Proposed Ideas for DFT IG

Ahmed Eleish
RDA USA Fellow 2016
Simple Knowledge Organization System (SKOS)

- Terms as concepts
- Concept metadata
- Concept hierarchy
- Concept schemes and mapping concepts
- Collections of concepts
DFT Data terminology in SKOS

- Terms become instances of skos:Concept
- Metadata stored using skos:definition, skos:example, and skos:scopeNote, etc.
- Optionally define concept collections
- Optionally define hierarchical relationships using skos:broader, skos:narrower
Mapping across vocabularies

- Terms with ‘similar meanings’, synonyms across dialects, etc.
- Vocabularies/terminologies are concept schemes
- Concepts linked using skos:closeMatch and skos:exactMatch
- Natural Language Processing techniques to establish similarity
Potential Applications Natural Language Processing

- Similarity between terms
- Analytics on usage of terms
- Grouping/clustering of concepts
- Based on a corpus of text (scientific publications, etc.)
Vocabulary service

- Host data terminology as a service
- Provides persistence and access
- Possibly multiple vocabularies
- In collaboration with VSIG?
Intro to SKOS

W3C SKOS Primer https://www.w3.org/TR/2009/NOTE-skos-primer-20090818/


Concise intro by Dataversity http://www.dataversity.net/introduction-to-skos/