parse like other subjects?
 - Deduplicate terms?
 - One field for unique headings
 - Fields for primary/secondary terms (unique phrases)





To index or not to index?

Relevance impact: good, bad, neutral?



Genres	History	
Subjects	Tourism — United States — History — 20th century	
	Tourism — Psychological aspects — United States	
	Advertising — Tourism — United States	
	Tourism — United States — Marketing	
	United States — Social life and customs	LCSH
	1900-1999	FAST
	Tourism — Psychological aspects	
	Advertising — Tourism	
	Advertising	
	Tourism — Marketing	
	Manners and customs	
	Tourism	
	United States	

To index or not to index?

Relevance impact: good, bad, neutral?



- Relevance impact: good, bad, neutral?
- Probably better that FAST is searchable



- Relevance impact: good, bad, neutral?
- Probably better that FAST is searchable
- Same process applied to all records



- Relevance impact: good, bad, neutral?
- Probably better that FAST is searchable
- Same process applied to all records
- In a locally-controlled index: try normalizing for relevance factors



- Relevance impact: good, bad, neutral?
- Probably better that FAST is searchable
- Same process applied to all records
- In a locally-controlled index: try normalizing for relevance factors
- Worth further study and investigation



Final Thoughts



Final Thoughts

Misconceptions about FAST



Misconceptions about FAST

1. "It's useless in a traditional OPAC"



Misconceptions about FAST

- 1. "It's useless in a traditional OPAC"
- 2. "It works perfectly for subject facets"



Misconceptions about FAST

- 1. "It's useless in a traditional OPAC"
- 2. "It works perfectly for subject facets"

Reality: It can work well in either context but requires thought and planning



Misconceptions about FAST

- 1. "It's useless in a traditional OPAC"
- 2. "It works perfectly for subject facets"

Reality: Natively, FAST is closer to "facet" expectations, but still needs adaptation



FAST vs. LCSH: Which is better?



FAST vs. LCSH: Which is better?

UI / UX / IA POV — Flat > Deep



FAST vs. LCSH: Which is better?

- UI / UX / IA POV Flat > Deep
- FAST is "Flattened" LCSH



FAST vs. LCSH: Which is better?

- UI / UX / IA POV Flat > Deep
- FAST is "Flattened" LCSH
- But! Depth still has its place.



FAST vs. LCSH: Which is better?

- UI / UX / IA POV Flat > Deep
- FAST is "Flattened" LCSH
- But! Depth still has its place.

Reality: Each has its purpose — for best results, leverage *both*



FAST Advantages

- High recall
- Good for bottom-up discovery
- Works well for facets, subject browsing



LCSH Advantages

- High precision
- Helps find specific subjects
- Works well on record display screen





Next Steps: Investigate and Evaluate

Evaluate contents of subject facets



- Evaluate contents of subject facets
- Re-evaluate how facets are derived



- Evaluate contents of subject facets
- Re-evaluate how facets are derived
 - (What if we ignored LCSH for facets?)



- Evaluate contents of subject facets
- Re-evaluate how facets are derived
 - (What if we ignored LCSH for facets?)
- Evaluate record display



- Evaluate contents of subject facets
- Re-evaluate how facets are derived
 - (What if we ignored LCSH for facets?)
- Evaluate record display
- Test and evaluate relevance impact



Questions and Discussion

Thank you!

Adam Baron, <u>adam.baron@unt.edu</u>
Jason Thomale, <u>jason.thomale@unt.edu</u>

