

KOS

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1 Exercises – SKOS

The exercises are targeted to practice browsing and creating controlled vocabularies based on SKOS. Although it is possible to create SKOS based vocabularies within plain Protege 4, it is rather cumbersome. Therefore, before you start, please install SKOSed Protege 4 plugin according to installation guide from section 3.

Ex. 1 — Create simple thesaurus based on SKOS vocabulary consisting of at least 5 terms that would be useful to run web pages of some ZOO. Requirements of the ZOO web application are browsing concrete animals located in ZOO (as in <https://www.zoopraha.cz/en/animals/come-and-meet>) as well as showing information about their species. The thesaurus does not need to be covering whole domain. Use SKOS vocabulary to describe your thesaurus terms (e.g. `skos:broader/skos:narrower`, `skos:related`, `skos:prefLabel`, `skos:altLabel`, `skos:definition`, `skos:example`, `skos:inScheme`).

Ex. 2 — Search within Schools Online Thesaurus (ScOT) (see section 2) for related terms that can be used in ZOO application for description of animal species. Extend you vocabulary with relevant top-level terms and map terms in ScOT thesaurus using SKOS vocabulary (e.g. `skos:exactMatch`, `skos:closeMatch`, `skos:broadMatch`, `skos:relatedMatch`)

2 References for exercises

Schools Online Thesaurus (ScOT) :

- search of thesaurus terms – <http://scot.curriculum.edu.au/>, after navigation to some term page the relevant skos fragment of the term can be downloaded RDF/XML format.
- nice visualization of the thesaurus – <http://vocabularyserver.com/visualvocabulary/index.php>
- whole thesaurus download – <http://vocabulary.curriculum.edu.au/>

3 Installation of SKOSed plugin for Protege 4

- Download and install Protege 4.0.2 from <http://protege.stanford.edu/download/protege/4.0>
- Download SKOSed plugin for Protege 4.0 from <https://code.google.com/p/skoseditor/downloads>
- Copy downloaded jar file of the plugin (possibly need to unpack it from zip file) and copy it to “plugins” directory of Protege 4.0 installation directory (e.g. /Protege.4.0.2/plugins).
- Start Protege 4.0 and add new “SKOS view tab” by enabling “Window/Tabs/SKOS view“
- Additional links :
 - Protege 4 installation guide – <http://protegewiki.stanford.edu/wiki/Protege4GettingStarted>
 - SKOSed installation guide – <https://code.google.com/p/skoseditor/wiki/Installation>

4 Example thesauri for use with cultural tourism domain

- Cultura Italia Thesaurus – http://www.culturaitalia.it/pico/thesaurus/4.3/thesaurus_4.3.0.skos.xml
- Schools Online Thesaurus (ScOT) – <http://scot.curriculum.edu.au/>

5 SKOS dataset lists

- <http://www.w3.org/2001/sw/wiki/SKOS/Datasets>
- <http://datahub.io/dataset?q=format-skos>