### 1 Thesauri: Introduction

A thesaurus is particular kind of controlled vocabulary

- Controlled vocabulary: anytime an input system reduces you to a fixed list of options
- There could be many reasons to limit the number of choices people have—usually it's about reducing synonymy, and reducing cognitive load for people (i.e., it's easier to browse a short list of options rather than think of the correct term)
- Example of controlled vocabulary: choose language from a dropdown list

Whereas a controlled vocabulary is usually just a flat list, in a **thesaurus** there is a hierarchical and network structure at play

- Typically a thesaurus is used for library purposes, where we need to describe in-depth many
  resources to surface their conceptual content, and make it more likely people will find all the
  resources about a particular concept, even if the authors didn't use the same term
- Example of a thesaurus: used in journal databases; "Subjects" (terms applied by professional indexer) (not author supplied keywords)

# 2 Syndetic Structure of Thesauri

3 principles for thesaurus organization:

- 1. Equivalence (synonymy; which terms are roughly the same for this purpose)
- 2. Hierarchy (some terms are more specific versions of each other)
- 3. Other relationships

Place where you can browse through a thesaurus: ERIC Thesaurus (Education Resources Information Center): on the topic of education

The default display of a thesaurus is its alphabetical list: e.g.,

```
Art History
BT Intellectual History
RT Artists
Artists
RT Art History
Intellectual History
NT Art History
```

• Note: every tie is listed at both ends of the relationship (relationships are reciprocal; e.g., because "Artists" is RT of "Art History", "Art History" is RT of "Artists")

Can be helpful when making a thesaurus to make network view

# 3 Relationships Used in Thesauri

# 3.1 Equivalence

All these terms have inclusive relationships with other terms; users would be well served by considering a term closely related to the term they're using

**Table 1: Equivalence Relationships** 

Type	Sub-type	Example	Notes
Equivalence	Equivalent Phrases	Athabaskan and Athapaskan	
	Inverted Forms	Bilingual education and Education, bilingual	Important for alphabetical order; no matter which term someone started with, they will be directed back
	Acronyms and Abbreviations	UNDRIP and UN Declaration on the Rights of Indigenous Peoples	
	Antonyms	Student Retention and Dropouts	Context-specific; whenever you are talking about one, you are talking about the other (the concept is the same, but you can express it in a positive or negative sense)

Lead-in Terms are terms that lead a person to an authorized heading

#### Athabaskan USE Athapaskan

 "Athabaskan" is lead-in term; the only time it will appear in the system is to direct you to use another term

**Upward Posting:** e.g., if there is so little content about specific term, thesaurus directs user to use more general term

### Cats USE **Animals**

 obviously these are not equivalent concepts, but in the context of the collection's scope it might be appropriate

### 3.2 Hierarchical Relationships

**Table 2: Hierarchical Relationships** 

Туре	Sub-type	Example	Notes
	Generic Relationships	Thinking NT Reasoning	A link to a more specific type (e.g., genus)
Hierarchical Relationships	Instance Relationships	English NT Germanic Languages	
	Partitive Relationships	Finger NT Hand	

In hierarchies you can have lots of depth; long strings of narrow term / broad term relationships You would never see any more together than just strict neighbours

Also might find lots of breadth: e.g., amusements: carnivals, casinos, charades, dance, etc.

# 3.3 Associative Relationships

The main difference between associative and hierarchical relationships is that the relationships are not transitive:

- Hierarchical: if bumblebees are type of bees, and bees are type of insects, bumblebees must be type of insects (transitive relationship)
- Associative: bees are related to honey, honey is related to toast, but bees not related to toast (non-transitive)

**Table 3: Associative Relationships** 

Туре	Sub-type	Example
	Operations and Instruments	Hairdressing RT Hair Driers
Accociative Polationshins	Actions and Products	Speaking RT Speech
Associative Relationships	Causal Relationships	Accidents RT Injury
	Field of Study and Objects of Study	Linguistics RT Languages
	Field of Study and Objects of Study	•

If you don't stick to this list, you'll get a lot of bloat in thesauri

One way to cut down on bloat in a thesaurus: not to make related term relationships between things that have a hierarchical relationship (e.g., Flies and Bees don't need RT, if they both lead back to Insects)

## 3.4 Explanations and Clarifications

Scope Notes: a brief note that describes how the heading is to be used

Art

SN: used to refer to the general processes and results of aesthetic expression, as opposed to more precise headings such as "art products," "visual arts," "fine arts," "Painting (Visual Arts)," etc.