



# Vocabularies

aka: controlled lists

aka: authority files



“controlled lists,  
authorities, etc.”

the car / has color / red







the dog / has breed / retriever


the book / has language / English

# simple lists

“eng” “fre” “ger” “spa”

# thesauri (structured lists)

- ☐  Top of the AAT hierarchies
- ☐  .... Objects Facet
- ☐  ..... Furnishings and Equipment (Hierarchy Name)
- ☐  ..... Tools and Equipment
- ☐  ..... equipment
- ☐  ..... <equipment by process>
- ☐  ..... <image-making equipment>
- ☐  ..... <drafting, drawing and writing equipment>
- ☐  ..... <drafting, drawing and writing equipment by general type>
- ☐  ..... <drafting, drawing and writing equipment by specific type>
- ☐  ..... <image-projecting equipment>
- ☐ ..... camera lucidas
- ☐ ..... camera obscuras
- ☐ ..... physionotrases (equipment)
- ☐ ..... screens (projection)
- ☐  ..... <ink and paint preparation tools>
- ☐ ..... ball mills
- ☐ ..... mullers (ink and paint preparation tools)
- ☐  ..... spatulas (artists' tools)



# “Simple Knowledge Organization System” (SKOS)

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Every term needs an identifier



# “Simple Knowledge Organization System” (SKOS)

Every term needs an identifier

<http://id.loc.gov/authorities/genreForms/gf2011026743>

<http://id.loc.gov/authorities/genreForms/gf2011026699>



# “Simple Knowledge Organization System” (SKOS)

Every term needs a  
human-readable display

<http://id.loc.gov/authorities/genreForms/gf2011026743>

Label: World Maps

<http://id.loc.gov/authorities/genreForms/gf2011026699>

Label: Tourist maps

# “Simple Knowledge Organization System” (SKOS)

Broader term

Preferred label

Narrower term

Alternate label

Related term

Hidden label



lang="en"

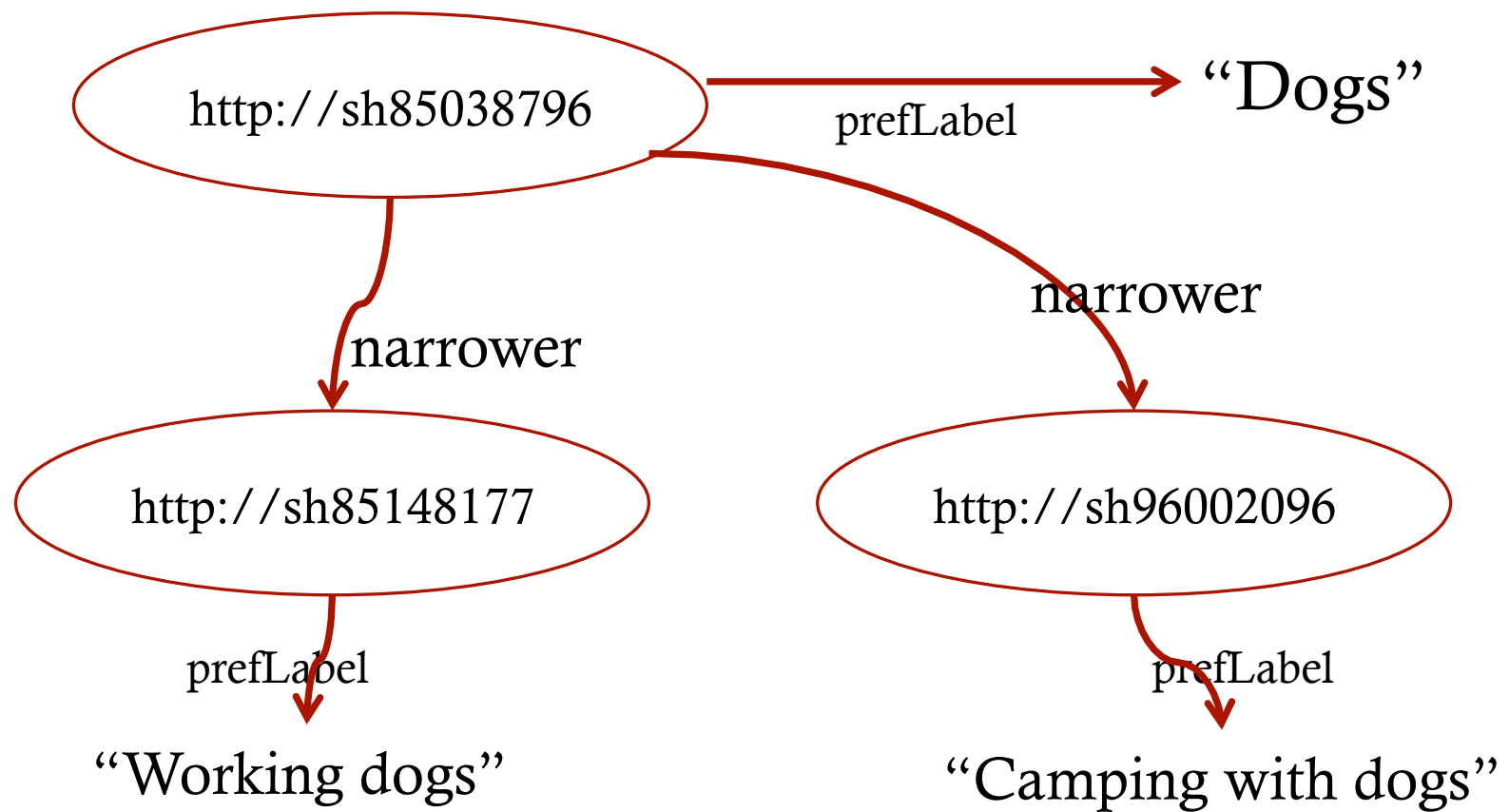
lang="sp"

# Preferred and alternate labels in more than one language

<http://id.loc.gov/authorities/subjects/sh85038796>

```
prefLabel lang="en" / Dog
prefLabel lang="sp" / Perro
altLabel lang="en" / Canine
altlabel lang="sp" / Canino
```

# Relationships



# Some vocabularies

- People:
  - Virtual international authority file (VIAF)
  - New York Times data
  - Wikipedia/dbpedia
  - Open Library
  - VIVO (academic content producers)

# Some vocabularies

- Places
  - Geonames
  - AGROVOC
  - Wikipedia/dbpedia
  - Library of Congress Subject Headings (and other library thesauri)

# Some vocabularies

- Science
  - BBC Wildlife taxonomy
  - AGROVOC
  - Linked Open Numbers
  - GeoSpecies
- Art
  - Linked Open Colors
  - Europeana
- Government
  - GD – Government Data
  - Parliament ontology

# Some vocabularies


- Media
  - Sports ontology
  - Nature publishing group ontology
  - Press.net ontology
- Market
  - Car options ontology
  - Food ontology
  - Product ontology



# Exercise: Linked Dewey



- This is a dog named Dewey.
  - Dewey is a golden retriever.
  - Dewey is 9 years old.
  - Dewey's birthday is 12-25
  - Dewey was born in 2003
- 
- Dewey lives in Berkeley.
  - Berkeley is in California.
  - The University of California is in Berkeley



kc:Dewey > foaf:name > “Dewey”  
kc:Dewey > fb:dog\_breed > loc:sh85055759  
kc:Dewey > foaf:age > “9”  
kc:Dewey > foaf:birthday > “12-25”  
kc:Dewey > bio:Birth > “2003” or “2003-12-25”

kc:Dewey > vc:locality > geo:5327684  
geo:5327684 > vc:locality > geo:5332921  
<http://www.berkeley.edu> > vc:locality > geo:5327684



# End

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<http://kcoyle.net>

<http://kcoyle.net/presentations/links.html>