

Requirements general case

SKOS Vocabulary concepts:

- Every type, subtype in the taxonomy is a *skos:Concept*. It is *skos:inScheme* in the SKOS scheme uri (needs to be specified).
- Every top level concept is the object of *skos:hasTopConcept* and *skos:topConceptOf* (?).
- Semantic relations: For the hierarchy we generate *skos:broader* and *skos:narrower* among the concepts (we do not consider *skos:broaderTransitive* or *skos:narrowerTransitive*). We can also have associative relations between two terms *skos:related*, if A *skos:related* to B then B *skos:related* A (symmetric property).
- Lexical labels: *skos:prefLabel*, *skos:altLabel*, *skos:hiddenLabel*. Range is RDF literal. Can be in one of several languages. Only one value for *skos:prefLabel* but may have several values for *skos:altLabel*, *skos:hiddenLabel* (this would be more complex to specify?) Will we consider SKOS-XL for labels or is it future work?
- *skos:notation* (other classification systems). Range is a typed literal. There may be multiple notations. Can define own datatype for a notation scheme. (This is not a requirement for Lynx).
- Documentation properties: *skos:note*, *skos:changeNote*, *skos:definition*, *skos:editorialNote*, *skos:example*, *skos:historyNote*, *skos:scopeNote*. Can be in different languages although the range are not only RDF literals but the class of RDF resources.
- SKOS Concept Collections would not be a requirement.
- Mapping properties: *skos:closeMatch*, *skos:exactMatch*, *skos:broadMatch*, *skos:narrowMatch*, *skos:relatedMatch* to relate concepts in different concept schemes.