

Context-aware Scenarios - x Basics of Semantics - CWI x Josef Noll - Google+ x Mobiltelefonen erstatter l x

cwi.unik.no/wiki/Basics\_of\_Semantics

<b>Support Forms</b>		Discussions
<ul style="list-style-type: none"> <li>■ Bug Innobørs</li> <li>■ Bug Yeboo</li> </ul>		<ul style="list-style-type: none"> <li>■ Tagging versus semantics: <a href="http://www.youtube.com/watch?v=olDpQwR8Fhk">http://www.youtube.com/watch?v=olDpQwR8Fhk</a></li> </ul>
<b>Toolbox</b>	<b>Keywords</b>	Semantic Technologies, Tripple Store, RDF, OData, Tags
<ul style="list-style-type: none"> <li>■ What links here</li> <li>■ Related changes</li> <li>■ Special pages</li> <li>■ Printable version</li> <li>■ Permanent link</li> <li>■ Browse properties</li> <li>■ Browse properties</li> </ul>	<p><i>this page was created by Special:FormEdit/Lecture, and can be edited by Special:FormEdit/Lecture/Basics of Semantics.</i></p>	

## Task for next lecture

- Establish a context aware scenario
  - Examples [Context-aware\\_Scenarios#Scenarios](#)
- Search for literature on some 4-5 scientific papers related to your scenario
- Download and install Protege (v3.8): <http://protege.stanford.edu/download/download.html>

## Test yourself, answer these questions



- What is the difference among the Web 1.0 and Web 2.0 and Web 3.0?
- What is the Semantic Web?
- Describe the problems in the current web and the vision of the sematic web.
- How would you define the main goals of the Semantic Web?
- What is an ontology?

## Lecture Notes & Scenarios

- Lecture notes - 2013: [Media:UNIK4710-L2-v13-LectureNotes.pdf](#)
- Video for the second lesson - 2013: <mms://lux.unik.no/UNIK4710-JN/UNIK-20130125.wmv>
- Lecture notes - 2012: [Media:UNIK4710-L2-v12-LectureNotes.pdf](#)
- Video for the second lesson - 2012: <mms://lux.unik.no/UNIK4710-JN/2012/UNIK-20120127.wmv>

## Other info

<b>title</b>	Basics of Semantics
<b>author</b>	

## Tasks

- Difference (DVL 1.0  $\leftrightarrow$  DVL 2.0)  
Proz. 3.5  $\leftrightarrow$  4.1

download Protégé 3.5 (beta)

The screenshot shows the Protégé download page with several handwritten annotations in red and blue. The page content includes:

- PROTEGE SOFTWARE**
- PLUG-INS**
- ONTOLOGIES**
- see also:**
- MAILING LISTS**
- PROTEGE-OWL SURVEY**

**download protégé**

- Protégé 4.2 beta** (support for OWL 2.0) ← no
- Protégé 4.1 release** (support for OWL 2.0)
- Protégé 3.5 beta** (support for OWL 1.0, RDF(S), and Frames) → Trippl Store
- Protégé 3.4.8 release** (support for OWL 1.0, RDF(S), and Frames)

**Protégé - older versions**

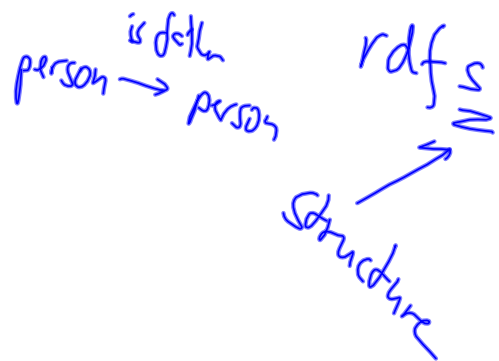
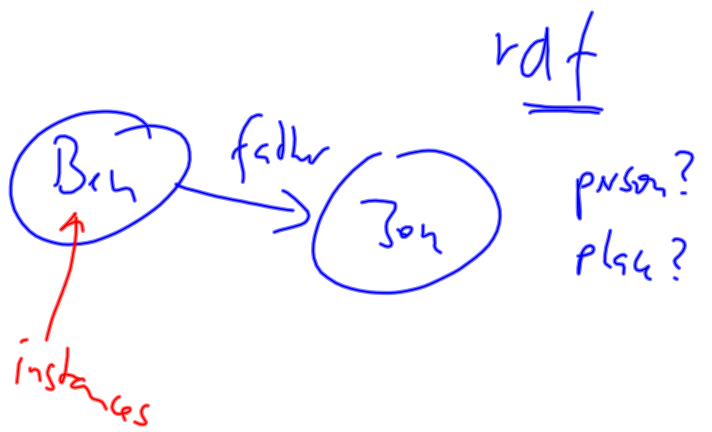
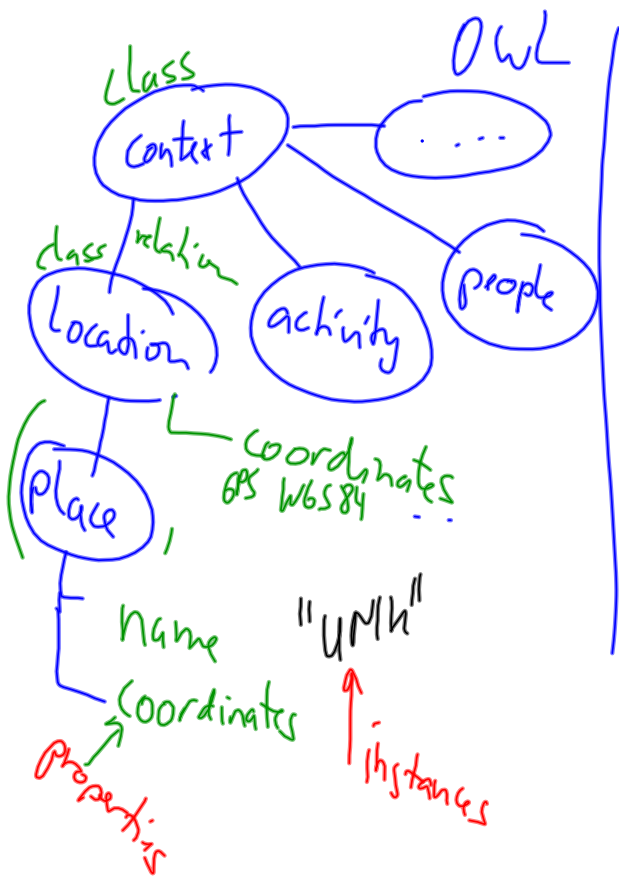
Not sure which version of Protégé is right for you? Please refer to our helpful [side-by-side comparison](#) of P3 vs. P4 on the Protégé wiki.

**WebProtege 0.5 beta**

Please note that in Protégé 4.1 and 4.2 beta, end users may choose between a platform independent installer program, a plain ZIP file, or an **application bundle** to install Protégé. For more information about how to choose an install method, read the "[How to Install](#)"

Handwritten notes on the right side of the page include:

- no
- rd/s
- Tripple Store
- Jon
- father
- 15/12



Context-aware Scenario x Basics of Semantics - CV x Josef Noll - Google+ x Mobiltelefonen erstatter x Download Protégé Soft x Export pages to RDF - CV x

cwi.unikno/wiki/Special:ExportRDF

## Export pages to RDF

JOSEF.NOLL MY TALK ADMIN LINKS MY PREFERENCES MY WATCHLIST MY CONTRIBUTIONS LOG OUT

Search

special page

This page allows you to obtain data from a page in RDF format. To export pages, enter the titles in the text box below, one title per line.

Josef\_Noll  
UNIK4710

*Export to RDF*

*RDF* *RDF*

*Josef-Noll* *lectures* *Courses* *Master Thesis*

Recursively export all related pages. Note that the result could be large!

Also export all pages that refer to the exported pages. Generates browsable RDF.

Do not export pages that were not changed since the given point in time.

*"Wiki"*

- CWI Norway
- List of Theses
- List of Courses
- Help
- MediaWiki FAQ
- Semantic Wiki help

Forms (create or edit)

- Add User
- Add ActionItem
- Add Meeting
- Add Master-Thesis
- Add a paper
- Add a lecture
- Add Course
- Project Proposal
- Create a Project
- Add PhD\_Thesis
- Add Task
- Add Organisation
- Interested in PhD?

External links

Context-aware Scenario x Basics of Semantics - CV x Josef Noll - Google+ x Mobiltelefonen erstatter x Download Protégé Soft x UNIK4710 - CWI x

cwi.unikno/wiki/UNIK4710

# UNIK4710

JOSEF.NOLL MY TALK ADMIN LINKS MY PREFERENCES MY WATCHLIST MY CONTRIBUTIONS LOG OUT

Search

page [discussion](#) [edit](#) [history](#) [delete](#) [move](#) [protect](#) [watch](#) [refresh](#)

## UNIK4710 - Mobile Service Delivery

*RDF Title export*

**News**

**Organisation UNIK**  
by **Josef Noll**

### User view: Service elements

Josefine connects and communicates according to her roles, needs and preferences

Sensors

PAN comm. devices

Network

Services adapted to

People

Context

Roles Profile Behaviour Creator

UNIK Semantic Mobile Service Environments 26. Feb 2008, Josef Noll 12

**Keywords**

## Ontology creation

- search
- create, go for "easy win"
  - simple
  - fits for your needs

Context-aware Scenarios - x Basics of Semantics - CWI x Protege 3.5 beta (build 64: x

cwi.unikno/wiki/Context-aware\_Scenarios

## ⌘ Scenarios

- Knowledge management by Arne, see Lecture notes [Basics\\_of\\_Semantics](#), [Media:UNIK4710-L2-v12-LectureNotes.pdf](#)
- eHealth at home by Serhat, see [Media:UNIK4710-Serhat-Scenario.pptx](#)
- Public screen - group profiles by Fabrice, see Lecture notes [Basics\\_of\\_Semantics](#)
- Tourist recommender by Susana, see Lecture notes [Basics\\_of\\_Semantics](#),

*properties*

```

graph LR
    Context((Context)) --- Position
    Context --- CurrentWork
    Context --- Movement
    Context --- Surrounding
    Position --- Indoor
    Position --- Outdoor
    Indoor --- PublicPlace[Public Place]
    Indoor --- PrivatePlace[Private place]
    Outdoor --- InTraffic[in traffic]
    Outdoor --- InNature[in nature]
    CurrentWork --- Meeting
    CurrentWork --- PCwork[PC-work]
    CurrentWork --- Phone
    CurrentWork --- Sports
    CurrentWork --- Leisure
    Movement --- DynamicMoving[Dynamic Moving]
    Movement --- WalkingSpeed[Walking speed]
    Movement --- Static
    Surrounding --- Alone[alone]
    Surrounding --- withFriends
    Surrounding --- withColleagues
    Surrounding --- InACrowd[in a crowd]
  
```

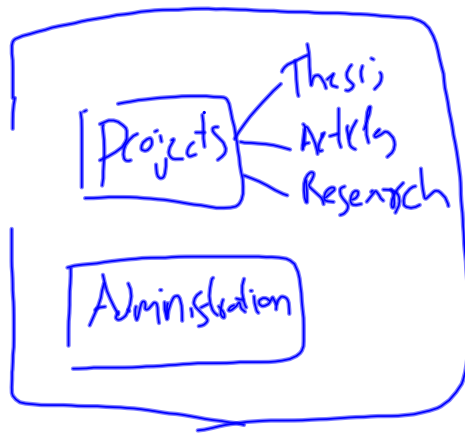
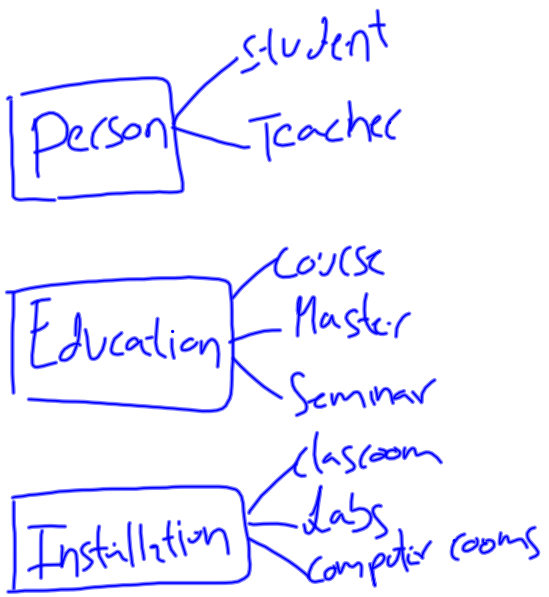
Media:UNIK4710\_MobileServiceDSusana.pdf

- Hypermusic by Sichao Song [Media:UNIK4710\\_Hypermusic\\_Song.pptx](#)

install\_protege\_3.5\_b...exe  
Avbrutt

Vis alle nedlastinger...





Context-aware Scenarios - Basics of Semantics - CWI - Protege 3.5 beta (build 64) - cwii.unik.no/wiki/Context-aware\_Scenarios

## ⌘ Scenarios

- Knowledge management by Arne, see Lecture notes Basics\_of\_Semantics, Media:UNIK4710-L2-v12-LectureNotes.pdf
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- Public screen-group profiles by Fabrice, see Lecture notes Basics\_of\_Semantics, Media:UNIK4710-Fabrice-Scenario.pptx
- Tourist recommendations by Susana, see Lecture notes Basics\_of\_Semantics, Media:UNIK4710-Susana-Scenario.pptx

*Handwritten notes: RDF export*

```

graph LR
    Context((Context)) --- Position
    Context --- CurrentWork
    Context --- Movement
    Context --- Surrounding

    Position --- Indoor
    Position --- Outdoor

    Indoor --- Home
    Indoor --- FriendsPlace
    Indoor --- Unknown

    Outdoor --- walking
    Outdoor --- bicycle
    Outdoor --- motorbike
    Outdoor --- in_traffic[in traffic]
    in_traffic --- car
    in_traffic --- bus
    in_traffic --- train
    in_traffic --- boat

    CurrentWork --- Meeting
    CurrentWork --- PC-work
    CurrentWork --- Phone
    CurrentWork --- Sports
    CurrentWork --- Leisure

    Movement --- Dynamic_Moving[Dynamic Moving]
    Movement --- Walking_speed
    Movement --- Static

    Surrounding --- alone
    Surrounding --- withFriends
    Surrounding --- withColleagues
    Surrounding --- in_a_crowd[in a crowd]
  
```

Media:UNIK4710\_MobileServiceDSusana.pdf

Media:UNIK4710\_Hypermusic\_Song.pptx

install\_protege\_3.5\_b...exe Avbrutt

Vis alle nedlastinger...

# Usability Description

## •Students.

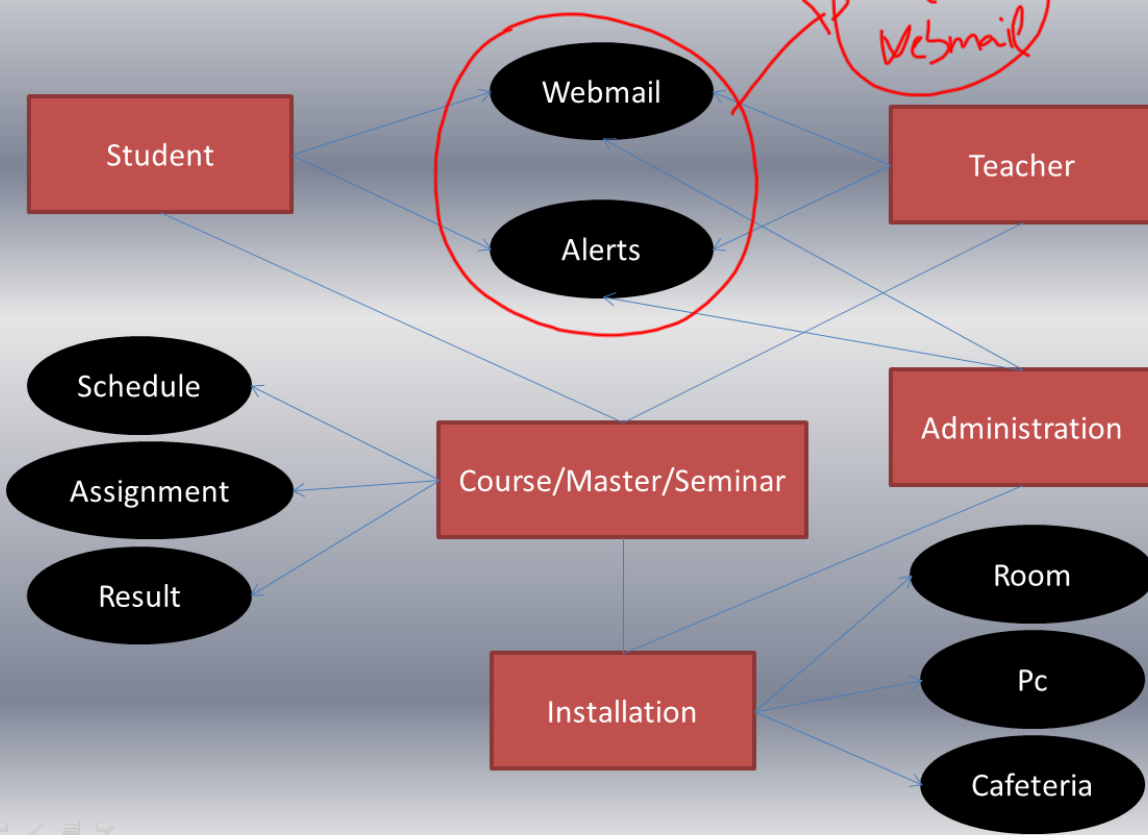
- Receive and sent alerts to other users, teachers or administration:
  - Verify if there is no changes about classrooms.
  - Postponed lectures or assignments.
  - Deadline or changes in the next assignments.
  - Result of exams and assignments.
  - Direct connection to the UiO webmail.?
- Facilities for choose courses to the Exchange/International/ Erasmus students.
  - Registry of the previous students with their university courses and with the validated courses at the UiO.

## •Employees.

- Know if there are students that cannot assist to a specific lecture. *Alert Sensors*
- Verify in which classroom the courses will be taught each day. *?*
- Check projects, thesis, articles and researches.?
- Receive and send alerts to students, other teachers and administration:
  - Changes in the classrooms, there is no capacity in the actual classroom, substitute teacher in a specific date, something broken in the classroom or any computer. *Administration*
  - Direct connection to UiO webmail.?
- Check classrooms, labs, computer rooms, computers, office by the administration:
  - Check if installations are ok.
  - Able to change if something was fixed.

# Relations

Alert of Webmail



type of alert

privacy ← access rights

useful?  
knowledge?

rule:  
- available rooms  
- avail. rooms with capacity

- 4
- 70
- 20
- 50
- 100

