Taxonomies for Users

Heather Hedden
Taxonomy Consultant
Hedden Information Management

Boston World IA Day February 22, 2020

About Heather Hedden

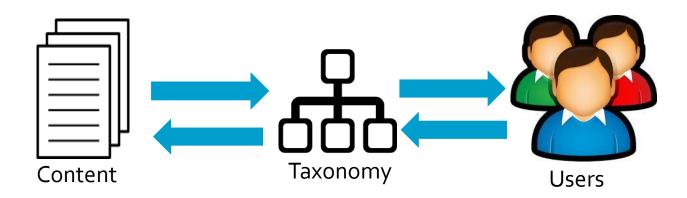
- Taxonomy consultant
 - For intranets, enterprise content management, SharePoint, research databases, websites, ecommerce, etc.
 - Independent, through Hedden Information Management
 - Previously as an employed and contract consultant
- Former staff taxonomist
 - At various companies: Gale/Cengage Learning, Viziant, First Wind
- Instructor of online and onsite taxonomy courses
 - Independently through Hedden Information Management
 - Previously at Simmons University Library & Information Science School
- Author of The Accidental Taxonomist (2010, 2016, Information Today, Inc.)

Outline

- Introduction to Taxonomies
 - Different approaches
 - Taxonomies vs. classification and navigation systems
- Categories and Tags
- Taxonomy Development
- Hierarchical Taxonomy Displays
- Faceted Taxonomy Displays

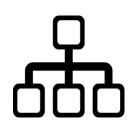
What is a taxonomy for?

- Terms are used to tag/index/categorize pages or content to make them easier to be found and retrieved
 - > supporting better findability than search (algorithms) alone
- The taxonomy is an intermediary that links the user to the desired content.
- The taxonomy should suit the content and the users.



Two major approaches to taxonomies

1. A hierarchy of terms/topics/categories arranged with narrower topics/subcategories displayed under their broader/parent categories.



- To guide users to find the desired topic (and its linked content of pages or documents)
- Similar to navigation and site maps, but more topical and not just based on page titles
- 2. A controlled vocabulary of metadata tags/labels to apply to pages, posts, or documents, so that they can be more precisely and comprehensively retrieved (than by search algorithms alone on keywords in text).



Implemented as search suggestion terms, search refinement filters, or post-search suggested related topics and searches

community

lost+found activities missed artists connections childcare musicians classes pets events politics general rants & raves groups rideshare local news volunteers

services

automotive labor/move beauty legal cell/mobile lessons computer marine creative pet real estate cycle skilled trade event sm biz ads farm+garden financial travel/vac write/ed/tran household

discussion forums

android frugal pets philos apple gaming arts garden photo

housing

apts / housing housing swap housing wanted office / commercial parking / storage real estate for sale rooms / shared rooms wanted sublets / temporary vacation rentals

for sale

antiques farm+garden appliances free arts+crafts furniture atv/utv/sno garage sale auto parts general aviation heavy equip baby+kid household barter jewelry materials beauty+hlth bike parts motorcycle parts bikes motorcycles music instr boat parts boats photo+video n /o Looman

jobs

accounting+finance admin / office arch / engineering art / media / design biotech / science business / mgmt customer service education etc / misc

government

food / bev / h Craigslist Boston general labor boston.craigslist.org

human resources legal / paralegal manufacturing marketing / pr / ad medical / health nonprofit sector real estate retail / wholesale sales / biz dev salon / spa / fitness security skilled trade / craft

software / qa / dba

systems / network

Office DEPOT OfficeMax	Products ^ Services ∨	De	eals V Search		
ree next-day ship	Office Supplies	>	Pens, Pencils & Markers	Filing & Folders	Desk Accessories
	Furniture	>	Pens	File Folders	Desk Organizers
	Classing		Markers & Highlighters	Hanging File Folders	Desk Trays
	Cleaning		Pencils	Expanding File Folders	File Organizers
	Breakroom	>	Correction Fluid & Tape	Classification Folders	Drawer Organizers
Big	Paper	>	Basic Supplies	Binders & Accessories	Calendars & Planner
	School Supplies	>	Staplers & Staples	Binders	Calendars
A	Technology	>	Paper & Binder Clips	Dividers & Tabs	Planners
_	Ink & Toner	>	Scissors	Report Covers & Portfolios	Organizers
Fre fui			Paper Punches & Cutters	Sheet Protectors	More Ways to Shop
101	Tax Return Solutions		Mailing & Shipping	Labels & Label Makers	Tax Return Solutions
	Cold & Flu		Envelopes	Standard Labels	Post-It & Sticky Note
			Shipping & Moving Boxes	Label Maker Tapes	Tape & Adhesives
			Mailers	Address Labels	Storage Boxes & Bins
			Packing Tape	Label Makers	Presentation Boards
WV	vw.officedepot.com		Packing Materials	Name Badges & Holders	
				-	

World Bank Open Data

Free and open access to global development data

pop III Population, male World Bank II Population, total https://data.worldbank.org III Population, female III Rural population II Urban population III Population, male (% of total population) Population, female (% of total population) Population in largest city

MEASURES	Sort By: Relevance V Showing Results 1 - 20 of 5602	Show: 20 per page v
Measure Attributes (4906)	SEARCH: retirement X	
Measure Category (5602) Measure Published By (5602)	☐ All employees, thousands, continuing care retirement communities, seasonally adju	sted +
CHARACTERISTICS Demographics - Characteristics of	☐ Production and nonsupervisory employees, thousands, continuing care retirement communities, seasonally adjusted	+
People (98) Establishments/Businesses/Firms	☐ Women employees, thousands, continuing care retirement communities, seasonally	adjusted +
(1085)	☐ All employees, thousands, continuing care retirement communities, not seasonally a	adjusted +
Geography (5432) Industry (5465)	☐ Women employees, thousands, continuing care retirement communities, not season adjusted	ally +
Occupation (4474) Unemployment and Labor Force	☐ Social Security, private & government retirement by Highest Education: All Consume	er Units +
Status (1)	☐ Social Security, private & government retirement by Hispanic Origin: All Consumer	Jnits +
Worker Characteristics (94)	☐ Social Security, private & government retirement by Census Region: All Consumer U	Inits +
SURVEY Employment, Hours, and Earnings	☐ Social Security, private & government retirement by Income Deciles: Ninth 10 perce	nt +
from the Current Employment Statistics survey (National) (42)	☐ Social Security, private & government retirement by Race: All Consumer Units	+
Employer Costs for Employee	□ Social Security, private & government re Bureau of Labor Statis	stics
Compensation (388) Consumer Expenditure Survey	□ Social Security, private & government re	taQuery/sear
(137)	□ Social Security, private & government re	,
Occupational injuries and illnesses industry data (696)	☐ Social Security, private & government retirement by Income Range: \$70,000 to \$99,9	99 +

Explore Keywords

Enter a keyword:		Go
------------------	--	----

Browse Interesting Keywords

action hero kidnapping alternate history knight ambiguous ending kung fu americana macguffin

medieval times anime anti hero mockumentary monster

avant-garde

mother daughter relationship b movie mother son relationship bank heist

based on book multiple actors playing same role

based on play multiple endings based on comic multiple perspectives

based on comic book multiple storyline based on novel multiple time frames

based on novella murder

musical number based on short story

battle neo noir neorealism betrayal biker ninja

no background score black comedy

blockbuster no music

bollywood no opening credits

Internet Movie Database

www.imdb.com/search/keyword/

What is a taxonomy?

Controlled and organized

- A kind of controlled vocabulary or knowledge organization system, based on unambiguous concepts, not just words
- Terms are arranged in a structure of hierarchies, categories, or facets to organize the terms.

Why called "taxonomy"?

- From ancient Greek "taxis," meaning arrangement + "nomia," meaning method.
- Originally meant the science and practice of naming and classifying.
- Aspect of "classification" is still relevant to the definition of taxonomies.

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

Hierarchical Taxonomy

Example

Career Level

- Student
- Entry Level
- Experienced

Manager

Director

Executive

Faceted

Taxonomy

Example

Function

- Customer Service & Support
- Delivery
- Engineering
- Finance
- General Management
- Legal & Regulatory Affairs
- Marketing & Advertising [more]

Industry

- Agriculture
- Apparel & Fashion
- Automotive
- Aviation & Aerospace
- Banking
- Biotechnology
- Broadcast Media
- Chemicals [more]

Taxonomy Examples

000 Computer science, knowledge & systems

- 010 Bibliographies
- 020 Library & information sciences
- 030 Encyclopedias & books of facts
- 040 [Unassigned]
- 050 Magazines, journals & serials
- 060 Associations, organizations & museums
- 070 News media, journalism & publishing
- 080 Quotations
- 090 Manuscripts & rare books

100 Philosophy

- 110 Metaphysics
- 120 Epistemology
- 130 Parapsychology & occultism
- 140 Philosophical schools of thought
- 150 Psychology
- 160 Logic
- 170 Ethics
- 180 Ancient, medieval & eastern philos
- 190 Modern western philosophy

200 Religion

- 210 Philosophy & theory of religion
- 220 The Bible
- 230 Christianity & Christian theology
- 240 Christian practice & observance
- 250 Christian pastoral practice & religious orders
- 260 Christian organization, social work & worship
- 270 History of Christianity
- 280 Christian denominations
- 290 Other religions

300 Social sciences, sociology & anthropology

- 310 Statistics
- 320 Political science
- 330 Economics
- 340 Law

Dewey Decimal Classification

100s level

Is a classification system a taxonomy?

350 Public administration & military science 360

- Social problems & social services
- 370 Education
- 380 Commerce, communications & transportation
- 390 Customs, etiquette & folklore 400 Language

400 Language

- 410 Linguistics
- 420 English & Old English languages
- 430 German & related languages
- 440 French & related languages
- 450 Italian, Romanian & related languages
- 460 Spanish & Portuguese languages
- 470 Latin & Italic languages
- 480 Classical & modern Greek languages
- 490 Other languages

500 Science

- 510 Mathematics
- 520 Astronomy
- 530 Physics
- 540 Chemistry
- 550 Earth sciences & geology
- 560 Fossils & prehistoric life
- 570 Life sciences; biology
- 580 Plants (Botany)
- 590 Animals (Zoology)

600 Technology

- 610 Medicine & health
- 620 Engineering
- 630 Agriculture
- 640 Home & family management
- 650 Management & public relations
- 660 Chemical engineering
- 670 Manufacturing
- 680 Manufacture for specific uses
- 690 Building & construction

700 Arts

- 710 Landscaping & area planning
- 720 Architecture
- 730 Sculpture, ceramics & metalwork
- 740 Drawing & decorative arts
- 750 Painting
- 760 Graphic arts
- 770 Photography & computer art
- 780 Music
- 790 Sports, games & entertainment

800 Literature, rhetoric & criticism

- 810 American literature in English
- 820 English & Old English literatures
- 830 German & related literatures
- 840 French & related literatures
- 850 Italian, Romanian & related literatures
- 860 Spanish & Portuguese literatures
- 870 Latin & Italic literatures
- 880 Classical & modern Greek literatures
- 890 Other literatures

900 History

- 910 Geography & travel
- 920 Biography & genealogy
- 930 History of ancient world (to ca. 499)
- 940 History of Europe
- 950 History of Asia
- 960 History of Africa
- 970 History of North America
- 980 History of South America
- 990 History of other areas

Taxonomy vs. a Classification System

Classification systems: Dewey Decimal Classification, LC Classification, NAICS, etc.

Classification Systems

- ➤ Have numeric/alpha-numeric codes
- Rarely have synonyms (alternate labels)
- Comprehensive and balanced coverage of a domain
- Designed to be browsed hierarchically, top-down
- Built for a domain but independent of specific content
- Provide for limited expansion
- Has "not elsewhere classified" or "other"

Taxonomies

- Don't have codes
- Often have synonyms (alternate labels)
- Just the terms needed and may be hierarchically unbalanced
- Designed to be browsed, searched, or may not be fully displayed to end-users
- Custom-built to include the topics in the content to be tagged
- Can grow and adapt without limits
- Does not have terms for the miscellaneous

Taxonomy vs. site (website or intranet) navigation hierarchy

Navigation

- Single-site use and implementation
- Reflect the site-map structure
- Labels based on page titles
- Designed to be browsed hierarchically, top-down
- 2-3 level hierarchy
- One-to-one label-to-page
- Limited size; does not cover all pages
- Biased to emphasize what is important
- Not so flexible for updating
- > Paths and links, not metadata

Taxonomies

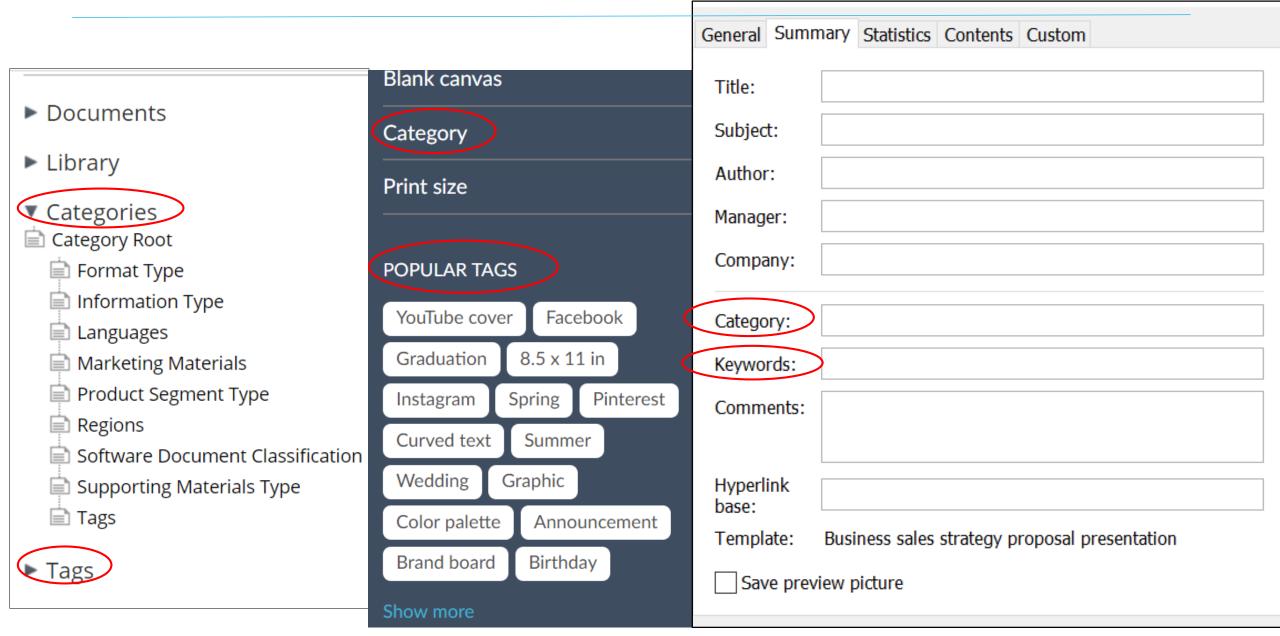
- May be re-used in multiple implementations
- > Reflects organic relations of the topics
- Labels based on concepts/topics
- Designed to be browsed, searched, or may not be fully displayed to end-users
- Options for deeper hierarchy and/or facets
- One-to-many label to multiple pages
- Can be large; can cover all pages/content
- Neutral to topic importance
- Can grow and adapt without limits
- > Often is metadata

Varied uses of taxonomies

- Topic/category browsing and exploring
- Search (matching search strings to concepts)
- Discovery (related concept links or contents sharing the same concepts)
- Filtering results
- Sorting results
- Content management workflow (rights, audience, retention, etc.)
- Consistent metadata for identification, comparison, analysis
- Consistent tagging

- A single taxonomy may include both approaches/features of (1) organized guiding classification structure (2) controlled vocabulary search terms.
- Sometime two different taxonomies exist at the same time, as supported by many content management systems, one for supporting hierarchical classification (as categories) one for supporting search (as tags).
- Categories or tags both are familiar to users
- Categories are often virtual folders to "contain" or group content
- Tags are searchable metadata associated with content
- The same content may be managed by both categories and tags.





Categories vs. Tags

Using Linked and Other Open Vocabularies

🛗 September 24, 2018 💄 Heathers Admin

Taxonomy terms assigned to content items makes the content easier to find, whether in an internal system, on the web, or both. To make content easier to find or discover on the web, the use of taxonomy terms or tags is part of the broader application of search engine optimization(SEO). A lot...

Read more

Taxonomy terms (S) Blog post taxonomies, Linked data, Linked open vocabularies, Tagging, Tags

When to create categories instead of topical tags

- If a dominant means of categorizing (e.g. Content Type, Discipline, Brand) is identified through conversations with users.
- If the same set of users usually work in the same category, accessing their "go-to" folder.
- If the files always stay in this repository rather than "travel" downstream to other applications (so don't need taxonomy as attached metadata).
- If the taxonomy is relatively small (and there is no need for synonyms).
- If there is the desirability for a hierarchical taxonomy but the CMS metadata fields don't support it.
- If there are problems with user compliance in tagging.
- If users clearly prefer category folders (based on use cases).

Categories and Tags comparison





- ➤ What "buckets" the content goes into
- > Like a table of contents
- Relatively broad
- > Limited in number
- ➤ Mutually exclusive
- Sometimes hierarchical
- > More controlled
- > Pre-planned
- > Supports browsing

- ➤ What topics the content contains
- ➤ Like an index
- ➤ More specific
- ➤ More numerous
- ➤ Overlapping
- Often unstructured
- > Less controlled
- > Ad hoc
- Supports searching

Issues in Taxonomy Approach

- Inconsistent user experience / view of the taxonomies
 If creating completely separate taxonomies (e.g. categories and tags)...
 - User sees certain terms in a browsed hierarchy, but differently worded terms for same concept in search refinement topics
- Risk of wrong design
 - If using the design approach of a traditional hierarchical taxonomy for the purpose of tagging and search support...
 - Creating a classification taxonomy won't be effective when what is needed are simply topics to limit results by.
- Compromised taxonomy
 - If creating a single taxonomy for both/multiple purposes...
 - Might be too detailed for hierarchical categories and not detailed enough for search terms/tags

Taxonomy Development

For sources for terms (and their variants/synonyms)

Consider

- Your content
- Your users
- If public facing, perhaps competitor websites

Avoid

- External taxonomies for license
- Standard (library) classification, glossaries
- Suggestions from SMEs or stakeholders who do not know how the taxonomy will be used
- Roget's thesaurus

Taxonomy Development

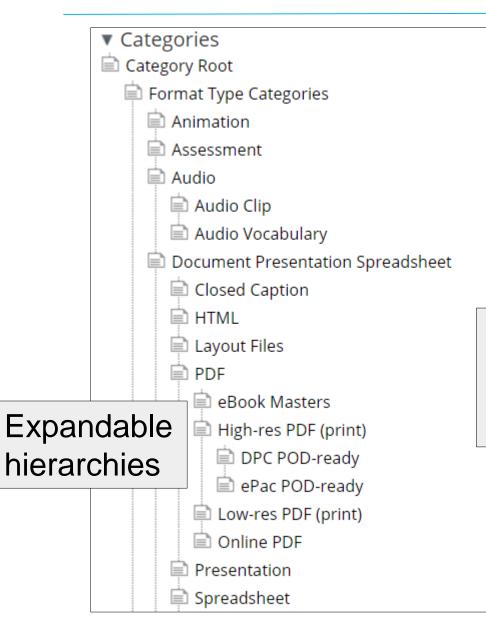
Taxonomy project steps

- Brainstorming workshop
- Stakeholder interviews (and use-case creation)
- Content analysis/audit
- Review of any existing vocabularies, search logs
- Taxonomy build
- Stakeholder review of taxonomy and feedback
- User testing
- Taxonomy governance documentation
 - Taxonomy maintenance policy & guidelines
 - Taxonomy use/tagging policy & guidelines

End-user hierarchical taxonomy browse display options

Hierarchy end-user displays may be implemented in different ways:

- Expandable tree
 - Plus signs/minus signs or carets/arrows to the side or down
- One level per web page
 - Separate web page for each hierarchical level
- Fly-out subcategories
 - Second and third levels displayed in pane/box to the right



AGROVOC aims.fao.org/ standards/ag rovoc

© 2020 Hedden

processes products agricultural products -bioproducts out of season products perishable products animal products -carcasses -cocoons eggs egg white egg volk -shell-less eggs soft shelled eggs --fish hive products -- beeswax honey honeycomb extracts propolis roval jelly -ivory ·livestock products -meat -milk -wildlife products artificial products biodegradable products byproducts -commodities

- USA TODAY Content Tree news 245.085 stories
 - money 79,150 stories

■ travel 44.553 stories

- 2 stories
- advertising 907 stories
- autos 3.670 stories
 - biztravel 735 stories
- books 526 stories
- business 121 stories
- cars 9 stories
- columnist 27 stories
- companies 3,766 stories
- economy 17,340 stories
 - confidence 51 stories
 - construction 11 stories
 - employment 379 stories
 - fed 380 stories
 - beigebook 23 stories
 - rates 88 stories
 - qdp 39 stories
 - housing 2,129 stories
 - - environment 2 stories

closetohome 171 stories

- income 53 stories
- inflation 99 stories
- production 85 stories
- productivity 23 stories
- services 27 stories
- survey 21 stories
- trade 164 stories
- gallery 36 stories
- industries 11.869 stories

Expandable tree

Advantages:

- Allows the user to explore/expand multiple subcategories simultaneously
- Accommodates inconsistent numbers of terms per level
- Display takes up only part of screen
- Good for hierarchically deep taxonomies

Disadvantages:

- Insufficient for displaying very large taxonomies or large numbers of terms at the same level
- More complex to develop and may take more time to load display.
 Not good for the web. Usually for internal systems.

Books Arts & Photography Biographies & Memoirs **Business & Money** Calendars Children's Books Christian Books & Bibles Comics & Graphic Novels Computers & Technology Cookbooks, Food & Wine Crafts, Hobbies & Home Education & Teaching Engineering & Transportation Gay & Lesbian Health, Fitness & Dieting History Humor & Entertainment Law Literature & Fiction Medical Books Mystery, Thriller & Suspense Parenting & Relationships Politics & Social Sciences Reference Religion & Spirituality Romance Science & Math Science Fiction & Fantasy Self-Help Sports & Outdoors Teen & Young Adult Test Preparation Travel





Show results for

New Releases

Last 30 days Last 90 days Coming Soon

Books

Ba

Reference

Almanacs & Yearbooks

Atlases & Maps

Careers

Catalogs & Directories

Consumer Guides

Dictionaries & Thesauruses

Encyclopedias & Subject Guides

English as a Second Language

Etiquette

Foreign Language Study &

Reference

Genealogy

Quotations

Survival & Emergency

Preparedness

Test Preparation

Words, Language & Grammar

Writing, Research & Publishing

Guides

Reference

Sho

Show results for

New Releases

Last 30 days

Last 90 days

Coming Soon

Test

Books

Reference

Dictionaries & Thesauruses

Dictionaries

English

Foreign Language Dictionaries

& Thesauruses

Lexicography

Slang & Idioms

Synonyms & Antonyms

Thesauruses

Mos

Wor

Grai

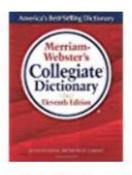
Refine by

© 2020 Hedden Information Management

Format

Dictionaries & Thesauru

Shop by category



English Dictionaries...



Amazon.com:

One level per web page

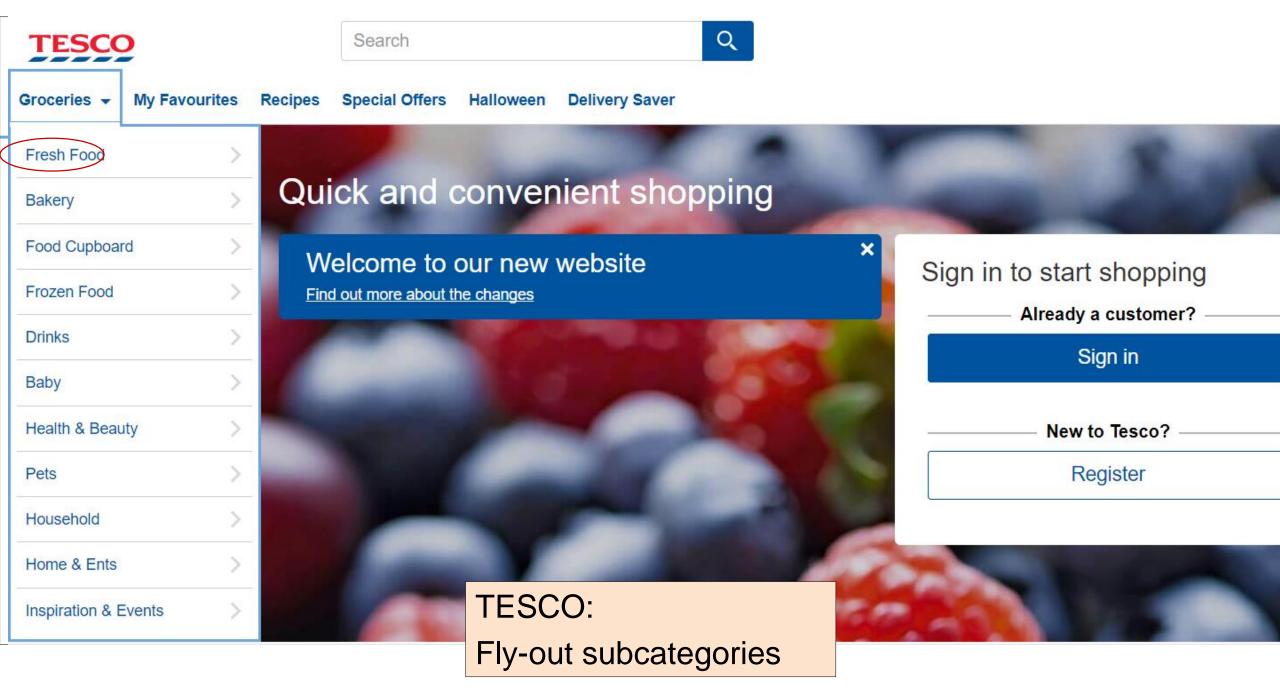
One level per page

Advantages:

- Large number of terms can display at each level
- Good for large volumes of content
- Gives space for additional content to display
- Works well with polyhierarchies
- Technically easy to implement

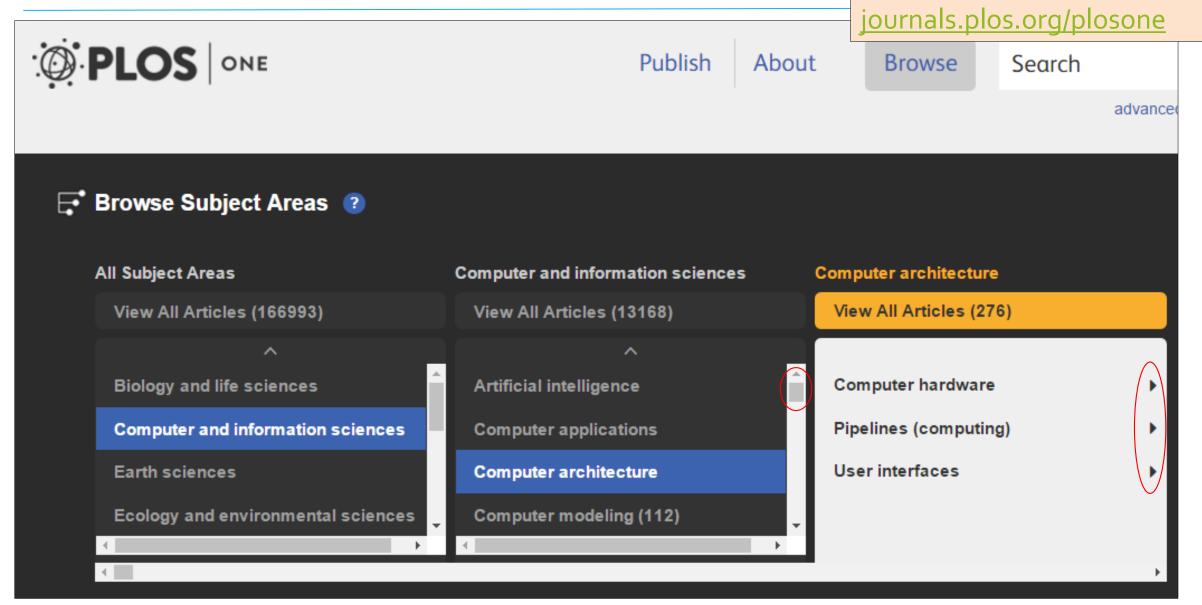
Disadvantages:

- Users see only one level at a time
- Less appropriate for taxonomies with varied/inconsistent levels or levels containing just one or a few terms



Groceries ▼ My Favourites Recipes	Special Offers	Halloween Delivery Saver	
Fresh Food	>	All Fresh Food	
Bakery	>	Fresh Fruit	>
Food Cupboard	>	Fresh Vegetables	>
Frozen Food	>	Fresh Salad & Dips	>
Drinks	>	Chilled Fruit Juice & Smoothies	>
Baby	>	Milk, Butter & Eggs	>
Health & Beauty	> (Cheese	>
Pets	>	Yoghurts	>
Household	>	Chilled Desserts	>
Home & Ents	>	Fresh Meat & Poultry	>
Inspiration & Events	>	Chilled Fish & Seafood	>
		Cooked Meats, Sandwich Fillers & Deli	>
		Pies, Quiches & Party Food	>

Groceries ▼ My Favourites Recipes Special Offers	Halloween Delivery Saver	
Fresh Food >	All Fresh Food	All Cheese
Bakery	Fresh Fruit	Cheddar Cheese
Food Cupboard	Fresh Vegetables	Grated & Sliced Cheese
Frozen Food >	Fresh Salad & Dips	Cottage Cheese & Soft Cheese
Drinks	Chilled Fruit Juice & Smoothies	Cheese Snacks & Spreads
Baby	Milk, Butter & Eggs	Feta & Goats Cheese
Health & Beauty	<u>Cheese</u> >	Speciality & Continental Cheese
Pets >	Yoghurts	Regional Cheese
Household	Chilled Desserts	Cheeseboards & Selections
Home & Ents	Fresh Meat & Poultry	Cheese For Entertaining
Inspiration & Events	Chilled Fish & Seafood	Low Fat Cheese
	Cooked Meats, Sandwich Fillers & Deli	Dairy Free Cheese & Alternatives
	Pies, Quiches & Party Food	Counter Cheese



Fly-out subcategories

Advantages:

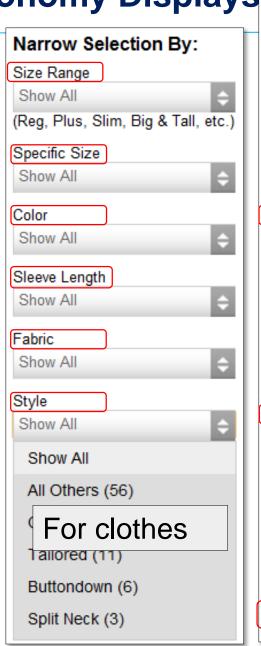
- Users can visualize the hierarchy (see both/multiple levels) at the same time
- Users can easily back up in the hierarchy

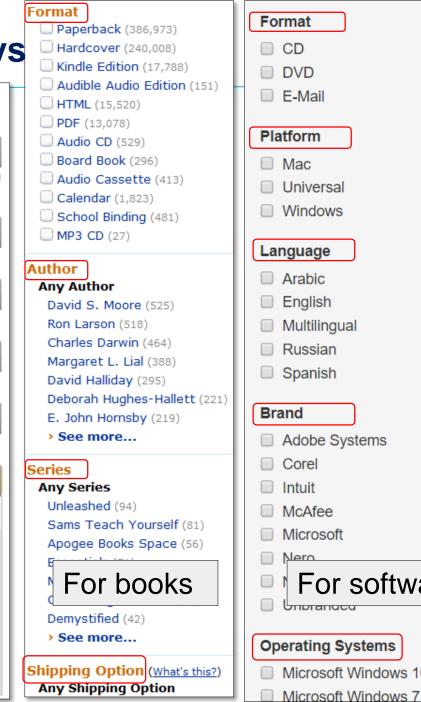
Disadvantages:

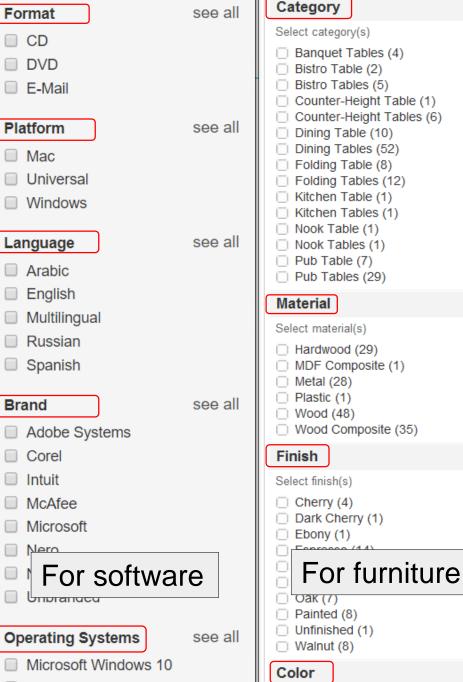
- Not so suitable for large taxonomies
- Usually not suitable for more than 3 levels

Faceted Taxonomy Displays

Examples of ecommerce facets







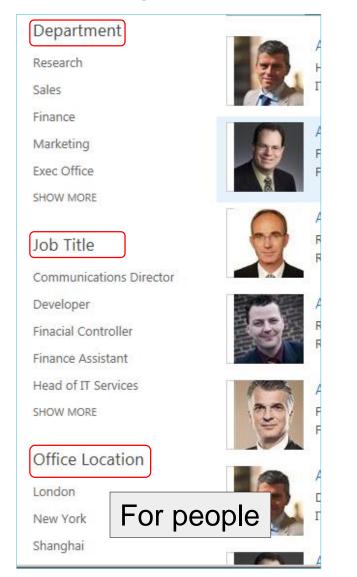
Clear

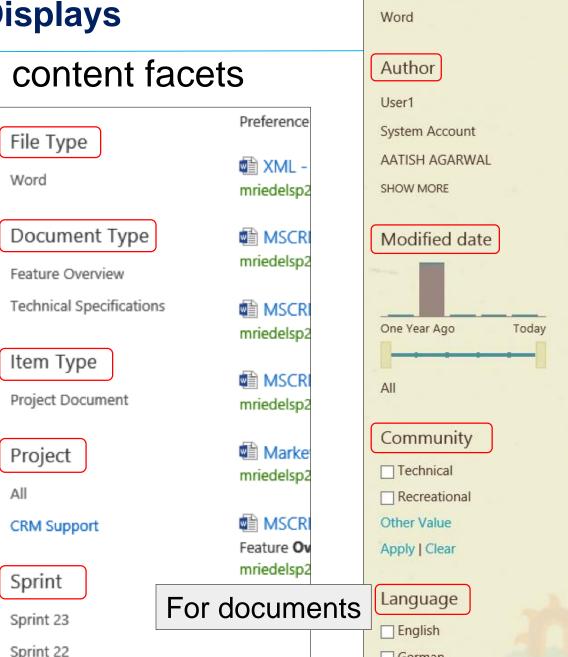
Clear

Clear

Faceted Taxonomy Displays

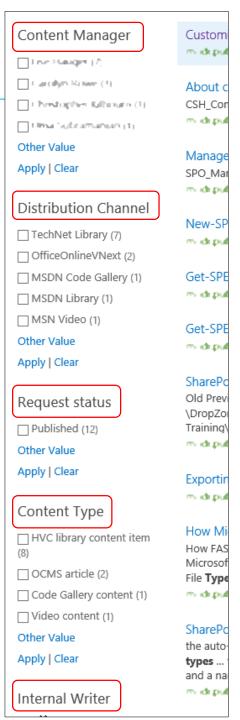
Examples of internal content facets





Result type

German



Facet advantages

- Supports more complex search queries by users
- Allows users to control the search refinement, narrowing or broadening in any manner or order
- Familiar to novice users; suitable for expert users

Facet disadvantages

- Only suitable for somewhat structured, unified type of content that all share the same multiple facets
- Not practical for extremely large topical taxonomies
- Requires investment of thorough indexing/tagging

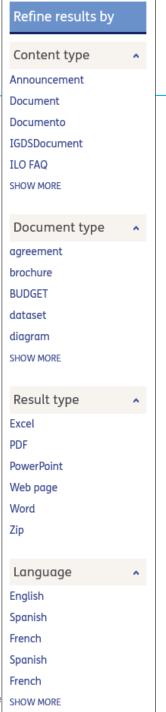
Facet design tips

- Number of facets: 3-8, with 5-6 as ideal
- Facets listed in logical, not alphabetical order
- Number of terms per facet: 2-25
 - Ideally not much more than can be viewed in a scroll box
 - If the list is known (alphabetical list of countries), then more is OK.
 - Exception can be made for hierarchical "Topics" facet
- If <12 terms, then a logical display order If >12 terms, then alphabetical order
- A two-level hierarchy (indented) within a facet is possible

Number of facets

- SharePoint by default collapses facets to show the first 5 values/terms.
- This takes up vertical space so that only 4 refinements/facets can display in the screen height.

Example from the ILO SharePoint intranet with 9 refinements/facets

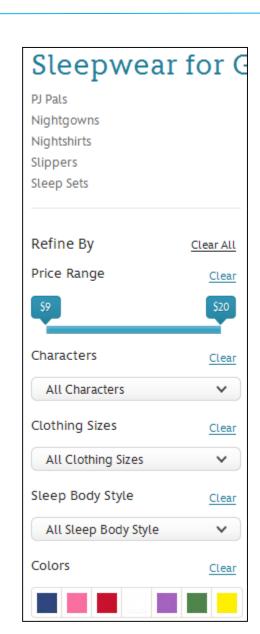


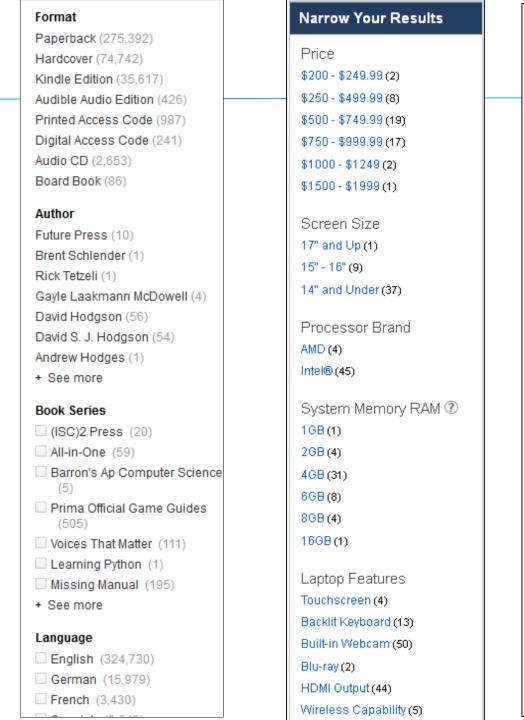


Facet design options and issues

- Facets as post-search filters, as initial browse, or both
- Display of partial/start of list of values within a facet
- Ability to select multiple values from within the same facet at once (with check boxes)
- Inclusion of other metadata (not "taxonomy") in the same set of facets (date, author, price, etc.)
- Have all generic facets or also have subject category-specific facets





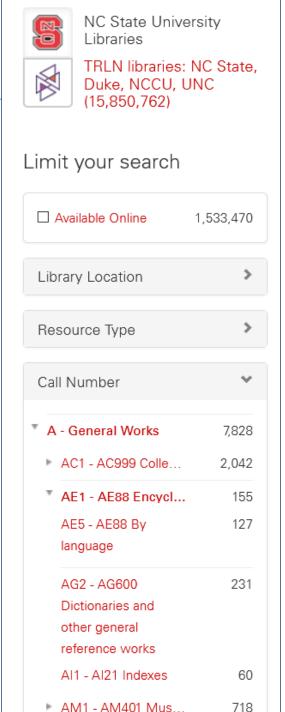




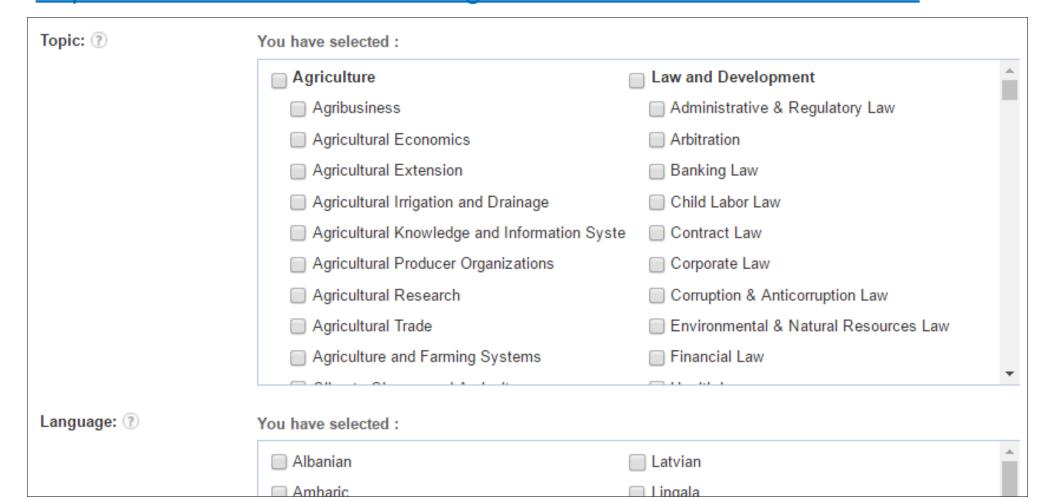
Combined hierarchies and facets

When facets are useful, but topics are are best displayed in a hierarchy

- 1. Starting with facets, and then having hierarchies within facets
- 2. Starting with hierarchical categories, then having further refinement with category-specific facets
 - Hierarchy within facet example: Call Number facet North Carolina State University Libraries catalog https://catalog.lib.ncsu.edu



Hierarchies within facets example: World Bank Documents & Reports - Advanced Search http://documents.worldbank.org/curated/en/docadvancesearch



2. Starting the hierarchical categories, then limiting with facets

Amazon.com (shop by Department)

www.amazon.com/gp/sitedirectory/ref=nav_shopall_btn

Arts & Pnotography (1,431,273) Biographies & Memoirs (524,534)

Last 30 days (2,473) Last 90 days (8,480) Coming Soon (1,346)

Platform

Teaching (845,892) Engineering & Transportation (748,729)

Business & Money (1,958,449)

Children's Books (1 323 066)

Calendars (204,227)

Christian Books &

Comics & Graphic

Computers &

Bibles (709.029)

Novels (393,966)

Cookbooks, Food &

Wine (204,080)

Crafts, Hobbies &

Education &

Home (441.381)

Technology (433,843)

Gay & Lesbian (88,492)

Health, Fitness & Dieting (671,090)

History (3,585,297)

Humor &

Books

Entertainment (640,144)

Law (575,784)

Literature & Fiction (3.112.668)

Medical Books (790.683)

Mystery, Thriller & Suspense (308,974)

Parenting & Relationships (179.354)

Politics & Social Sciences (1.641.616)

Reference (4,150,593)

Religion &

Spirituality (1,312,142)

Romance (588,702)

Science & Math (1,537,475)

Science Fiction & Fantasy (350,771)

Self-Help (345,201)

Sports & Outdoors (266,667)

Teen & Young Adult (220,550)

Travel (425.744)

Refine by

Format

Paperback (27,337,676)

Show results for

Windows (39,776) Macintosh (6.895) Linux & Unix (6.853) iPhone & iOS (2.337) Android (1.107)

Audience

Beginners & Seniors (42,495)

Advanced & Power Users (17.023)

Kids & Teens (7.126)

Books

Computers & Technology

Business Technology (40,281)

Certification (21.536)

Computer Science (75.085) Databases & Big Data (27,137)

Digital Audio, Video & Photography (15,637)

Games & Strategy Guides (12,176)

Graphics & Design (50,931)

Hardware & DIY (34,427)

History & Culture (3.174)

Internet & Social Media (34.934)

Mobile Phones Tablets & E-Readers (4.523)

Networking & Cloud Computing (71.137)

Operating Systems (23,482)

Programming (139,790)

Security & Encryption (12,932)

Software (82.119) Web Development & Design (37,154)

Refine by

Format

Platform

Windows (3,778)

Linux & Unix (253)

iPhone & iOS (20)

Advanced & Power

Kids & Teens (57)

Computers & Technology

Databases & Big Data

Data Mining (3.223)

Data Processing (7,673)

Data Warehousing (937)

Other Databases (1.930)

Relational Databases (960)

Access (1.827)

Data Modeling &

Design (2,087)

MySQL (382)

Oracle (1.549)

SQL (2.402)

Paperback (19.530)

Kindle Edition (1.282)

Audible Audio Edition (3)

Digital Access Code (35)

Printed Access Code (154)

Hardcover (4.914)

Audio CD (2)

Steve Krug (1)

Author

Refine by

Format

Users (2.456)

Beginners & Seniors (1.830)

Macintosh (242)

Android (13)

Audience

Books

New Releases

Last 30 days (114) Last 90 days (394) Coming Soon (177)

Show results for

Platform

Windows (87)

Show results for

Last 30 days (26)

Last 90 days (84)

Coming Soon (60)

New Releases

Linux & Unix (6)

Macintosh (5) iPhone & iOS (2)

Android (1)

Audience

Beginners & Seniors (81) Advanced & Power Users (586)

Kids & Teens (4)

Computers & Technology

Databases & Big Data

Data Mining

Refine by

Format

Paperback (2,238)

Hardcover (764)

Kindle Edition (104)

Audible Audio Edition (2)

Printed Access Code (2)

Author

Foster Provost (1)

Tom Fawcett (1)

J. H. Friedman (2)

Robert Tibshirani (2)

Itzik Ben-Gan (4)

Jared P. Lander (1)

John W. Foreman (1)

+ See more

Book Series

Addison-Wesley Data & Analytics Series (7)

For Dummies (4)

Final Tips

Be careful what you call things in the UI

"Related terms"

➤ Do the terms actually have a relationship established between each other within the taxonomy, or are they rather shared, tagged to the same content?

"Top terms"

> Are they top-level terms in the hierarchy, or the most popular terms?

"Keywords"

> Are they controlled terms in the taxonomy, any search string, or folksonomy (uncontrolled entered terms that are saved and displayed for re-use?

"Navigation"

Navigating within the taxonomy hierarchy, or navigating the site and content?

Resources

Books

Abbas, June. (2010) Structures for Organizing Knowledge. New York: Neal Schuman Publishers.

Hedden, Heather. (2016) *The Accidental Taxonomist, 2nd edition.* Medford, NJ: Information Today Inc. <u>www.accidental-taxonomist.com</u>

Lambe, Patrick. (2007). Organising Knowledge: Taxonomies, Knowledge and Organisational Effectiveness. Oxford, England: Chandos Publishing

Standards and guidelines

ANSI/NISO Z39.19-2005 (2010) *Guidelines for Construction, Format, and Management of Monolingual Controlled Vocabularies.* Bethesda, MD: NISO Press. www.niso.org/publications/ansiniso-z3919-2005-r2010

Resources

Websites

Accidental Taxonomy book websites www.hedden-information.com/Accidental-Taxonomist-Websites.htm

Taxonomy Warehouse www.taxonomywarehouse.com

Construction of Controlled Vocabularies: A Primer http://marciazeng.slis.kent.edu/Z3919/index.htm

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

Hedden Information Management past presentations www.hedden-information.com/presentations.htm

Resources

Workshops and Conferences

"Taxonomies & Controlled Vocabularies" self-paced online course through Hedden Information Management

www.hedden-information.com/taxonomy-course-online.htm

Taxonomy creation corporate onsite training through Hedden Information Management www.hedden-information.com/courses-workshops

Pre-conference taxonomy workshop at Computers in Libraries, March 30, Arlington, VA http://computersinlibraries.infotoday.com/2020/workshops.aspx#13751

SLA Conference, June 6-9, Charlotte, North Carolina connect.sla.org/ac2020

Taxonomy Boot Camp conference, November 16-17, 2020, Washington, DC www.taxonomybootcamp.com

Questions/Contact

Heather Hedden Hedden Information Management

heather@hedden.net

98 East Riding Dr. Carlisle, MA 01741 978-467-5195

www.hedden-information.com accidental-taxonomist.blogspot.com twitter.com/hhedden linkedin.com/in/hedden