

Ontology Metadata in Protégé

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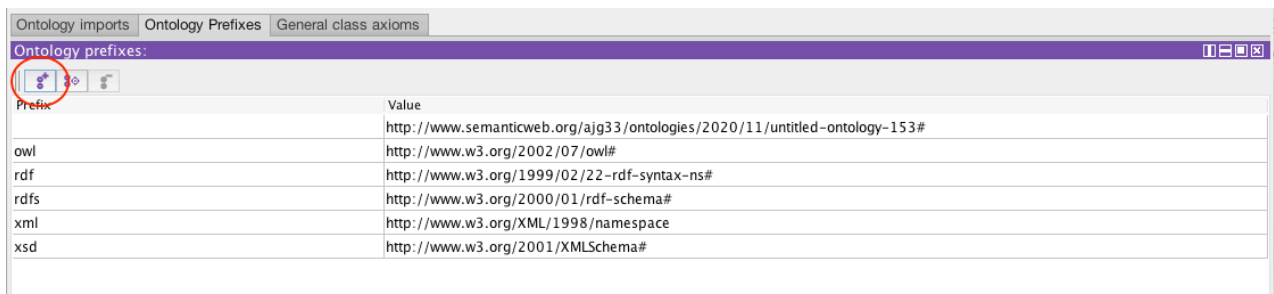
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Overview

In this tutorial we will use the Dublin Core Terms vocabulary ([dctterms](#)) to document our ontology.

Declare `dctterms` Prefix

In the 'Ontology Prefixes' tab, click on the 'Add prefix mapping' icon (circled in the screenshot below).

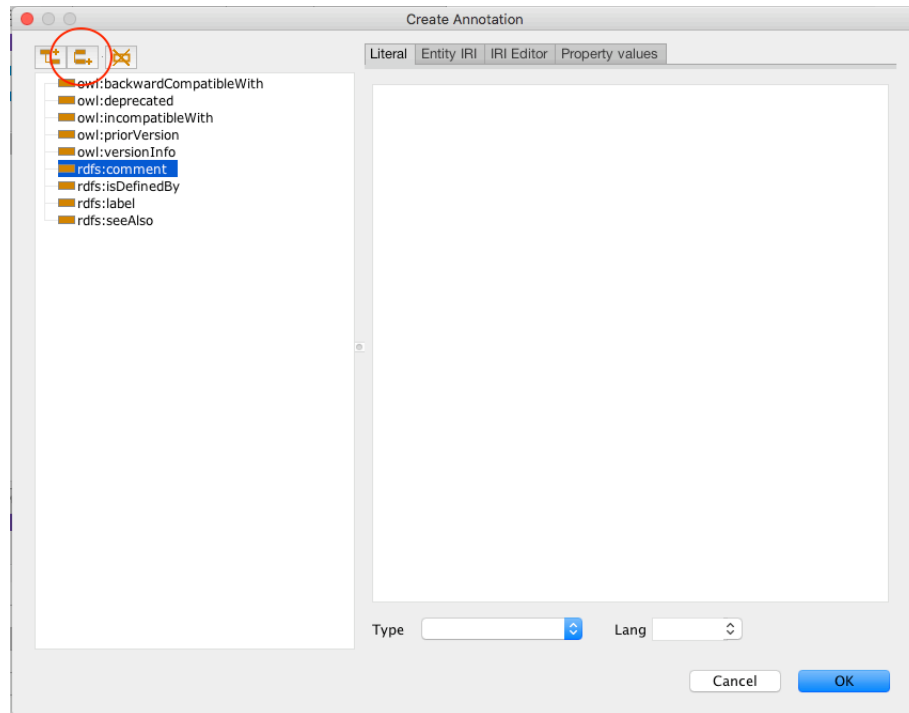


Add the mapping to the table with `dctterms` as the prefix and `http://purl.org/dc/terms/` for the value.

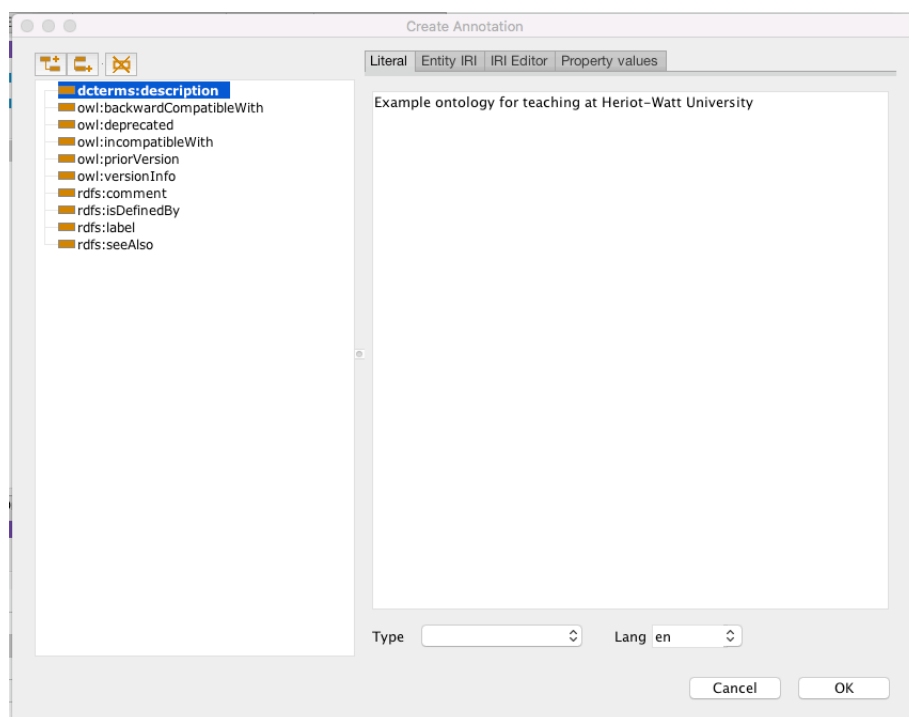
Add Annotations

Click on the '+' symbol in the 'Annotations' pane.

In the popup window, click on the 'Add sibling property' icon (circled in the screenshot below).



Type in the property that you want to add to the 'Name' field, e.g. `dcterms:description`. Click on your new term and then add the value in the 'Literal' pane. It is good practice to declare a language if that is appropriate for your property.



We can repeat this process for the properties:

- `dcterms:title` to provide the title of your ontology.
- `dcterms:creator` to provide the name of the person or persons who created the ontology. You should use an IRI if available or both. To provide an IRI use the 'IRI Editor' pane.
- `dcterms:license` to provide the license of your ontology.

We can also use the inbuilt properties, e.g. `owl:versionInfo` for defining the version number of our ontology.

By the end of these steps you should have something that looks like the following screenshot. Note that I've also changed the 'Ontology IRI' to a namespace that I control.

The screenshot displays the Protégé ontology editor interface. The main window is titled 'ontologies (http://www.macs.hw.ac.uk/~ajg33/ontologies/) : [http://www.semanticweb.org/ajg33/ontologies/2020/11/untitled-ontology-153]'. The browser address bar shows 'ontologies (http://www.macs.hw.ac.uk/~ajg33/ontologies/)'.

The interface includes several tabs: 'Active Ontology', 'Entities', 'Individuals by class', 'DL Query', and 'OOPS! Evaluator'. The 'Active Ontology' tab is selected.

The 'Ontology header' section shows the 'Ontology IRI' as 'http://www.macs.hw.ac.uk/~ajg33/ontologies/' and the 'Ontology Version IRI' as 'e.g. http://www.macs.hw.ac.uk/~ajg33/ontologies/1.0.0'.

The 'Annotations' section lists several properties and their values:

- dcterms:creator**: <https://creativecommons.org/licenses/by/4.0/>
- dcterms:creator**: Alasdair Gray
- dcterms:creator**: <http://orcid.org/0000-0002-5711-4872>
- dcterms:description** [language: en]: Example ontology for teaching at Heriot-Watt University
- dcterms:title**: Example Ontology
- owl:versionInfo** [type: xsd:decimal]: 0.1

The 'Ontology metrics' section displays various counts:

Metric	Count
Axiom	4
Logical axiom count	0
Declaration axioms count	4
Class count	0
Object property count	0
Data property count	0
Individual count	0
Annotation Property count	5
DL expressivity	AL

The 'Class axioms' section shows:

Class Axiom	Count
SubClassOf	0
EquivalentClasses	0
DisjointClasses	0
GCI count	0
Hidden GCI Count	0

The 'Object property axioms' section shows:

Object Property Axiom	Count
SubObjectPropertyOf	0

The 'Ontology prefixes' section lists the following prefixes and their values:

Prefix	Value
	http://www.macs.hw.ac.uk/~ajg33/ontologies/
dcterms	http://purl.org/dc/terms/
owl	http://www.w3.org/2002/07/owl#
rdf	http://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs	http://www.w3.org/2000/01/rdf-schema#
xml	http://www.w3.org/XML/1998/namespace
xsd	http://www.w3.org/2001/XMLSchema#

At the bottom, there is a footer that reads: 'To use the reasoner click Reasoner > Start reasoner' and a checkbox for 'Show Inferences' which is checked.