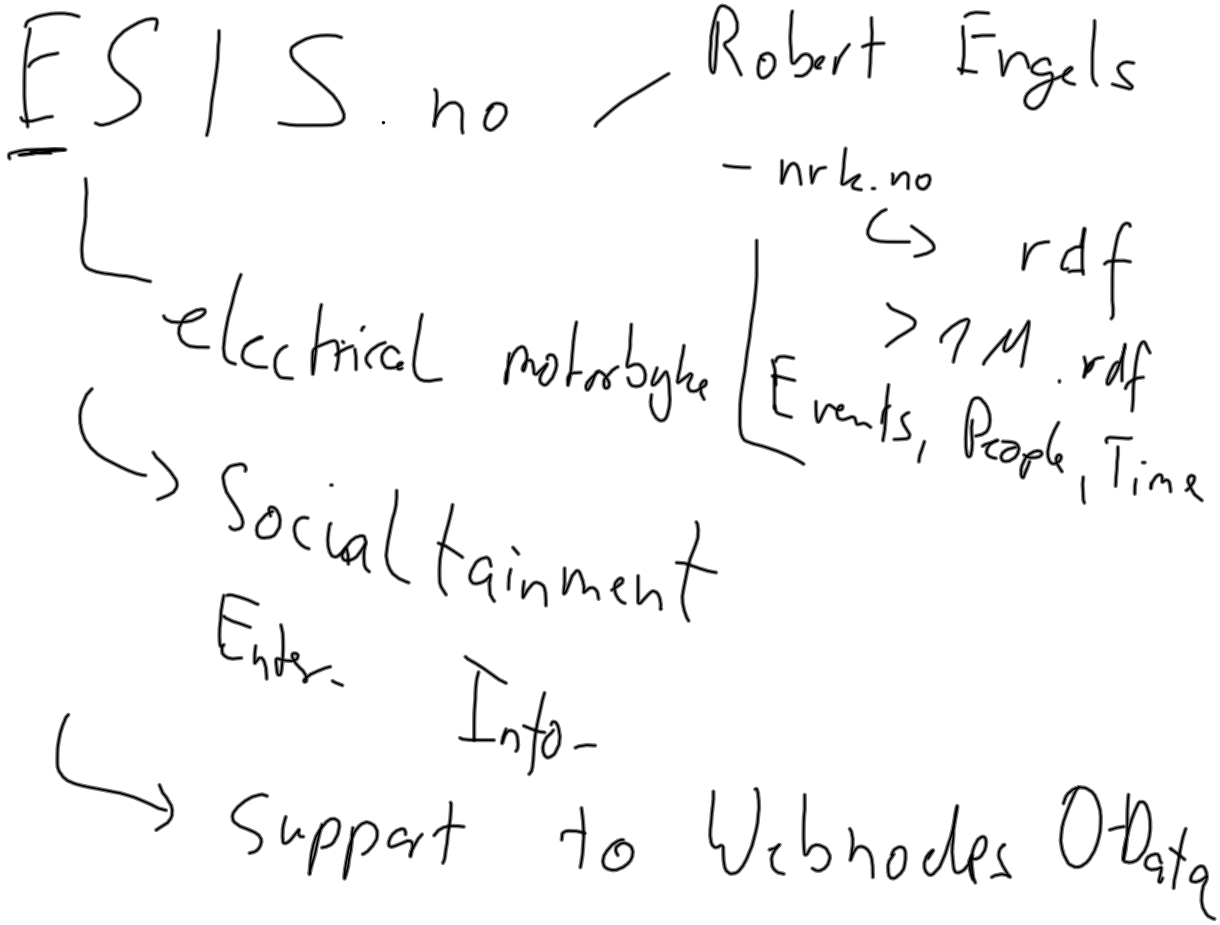
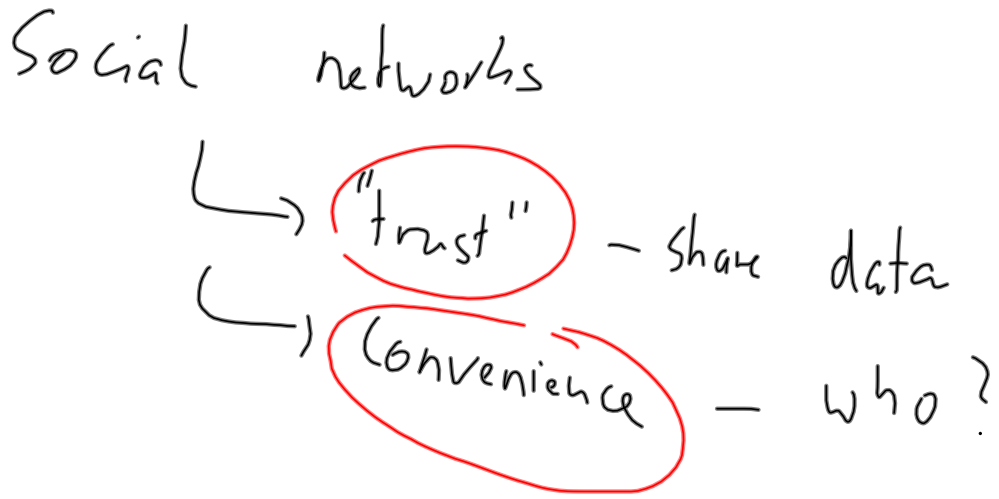

ESIS.no
Robert Engels
- nrk.no
↳ rdf
> 1M .rdf
Events, People, Time
electrical motorbyke
↳ Socialtainment
Enter. Into.
↳ Support to Webnodes OData


Social networks
"trust" - share data
convenience - who?

OData vs (?) Open source

Semantics

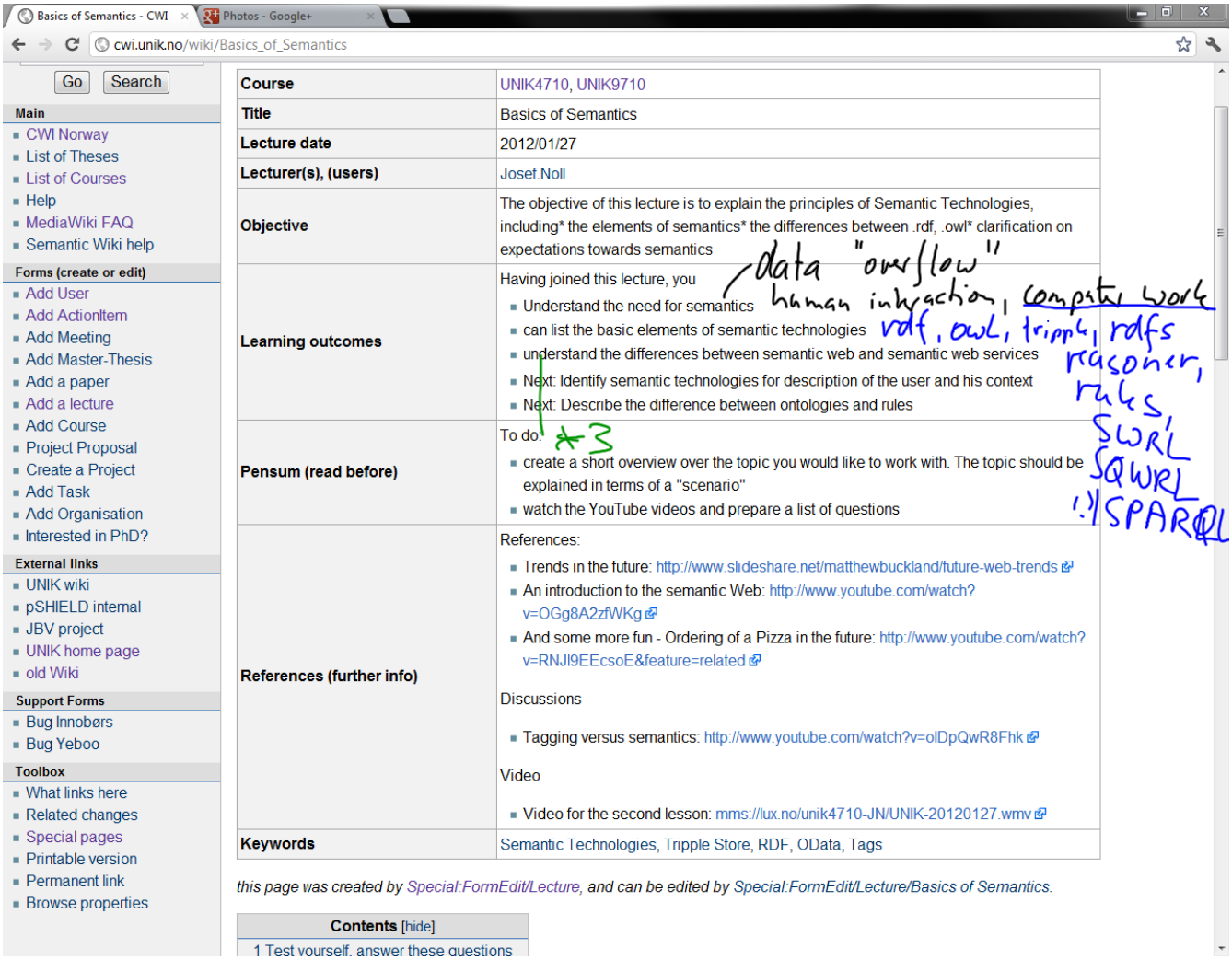
rdf, owl, ...

└ Inknet -> search

↳ keywords ⇝ redefine based on internal semantics

↳ study papers

Docpar -> scientific mindmap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Basics of Semantics
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2012/01/27
Lecturer(s), (users)
Josef.Noll
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can list the basic elements of semantic technologies
understand the differences between semantic web and semantic web services
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Next: Describe the difference between ontologies and rules
Pensum (read before)
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Video
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Keywords
Semantic Technologies, Tripple Store, RDF, OData, Tags
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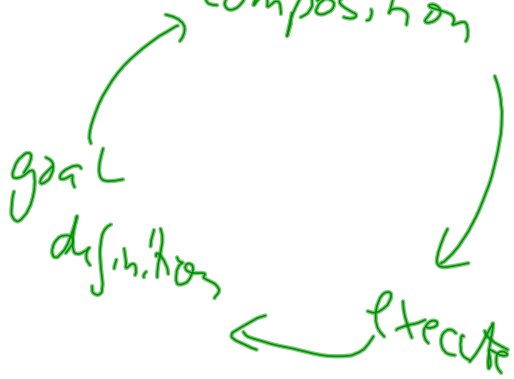
Contents [hide]
1 Test yourself, answer these questions
data "overflow"
human interaction, computer work
rdf, owl, tripple, rdfs
reasoner,
rules,
SWRL
SQWRL
!)SPARQL
+3

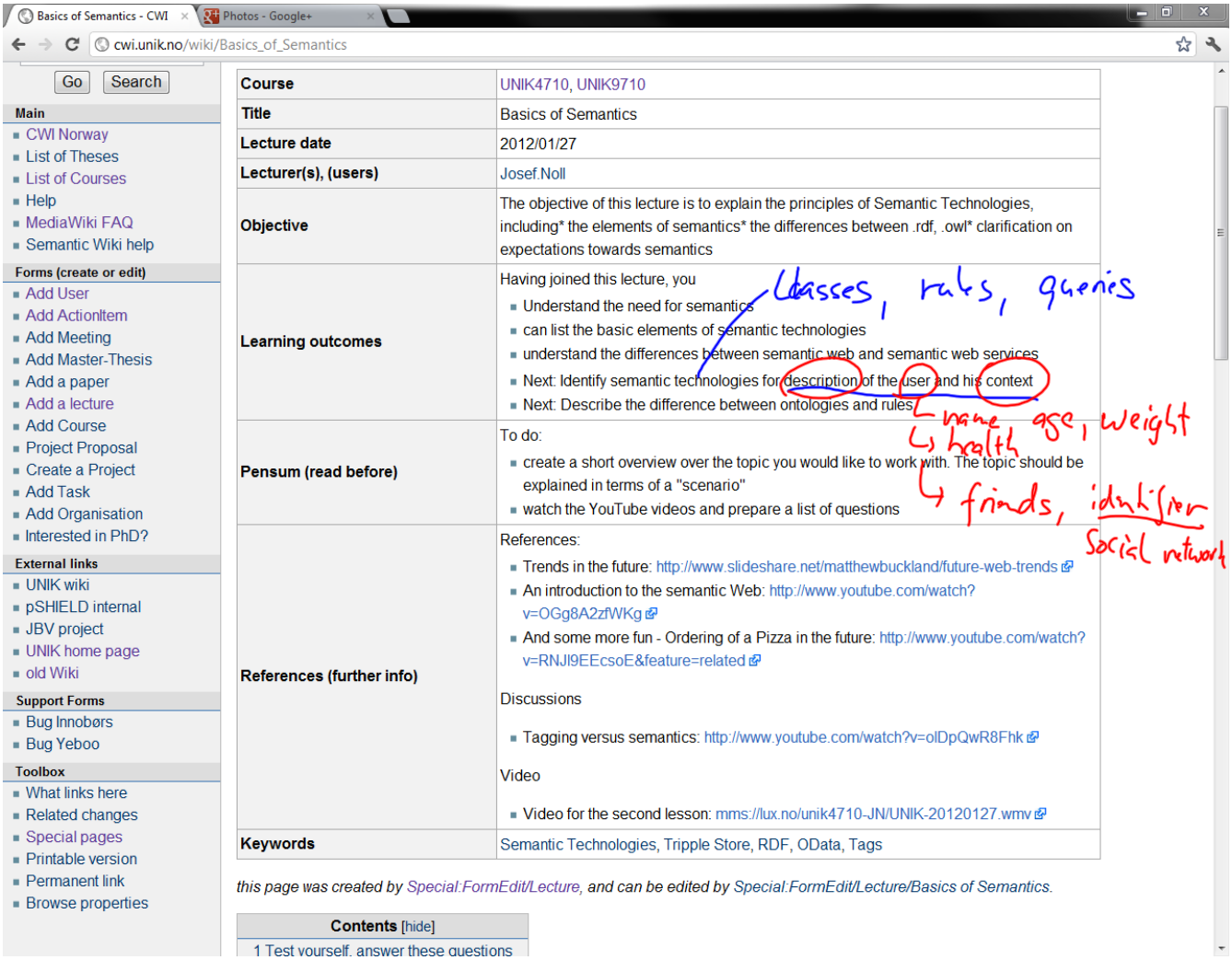
reasoning, rule-based query

*) Semantic Web → web, smart data, machine query

" " services → client-server-infrastructure

infrastructure for combine services (database, ordering)

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Discussions
Tagging versus semantics: http://www.youtube.com/watch?v=olDpQwR8Fhk
Video
Video for the second lesson: mms://lux.no/unik4710-JN/UNIK-20120127.wmv
Keywords
Semantic Technologies, Tripple Store, RDF, OData, Tags
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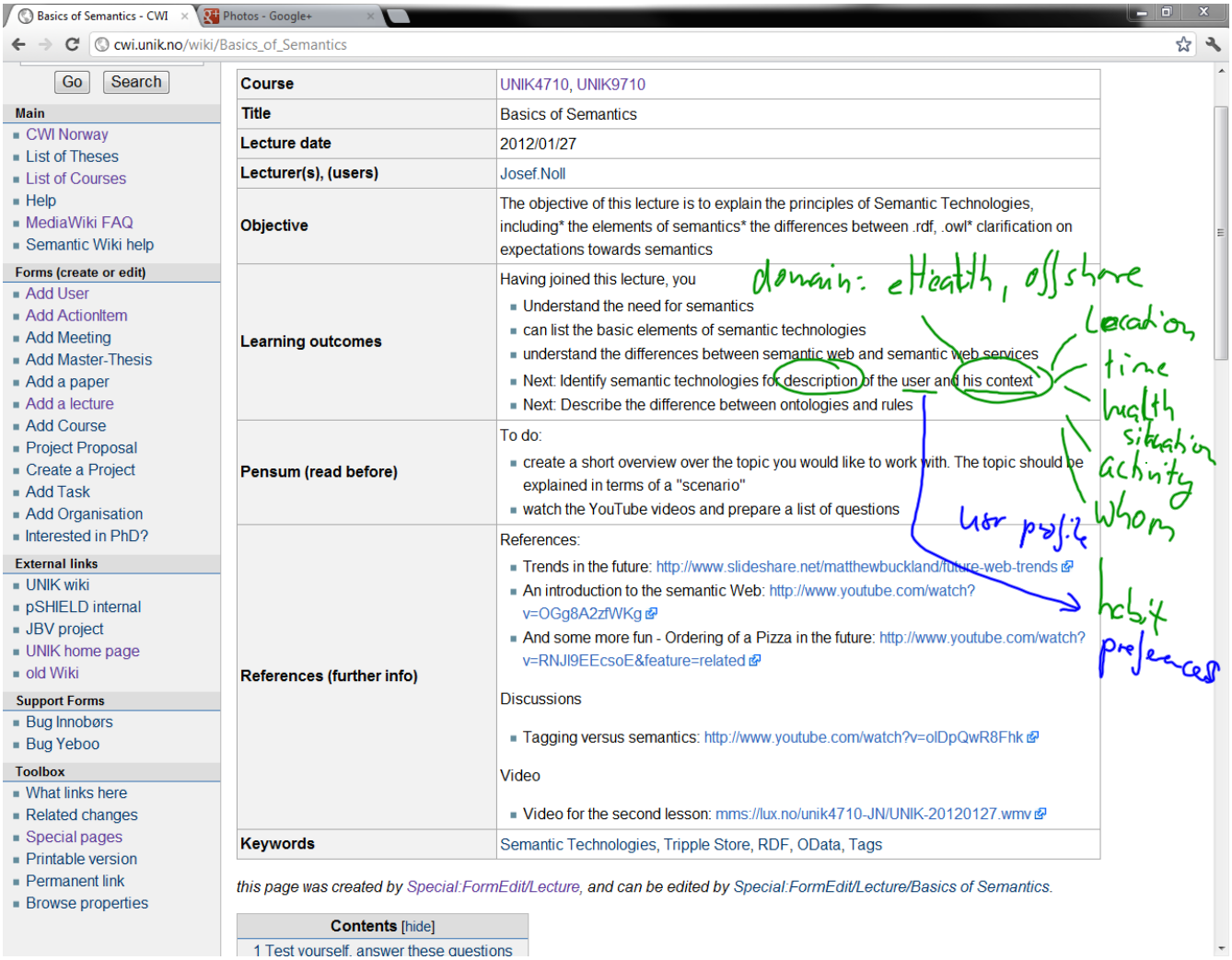
1 Test yourself, answer these questions
classes, rules, queries
name
age, weight
health
friends, identifier
Social network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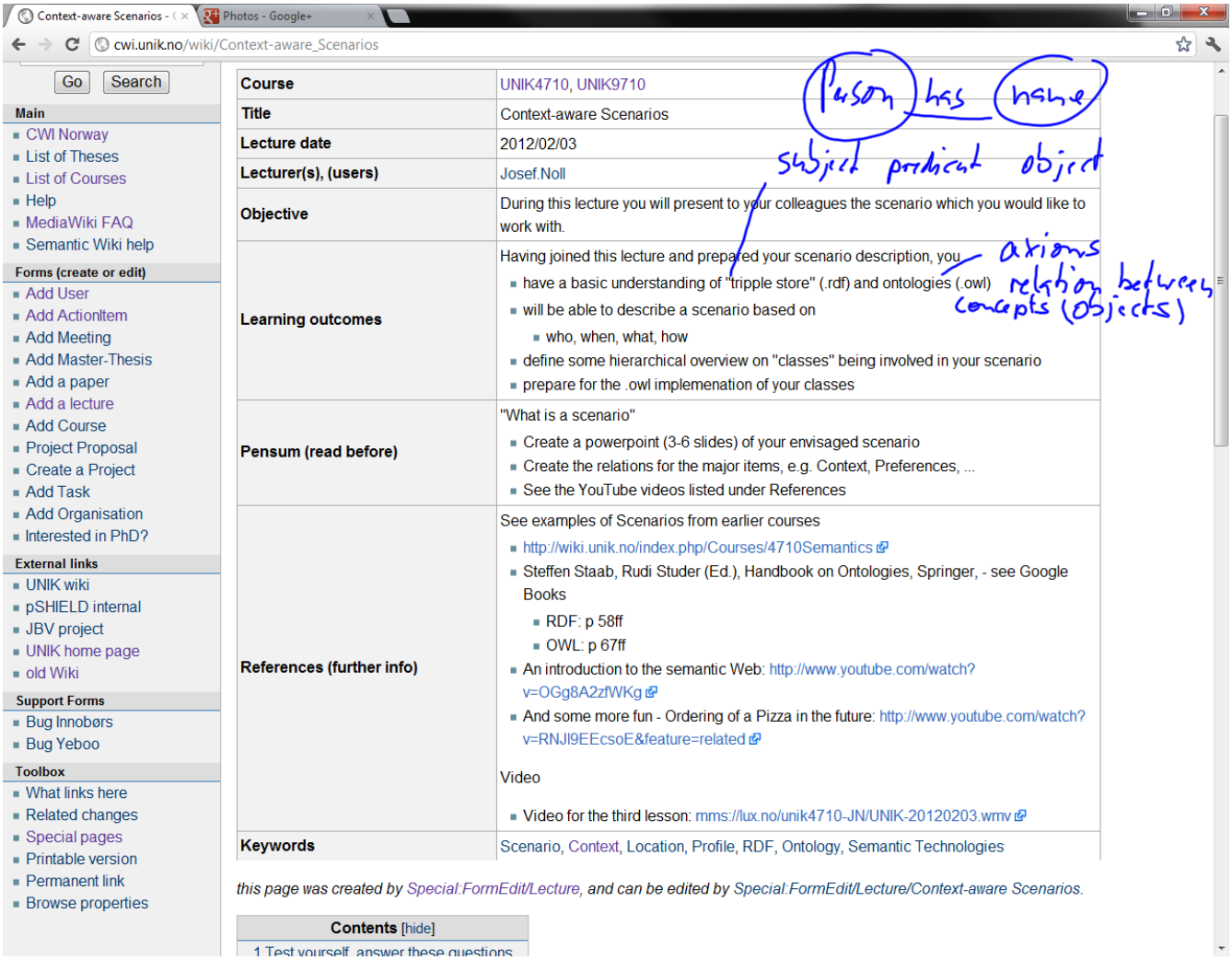
1 Test yourself, answer these questions
domain: eHealth, offshore
Location
time
health
situation
activity
Whom
User profile
how
preferences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Title
Context-aware Scenarios
Lecture date
2012/02/03
Lecturer(s), (users)
Josef.Noll
Objective
During this lecture you will present to your colleagues the scenario which you would like to work with.
Learning outcomes
Having joined this lecture and prepared your scenario description, you
have a basic understanding of "tripple store" (.rdf) and ontologies (.owl)
will be able to describe a scenario based on
who, when, what, how
define some hierarchical overview on "classes" being involved in your scenario
prepare for the .owl implemenation of your classes
Pensum (read before)
"What is a scenario"
Create a powerpoint (3-6 slides) of your envisaged scenario
Create the relations for the major items, e.g. Context, Preferences, ...
See the YouTube videos listed under References
References (further info)
See examples of Scenarios from earlier courses
http://wiki.unik.no/index.php/Courses/4710Semantics
Steffen Staab, Rudi Studer (Ed.), Handbook on Ontologies, Springer, - see Google Books
RDF: p 58ff
OWL: p 67ff
An introduction to the semantic Web: http://www.youtube.com/watch?v=OGg8A2zfWKg
And some more fun - Ordering of a Pizza in the future: http://www.youtube.com/watch?v=RNJI9EEcsoE&feature=related
Video
Video for the third lesson: mms://lux.no/unik4710-JN/UNIK-20120203.wmv
Keywords
Scenario, Context, Location, Profile, RDF, Ontology, Semantic Technologies
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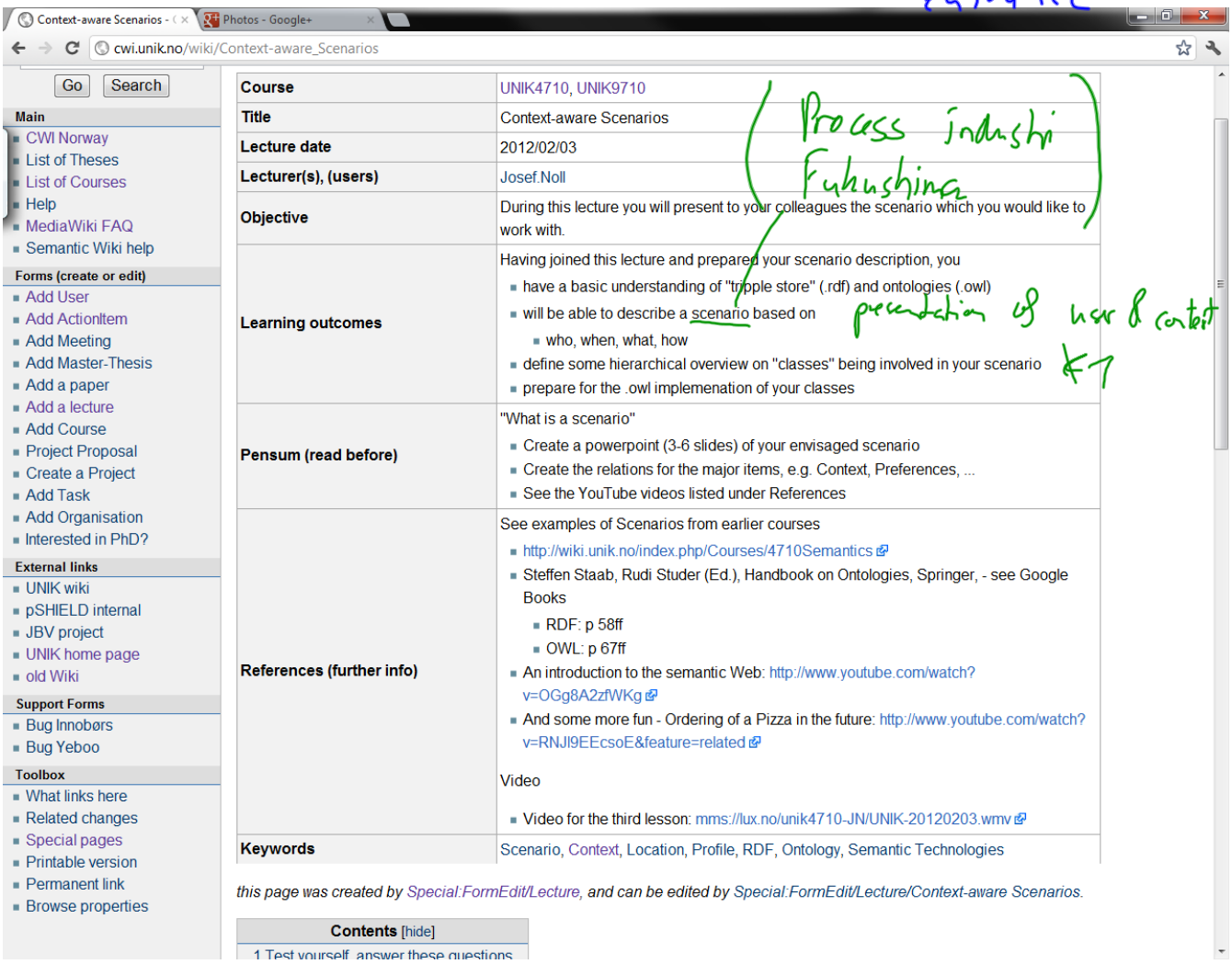
1 Test yourself, answer these questions
Person has name
subject predicat object
axioms
relation between concepts (objects)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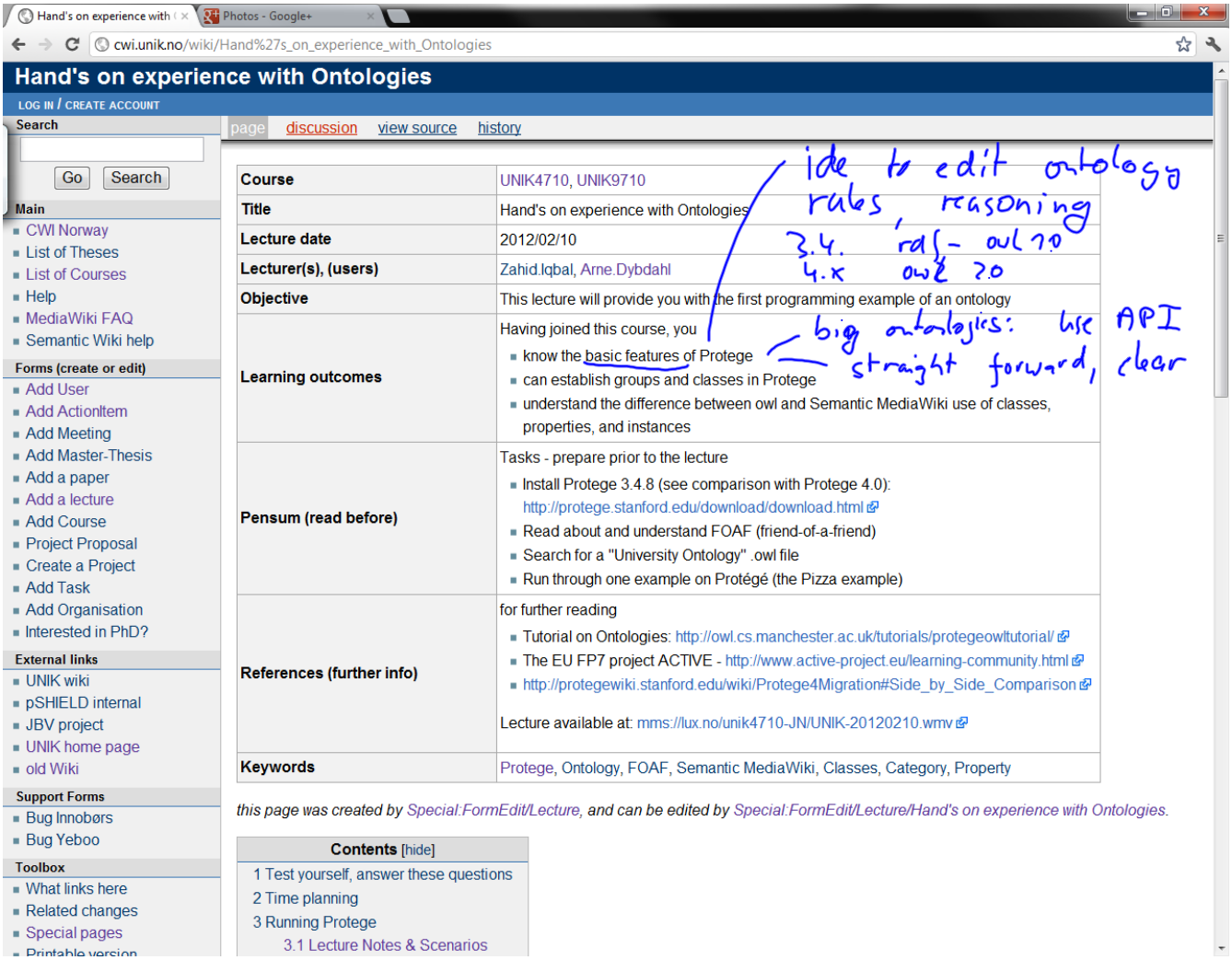
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Hand's on experience with Ontologies
Lecture date
2012/02/10
Lecturer(s), (users)
Zahid.Iqbal, Arne.Dybdahl
Objective
This lecture will provide you with the first programming example of an ontology
Learning outcomes
Having joined this course, you
know the basic features of Protege
can establish groups and classes in Protege
understand the difference between owl and Semantic MediaWiki use of classes, properties, and instances
Pensum (read before)
Tasks - prepare prior to the lecture
Install Protege 3.4.8 (see comparison with Protege 4.0): http://protege.stanford.edu/download/download.html
Read about and understand FOAF (friend-of-a-friend)
Search for a "University Ontology" .owl file
Run through one example on Protégé (the Pizza example)
References (further info)
for further reading
Tutorial on Ontologies: http://owl.cs.manchester.ac.uk/tutorials/protegeowltutorial/
The EU FP7 project ACTIVE - http://www.active-project.eu/learning-community.html
http://protegewiki.stanford.edu/wiki/Protege4Migration#Side_by_Side_Comparison
Lecture available at: mms://lux.no/unik4710-JN/UNIK-20120210.wmv
Keywords
Protege, Ontology, FOAF, Semantic MediaWiki, Classes, Category, Property
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ide to edit ontology
rules, reasoning
3.4. rdf - owl 2.0
4.x owl 2.0
big ontologies: use API
straight forward, clear

properties: OWL: object | data — data types
↳ relations between classes
SMW: — has type email
— object properties = pages
through
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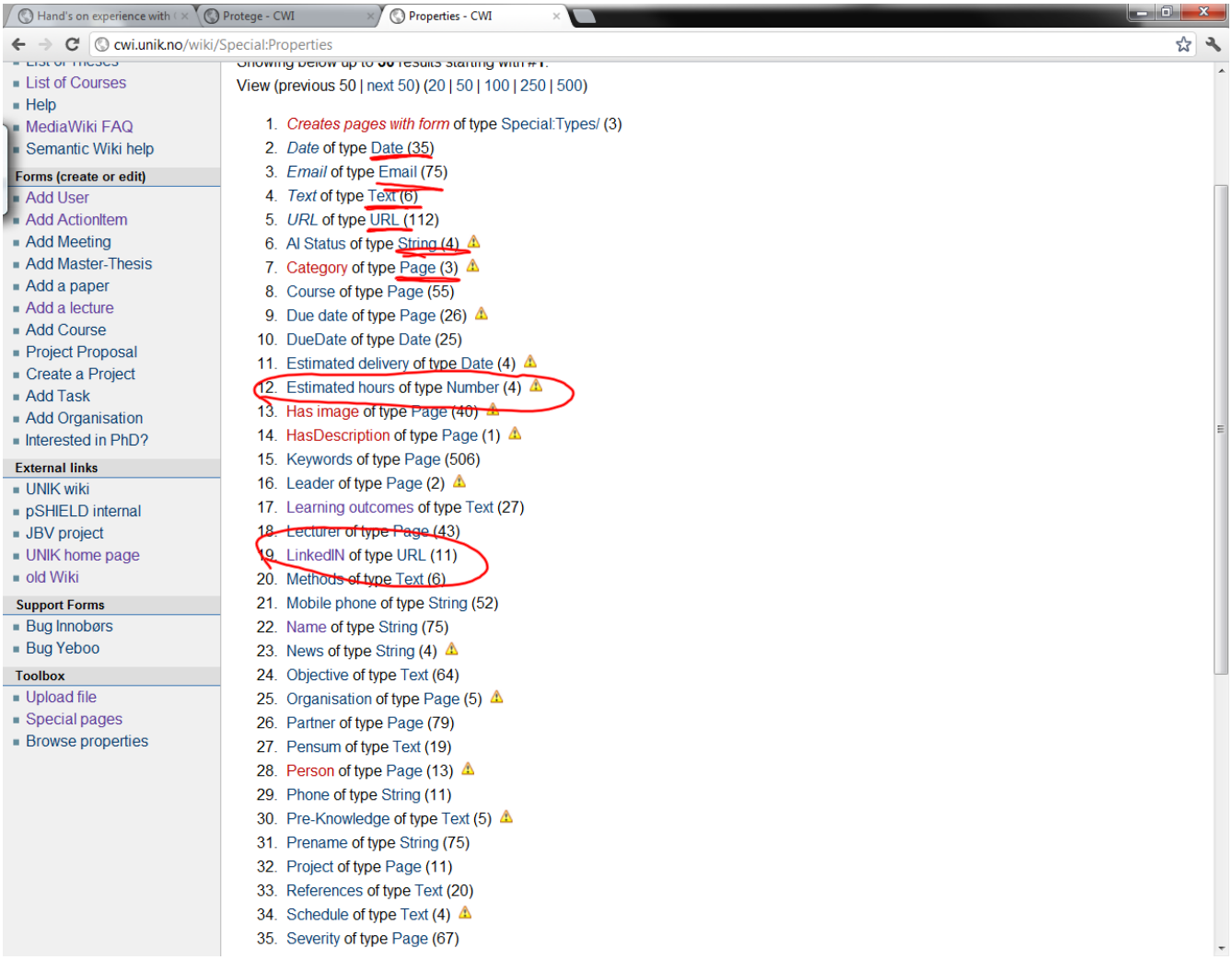
no reasoning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18. Lecturer of type Page (43)
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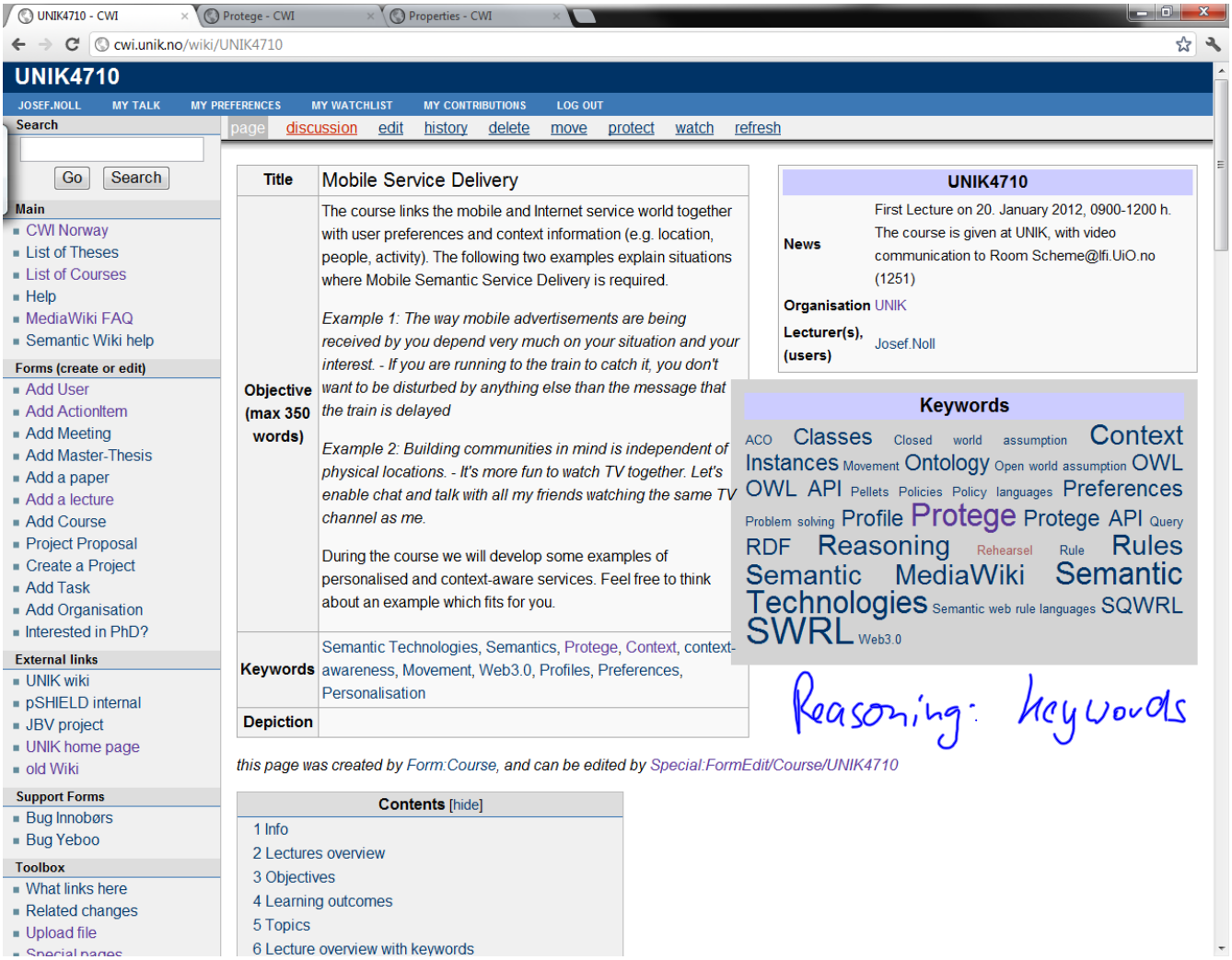
28. Person of type Page (13)
29. Phone of type String (11)
30. Pre-Knowledge of type Text (5)
31. Prename of type String (75)
32. Project of type Page (11)
33. References of type Text (20)
34. Schedule of type Text (4)
35. Severity of type Page (67)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Title
Mobile Service Delivery
Objective (max 350 words)
The course links the mobile and Internet service world together with user preferences and context information (e.g. location, people, activity). The following two examples explain situations where Mobile Semantic Service Delivery is required.
Example 1: The way mobile advertisements are being received by you depend very much on your situation and your interest. - If you are running to the train to catch it, you don't want to be disturbed by anything else than the message that the train is delayed
Example 2: Building communities in mind is independent of physical locations. - It's more fun to watch TV together. Let's enable chat and talk with all my friends watching the same TV channel as me.
During the course we will develop some examples of personalised and context-aware services. Feel free to think about an example which fits for you.
Keywords
Semantic Technologies, Semantics, Protege, Context, context-awareness, Movement, Web3.0, Profiles, Preferences, Personalisation
Depiction
UNIK4710
News
First Lecture on 20. January 2012, 0900-1200 h. The course is given at UNIK, with video communication to Room Scheme@lfi.UiO.no (1251)
Organisation UNIK
Lecturer(s), (users) Josef.Noll
Keywords
ACO Classes Closed world assumption Context Instances Movement Ontology Open world assumption OWL OWL API Pellets Policies Policy languages Preferences Problem solving Profile Protege Protege API Query RDF Reasoning Rehearsel Rule Rules Semantic MediaWiki Semantic Technologies Semantic web rule languages SQWRL SWRL Web3.0
Reasoning: keywords
this page was created by Form:Course, and can be edited by Special:FormEdit/Course/UNIK4710
Contents [hide]
1 Info
2 Lectures overview
3 Objectives
4 Learning outcomes
5 Topics
6 Lecture overview with keywords

keywords: ("same")

similar
synonym
higher class
sub classes

UNIK4710 — Context Aware

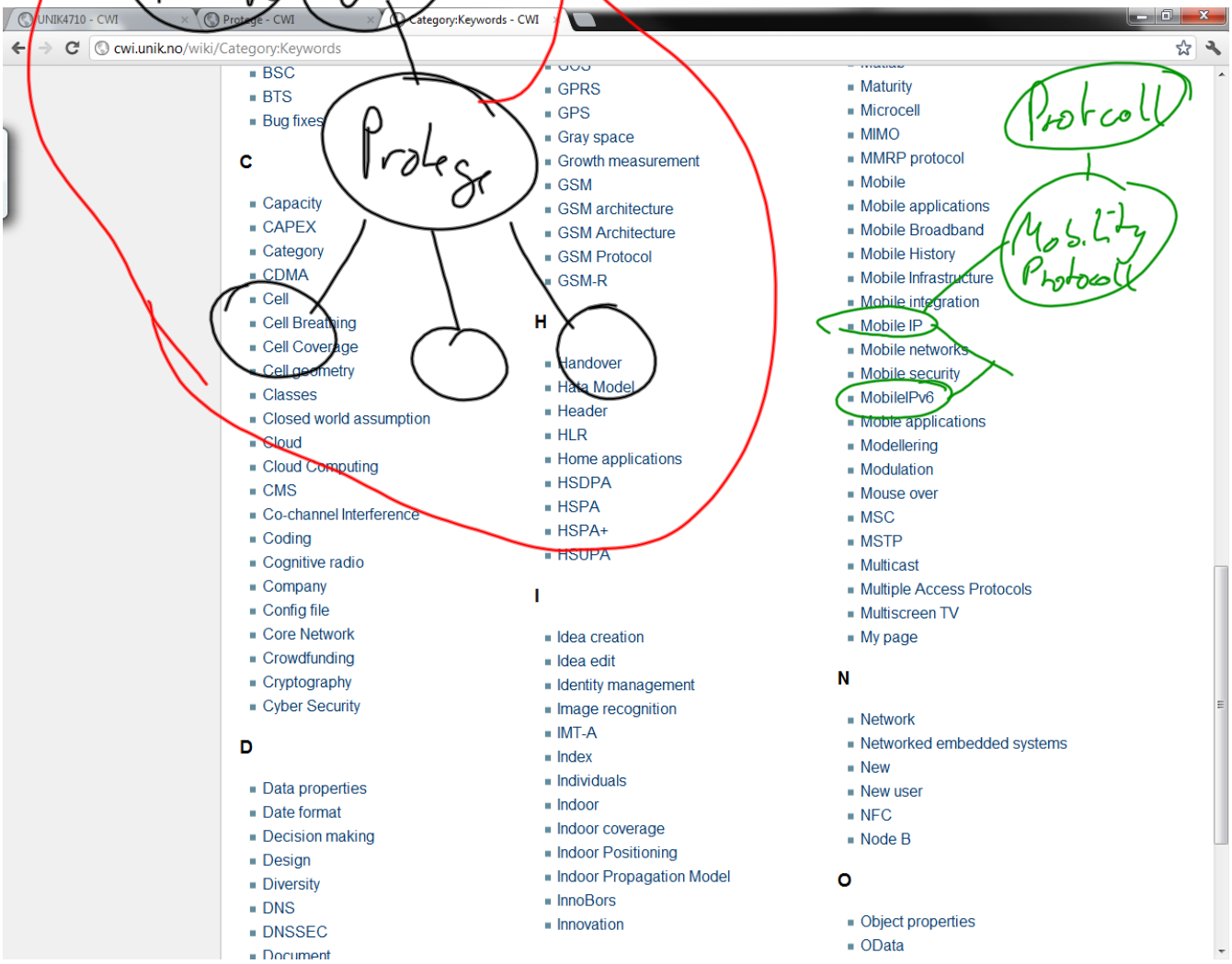
Semantic Technologies

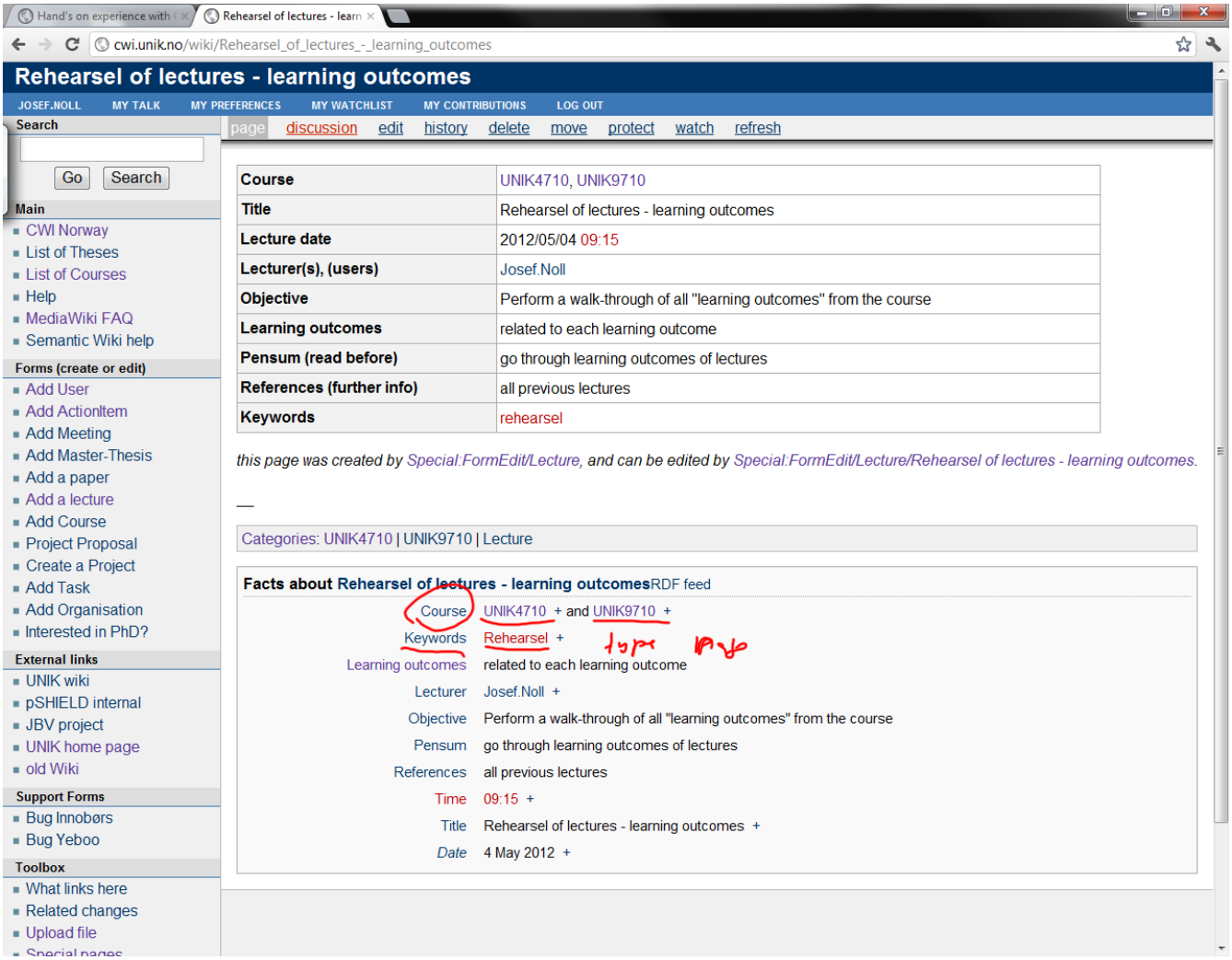
OWL

Protege

Protocoll

Mobility Protocoll




Hand's on experience with
Rehearsel of lectures - learn
cwi.unik.no/wiki/Rehearsel_of_lectures_-_learning_outcomes
Rehearsel of lectures - learning outcomes
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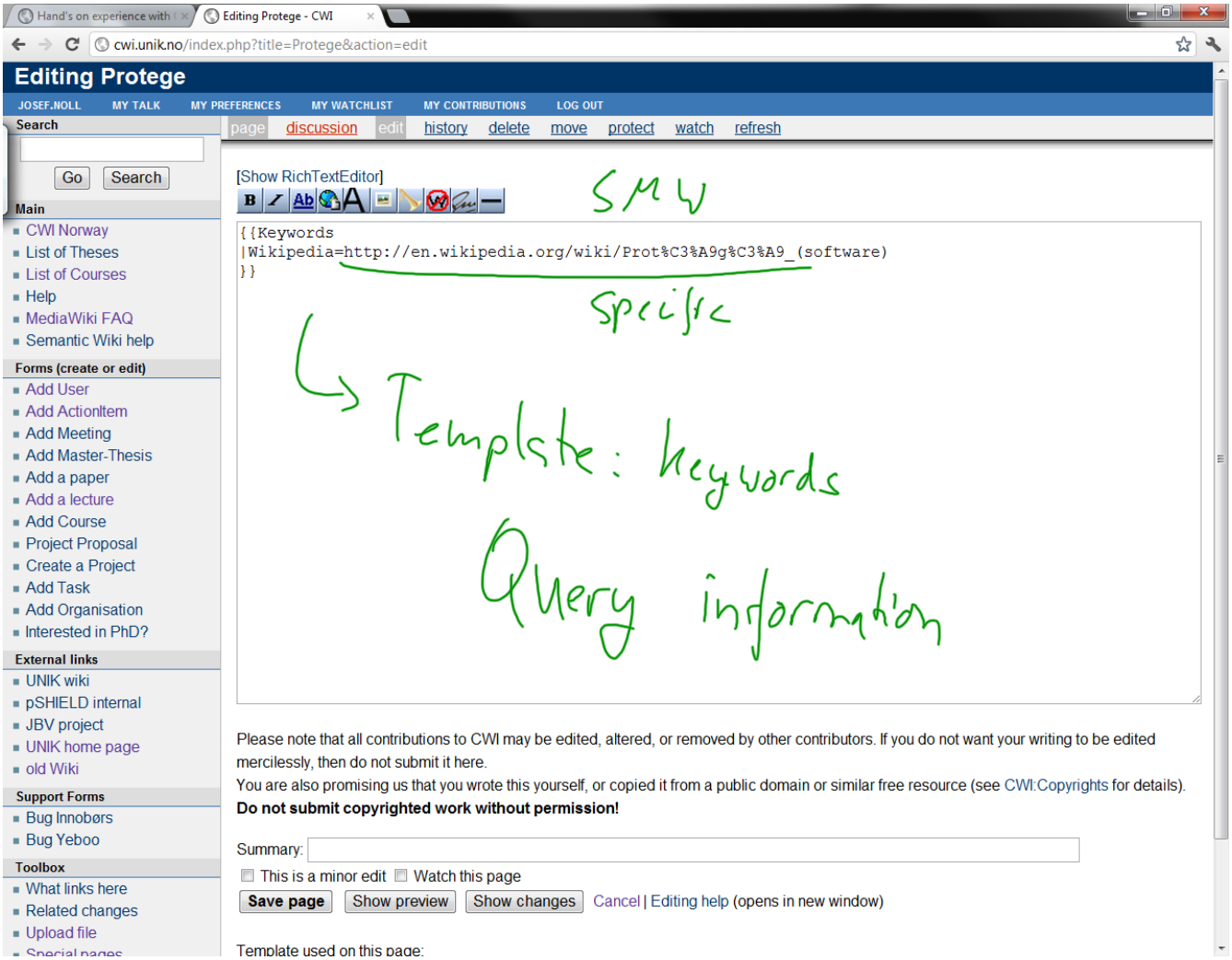
Course UNIK4710, UNIK9710
Title Rehearsel of lectures - learning outcomes
Lecture date 2012/05/04 09:15
Lecturer(s), (users) Josef.Noll
Objective Perform a walk-through of all "learning outcomes" from the course
Learning outcomes related to each learning outcome
Pensum (read before) go through learning outcomes of lectures
References (further info) all previous lectures
Keywords rehearsel
this page was created by Special:FormEdit/Lecture, and can be edited by Special:FormEdit/Lecture/Rehearsel of lectures - learning outcomes.
Categories: UNIK4710 | UNIK9710 | Lecture
Facts about Rehearsel of lectures - learning outcomesRDF feed
Course UNIK4710 + and UNIK9710 +
Keywords Rehearsel +
Learning outcomes related to each learning outcome
Lecturer Josef.Noll +
Objective Perform a walk-through of all "learning outcomes" from the course
Pensum go through learning outcomes of lectures
References all previous lectures
Time 09:15 +
Title Rehearsel of lectures - learning outcomes +
Date 4 May 2012 +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SMW
{{Keywords
|Wikipedia=http://en.wikipedia.org/wiki/Prot%C3%A9g%C3%A9_(software)
}}
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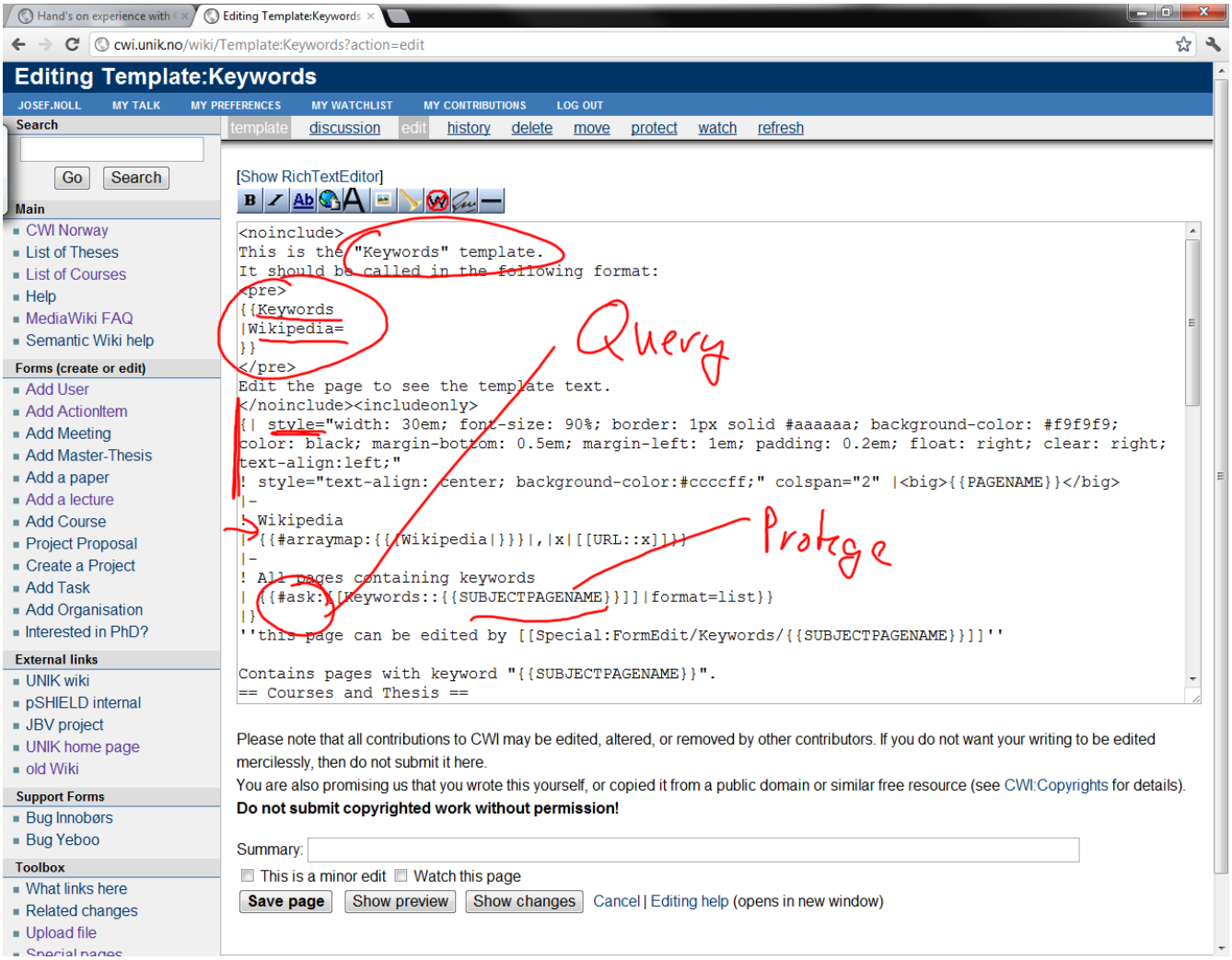
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[Show RichTextEditor]
<noinclude>
This is the "Keywords" template.
It should be called in the following format:
<pre>
{{Keywords
|Wikipedia=
}}
</pre>
Edit the page to see the template text.
</noinclude><includeonly>
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color: black; margin-bottom: 0.5em; margin-left: 1em; padding: 0.2em; float: right; clear: right;
text-align:left;"
! style="text-align: center; background-color:#ccccff;" colspan="2" |<big>{{PAGENAME}}</big>
|-
! Wikipedia
| {{#arraymap:{{{Wikipedia|}}}}|,|x|[[URL::x]]}}
|-
! All pages containing keywords
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|}
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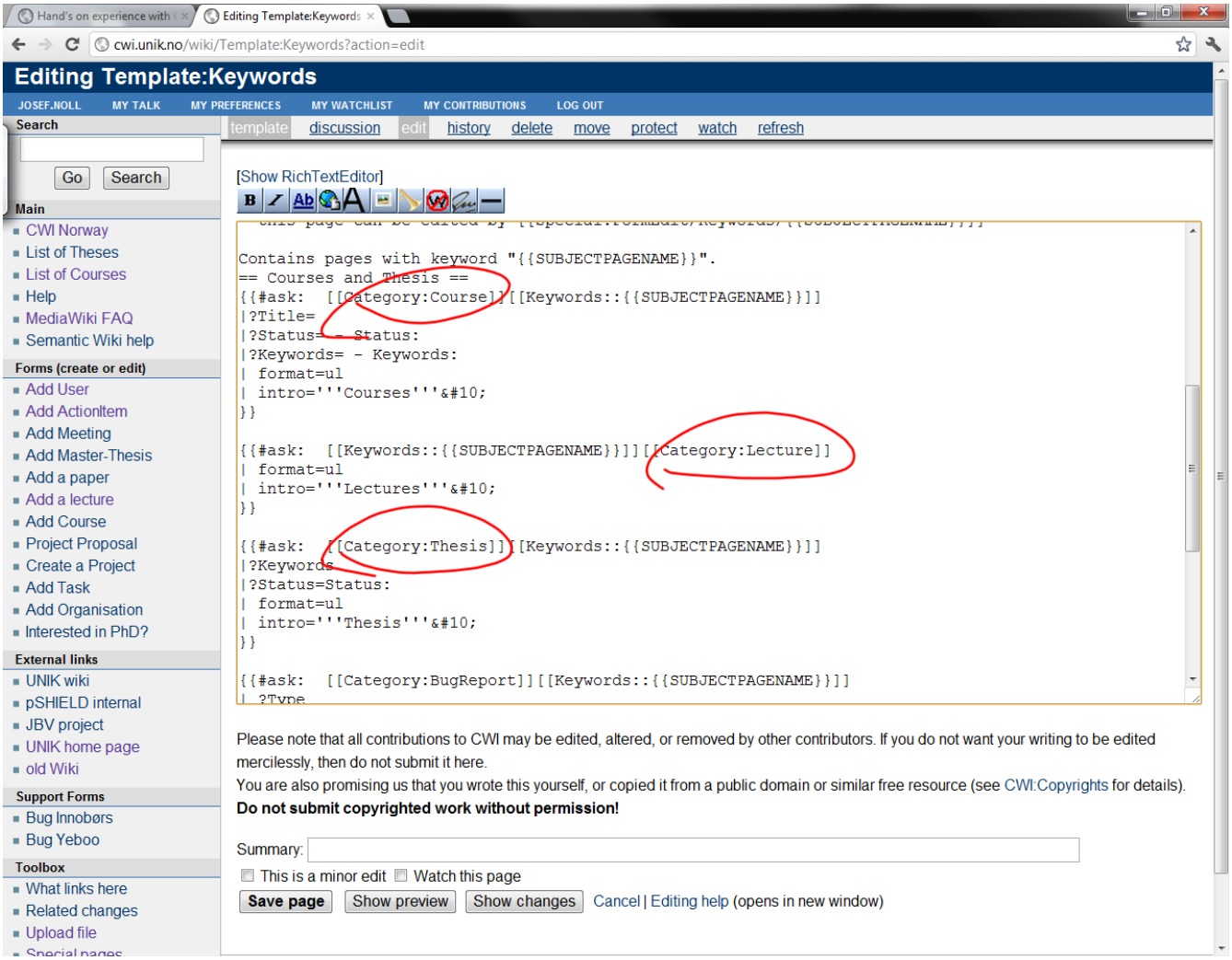
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| ?Type
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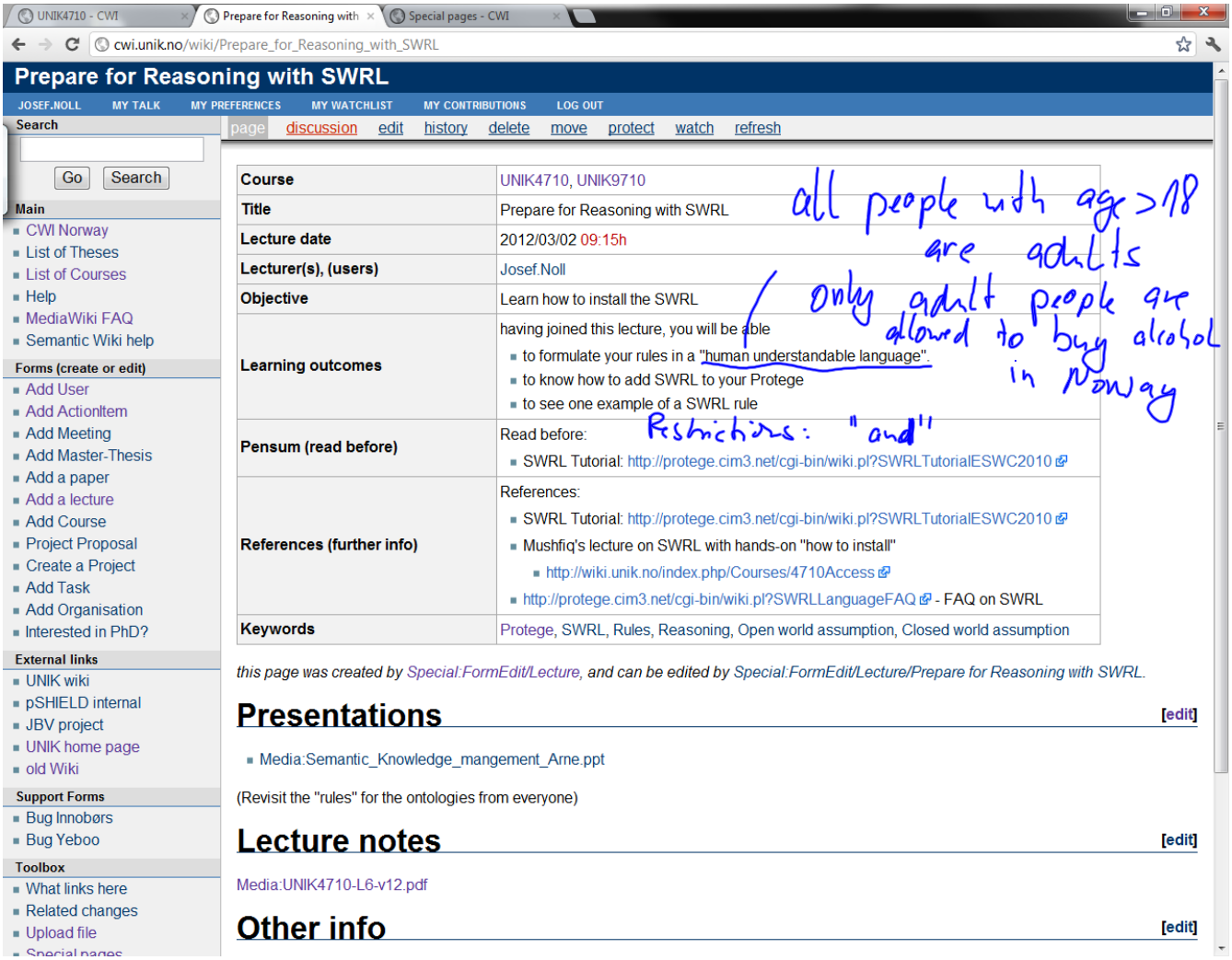
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Course
UNIK4710, UNIK9710
Title
Prepare for Reasoning with SWRL
Lecture date
2012/03/02 09:15h
Lecturer(s), (users)
Josef.Noll
Objective
Learn how to install the SWRL
Learning outcomes
having joined this lecture, you will be able
to formulate your rules in a "human understandable language"
to know how to add SWRL to your Protege
to see one example of a SWRL rule
Pensum (read before)
Read before:
SWRL Tutorial: http://protege.cim3.net/cgi-bin/wiki.pl?SWRLTutorialESWC2010
References (further info)
References:
SWRL Tutorial: http://protege.cim3.net/cgi-bin/wiki.pl?SWRLTutorialESWC2010
Mushfiq's lecture on SWRL with hands-on "how to install"
http://wiki.unik.no/index.php/Courses/4710Access
http://protege.cim3.net/cgi-bin/wiki.pl?SWRLLanguageFAQ - FAQ on SWRL
Keywords
Protege, SWRL, Rules, Reasoning, Open world assumption, Closed world assumption
all people with age >18 are adults
only adult people are allowed to buy alcohol in Norway
Restrictions: "and"
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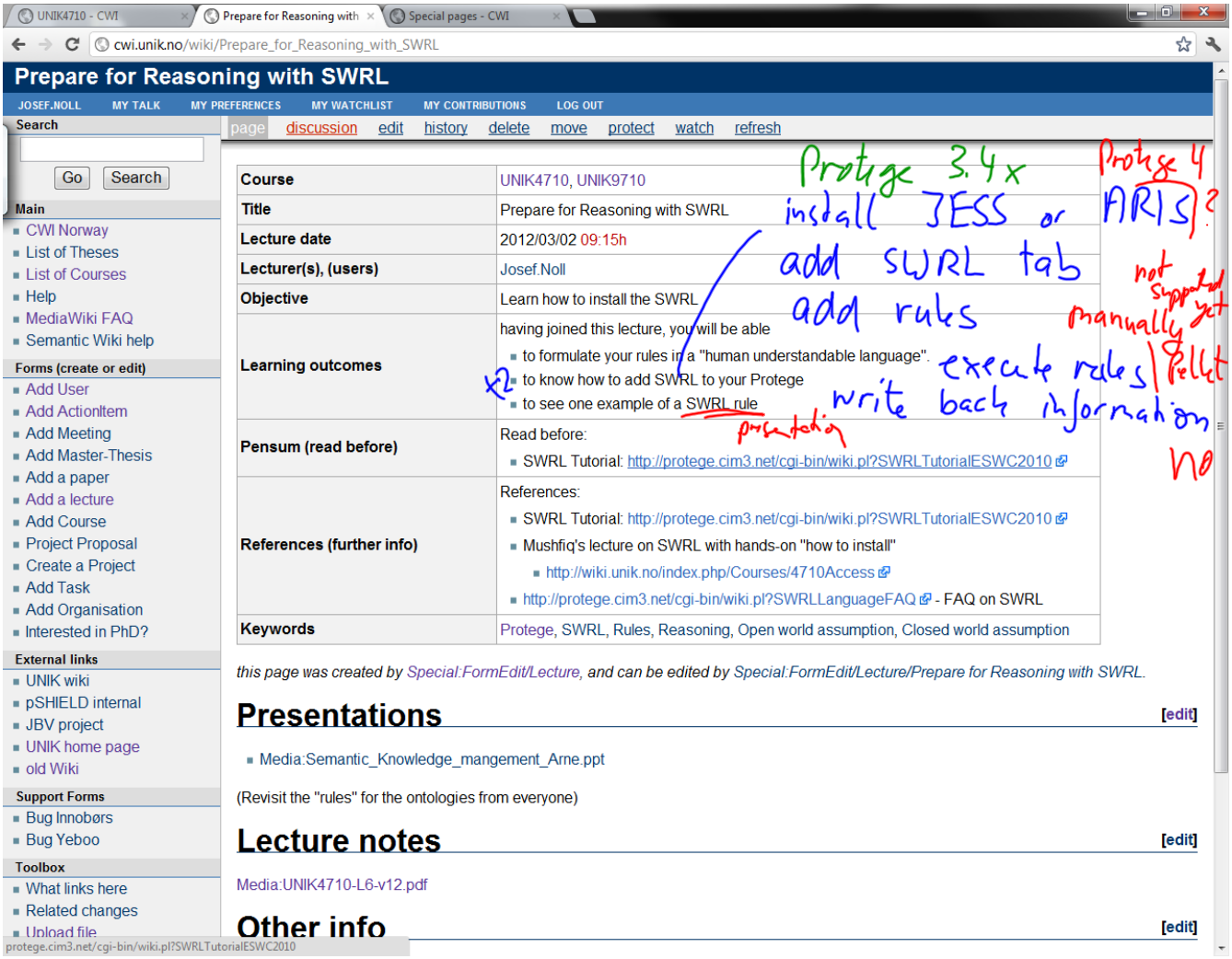
Presentations [edit]
Media:Semantic_Knowledge_mangement_Arne.ppt
(Revisit the "rules" for the ontologies from everyone)
Lecture notes [edit]
Media:UNIK4710-L6-v12.pdf
Other info [edit]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http://protege.cim3.net/cgi-bin/wiki.pl?SWRLLanguageFAQ - FAQ on SWRL
Keywords
Protege, SWRL, Rules, Reasoning, Open world assumption, Closed world assumption
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add SWRL tab
add rules
x2
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Protege 4
ARIS?
not supported yet
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execute rules | Pellet
write back information
no
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Media:UNIK4710-L6-v12.pdf
Other info [edit]
protege.cim3.net/cgi-bin/wiki.pl?SWRLTutorialESWC2010

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