Taxonomies, Categories, and Tags Controlled Vocabularies in WordPress and Beyond

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WordCamp Boston
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www.hedden-information.com/presentations

About Heather Hedden

- Taxonomy consultant
 - ➤ Independent (2004 present) and employed (2011 2012)
- Staff taxonomist/controlled vocabulary editor
 - Gale/Cengage Learning, Viziant, First Wind
- Instructor of online taxonomy courses
 - Independently and via Simmons College School of Library & Information Science
- Author of *The Accidental Taxonomist* (2010, 2016, Information Today, Inc.)

Outline

- 1. Categories and Tags Overview
- 2. Taxonomies and Controlled Vocabularies Intro
- 3. Taxonomies, Categories, and Tags in WordPress
- 4. Taxonomy Creation Best Practices

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Categories and Tags Overview

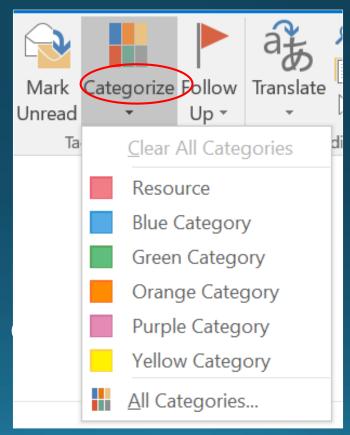
Familiarity and usage of categories and tags

Categories

Virtual (nested) folders

Tags

- Hashtags on social media posts
- Tags on images in photo-sharing stock image sites



Gmail •

COMPOSE

Inbox (28,857)

Important

Sent Mail

Drafts (10)

Spam (232)

- Categories
 - Social
 - Promotions
 - **①** Updates (1,856)
 - Forums (78)

Enterprise Knowl...

Goodsearch

Irene-BOLD (44)

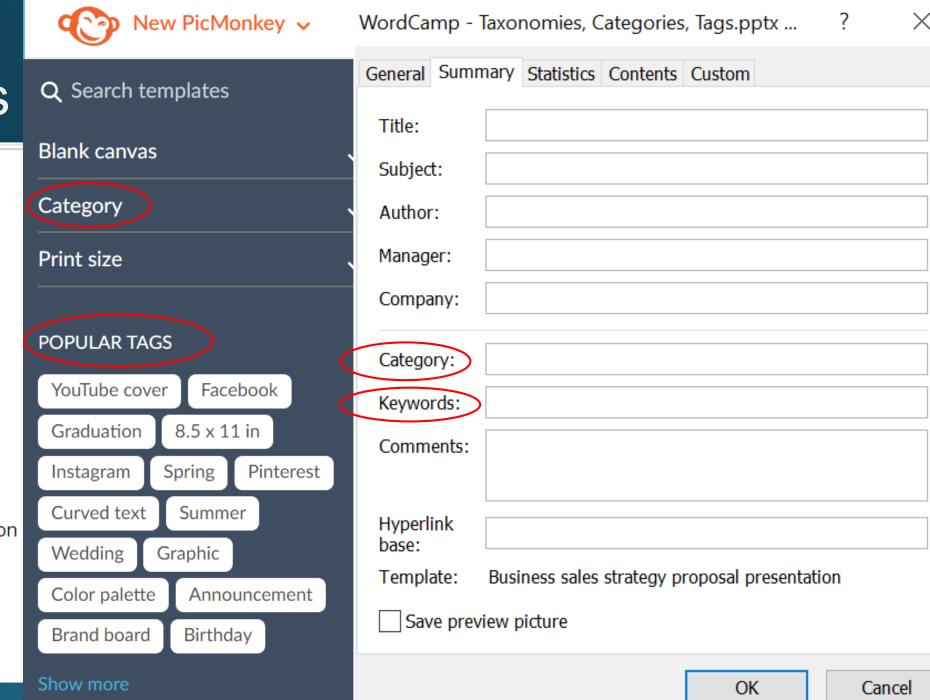
KAPS (860)

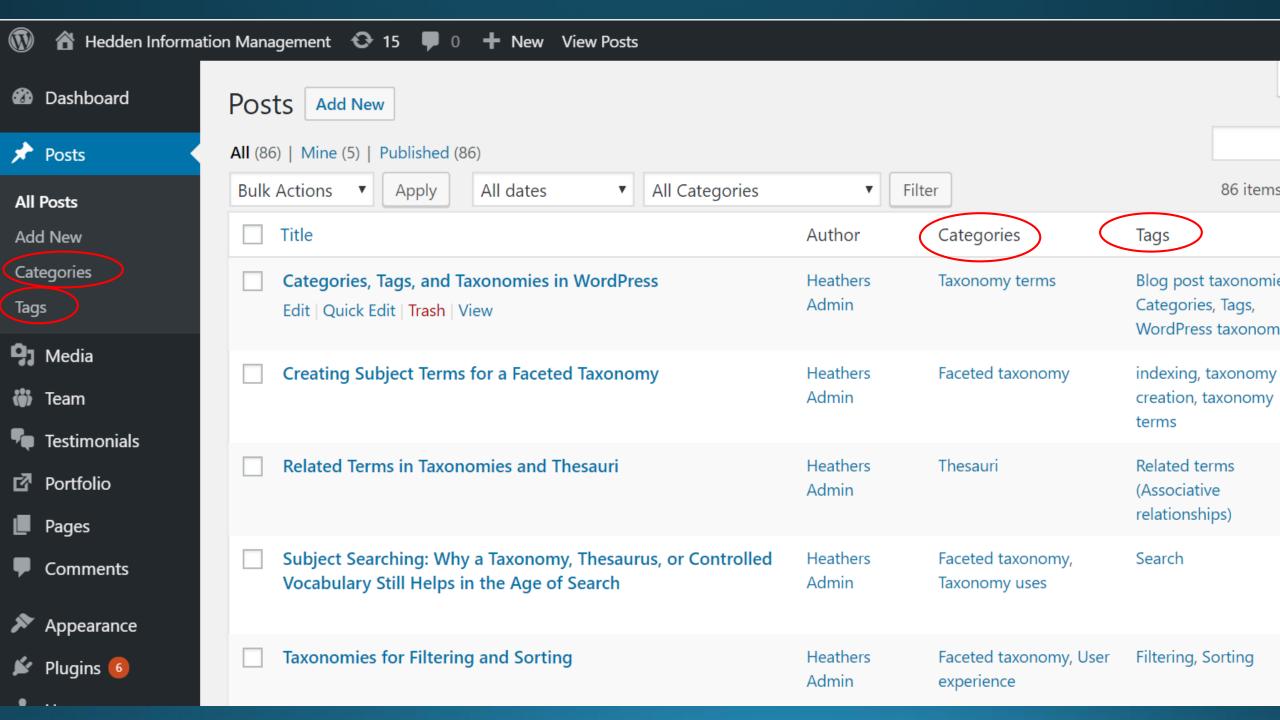
NISO

Categories

- Documents
- ► Library
- Categories
- Category Root
 - Format Type
 - Information Type
 - 🗎 Languages
 - Marketing Materials
 - Product Segment Type
 - Regions
 - Software Document Classification
 - Supporting Materials Type
 - Tags







Categories, Tags, and Taxonomies in WordPress



When I upgraded my Hedden Information Management website to WordPress a few months ago, I took advantage of WordPress's blog post feature and incorporated a copy this blog into the website (while also keeping its original location on Blogger.com). The difference between categories and tags in the different platforms became...





Creating Subject Terms for a Faceted Taxonomy



Faceted taxonomies—those that allow users to limit or filter search results by selecting terms or attributes from each of several types/aspects—are becoming increasingly common. They are easy and effective for endusers with various abilities in searching. When it comes to designing facets, some of the facets and their terms for...

Read more



Categories and Tags Overview

Categories

- 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

Tags

- What topics the content contains
- Like an index
- More specific
- More numerous
- Overlapping
- Unstructured
- Less controlled
- Ad hoc
- Supports searching

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Taxonomy definitions

- In WordPress: "grouping mechanism" comprising a set of terms, whether categories or tags
- Originally: method of arrangement, from ancient Greek τάξις (taxis), meaning "arrangement," and -νομία (-nomia), meaning "method"
- Best known: Linnaean classification of organisms
- Traditionally and typically: hierarchical arrangement of terms
- Commonly: any controlled vocabulary of terms used for indexing and retrieval (categories or tags)

Controlled vocabulary definition

- 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
- May or may not make use of synonyms, hierarchy, etc.
- A set of categories is a controlled vocabulary.
- A set of tags may or may not be a controlled vocabulary.

Types of controlled vocabularies

- Term lists / pick lists
- Synonym rings / synonyms sets / search thesauri
- Name authority files
- Taxonomies
 - Hierarchical taxonomies
 - Faceted taxonomies
- Thesauri (according to ISO and NISO standards)
- Ontologies

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
- ManagerDirector
- Executive

Taxonomy Example

Faceted

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

Taxonomy Examples

Less

Controlled Vocabularies - Complexity

More

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

Taxonomy or controlled vocabulary purpose

- Enables visitors to find content on a selected topic.
- More accurate than site search alone.
- Enables visitors to explore related topics and related content.
- Enhances user experience, user engagement.
- Supports better organization and management of content.
- Enhances SEO.
- Also in WordPress: Enables visitors to subscribe to an RSS feed on a topic.

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Default types of taxonomies in WordPress

- Category
- Tag
- Link Category
- Post Format

Option to additionally create Custom Taxonomies in WordPress

- With developer coding or with plugins
- Reason: You can only create one Category taxonomy and one Tag taxonomy, and you may want more taxonomy sets, such as for facets or custom posts.

WP Categories and Tags: similarities

- For posts, not pages (plugin: Post Tags and Categories for Pages)
- Displayed on individual posts
- Hyperlinked to a list of posts which share the same Category or Tag
- Can be used to generate Tag Clouds (optional widget)
- Multiple Categories or Tags can be assigned to a post
- Similar level of influence/non-influence on default site search
- Similarly impact on SEO

Tags

Adjective terms ANSI/NISO

Z39.19 Books on taxonomies

Broader-narrower relationships Business taxonomy Card

sorts Categories Classification
schemes Consultants Content types Digital
Asset Management Document types eCommerce
taxonomy Editorial style Filtering Folders Heuristic

evaluation Image taxonomies indexing ISO

25964 Knowledge organization systems

Mapping taxonomies Mentoring Merging taxonomies Multilingual taxonomies Multiple taxonomies Navigation NISO Ontologies Polyhierarchy

Professional associations Related terms (Associative relationships) Search Semantic

relationships SharePoint SharePoint Term

Store SKOS Sorting Stakeholder engagement

Tagging taxonomy creation Taxonomy directories taxonomy terms Text analytics Verb terms

Categories

Auto-categorization

Conferences Content

management Controlled vocabularies Enterprise taxonomy

Faceted taxonomy

Hierarchical taxonomy

Indexing Information architecture
Metadata Resources Software

Taxonomists
Taxonomy creation

Taxonomy definitions Taxonomy evaluation Taxonomy governance Taxonomy maintenance Taxonomy software

Taxonomy standards

Taxonomy style Taxonomy

terms Taxonomy testing

 ${\sf Taxonomy}\ {\sf users}\ {\sf Taxonomy}$

USES Taxonomy validating Terminology

Training Translations Trends in taxonomies Uncategorized Use cases

Category: Taxonomy terms

Categories, Tags, and Taxonomies in WordPress

🛗 June 30, 2018 🎍 Heathers Admin

When I upgraded my Hedden Information Management website to WordPress a few months ago, I took advantage of WordPress's blog post feature and incorporated a copy this blog into the website (while also

Home / The Accidental Taxonomist Blog / WordPress taxonomies

Tag: WordPress taxonomies

Categories, Tags, and Taxonomies in WordPress

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WP Categories and Tags: differences

Categories in WordPress

- Required (or else "Uncategorized")
- Can be put into hierarchies (Parents)
- Can be alphabetically browsed by visitor
- Can be filtered upon in Dashboard
- Label appears in post URL
- Label appears in breadcrumb trail

Tags in WordPress

- Not required on any post
- Cannot be put into hierarchies
- Not available as default (with plugin)
- Cannot be filtered upon
- Does not appear in post URL
- Does not appear in breadcrumb trail

① www.hedden-information.com/taxonomy-terms/ategories-tags-and-taxonomies-in-wordpress/

Hedden Information Management

Home Services Y Training Y Events Book Art

Home Taxonomy terms Categories, Tags, and Taxonomies in WordPress

Categories, Tags, and Taxonomies in WordPress

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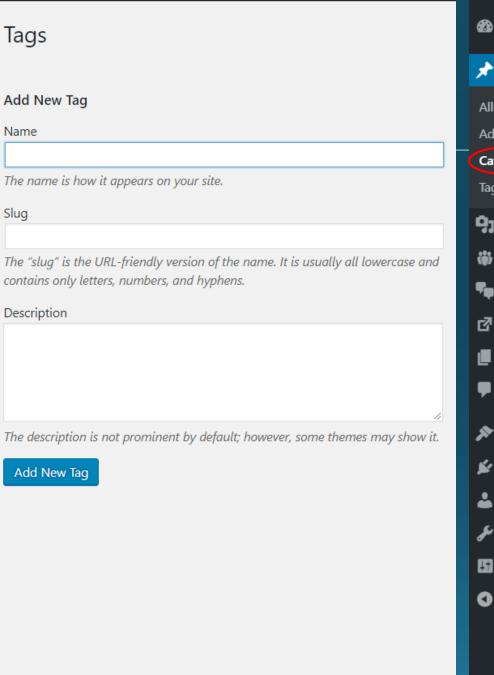
When I upgraded my Hedden Information Management website to WordPress a few months ago, I took advantage of WordPress's blog post feature and incorporated a copy this blog into the website (while also keeping its original location on Blogger.com). The difference between categories and tags in the different platforms became clear. Blogger.com offers only "labels" to its bloggers, although these are listed as "Categories" on the displayed blog. WordPress, by contrast, offers both "Categories" and "Tags." When I

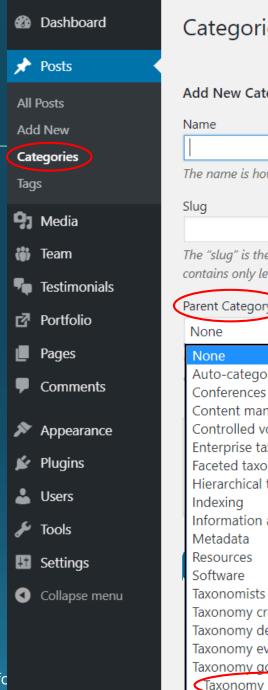
Categories and Tags in WordPress – more similarities than differences

Differences are not what you *can* do, but what you *choose* to do. Create your own taxonomy policy.

- Make Categories controlled and pre-determined, and make Tags uncontrolled, free-form (blogger can create new Tags with new posts)
- Limit the number of Categories and Tags that can be assigned per post, but allow a larger number of Tags.
- Categories provide organization of topics, and Tags supplement with additional, more specific topics.

Dashboard Tags → Posts Add New Tag All Posts Name Add New Categories Tags Slug 🖣 Media Team Testimonials Description Portfolio Pages Comments Appearance 💅 Plugins Add New Tag Users Tools Settings Collapse menu



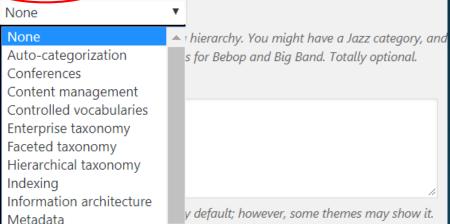


Categories

Add New Category

Name The name is how it appears on your site. Slug The "slug" is the URL-friendly version of the name. It is usually all lowercase and contains only letters, numbers, and hyphens.

Parent Category



Taxonomy creation Taxonomy definitions Taxonomy evaluation

Taxonomy governance Taxonomy maintenance

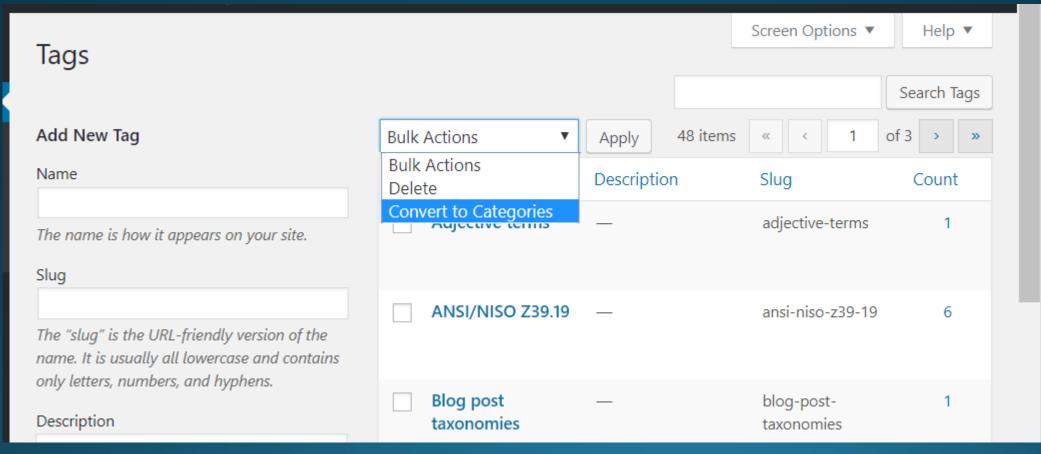
Taxonomy software

Converting between Categories and Tags

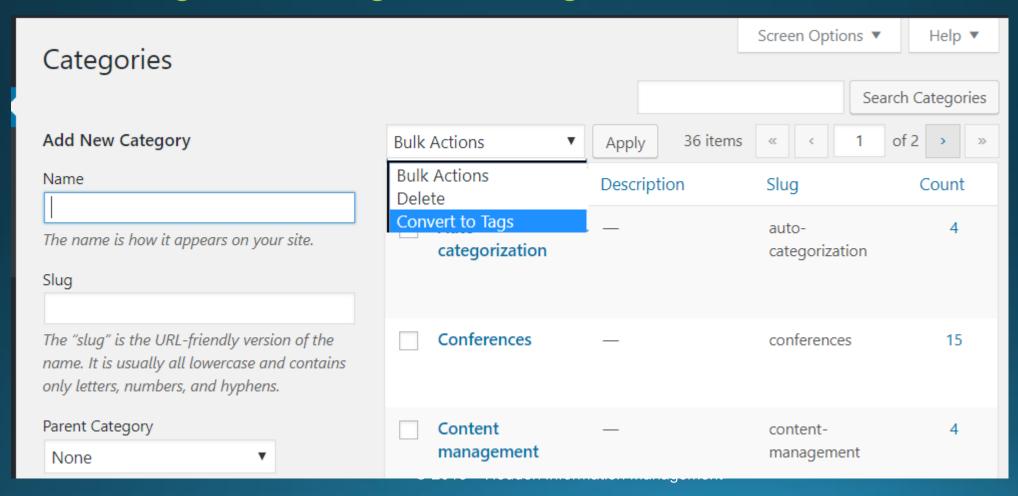
- Convert high-use Tags to Categories (which could be subcategories)
- Convert low-use Categories to Tags

Import and activate the WordPress Categories and Tags Converter tool

Converting from Tags to Categories



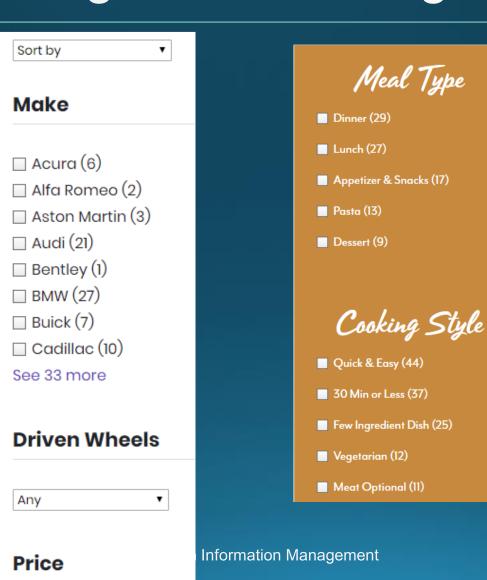
Converting from Categories to Tags

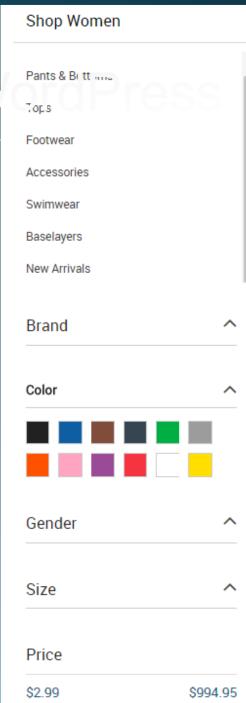


Faceted Taxonomies

- Multiple category sets / taxonomies / facets used in combination
- Posts/content items are categorized in multiple ways (terms from each facet)
- Each facet represents a different aspect (e.g. location, product type, market, owner)
- Visitors select a combination of terms from different facets to filter, limit, or refine
- Faceted taxonomies can be created in WordPress with coding or plugins.

Facet sets created with the premium plugin FacetWP





Synonyms in taxonomies

- Synonyms support search or searching for terms, when a taxonomy cannot be (easily) browsed.
- Useful for tags.
- Several WordPress search plugins support the creation of synonyms.

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Taxonomy Creation Best Practices

Labels – wording of terms

Hierarchies – creating broader/narrower term relationships

Synonyms – when to add synonyms/variants and their types

Taxonomy Creation Best Practices: Labels

Term format and style

- Consistent capitalization: lower case or initial capitalization; not title caps
 - Corporate finance; corporate finance; not Corporate Finance
- Single words or multi-word phrases
- Nouns or noun phrases
- Adjectives alone can be terms in special circumstances and where noun is obvious from context.
- Countable nouns are usually plural (especially for Categories, not always for Tags)
- Avoid term inversions (e.g. noun, adjective).

Taxonomy Creation Best Practices: Labels

Term creation tips

- Unambiguous Each term stands for an unambiguous concept
 A taxonomy is set of concepts, not a set of words.
 Possibly ambiguous (depending on context): Licenses, Examinations
 Add a modifying word to the term to clarify.
- Concise (usually 1-3 words) for quick skimming/scanning
 Employee discipline instead of Employee discipline policies
- Start the term off strong, with a "key word" for alphabetic arrangement
 Decision making instead of Making decisions
- Use the language of your users/audience/visitors
 Movies vs. Motion pictures

Structuring hierarchical relationships between terms

Reciprocal (bi-directional) relationship, yet asymmetrical

```
Broader term (parent)

SOME ALL

Narrower term (child)
```



Three types:

- 1. Generic Specific
- 2. Generic Named entity instance: Common noun Proper noun
- 3. Whole Part

Hierarchical relationships: Generic – Specific type

Category or class

- members
- more specific types

Child term "is a" or "are a kind of" parent term Dogs

- Puppies

Financial services

- Investment services

Romance languages

- Italian language

Hierarchical relationships: Generic – Instance type

Common noun

Proper noun/named entity

Child term "is a" parent term

Smartphones

- Samsung Galaxy

Rivers

- Nile

Festivals

- Oktoberfest

Hierarchical relationships: Whole – Part type

Concept or entity

- Part
- Sub-entity

Child term "is in" parent term.

An integral part that cannot be taken out.

France

- French Alps

Gastrointestinal system

- Stomach

United Nations

- United Nations General Assembly

Hierarchical relationships: Polyhierarchy

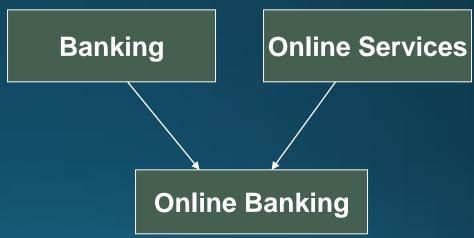
Sometimes a term may logically have more than one parent.

Banking

- Online Banking

Online Services

- Online Banking



The term *appears* repeated under more than parent, but it is the same term tagged to the same content in both places.

Taxonomy Creation Best Practices: Synonyms

Synonyms / variants / alternative labels / nonpreferred terms

- Defined: Approximately synonymous words or phrases to refer to an equivalent concept, for the context of the taxonomy and the set of content. Synonymous for any and all of that content
- Purpose: To capture different wordings of how different people might describe or look up the same concept or idea.
 - Differences between that of the author and the user/visitor
 - Differences among different users/visitors
- Used: when a taxonomy cannot be (easily) browsed: is either too large or not available (such as the set of Tags)
- Serving as "multiple entry points" to look up and retrieve the desired content.
- Enables consistent indexing/tagging

Taxonomy Creation Best Practices: Synonyms

Types include:

- synonyms: Cars / Automobiles
- quasi-synonyms: Politics / Government
- variant spellings: Taoism / Daosim; Email / E-mail
- lexical variants: Selling / Sales; Hair loss / Baldness
- foreign language names: Ivory Coast / Côte d'Ivoire
- acronyms/spelled out: GDP / Gross domestic product
- scientific/popular names: Neoplasms / Cancer
- antonyms (for characteristics): Flexibility / Rigidity
- older/current names: Near East USE Middle East
- narrower concepts not terms: Genetic engineering USE Biotechnology

Taxonomy Creation Best Practices: Synonyms

Guidelines for synonyms:

- A concept may have any number of (multiple) synonyms, or it may have only a single preferred name and no synonyms.
- A synonym points to only a single preferred term.
- Synonyms are displayed at the backend to the person assigning the tags;
 they may or may not be displayed to the end-user.
- Synonyms need to follow the same editorial style as the preferred labels.

Taxonomy Resources

Resources to develop taxonomy competencies

- Accidental Taxonomist, 2nd ed. book and website links www.hedden-information.com/accidental-taxonomist/
- Taxonomies & Controlled Vocabularies online course www.hedden-information.com/courses-workshops/taxonomy-course/
- Presentations and articles on my website <u>www.hedden-information.com/presentations</u> www.hedden-information.com/articles
- Accidental Taxonomist Blog <u>http://accidental-taxonomist.blogspot.com</u> or <u>www.hedden-information.com/the-accidental-taxonomist</u>

Questions and Answers

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