

- Overview
- Project presentation
  - today Trinh
  - 4 May Arne
  - 11 May Song, Serhat
  - 18 May Susana, Fabrice
- Review 27. May

# OWL vs Semantic MediaWiki

API comparison: Protege vs OWL

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**External links**

- UNIK wiki
- pSHIELD internal
- JBV project
- UNIK home page
- old Wiki

**Support Forms**

- Bug Innobørs
- Bug Yeboo

**Toolbox**

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link
- Browse properties

■ are able to define the outcome of your project using these APIs

**Pensum (read before)**

**References (further info)**

References:

- Protege API Guide: [http://protegewiki.stanford.edu/wiki/ProtegeOWL\\_API\\_Programmers\\_Guide](http://protegewiki.stanford.edu/wiki/ProtegeOWL_API_Programmers_Guide)
- OWL API Documentation: <http://owlapi.sourceforge.net/documentation.html>

More info:

- Protege 4 Migration: <http://protegewiki.stanford.edu/wiki/Protege4Migration>
- Ontology comparison (SMW-OWL) - [http://www.semantic-mediawiki.org/wiki/Help:Ontology\\_import](http://www.semantic-mediawiki.org/wiki/Help:Ontology_import)

**Keywords**

OWL API, Protege API, Semantic MediaWiki

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## Presentations

- Project Presentation - Trinh: [File:Trinh.pdf](#)

## Semantic MediaWiki versus OWL

Main differences in using the semantic elements

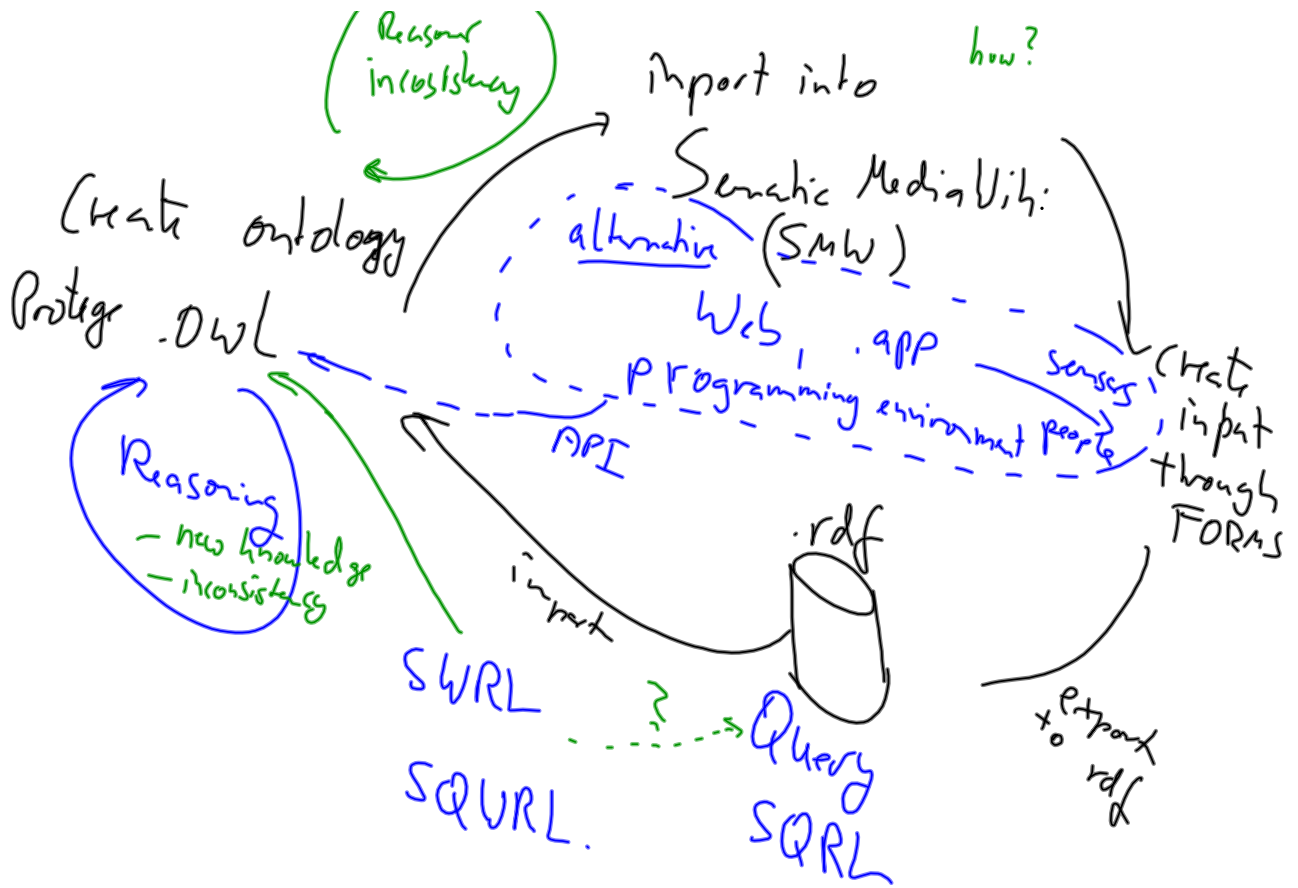
OWL Construct	Semantic MediaWiki
Class	Category
Class instantiation	Page categorization (e.g. [[Category:X]])
Subclass of	Category subcategorization (e.g. [[Category:X]] on a category page)
Datatype property	Property = string, int, (page) number, URL
Object property	Property (also)
Instantiated datatype property	Attribute annotation (e.g. [[X::Y]])
Instantiated object property	Typed link (e.g. [[X::Y]])

pages ; hidden knowledge (.rdf)  
 page → sub categories, pages → export  
 → OWL export (?)

- From: [http://www.semantic-mediawiki.org/wiki/Help:Ontology\\_import](http://www.semantic-mediawiki.org/wiki/Help:Ontology_import)

Category: UNIK4710

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## Project Presentation

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<b>Course</b>	UNIK4710, UNIK9710
<b>Title</b>	Project Presentation
<b>Lecture date</b>	2012/05/04
<b>Lecturer(s), (users)</b>	Arne Dybdahl
<b>Objective</b>	present the project
<b>Learning outcomes</b>	
<b>Pensum (read before)</b>	
<b>References (further info)</b>	
<b>Keywords</b>	Semantic MediaWiki, OWL

*this page was created by [Special:FormEdit/Lecture](#), and can be edited by [Special:FormEdit/Lecture/Project Presentation](#).*

Categories: UNIK4710 | UNIK9710

**Facts about Project Presentation** RDF feed

Course	<a href="#">UNIK4710</a> + and <a href="#">UNIK9710</a> +
Keywords	Semantic MediaWiki + and OWL +
Lecturer	Arne Dybdahl +
Objective	present the project
Title	Project Presentation +
Date	4 May 2012 +

*Class* (circled in blue)

*Subclass(!?) ; instance(!?)* (handwritten in green)

*UNIK 4710* (handwritten in black)

*v10* (handwritten in black)

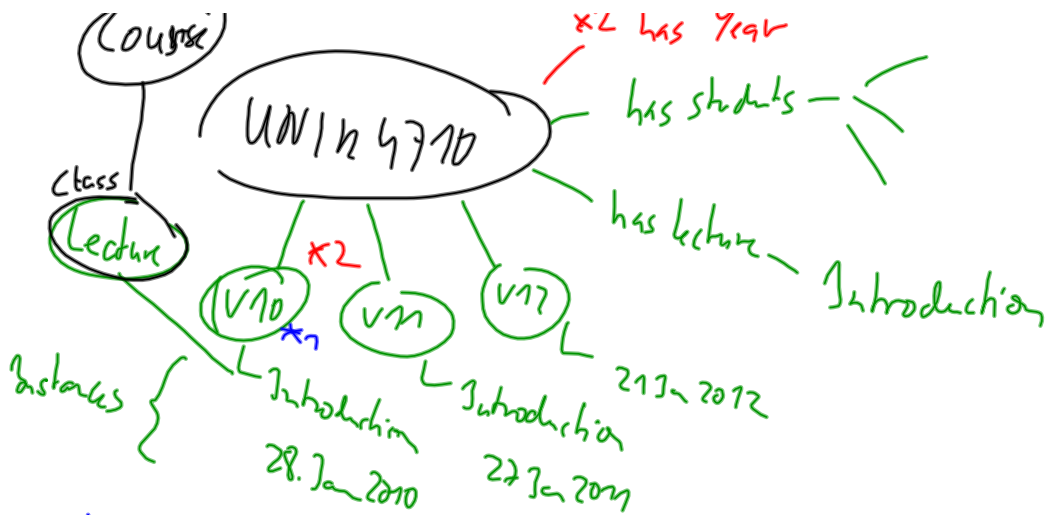
*v11* (handwritten in black)

*v12* (handwritten in black)

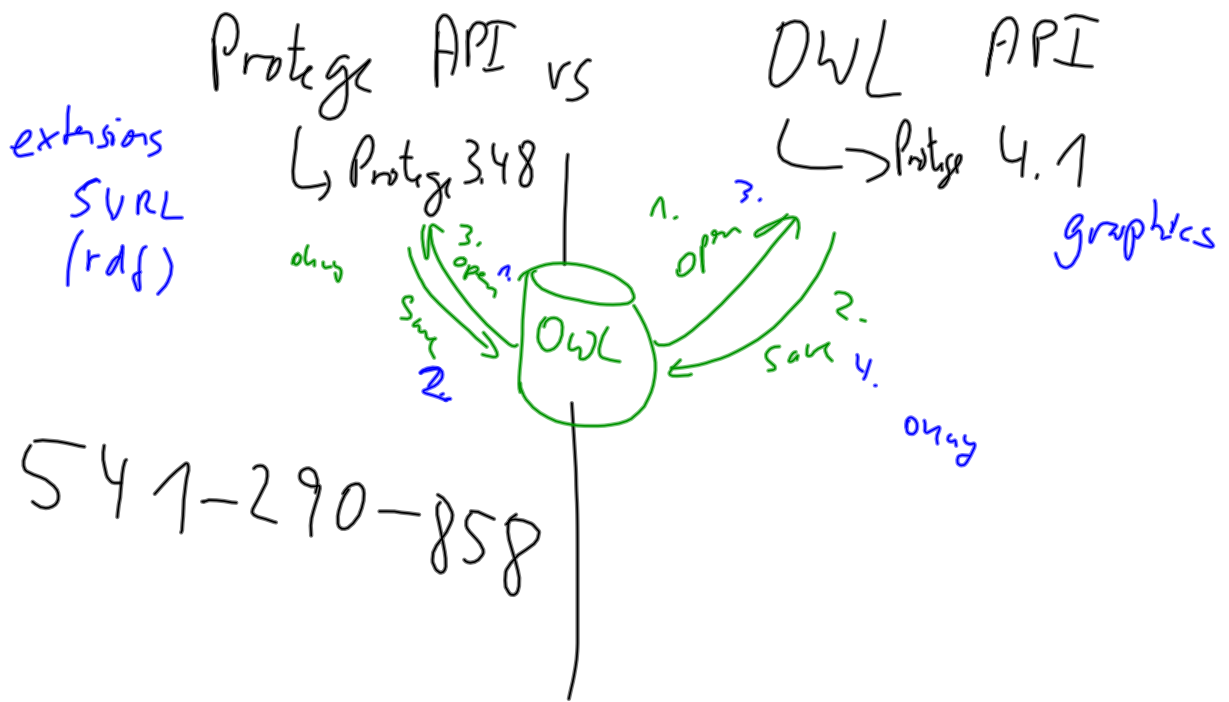
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Toolbox: What links here, Related changes, Upload file, Special pages



Formal: <sup>\*2</sup> apply restrictions "same lecture in 2010" → subclasses  
 \*2 (V10) is an instance, because no new properties



# RAMSTI

huge data }  
 wind mills  
 $> 5 \frac{m}{s}$

.dBase

(ii) import

x.1

specific data

- temp o.l
- vibration
- rotation/wind

x3 maintenance profile

- 1/4 2/day

4/hour

↓ OWO

SQL, SQL2

- productive maintenance
- security, failure

online production  
 x2 x2 regional profit balance

- energy production
- location

(i) example

