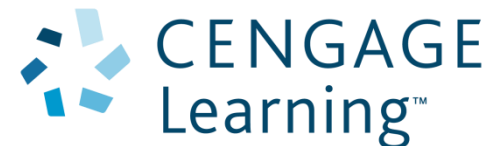


An Introduction to Taxonomies and Thesauri

American Society for Indexing Annual Conference
Chicago, Illinois, June 17, 2016

Heather Hedden, Senior Vocabulary Editor
Indexing and Vocabulary Services
Gale | Cengage Learning



About Heather Hedden

- Controlled vocabulary editor at a library database vendor, Gale/Cengage Learning, 1996 – 2004 and 2014 – present
- Continuing education online workshop instructor, Simmons College School of Library and Information Science
- Author of *The Accidental Taxonomist* (Information Today, Inc.)
- Part-time freelance back-of-the-book indexer
- American Society for Indexing – Board member, previous Taxonomies & Controlled Vocabularies SIG manager and Web & Electronic Indexing SIG manager
- SLA Taxonomy Division – Membership committee chair

Previously

- Taxonomy consultant
- Periodical article/reference database indexer (Information Access Company/Predicasts/Gale)

Outline

1. Definitions and Types of Controlled Vocabularies
2. Applications and Uses of Controlled Vocabularies
3. Benefits to Controlled Vocabularies
4. Terms in Controlled Vocabularies
5. Relationships Between Terms

Definitions and Types

Controlled vocabulary (CV)

- The most general, broadest concept for all applications
 - An authoritative, restricted list of terms (words or phrases) mainly used for indexing/tagging content to support retrieval
 - Controlled in who and when new terms can be added
 - Usually makes use of equivalent non-preferred terms (synonyms, etc.) to point to the correct, preferred terms
 - May or may not have structured relationships between terms

Controlled Vocabulary types

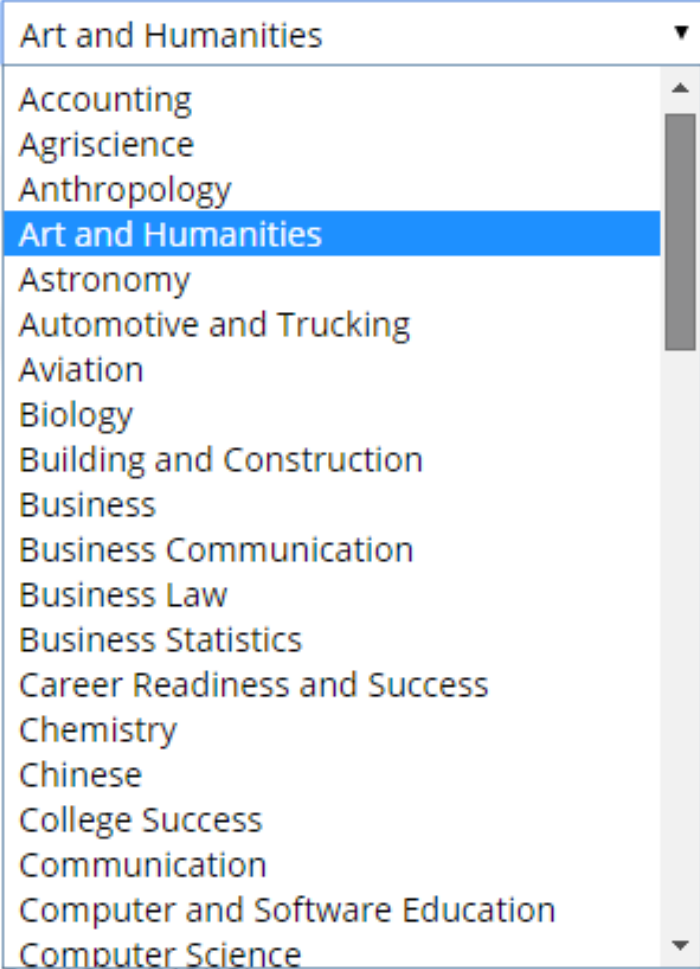
- Simple term list/pick list
- Synonym ring (search-support “thesaurus”)
- Authority file (controlled list with variants; no hierarchy)
- Taxonomy
 - Hierarchical taxonomy
 - Faceted taxonomy
- Thesaurus
- Ontology

Definitions and Types

Term List

- A simple list of terms
- Usually alphabetical, but could be in other logical order
- Lacking synonyms, it is usually short enough for quick browsing
- Can appear in drop-down scroll boxes
- May be used for various metadata values
- Part of a larger set of controlled vocabularies

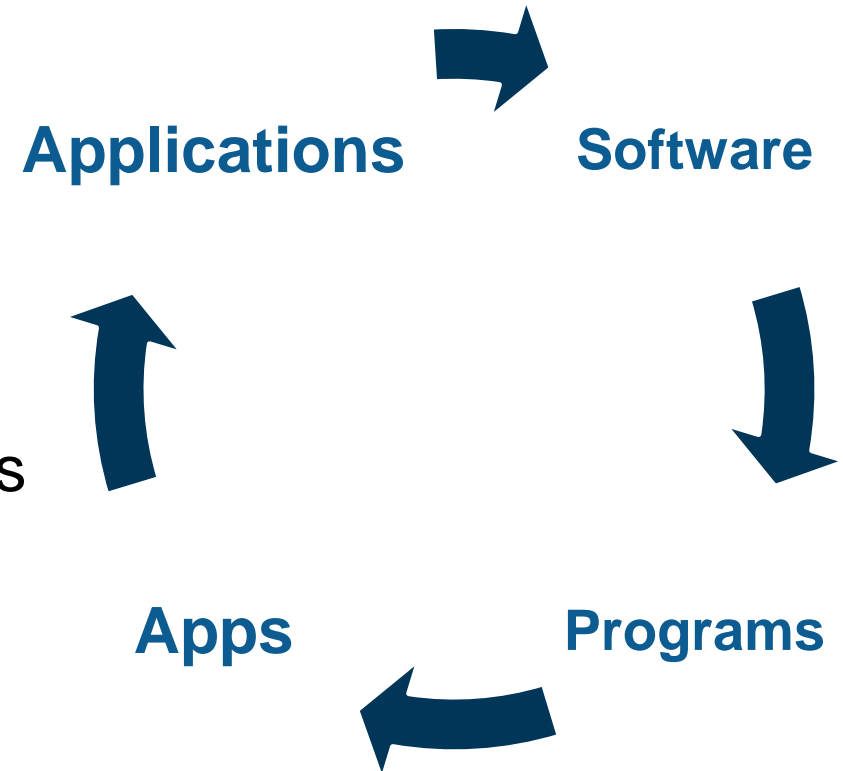
Main Discipline: *



Art and Humanities	▼
Accounting	
Agriscience	
Anthropology	
Art and Humanities	
Astronomy	
Automotive and Trucking	
Aviation	
Biology	
Building and Construction	
Business	
Business Communication	
Business Law	
Business Statistics	
Career Readiness and Success	
Chemistry	
Chinese	
College Success	
Communication	
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Computer Science	▼

Synonym ring

- A controlled vocabulary with synonyms or near-synonyms for each concept
- No designated “preferred” term: All terms are equal and point to each other, as in a ring.
- Usually just called a “controlled vocabulary”



Taxonomy

A controlled vocabulary with broader/narrower (parent/child) term relationships that include all terms to create a hierarchical structure

- With focus for categorizing and organization concepts
- May or may not have equivalent non-preferred terms (synonyms, etc.) to point to the correct, preferred terms
- May comprise several hierarchies or facets (A facet can be considered a hierarchy.)

Definitions and Types

Taxonomy Examples

Hierarchical Taxonomy Example

Leisure and culture

- . Arts and entertainment venues
 - . Museums and galleries
- . Children's activities
- . Culture and creativity
 - . Architecture
 - . Crafts
 - . Heritage
 - . Literature
 - . Music
- . Performing arts
- . Visual arts
- . Entertainment and events
- . Gambling and lotteries
- . Hobbies and interests
- . Parks and gardens
- . Sports and recreation
 - . Team sports
 - . Cricket
 - . Football
 - . Rugby
 - . Water sports
 - . Winter sports
- . Sports and recreation facilities
- . Tourism
 - . Passports and visas
- . Young people's activities

Course

- . Main Dishes (15504)
 - . Desserts (7530)
 - . Side Dishes/Vegetables (6182)
- [Show More](#)

Convenience

- . Entertaining (23804)
 - . Make-Ahead (13917)
 - . Quick/Easy (13186)
- [Show More](#)

Cost Per Serving

- . \$1 and Under (388)
- . \$1.01 to \$2 (394)
- . \$2.01 to \$3 (250)
- . \$3.01 to \$4 (94)
- . \$4.01 and Up (28)

Cuisine

- . American (28614)
 - . Italian (3129)
 - . New American (2370)
- [Show More](#)

Main Ingredient

- . Vegetables (11246)
 - . Fruits (6297)
 - . Poultry (5287)
- [Show More](#)

Dietary Consideration

- . Meatless (11299)
 - . Low Cholesterol (7534)
 - . Low Saturated Fat (7444)
- [Show More](#)

Faceted Taxonomy Example

Thesaurus

- A controlled vocabulary that has standard structured relationships between terms
 - Hierarchical: broader term/narrower term (BT/NT)
 - Associative: related terms (RT)
 - Equivalence: preferred term (“use for” or “used for”)/non-preferred term (use) (USE/UF)
- Also supports notes, such as scope notes (SN), for terms, as needed.
- Created in accordance with standards, such as ANSI/NISO Z39.19 *Guidelines for Construction, Format, and Management of Monolingual Controlled Vocabularies*.
- “Thesaurus” is most often the kind of controlled vocabulary used in indexing periodical literature.

Thesaurus entry examples

Government lending

- >BT [Economic policy](#)
- >>BT2 [National policy](#)
- <NT [Veterans' loans](#)
- RT [Agricultural credit](#)
- RT [Federally-assisted loans](#)
- RT [Federally-guaranteed loans](#)
- RT [Government and business](#)
- RT [Government insurance](#)
- RT [Loans](#)
- RT [Student loan funds](#)
- UF American domestic economic assistance
- UF Federal aid to depressed areas
- UF Federal credit programs
- UF Federal domestic assistance programs
- UF Government loans

materials acquisitions

- UF acquisitions (of materials)
- library acquisitions
- BT collection development
- NT accessions
- approval plans
- gifts and exchanges
- materials claims
- materials orders
- subscriptions
- RT book vendors
- jobbers
- subscription agencies
- subscription cancellations

Ontology

- A complex thesaurus-type of controlled vocabulary, in which terms have specified attributes and relationships are further specified
- Relationships contain meaning, are “semantic”
- A form of “knowledge representation”
- Created according to W3C guidelines: OWL Web Ontology Language Guide W3C Recommendation 10 February 2004 <http://www.w3.org/TR/2004/REC-owl-guide-20040210/>
- An ontology is not just for indexing. It is often an end itself in representing a domain of information.

Definitions and Types

Less

Controlled Vocabularies - Complexity

More

Pick List	Synonym Ring	Authority File	Taxonomy	Thesaurus	Ontology
Ambiguity control	Synonym control	Ambiguity control Synonym control	Ambiguity control (Synonym control) Hierarchical relationships	Ambiguity control Synonym control Hierarchical relationship Associative relationships	Ambiguity control (Synonym control) Semantic relationships Classes

Taxonomies

- All terms belong to a limited number of major hierarchies (or facets)
- May bend ANSI/NISO hierarchical rules.
- Supports classification, categorization, and concept organization. (Like Linnaean taxonomy)
- Approach is a top-down navigation.
- Especially serving end-users when browsing.

Thesauri

- All terms have relationships, but “hierarchies” can comprise as few as 2 terms.
- ANSI/NISO rules are strictly followed.
- Supports concept scoping, disambiguation, and relationships with similar concepts. (Like looking up in Roget’s)
- Approach is term-centered and what terms are linked to/from it.
- Especially serving indexers/indexing.

Definitions and Types

Taxonomies, for:

- Content/terms that naturally can be categorized
- A subject area with defined scope and limits
- Browsable hierarchical displays
- Non-expert users, who benefit from guidance of hierarchies
- Relatively small collections of terms
- Somewhat broad categories

Thesauri, for:

- Content/terms that are *not* easily categorized
- Multiple, overlapping subject areas or domains with diverse content.
- Alphabetical displays (indexes), or type-ahead display excerpts
- Users who are subject-matter experts and will likely look for specific terms
- Large and/or constantly changing vocabulary
- Highly specific terms for detailed indexing

“Taxonomy”

Any kind of controlled vocabulary, in a/an...

- enterprise, corporate setting
- content management system
- website navigation (e.g. ecommerce site)

“Thesaurus”

Any kind of controlled vocabulary...

- for indexing articles / literature retrieval databases
- used by librarians, indexers, or other information professionals
- that includes nonpreferred terms (even if just synonym rings)

Controlled vocabulary applications and uses

1. Indexing support (and secondarily, retrieval)
2. Retrieval support
 - a) Search
 - b) Hierarchical browse
 - c) Faceted search/browse

1. Indexing Support

- As a structured list of agreed-upon terms for indexing multiple documents and/or by multiple indexers, to ensure consistency.
- Typically for database/open indexing of periodical articles, database records, digital asset collections, etc. Also for multi-volume works.
- Example:
 - Medical Subject Headings (MeSH)
<http://www.nlm.nih.gov/mesh/MBrowser.html>

MeSH Heading	Arthritis
Tree Number	C05.550.114
Annotation	inflamm: do not confuse with ARTHRALGIA which is non-inflamm; note X ref POLYARTHRITIS but polyarthrite chronique évolutive (PCE) = ARTHRITIS, RHEUMATOID ; septic arthritis = ARTHRITIS, INFECTIOUS ; tends to be chronic so do not coord with CHRONIC DISEASE ; degenerative arthritis = OSTEOARTHRITIS ; ARTHRITIS, PSORIATIC is also available
Entry Term	Polyarthrititis
See Also	Arthritis, Gouty
See Also	Arthritis, Psoriatic
Allowable Qualifiers	BL CF CI CL CN CO DH DI DT EC EH EM EN EP ET GE HI IM ME MI MO NU PA PC PP PS PX RA RH RI RT SU TH UR US VE VI
Date of Entry	19990101
Unique ID	D001168

MeSH Tree Structures

[Musculoskeletal Diseases \[C05\]](#)

[Joint Diseases \[C05.550\]](#)

[Ankylosis \[C05.550.069\]](#) +

[Arthralgia \[C05.550.091\]](#) +

► [Arthritis \[C05.550.114\]](#)

[Arthritis, Experimental \[C05.550.114.015\]](#)

[Arthritis, Infectious \[C05.550.114.099\]](#) +

[Arthritis, Juvenile \[C05.550.114.122\]](#)

[Arthritis, Psoriatic \[C05.550.114.145\]](#)

[Arthritis, Rheumatoid \[C05.550.114.154\]](#) +

[Gonorrhoeal arthritis \[C05.550.114.064\]](#)

Applications and Uses

Indexing Support

Example:

Cengage Learning

Gale Subject

Thesaurus: Internal
indexer alphabetical
browse view

D - Subject Descriptors

D educational v

all xRef from xRef no xRef

Educational videos

BROADER TERM: Audiovisual materials

BROADER TERM: Video recordings

NARROWER TERM: Instructional videos

SEE ALSO: Children's videos

SEE ALSO: Educational programs (Mass media)

SEE ALSO: Edutainment

SEEN FROM: Classroom videos

SEEN FROM: Video tapes in education

Educational volunteers

SEE: Education volunteers

Educational vouchers

SEE ALSO: Education costs

SEE ALSO: Educational finance

SEE ALSO: Educational programs

SEE ALSO: Student financial aid

SEE ALSO: Bush v. Holmes 919 So. 2d 392 (Fla. 2006)

SEEN FROM: Education vouchers

SEEN FROM: School vouchers

Educational works

SEE: Textbooks

Educationally disadvantaged

BROADER TERM: Disadvantaged persons

2. Retrieval Support

a) **Search**

Controlled list of terms and their synonyms/equivalents to aid online retrieval

- For website or intranet search engines, online databases, online directories, enterprise search
- Might be displayed as type-ahead auto-suggest terms, or might not be displayed at all.
- May be used for automated indexing / auto-tagging


Applications and Uses


Logout My Library Links English Sign In ▼




GALE


Business Collection

 Advanced

 Bookmark

 More

DISCOVER A COMPREHENSIVE COLLECTION OF BUSINESS, TRADE, AND INTERNATIONAL PUBLICATIONS

 knowledge

Subject ▼



- Knowledge management
- Knowledge-based systems
- Knowledge
- Knowledge transfer
- Knowledge workers
- KnowledgeWare Inc.
- Knowledge economy
- Knowledge Adventure Inc.
- Knowledge acquisition (Expert systems)

ADVANCED SEARCH

TOPIC FINDER



Use the Topic Finder search term and

Topic Finder

SEARCHES

Innovation

Business Strategy

Microfinance

e

Social Marketing

2. Retrieval Support

b) Hierarchical browse

Categorization scheme for information organization, classification, guided search

- For web site structural design, online information services, intranet content organization, corporate content management
- Examples of web site navigational taxonomies:
 - Amazon.com (shop by department)
www.amazon.com/gp/site-directory/ref=nav_shopall_btn
 - Books and Authors
<http://books.wiseto.com/bna/>

EARTH'S BIGGEST SELECTION

Unlimited Instant Videos

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- [Download the Free Apps](#)
- [Unlimited Photo Storage](#)
- [Plans and Pricing](#)

Fire TV

- [Amazon Fire TV](#)
- [Fire TV Stick](#)
- [Amazon Fire Game Console](#)
- [Prime Instant Video](#)
- [Amazon Instant Video](#)
- [Games for Fire TV](#)
- [Amazon Cloud Drive](#)

Fire Phone

- [Amazon Fire Phone \(LTE\)](#)
- [Amazon Fire Phone \(GSM\)](#)
- [Amazon Fire Phone \(AT&T\)](#)
- [Accessories](#)
- [Digital Music](#)
- [Amazon Cloud Drive](#)
- [Amazon Instant Video](#)

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- [Whispersync for Voice](#)

Movies, Music & Games

- [Movies & TV](#)
- [Blu-ray](#)
- [Amazon Instant Video](#)

Books

- Arts & Photography (1,430,135)
- Biographies & Memoirs (520,900)
- Business & Money (1,956,562)
- Calendars (204,254)
- Children's Books (1,318,839)
- Christian Books & Bibles (706,774)
- Comics & Graphic Novels (302,262)
- Computers & Technology (433,261)**
- Cookbooks, Food & Wine (203,682)
- Crafts, Hobbies & Home (441,169)
- Education & Teaching (843,512)
- Engineering & Transportation (746,912)
- Gay & Lesbian (88,458)
- Health, Fitness & Dieting (668,824)
- History (3,538,397)
- Humor & Entertainment (638,612)
- Law (568,084)
- Literature & Fiction (3,012,112)
- Medical Books (788,764)
- Mystery, Thriller & Suspense (307,904)
- Parenting & Relationships (178,812)
- Politics & Social Sciences (1,632,584)
- Reference (4,125,010)
- Religion & Spirituality (1,307,624)
- Romance (587,640)
- Science & Math (1,534,112)
- Science Fiction & Fantasy (349,052)
- Self-Help (343,781)
- Sports & Outdoors (265,512)
- Teen & Young Adult (219,350)
- Travel (424,903)

From the Amazon Book Editors



Best Books of April

- [Top 10](#)
- [Literature & Fiction](#)
- [Kids & Teens Books](#)
- [Mystery & Thriller](#)
- [See all categories](#)



The Amazon Book Review

- Go inside the legal pot underground, get poetic with Marge Piercy, and read an interview with the author of "The Sympathizer"—all this and more on the [Amazon Book Review](#).

< Books

Computers & Technology

- Business Technology (40,283)
- Certification (21,549)
- Computer Science (75,026)**
- Databases & Big Data (27,147)**
- Digital Audio, Video & Photography (15,636)
- Games & Strategy Guides (12,199)
- Graphics & Design (50,901)
- Hardware & DIY (34,368)
- History & Culture (3,180)
- Internet & Social Media (34,512)
- Mobile Phones, Tablets & E-Readers (4,538)
- Networking & Cloud Computing (71,130)
- Operating Systems (23,497)
- Programming (139,768)
- Security & Encryption (12,944)
- Software (82,072)
- Web Development & Design (37,159)

> [See more featured titles](#)

User Experience Books



< Books

< Computers & Technology

Databases & Big Data

- Access (1,822)
- Data Mining (3,229)**
- Data Modeling & Design (2,076)
- Data Processing (7,666)
- Data Warehousing (935)
- MySQL (381)
- Oracle (1,549)
- Other Databases (1,929)
- Relational Databases (959)
- SQL (2,384)

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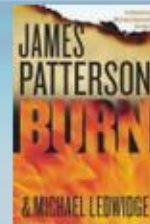
Popular romances»

Science fiction»

Western fiction»

Know What You're Going to Read Next?

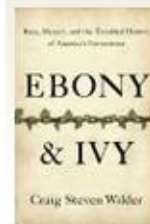
Looking to curl up with a good book, but finding yourself stuck on the question of "what do I read next"? Let Books and Authors help with our expert title recommendations, reading lists, and more. Find out more in our [MONTHLY HIGHLIGHTS](#)



Seasonal Suggestions

Libraries unite this year at the ALA Midwinter Meeting

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Check out these inspirational tales for Black History Month

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Award Winners

The 2015 Newbery Medal went to Kwame Alexander.



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- Alternate Universe
- Alternate World
- Amateur Detective
- Ancient Evil Unleashed
- Anthology
- Apocalyptic Horror
- Arts
- Black Magic
- Carnival - Circus Horror
- Chase
- Child-in-Peril
- Collection
- Coming-of-Age
- Contemporary
- Contemporary - Exotic
- Contemporary - Fantasy
- Contemporary Realism
- Curse
- Cyberpunk
- Disaster
- Doppelganger
- Dystopian
- End of the World
- Erotic Horror
- Espionage

popular titles: Fantasy fiction

Page No : 1 / 625

Sort By: Pub. Year - Desc ▾



Fairst: The Lunar Chronicles: Levana's Story (2015)
Meyer, Marissa



Sorceress (Gray, Claudia) (2015)
Gray, Claudia



The Return (Armentrout, Jennifer L.) (2015)
Armentrout, Jennifer L.



Miramont's Ghost (2015)
Hall, Elizabeth (American novelist)



The Ruby Circle (2015)
Mead, Richelle



Earth Bound (2015)
Feehan, Christine



Siren's Call (2015)
Krentz, Jayne Ann



Edge of Darkness (2015)
Shayne, Maggie Feehan, Christine



Dead Heat (Briggs, Patricia) (2015)
Briggs, Patricia



Guardians of the Night (2015)
Russell, Alan



The Lost (Patterson, James and Raymond, Emily) (2015)
Raymond, Emily Patterson, James (American novelist)



Ensnared (2015)
Howard, A.G.



next ▾

2. Retrieval Support

c) **Faceted search/browse**

Multiple term lists of different types, also called facets/filters/refinements, for the user to search on in combination

- For online databases, catalogs, e-commerce sites
- Usually does not have synonyms or term hierarchies
- Examples:
 - NCSU Libraries catalog (browse new titles)
www.lib.ncsu.edu/catalog
 - Internet Movie Database (advanced title search)
www.imdb.com/search/title

Library Catalog

egypt

in Subject Heading

Search

Search within results [Start Over](#)

Expand Your Search

- 22905 results at Triangle research libraries
- 194500+ results at Libraries worldwide
- Looking for articles? Try Summon

Your Current Search



in Subject Heading

'egypt' ✖

Narrow Your Search

- Currently available
- Available online
- New titles

Subject

- History (1111)
 - Antiquities (325)
 - Politics and government (278)
 - Civilization (249)
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Genre

- Biography (203)
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 - Fiction (106)
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 - Primary Sources (72)
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Format

- Book (3030)
 - Online (1136)
 - Videos and DVDs (152)
 - Journal, Magazine, or Serial (91)
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Call Number Location

Library

Results 1 - 10 of 3388

Sort By: **Relevance**

List (0)

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1. **The politics of human rights in Egypt and Jordan**

Author: Yefet, Bosmat, author.

Published: 2015.

Format: Book

Add to List



Books by Request

Books by Request

JC599 .E3 Y44 2015

Available upon request

2. **The Egyptian myths : a guide to the ancient gods and legends**

Author: Shaw, Garry J., author.

Published: 2014.

Format: Book

Add to List



Books by Request

Books by Request

BL2441.3 .S53 2014

Available upon request

3. **Radiocarbon and the chronologies of ancient Egypt**

Published: c2013.

Format: Book

Add to List



Books by Request

Books by Request

DT83 .R194 2013

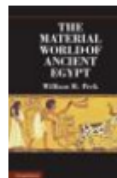
Available upon request

4. **The material world of ancient Egypt**

Author: Peck, William H., 1932-

Format: Book

Add to List



Books by Request

Books by Request

DT61 .P43 2013

Available upon request

5. **Egypt [electronic resource]**

Author: Russell, Mona.

Add to List



Title Type

- Feature Film TV Movie TV Series TV Episode
 TV Special Mini-Series Documentary Video Game
 Short Film Video

Release Date ?

to

Format: YYYY-MM-DD, YYYY-MM, or YYYY

User Rating

- ▾ to - ▾

Number of Votes ?

to

Genres

- Action Adventure Animation Biography
 Comedy Crime Documentary Drama
 Family Fantasy Film-Noir Game-Show
 History Horror Music Musical
 Mystery News Reality-TV Romance
 Sci-Fi Sport Talk-Show Thriller
 War Western

Title Groups

- IMDb "Top 100" IMDb "Top 250" IMDb "Top 1000"
 Now-Playing Oscar-Winning Best Picture-Winning
 Best Director-Winning Oscar-Nominated Emmy Award-Winning
 Emmy Award-Nominated Golden Globe-Winning Golden Globe-Nominated

Companies

- 20th Century Fox Sony DreamWorks MGM
 Paramount Universal Walt Disney Warner

Instant Watch Options

- Free on IMDb Amazon Video Prime Video
 Without A Box Internet Archive

US Box Office Gross

to

US Certificates

- G PG PG-13 R NC-17

Color Info

- Color Black & White Colorized ACES

Countries

... Common Countries ...

- Argentina
- Australia
- Austria
- Belgium
- Brazil
- Bulgaria
- Canada
- China
- Colombia
- Costa Rica

Keywords ?

Search for a notable object, concept, style or aspect.

Languages

Benefits of taxonomies/controlled vocabularies

1. Controlled vocabulary (CV):

Brings together different wordings (synonyms) for the same concept

- Helps people search for information by different names

2. Classification and structure:

Organizes information into a logical structure

- Helps people browse or navigate for information

A controlled vocabulary gathers synonyms, acronyms, variant spellings, etc.

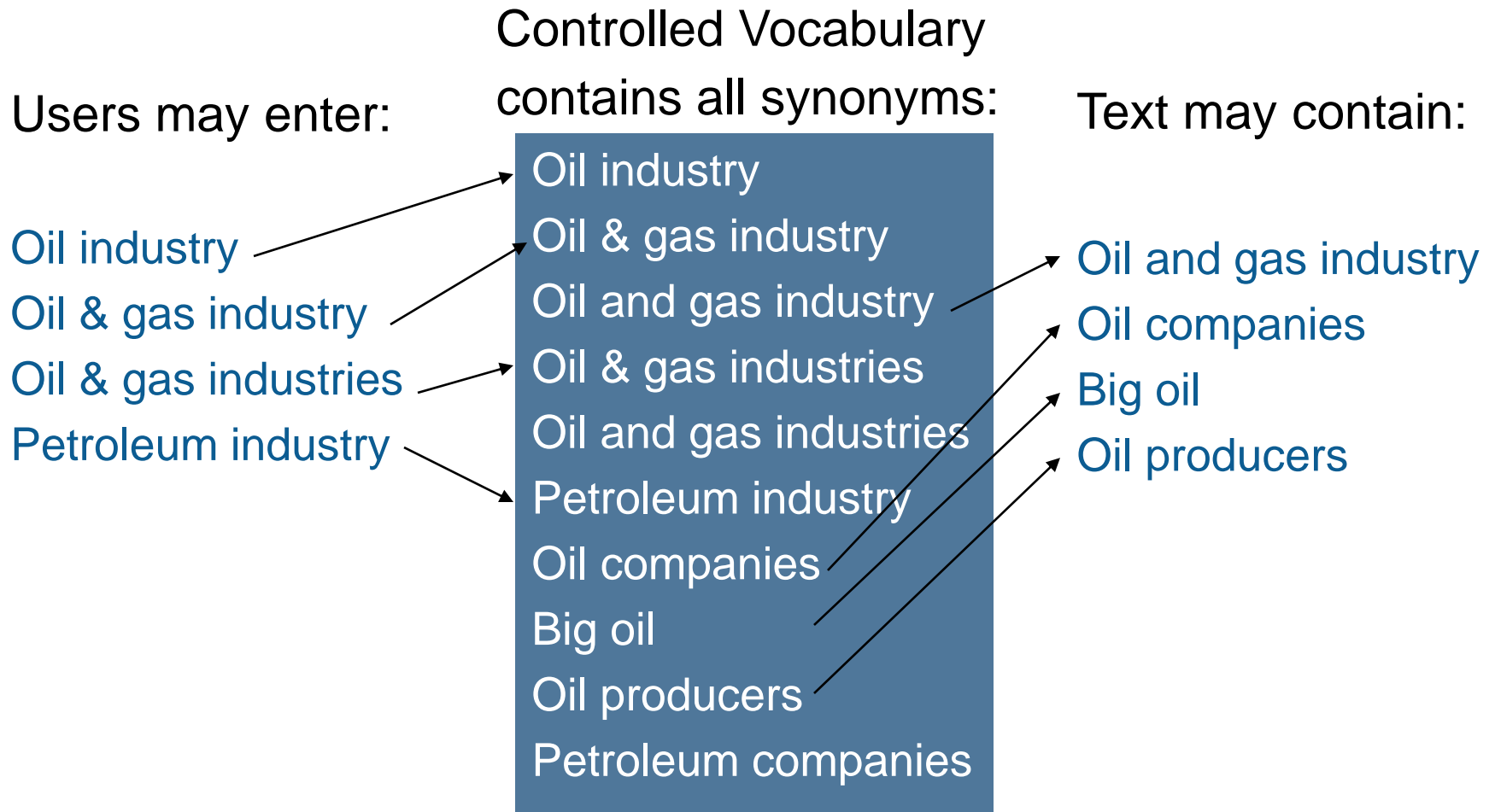
- Documents not missed due to use of different words (e.g. **Automobiles**, instead of **Cars**)
- User does not need to guess the spelling of unusual or foreign names (e.g. **Condoleezza Rice**)

A search restricted on the controlled vocabulary retrieves concepts not just words.

- Documents excluded for mere text-string matches (e.g. **monitors** for computers, not the verb “observes”)

Benefits

Example: users researching indexed articles on the oil industry

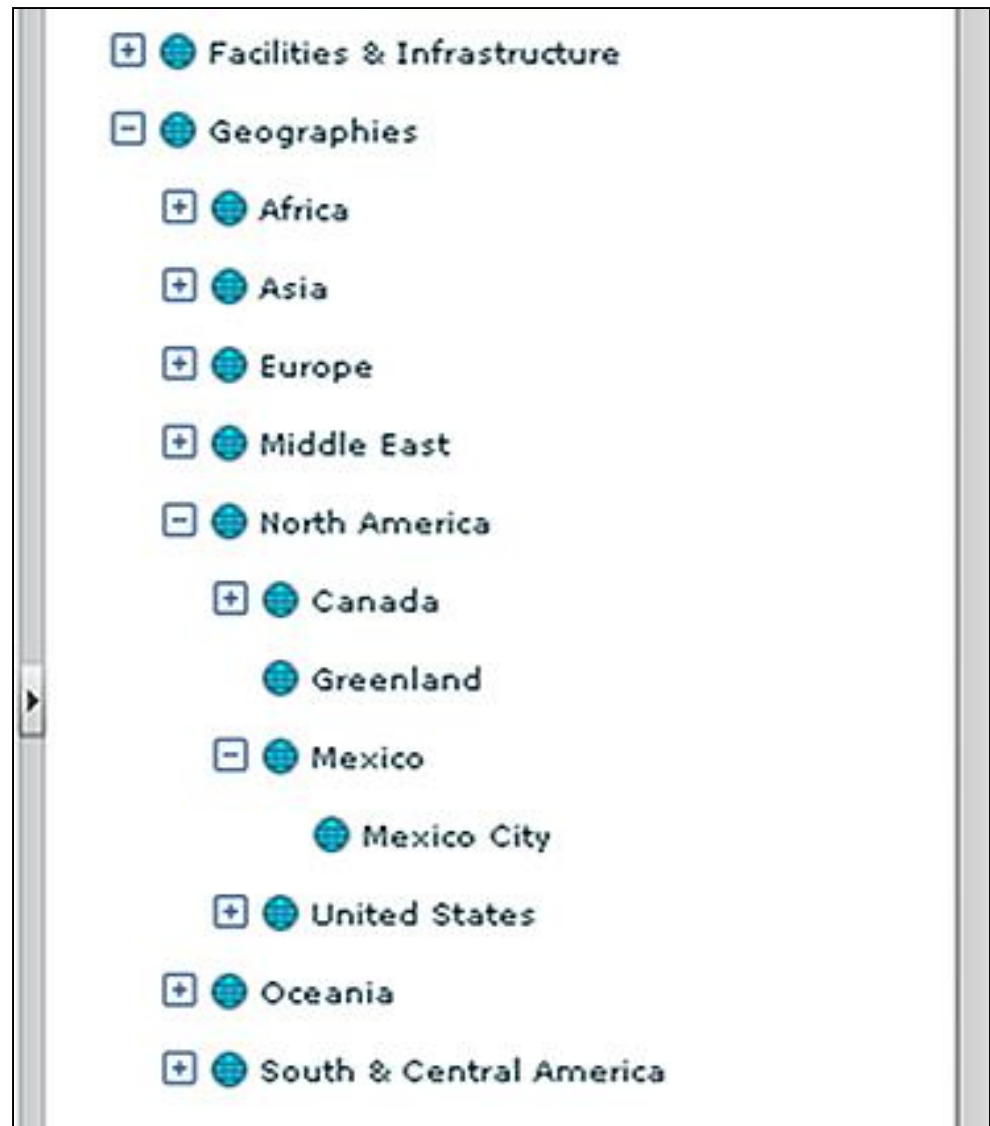


Benefits

A hierarchical taxonomy provides guided search.

- Users can browse and locate narrower (more specific) subjects of interest.
- Users find out what is included and what is not.
- Users may find related subjects of interest.

Taxonomies can reflect natural categories.



Terms in Controlled Vocabularies

Deciding whether a concept should be a term

- Is it within the subject-area scope of the CV?
- Is it important, likely to be looked up
- Is there enough information (or sufficient anticipated information)
- Do users want and expect it?

Terms in Controlled Vocabularies

1. Choosing the preferred term

Doctors vs. **Physicians**

Movies vs. **Motion pictures**

Cars vs. **Automobiles**

2. Creating nonpreferred terms (for search or alphabetical browse, not for navigation)

Cars

UF Automobiles

UF Autos

Terms in Controlled Vocabularies

Sources of Terms

1. People as sources
2. Content/material to be indexed as sources
3. External sources
 - Sources for concepts
 - Sources for preferred wordings and non-preferred terms

Relationships Between Terms

Relationships between terms

Between preferred and nonpreferred terms:

1. Equivalence: Use (USE) / Used for (UF)

Between preferred terms:

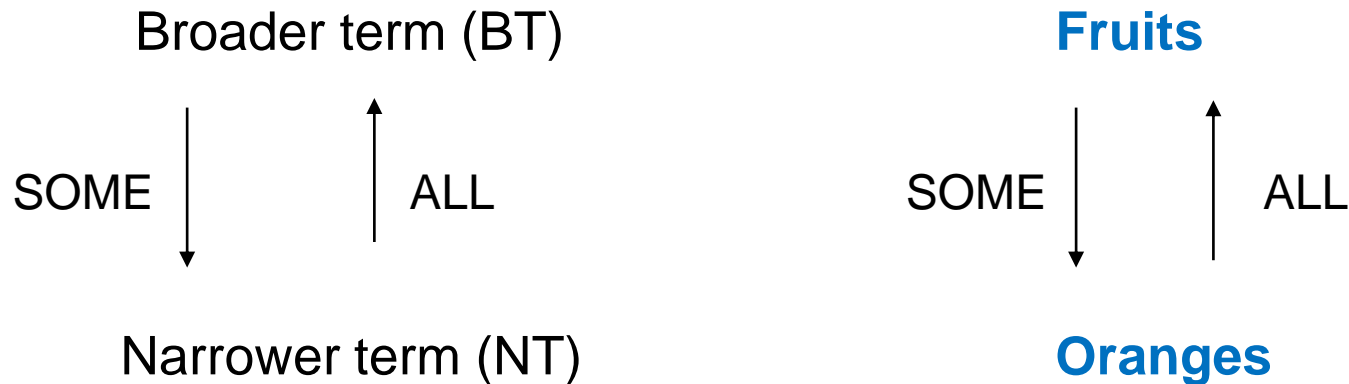
2. Hierarchical: Broader term (BT) / Narrower term (NT)
3. Associative: Related term (RT)
4. Customized relationships
(more specific types of BT/NT or RT)

Relationships are reciprocal between terms.

Relationships Between Terms

Hierarchical Relationships

Reciprocal (bi-directional) relationships, but asymmetrical



Fruits NT **Oranges** **Oranges** BT **Fruits**

Types:

1. **Generic – Specific**: narrower term **is a** kind of broader term
- 1.b **Common noun – Proper noun**: narrower term is an instance of broader
2. **Whole – Part**: narrower term is an *integral* part of broader term

Further Reading or Training

American Society for Indexing <http://www.asindexing.org/about-indexing/thesauri>

ANSI/NISO Z39.19-2005 (R2010) *Guidelines for the Construction, Format, and Management of Monolingual Controlled Vocabularies*

http://www.niso.org/apps/group_public/download.php/12591/z39-19-2005r2010.pdf

“Practical Taxonomy Creation” ASI Online Learning 3-part webinar course

<http://www.asindexing.org/online-learning/taxonomy-hedden>

The Accidental Taxonomist Blog <http://accidental-taxonomist.blogspot.com>

Taxonomy Boot Camp conference, November 14-15, 2016, Washington, DC

<http://www.taxonomybootcamp.com>

Construction of Controlled Vocabularies: A Primer

<http://marciazeng.slis.kent.edu/Z3919/index.htm>

Thesaurus Construction tutorial by Tim Craven

<http://publish.uwo.ca/~craven/677/thesaur/main00.htm>

Hedden, Heather. *The Accidental Taxonomist*. Information Today, Inc. (2010, 2016)

<http://books.infotoday.com/books/Accidental-Taxonomist-2nd-Edition.shtml>

Questions, More Details, Contact

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