



An Introduction to Taxonomies

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Background

Heather Hedden's taxonomy development experience

- Developed controlled vocabularies for periodical index databases (Gale)
- Matched controlled vocabulary to keywords for consumer products/services directories (various "yellow pages" clients)
- Created enterprise taxonomies for corporate web sites and intranets (Earley & Associations)
- Developed base and custom taxonomies for integration within an enterprise search software product (Viziant)



Outline

1. Definitions
2. Applications of Taxonomies
3. Creating & Wording of Terms
4. Non-preferred Terms
5. Term Relationships
6. Software
7. Implementation & Maintenance
8. Resources

Outline

1. **Definitions**
2. Applications of Taxonomies
3. Creating & Wording of Terms
4. Non-preferred Terms
5. Term Relationships
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7. Implementation & Maintenance
8. Resources

Definitions

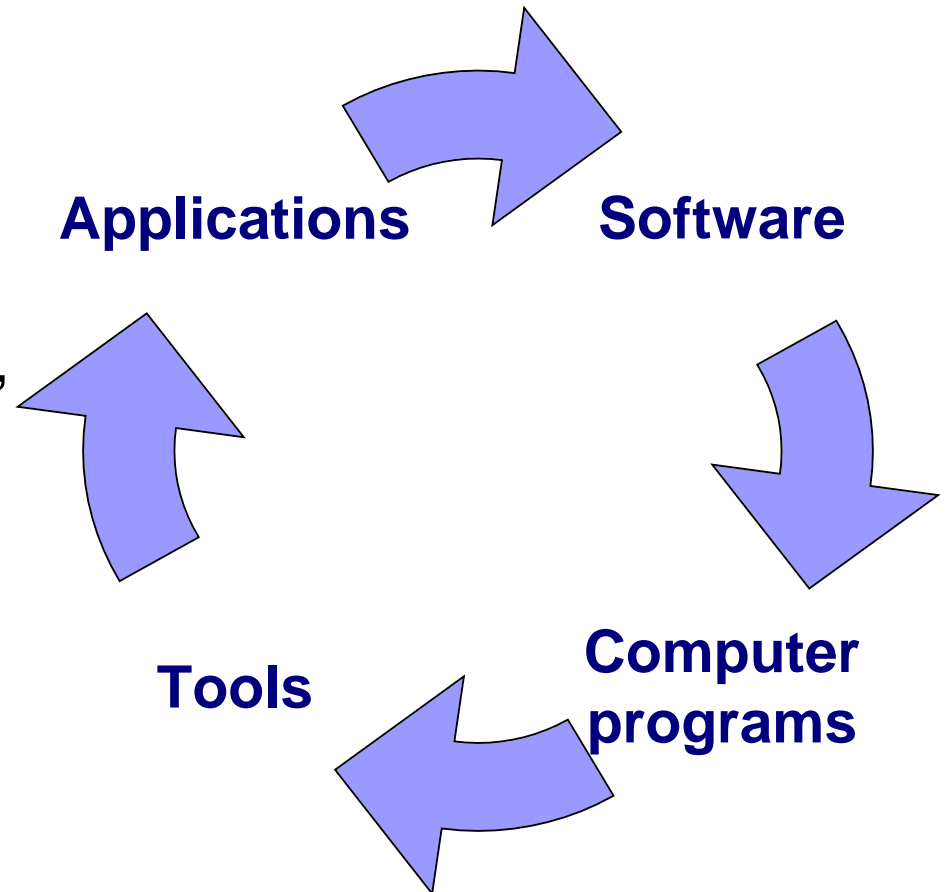
Controlled vocabulary

- 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 (broader/narrower)
- Also called “authority files,” especially if containing just named entities
- “Controlled vocabulary” is the most general, widely used, broadest concept for all applications (CV for short)

Definitions

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”



Definitions

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
- “Thesaurus” is most often used for controlled vocabularies used in indexing periodical literature

Thesaurus entry example

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

Definitions

Thesaurus

Created according to standards:







- ANSI/NISO Z39.19 (2005) *Guidelines for Construction, Format, and Management of Monolingual Controlled Vocabularies.*
- ISO 2788 (1986) *Guidelines for the Establishment and Development of Monolingual Thesauri*
- ISO 5964 (1985) *Guidelines for the Establishment and Development of Multilingual Thesauri*

Definitions

Taxonomy

- A controlled vocabulary with broader term/narrower term relationships that includes all terms to create a hierarchical structure
- An emphasis on categories and classification
- May or may not have associative term relationships or non-preferred terms
- “Taxonomy” is most often used for controlled vocabularies used in corporate/enterprise applications, where it’s used for any controlled vocabulary.
- Sometimes used synonymously for any controlled vocabulary.

Taxonomy (Hierarchical) Example

-  Markets & exchanges
-  Nonprofit organizations
-  Cultures & Languages
 -  Ethnic groups
 -  Africans
 -  American indigenous peoples
 -  Asians
 -  East Asian ethnicities
 -  South and Central Asian et...
 -  Aimaks
 -  Altays
 -  Andamanese
 -  Assamese
 -  Baniyas
 -  Bashkirs
 -  Bengalis

Definitions

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”
- *“an ontology defines a set of representational primitives with which to model a domain of knowledge or discourse... ontology can be viewed as a level of abstraction of data models, analogous to hierarchical and relational models” -- Tom Gruber*

<http://tomgruber.org/writing/ontology-definition-2007.htm>

Definitions

Ontology

- 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/>

Definitions

Ontology relationship examples

- Broader/narrower types examples
 - Is located in/contains
 - Is comprised of parts/is a part of
 - Associative types examples
 - Is purchased by/is sold to
 - Is a member of/has members of
- An ontology is not just for indexing. It is often an end itself in representing a domain of information.

Definitions

Summary of definitions

Synonym Ring

+ *preferred terms*

= Authority file (*or controlled vocabulary*)

+ *broader/narrower terms*

= Taxonomy

+ *related terms*

= Thesaurus

-- *Fred Leise*

Outline

1. Applications of Taxonomies
2. **Definitions**
3. Creating & Wording of Terms
4. Non-preferred Terms
5. Term Relationships
6. Software
7. Implementation & Maintenance
8. Resources

Applications of Taxonomies & Thesauri

1. Indexing support (and secondarily, retrieval)
2. Retrieval support
 - Retrieval support with facets
3. Organization and navigation support

Applications: Indexing support

List of agreed-upon terms as index entries for indexing multiple documents and/or by multiple indexers to ensure consistency

- For: periodical articles, database records, multi-volume works, encyclopedias, web pages
- Called: controlled vocabulary, thesaurus, authority file
- Format: print or electronic

Applications: Indexing support

Examples database index thesauri

- Library of Congress Subject Headings (LCSH)
<http://authorities.loc.gov>
- Library of Congress Graphic Materials (images)
<http://lcweb2.loc.gov/pp/tgmiquery.html>
- Medical Subject Headings (MeSH)
<http://www.nlm.nih.gov/mesh/MBrowser.html>
- Maternal and Child Healthcare Thesaurus
<http://www.mchthesaurus.info/thesaurus/home.htm>

Applications: Retrieval support

Mapping-table of terms and their synonyms or equivalents to aid online retrieval

- For: on-site search engines, online databases, online yellow pages, enterprise search
- Called: controlled vocabulary, synonym ring
- Format: electronic
- Usually for automatic “indexing”

Applications: Retrieval support

Examples of online search taxonomies

- Verizon Superpages
<http://www.superpages.com/yellowpages>
- Amazon.com book subject categories
<http://www.amazon.com/gp/homepage.html>

Applications: Retrieval support: Facets

Multiple term lists of different types, also called facets (i.e. people, places, events, products, laws, etc.), for the user to search on in combination

- For: online databases, e-commerce sites
- Called: faceted taxonomy, faceted browse
- Format: electronic
- Depending on length, may or may not make use of synonyms; may or may not have hierarchies

Applications: Retrieval support: Facets

Examples of faceted taxonomies

- Microbial Life Educational Resources
<http://serc.carleton.edu/microbelife/resources/index.html>
- Shoebuy.com - advanced search
http://www.shoebuy.com/s.jsp/r_as

Applications: Retrieval support: Facets

Facets for enterprise taxonomies:

Patrick Lambe,

Organising Knowledge

- *People and organizations*
- *Things and parts of things*
- *Activity cycles*
- *Locations*

Facets for Web sites:

Rosenfeld and Morville,
Information Architecture

- *Topic*
- *Product*
- *Document type*
- *Audience*
- *Geography*
- *Price*

Applications: Organization/navigation support

Hierarchical categorization/classification systems for information organization

- For: web site structural design, online information services, intranet content organization, corporate content management
- Called: web site taxonomy, enterprise taxonomy
- Format: electronic
- Emphasis on classification and guided user search; hierarchical rather than A-Z

Applications: Organization/navigation support

Examples of web site taxonomies

- Digital Web Magazine topics
<http://www.digital-web.com/topics>
- Information Architecture Institute
<http://iainstitute.org/en/site-map.php>
- MyFlorida.com State of Florida site map
<http://www.myflorida.com/taxonomy>

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Creating & Wording of Terms

Variously Called:

- Terms ➤ generic, common designation
- Nodes ➤ in hierarchical “trees”
- Concepts ➤ term + synonyms, attributes, relationships, etc.
- Objects ➤ same as concept, in object-oriented databases
- Descriptors ➤ preferred term, excludes non-preferred
- Preferred terms ➤ excludes non-preferred terms
- Topics ➤ preferred term, not a named entity

Creating & Wording of Terms

Deciding whether a concept should be a term

1. Is it within the subject-area scope of the taxonomy?
2. Is it important and likely to be looked up?
3. Is there enough information on the topic?
(Current documents and *anticipated* documents or articles on the topic)
4. Do users want and expect it?

Creating & Wording of Terms

Choosing the “preferred” term

- Choosing between two synonyms:
 - **Doctors** vs. **Physicians**
 - **Movies** vs. **Motion pictures**
 - **Cars** vs. **Automobiles**

Consider:

1. Wording of terms most likely looked up by the intended users/audience, especially in browsed taxonomy
2. Enforcing organizational/enterprise controlled vocabulary
3. Conforming to academic or educational standards
4. Consistency in style throughout the taxonomy
5. Wording with in the documents/content indexed

Creating & Wording of Terms

Term format issues

- Lower case or initial caps; not title caps
- Single words or multi-word phrases
- Nouns or noun phrases
- Common nouns or proper nouns
- Adjectives alone can be terms in special circumstances and where noun is obvious from context.
- Countable nouns are usually plural.
- Parenthetical qualifiers may be used for disambiguation, not modification.
- Avoid term inversions.

Creating & Wording of Terms

Pre-coordination vs. Post-coordination

- Pre-coordination: creation of relatively specific, compound modified terms
Example: **Hispanic writers**
- Post-coordination: leaving terms as simpler and broader, assuming that they will be combined by the user in searching
Example: **Hispanics AND Writers**

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Non-preferred Terms

- Terms for which a designated preferred term should be used instead.
- Have various designations:
 - Variants
 - Non-preferred terms
 - Non-postable terms
 - NPT
 - Nondescriptors
 - Equivalent terms
 - Equivalency relationship
 - Used for terms
 - Use for terms
 - See references
 - Use references
 - Cross-references
 - Synonyms
 - Aliases
 - Keywords

Non-preferred Terms

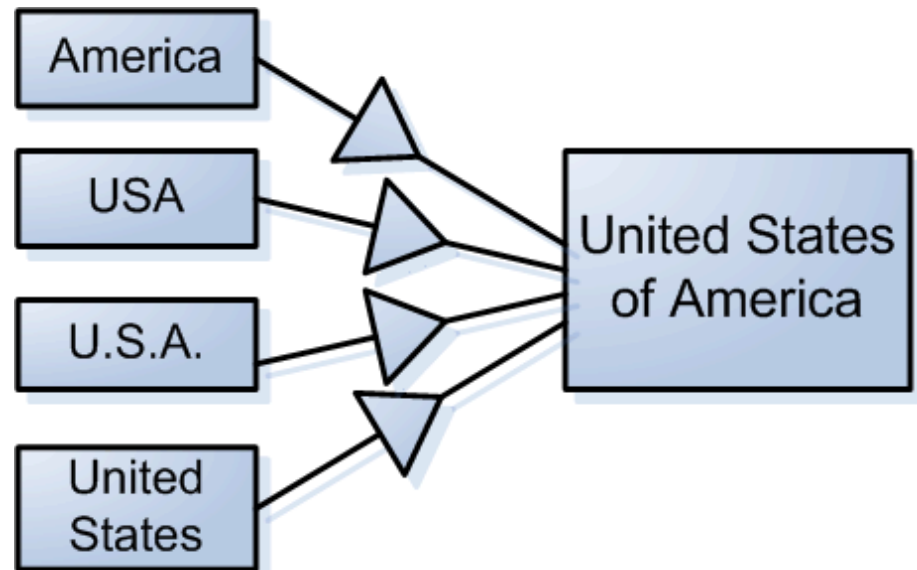
Types include:

- synonyms: **Cars** USE **Automobiles**
- near-synonyms: **Junior high** USE **Middle school**
- variant spellings: **Defence** USE **Defense**
- lexical variants: **Hair loss** USE **Baldness**
- foreign language terms: **Luftwaffe** USE **German Air Force**
- acronyms/spelled out forms: **UN** USE **United Nations**
- scientific/technical names: **Neoplasms** USE **Cancer**
- phrase variations (in print): **Buses, school** USE **School buses**
- antonyms: **Misbehavior** USE **Behavior**
- narrower terms and instances that are not preferred terms: **Power hand drills** USE **Power plants**

Non-preferred Terms

Depending on the search/retrieval system, often a non-preferred term may point to only one preferred term. No “multiple USE” references

Many-to-one,
not one-to-many



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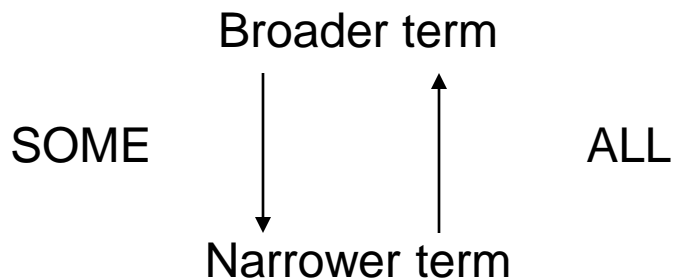
Creating Term Relationships

1. Broader term (BT) / Narrower term (NT)
2. Related term (RT)
3. More specific types of BT/NT or RT
(in ontologies)

Relationships are reciprocal between terms.

Broader/Narrower Relationships

Asymmetrical reciprocal relationships



Fruits NT **Apples** **Apples** BT **Fruits**

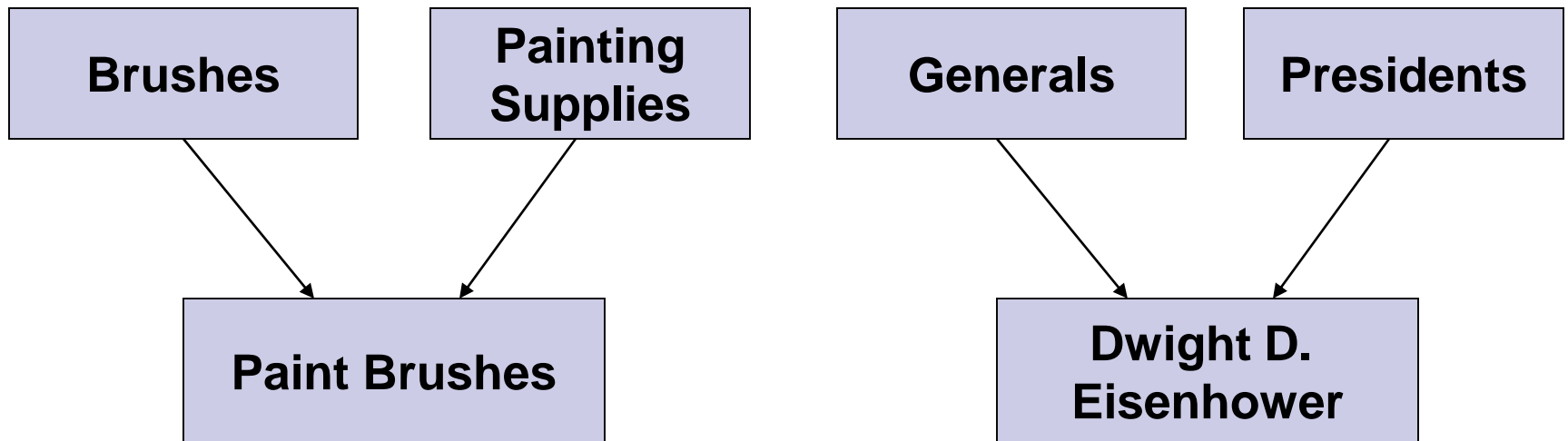
Three types:

1. Generic - Specific
2. Common noun - Proper noun (instance)
3. Whole - Part

Broader/Narrower Relationships

Polyhierarchies

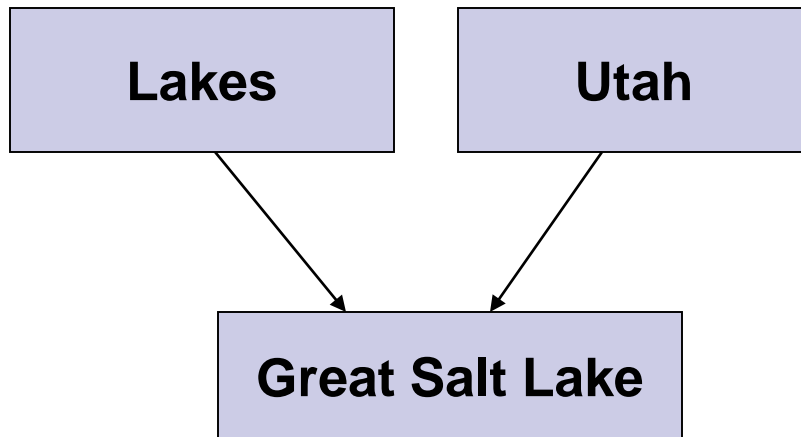
Sometimes a term can have two or more broader terms.



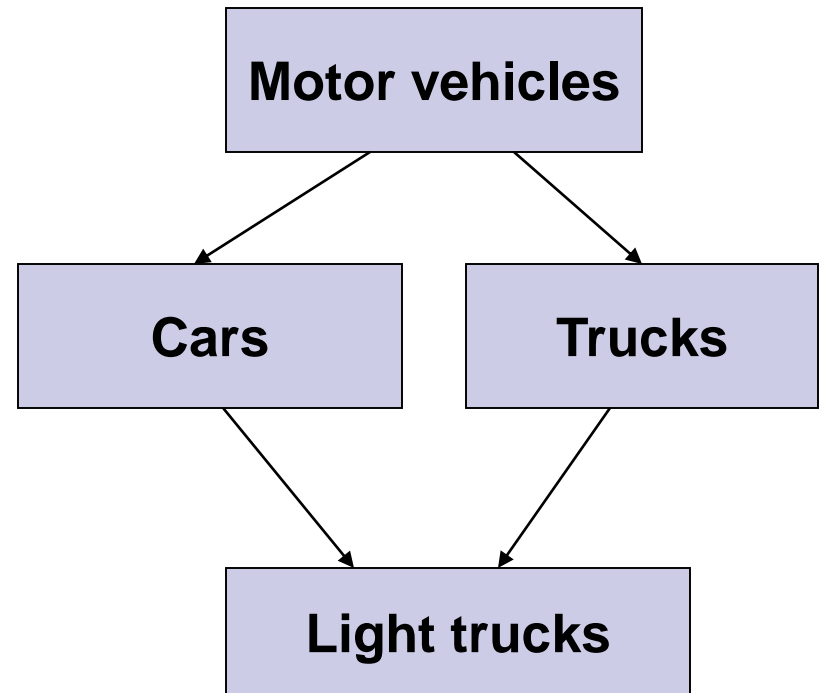
Broader/Narrower Relationships

Polyhierarchies

- Based on different means of categorizing:



- Based on generic relationship:



Associated Term Relationships

- Suggestions to the user of possible related terms of interest
- Not used in simple hierarchical taxonomies
- Required feature of standard thesauri
- Standard designation of RT
- Default is symmetrically bi-directional relationship
- Between terms within the same hierarchy or in different hierarchies
- Called:
 - Related terms
 - Associated terms
 - See also

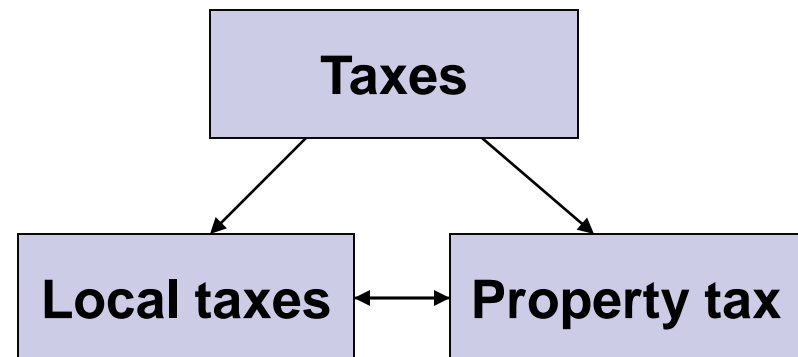
Associated Term Relationships

Between terms within the same hierarchy

1. Having a shared broader term (siblings) and overlapping meaning

Required RT links, according to the standards

Example:



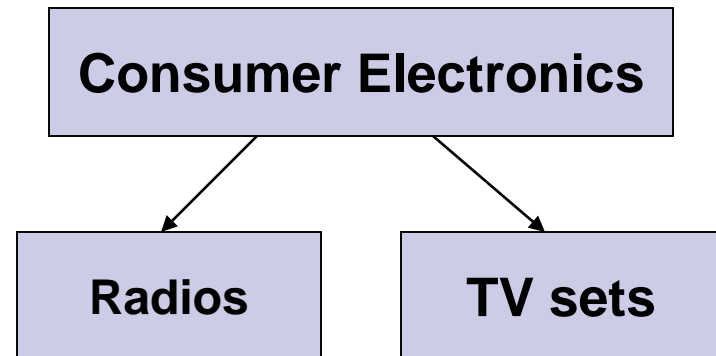
Associated Term Relationships

Between terms within the same hierarchy

2. Siblings *without* overlapping meaning (mutually exclusive terms)

Optional, and usually not done.
Not incorrect, but better left out.

Example:



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Software

Software tools for creating and editing taxonomies and thesauri

- Taxonomies, thesaurus, or controlled vocabulary: the same software is used
- Simple controlled vocabulary (synonym ring) or simple hierarchical taxonomy could be created on paper (or Word or Excel), but combined features of UF, RT, BT/NT, and scope notes, attributes etc., require special software to maintain.
- Originally in-house developed mainframe computer programs

Software

- Spreadsheet software (Excel)
- Thesaurus software: Single-user Windows PC desktop software
- Thesaurus software: Larger-scale, multi-user client-server or Web-based systems
- Taxonomy creation & editing module of a search/indexing system
- “Home-grown” programs developed in-house in large organizations

Software

Thesaurus software should:

- Maintain terms and their relationships (UF, BT/NT,RT)
 - As reciprocals
 - When renaming, merging, subsuming, or deleting terms
- Disallow invalid relationships (according to standards)
- Create scope notes and attributes for terms
- Support candidate and approved terms; include term creation and update dates
- Generate reports in various thesaurus display formats
- Export data in format for importing into a content indexing/search/retrieval system

Software

Single-user Windows desktop software (may also have multi-user versions):

- MultiTes Pro www.multites.com
- WebChoir TCS-10 Personal www.webchoir.com
- Term Tree 2000 www.termtree.com.au
- TheW32 (freeware)
<http://publish.uwo.ca/~craven/freeware.htm>

Other tools have come and gone:

<http://www.willpowerinfo.co.uk/thessoft.htm>

Search term: [ESC] Clear [Enter] Search

Term	Status	Flag	Relationships	Notes	Categories	Translation
Gikuyu	A		ASSOC(2), BT(1)	-	Thing	ENG
Giza	A		BT(1)	-	Place	ENG
Globalization	A		BT(1)	-	Thing	ENG
Goans	A		BT(1)	-	Person	ENG
Golan Heights	A		BT(2)	-	Place	ENG
Gonds	A		BT(1)	-	Person	ENG
Government agencies	A		USE(1)	-	Thing	ENG
Government agency directors	A		ASSOC(1), BT(1)	-	Person	ENG
Government agency staff	A		BT(1)	-	Person	ENG
Government bodies & agencies	A		ASSOC(2), BT(2), IN(1), NT(6), UF(3)	-	Organization, Th	ENG
Governmental agencies	A		USE(1)	-		ENG
Governmental bodies	A		USE(1)	-		ENG
Governors (state)	A		BT(1)	-		ENG
Greece	A		ASSOC(3)	-		ENG
Greek	A		ASSOC(2)	-		ENG
Greek Catholics	A		BT(1)	-		ENG
Greek Orthodox	A		USE(1)	-		ENG
Greeks	A		ASSOC(2)	-		ENG
Greenland	A		BT(1)	-		ENG
Grenada	A		ASSOC(1)	-		ENG
Grenade attacks	A		BT(2)	-		ENG
Grenadians	A		ASSOC(1)	-		ENG
Ground force offenses	A		BT(1)	-		ENG
Guangxi Zhuang	A		ASSOC(2)	-		ENG
Guarani	A		ASSOC(3)	-		ENG
Guatemala	A		ASSOC(1)	-		ENG
Guatemalans	A		ASSOC(1)	-		ENG
Guest workers	A		USE(1)	-		ENG
Guinea	A		ASSOC(3)	-		ENG
Guinea-Bissau	A		ASSOC(1)	-		ENG
Guinea-Bissauans	A		ASSOC(1)	-		ENG
Guineans	A		ASSOC(2)	-		ENG
Gujarati	A		ASSOC(2)	-		ENG
Gujaratis	A		ASSOC(1)	-		ENG
Gutierrez, Carlos	A		ASSOC(1)	-		ENG
Guyana	A		ASSOC(1)	-		ENG
Guyanese	A		ASSOC(1)	-		ENG
Gypsies	A		USE(1)	-		ENG

Government bodies & agencies

Clipboard Edit Print Window


Record Details Multilevel Hierarchy 2-way Hierarchy Edit

Government bodies & agencies

- General
- Classification
 - FT: Organization
 - FT: Thing
- Notes
- Relationships
 - UF: Government agencies
 - UF: Governmental agencies
 - UF: Governmental bodies
 - BT: Organizations
 - BT: Politics & Government
 - NT: Courts
 - NT: Embassies
 - NT: Intelligence agencies
 - NT: Legislative bodies
 - NT: National armed forces
 - NT: U.S. federal departments & agencies
 - ASSOC: Government agency directors
 - ASSOC: International governmental organizations


Stay on top

ENG



Search

- CENTRAL VALLEY
 - dfssssdf
 - Fresno (County)
 - Kern (County)
 - Kings (County)
 - Madera (County)
 - Merced (County)
 - San Joaquin (County)
 - Stanislaus (County)
 - Tulare (County)
- NORTH COAST
 - Lake (County)
 - Mendocino (County)
 - Napa (County)
 - Sonoma (County)
- SIERRA FOOTHILLS
 - Amador (County)
 - Ione (City)
 - Greenstone Winery (Winery)
 - Jackson Valley Vineyard (Winery)
 - Plymouth (City)
 - Amador Foothill Winery (Winery)
 - Karly Wines (Winery)
 - Montevina Wines (Winery)**
 - Santino Winery (Winery)
 - Shenandoah Vineyards (Winery)
 - Sobon Estate (Winery)
 - Story Vineyard (Winery)
 - Sutter Creek (City)

Website: 

And: Broader Term Category

Or: UF RT Translation

Language:

Montevina Wines (Winery) (193)

Terms:

Montevina Wines (Winery) (preferred)

Hierarchy Code: CR

Hierarchy Position:

[California Regions](#)

.... [SIERRA FOOTHILLS](#)

..... [Amador \(County\)](#)

..... [Plymouth \(City\)](#)

..... [Montevina Wines \(Winery\)](#)

Stage: Approved

Status: Main Term

Children Order: By Alphabet

BT Type: BT

Related Terms:

[Barbera \(GV\)](#) (RT)

[Sangiovese \(GV\)](#) (RT)

[White Zinfandel \(GV\)](#) (RT)

[Zinfandel \(GV\)](#) (RT)

URL:

<http://www.montevina.com/>

Location:

Selected: Butter

Concatenations for Butter [1] Food+Dairy+Butter

- [-] Apple
 - Granny Smith
 - Jonathon
 - Macintosh
- Barley
- [-] Breads
- Brie
- [-] Butter
 - Whipped Butter
 - Butter Fat
 - Buttermilk
 - Cantelope
- [-] Cheese
 - Brie
- Chicken Breasts
- [-] Dairy
 - [-] Butter
 - Whipped Butter
 - [-] Cheese
 - Brie
 - Yogurt
- [-] Food
 - [+] Dairy
 - [+] Fruit
 - [+] Grains
 - [+] Meat
 - [+] Vegetables
- [+] Fruit
- [+] Grains

Broader Term [1]

Dairy

Butter

Narrower Term [1]

Whipped Butter

Related Term [1]

Buttermilk

Use for [1]

Butter Fat

Supersedes [0]

Scope Note

Arial 9 B / U [List Icons] [Color Icon]

An oily substance obtained from cream by churning.

Reference

- www.fred.com/aaa/cxx...
- www.termtree.com.au

Class

Dairy Industry

Code

Export
Import

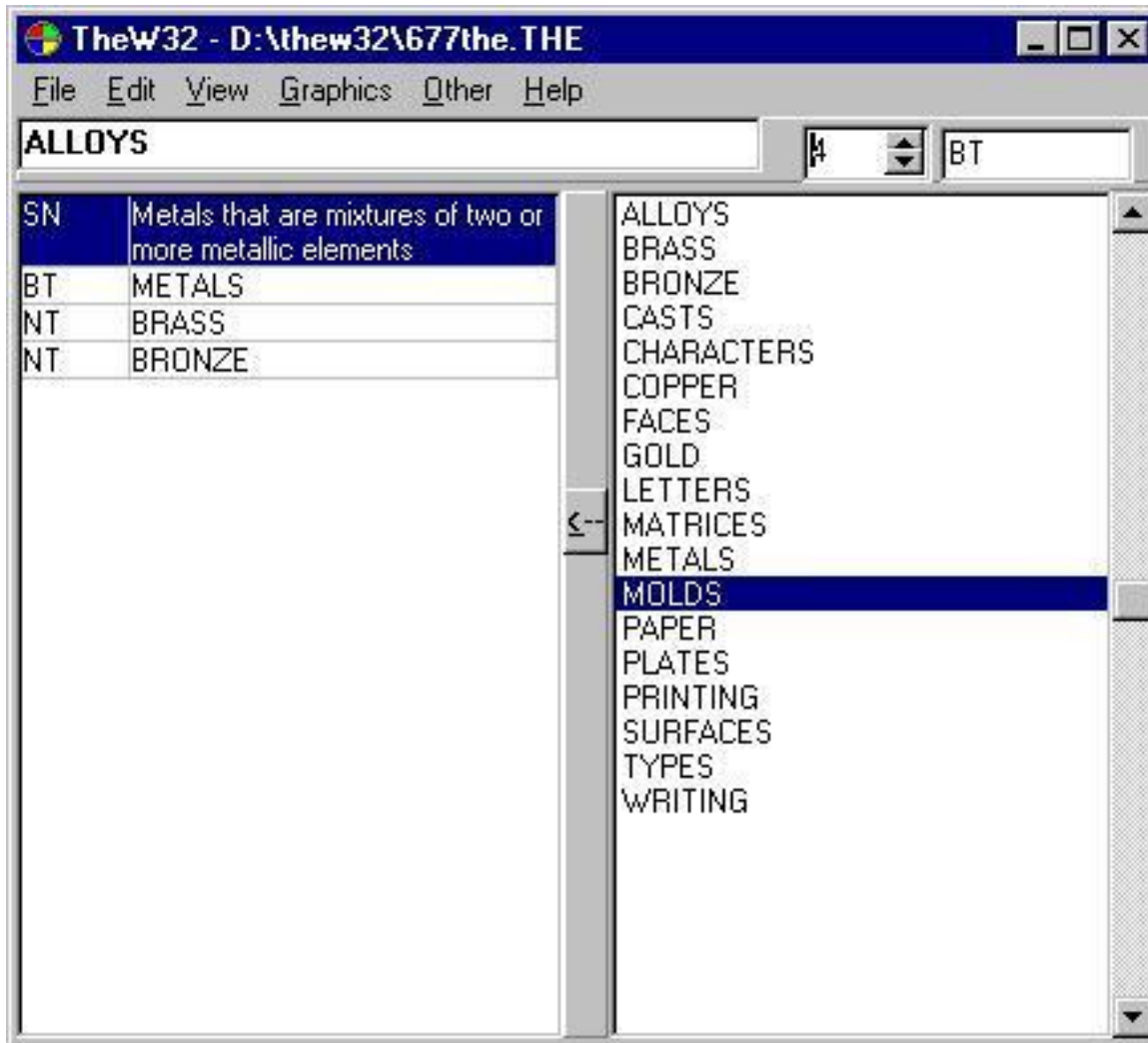
Date Created

6/9/1995

Date Modified

10/26/2003

TheW32 interface



Software

Large-scale multi-user client-server systems (Windows or Web):

- Data Harmony (Access Innovations)
www.dataharmony.com
- Synaptica (Dow Jones) www.synaptica.com
- Wordmap (Wordmap Inc.) www.wordmap.com
- ConceptChoir (WebChoir Inc.) www.webchoir.com
- STAR/Thesaurus (Cuadra Associates)
www.cuadra.com
- a.k.a. (Synercon Management Consultants)
www.a-k-a.com.au

- Business and finance
- Community life
- Government and politics
- Health and wellness
 - Health sciences
 - Allied health sciences
 - Alternative medicine
 - Food engineering
 - Health care
 - Health care facilities**
 - Health concerns
 - Health supplies
 - Health support services
 - Medical conditions and diseases
 - Medical patients
 - Medical prostheses
 - Medical research
 - Medicine
 - Nursing
 - Patient care
 - Physical rehabilitation
 - Public health
 - Veterinary sciences
 - Wellness
- Locations
- News
- Science and technology
- Sports

Term:

Broader Term

Health sciences

Narrower Term

Hospices

Hospitals

Mental health facilities

Nursing and retirement homes

Rehabilitation centers

Status Candidate Accepted

Related Term

Non-Preferred Term

Scope Note	Editorial Note
Facet+	NNID
History+	

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Implementation & Maintenance

Implementation of a Taxonomy

- The taxonomy/thesaurus creation tool is usually separate from the indexing program.
- Might have a combined thesaurus creation/indexing system, but usually separate from the end-use search system.
- The taxonomy is likely to need to be ported (for indexing and/or end-use searching). Consider:
 - Export format
 - Schedule and method for updates

Implementation & Maintenance

Indexing Support

- Need communication with indexers on new terms
 - Method for indexers nominate new CV terms
 - Method for taxonomist to announce new terms

- Need to maintain indexing quality and consistency
 - Conduct random indexing checking/editing
 - Are terms being overlooked (not used)?
 - Create more non-preferred terms or related-terms.
 - Are terms being misused?
 - Re-word terms or add scope notes.

Implementation & Maintenance

Taxonomy maintenance, because change happens:

- Terminology changes
- New content brings up new concepts
- Some content might get dropped
- New requirements, users, needs, trends, markets, etc. arise
- User feedback suggests improvements

Implementation & Maintenance

For maintenance, review the following:

- Newly added content sources or latest issues of periodicals
- Sections of the taxonomy covering high-change topics (politics, technology, current events)
- End-user search logs, click-trail reports
- Indexing (human or auto) to find:
 - high-use terms needing further differentiation
 - low/no-use terms that should be merged
 - identifiable indexing errors



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Resources: Books

- Aitchison, J., Gilchrist, A. & Bawden, D. (2000). *Thesaurus construction and use: a practical manual* (4th ed.). Chicago, IL: Fitzroy Dearborn.
- ANSI/NISO Z39.19 (2005) *Guidelines for Construction, Format, and Management of Monolingual Controlled Vocabularies*. Bethesda, MD: NISO Press.
- Lambe, Patrick. (2007). *Organising Knowledge: Taxonomies, Knowledge and Organisational Effectiveness*. Oxford, England: Chandos Publishing.
- Stewart, Darin L. (2008) *Building Enterprise Taxonomies*. Portland, OR: Mokita Press.

Resources: Organizations

- American Society for Indexing: Taxonomies and Controlled Vocabularies Special Interest Group
<http://www.taxonomies-sig.org>
- Information Architecture Institute
[http:// ia institute.org](http://ia institute.org)
- Special Libraries Association (SLA)
<http:// www.sla.org>
- American Society of Information Science & Technology
<http:// www.asis.org>

Resources: Discussion Groups

- **Taxonomy Community of Practice**
<http://finance.groups.yahoo.com/group/TaxoCoP>
- **Taxonomies & Controlled Vocabularies SIG, ASI**
<http://finance.groups.yahoo.com/group/taxonomies>
- **Metadatalibrarians**
<http://metadatalibrarians.monarchos.com>

Resources: Workshops, Seminars

- Taxonomy Community of Practice Webinar phone calls
 - \$50 each. Occasionally free vendor-sponsored calls.
 - Usually first Wednesday of the month, 1:00-2:00 pm EST
 - www.earley.com/TaxoCoP.asp
- "Taxonomies and Controlled Vocabularies"
Simmons College Graduate School of Library and Information Science Continuing Education Program
 - Online: 5 weeks, \$250, next session: February 2009
 - Onsite: Boston, full day, \$220, next session: Saturday, March 28, 2009
 - www.simmons.edu/gslis/continuinged/workshops
- Taxonomy Boot Camp conference
 - Information Today Inc.
 - Next: November 19-20, 2009, San Jose, CA
 - www.taxonomybootcamp.com/2009

Resources: Web Sites

- **Taxonomy Community of Practice Wikispace**, <http://taxocop.wikispaces.com>
- **Taxonomy Guide, Faculty of Information Studies, University of Toronto**
<http://plc.fis.utoronto.ca/tgdemo/default.asp>
- **Construction of Controlled Vocabularies: A Primer**
<http://www.slis.kent.edu/%7Emzeng/Z3919/index.htm>
- **Thesaurus Construction tutorial by Tim Craven**
<http://publish.uwo.ca/~craven/677/thesaur/main00.htm>
- **Willpower Information: Publications on thesaurus construction and use**
<http://www.willpowerinfo.co.uk/thesbibl.htm>
- **Taxonomy Watch Blog by Linda Farmer**, <http://taxonomy2watch.blogspot.com>
- **Earley & Associates** www.earley.com
- **Taxonomy Strategies** www.taxonomystrategies.com



Questions

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