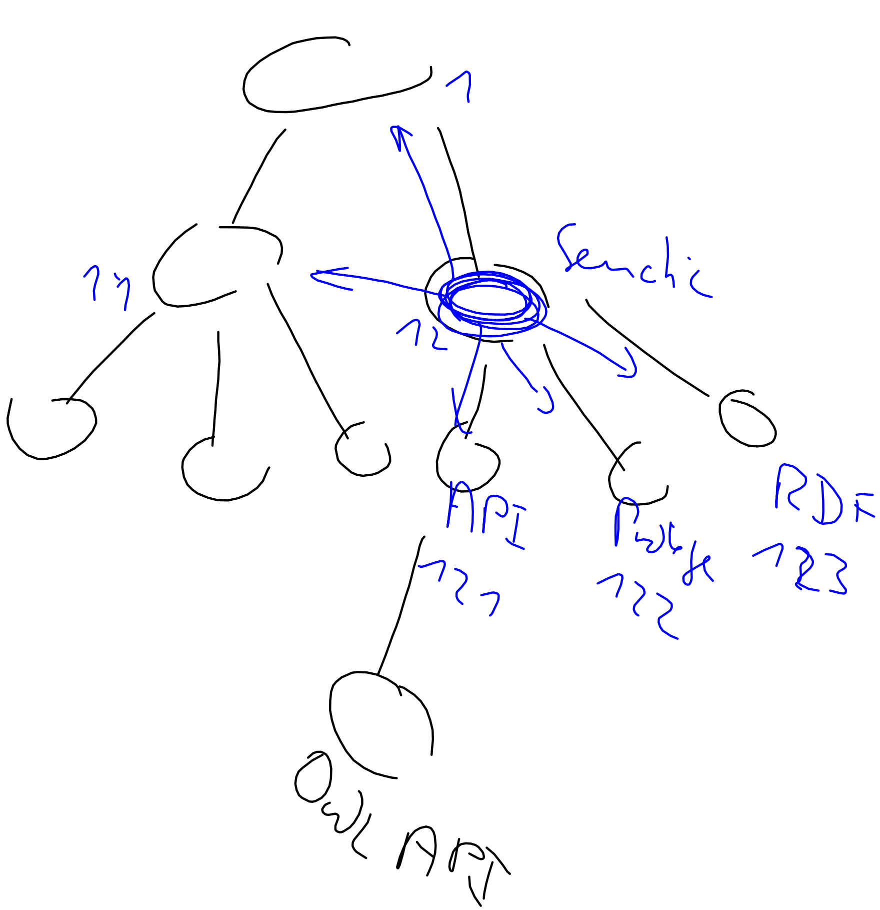


API

- OWL
- Jena

Reasoning

UNIK4710-L17-V13.pdf

Jose: Ontology ✓

java export : export ✓

↳ .java

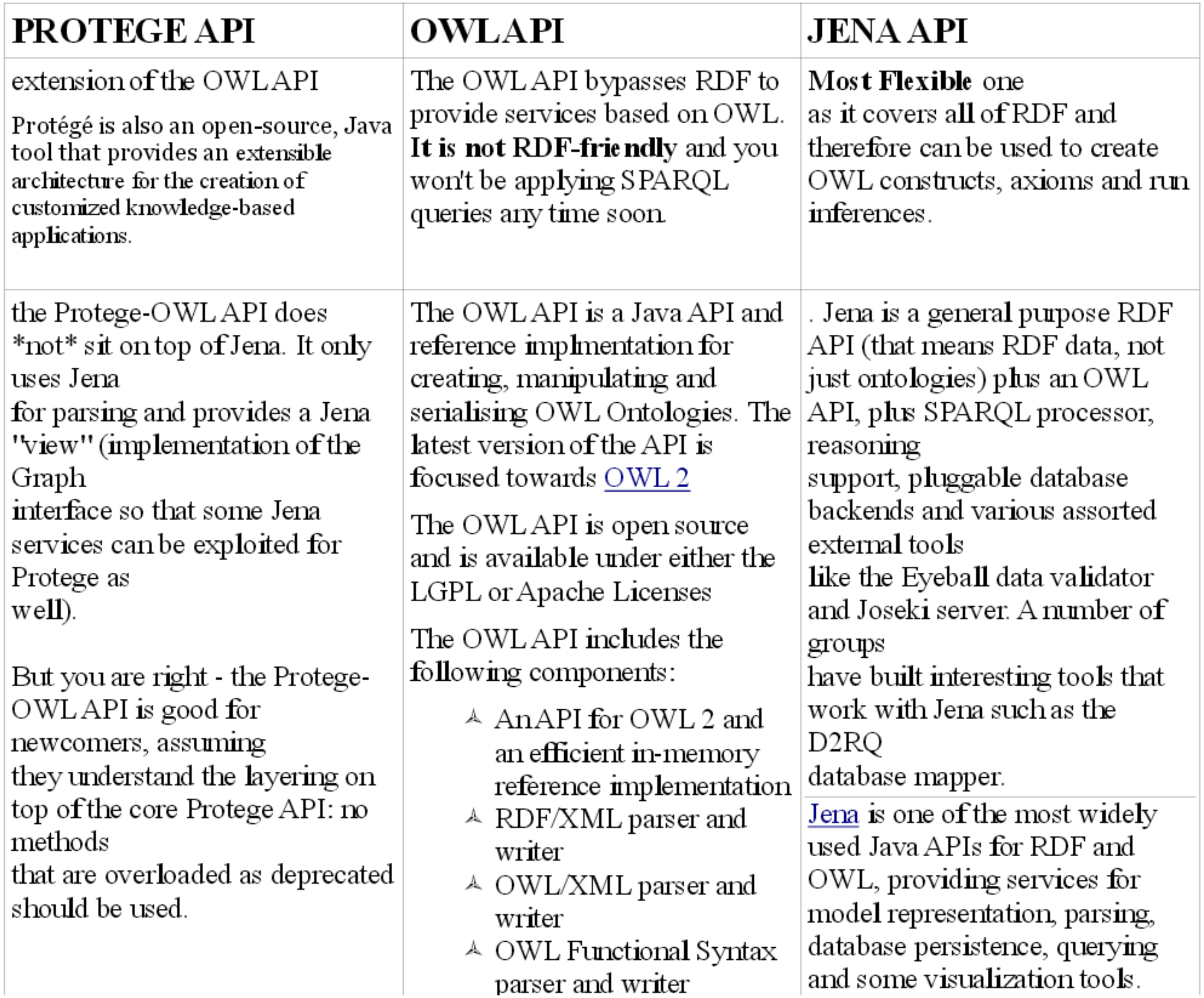
Start Java project:

Create classes & structure

- same project folder as Protege
- add .jar files into project
- add .java files (Ontology)
- start OWL-API to fetch indiv. (to perform reasoning)

:

Comparison_API.pdf

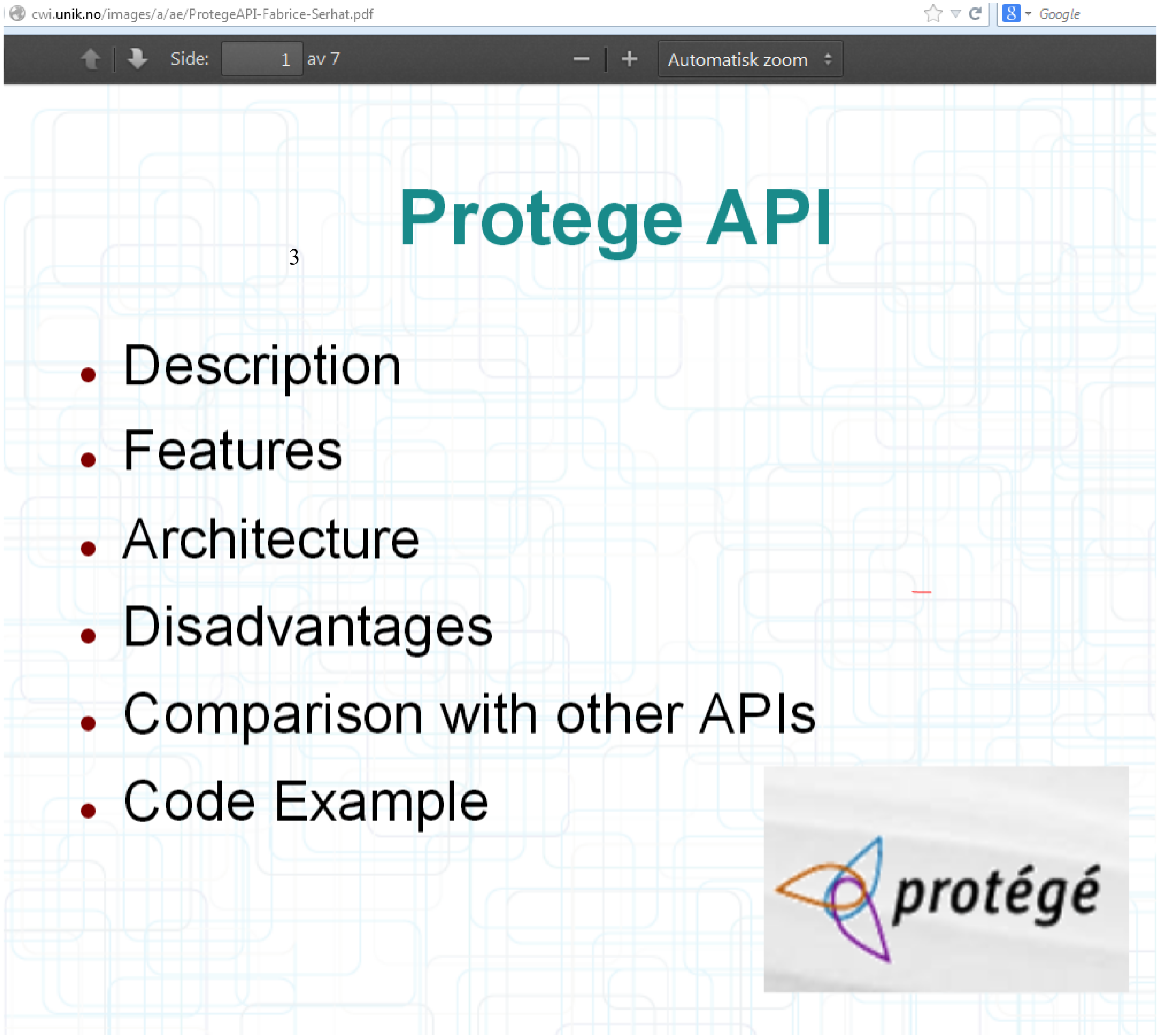


PROTEGE API	OWLAPI	JENA API
extension of the OWLAPI Protégé is also an open-source, Java tool that provides an extensible architecture for the creation of customized knowledge-based applications.	The OWLAPI bypasses RDF to provide services based on OWL. **It is not RDF-friendly** and you won't be applying SPARQL queries any time soon.	**Most Flexible** one as it covers all of RDF and therefore can be used to create OWL constructs, axioms and run inferences.
the Protege-OWLAPI does *not* sit on top of Jena. It only uses Jena for parsing and provides a Jena "view" (implementation of the Graph interface so that some Jena services can be exploited for Protege as well). But you are right - the Protege-OWLAPI is good for newcomers, assuming they understand the layering on top of the core Protege API: no methods that are overloaded as deprecated should be used.	The OWLAPI is a Java API and reference implmentation for creating, manipulating and serialising OWL Ontologies. The latest version of the API is focused towards OWL 2 The OWLAPI is open source and is available under either the LGPL or Apache Licenses The OWLAPI includes the following components: ⅄ An API for OWL 2 and an efficient in-memory reference implementation ⅄ RDF/XML parser and writer ⅄ OWL/XML parser and writer ⅄ OWL Functional Syntax parser and writer	. Jena is a general purpose RDF API (that means RDF data, not just ontologies) plus an OWL API, plus SPARQL processor, reasoning support, pluggable database backends and various assorted external tools like the Eyeball data validator and Joseki server. A number of groups have built interesting tools that work with Jena such as the D2RQ database mapper. Jena is one of the most widely used Java APIs for RDF and OWL, providing services for model representation, parsing, database persistence, querying and some visualization tools.

Expriences OWL-API

- classes ✓ easy to access
- instaces ~~need~~ work around
  trial & error

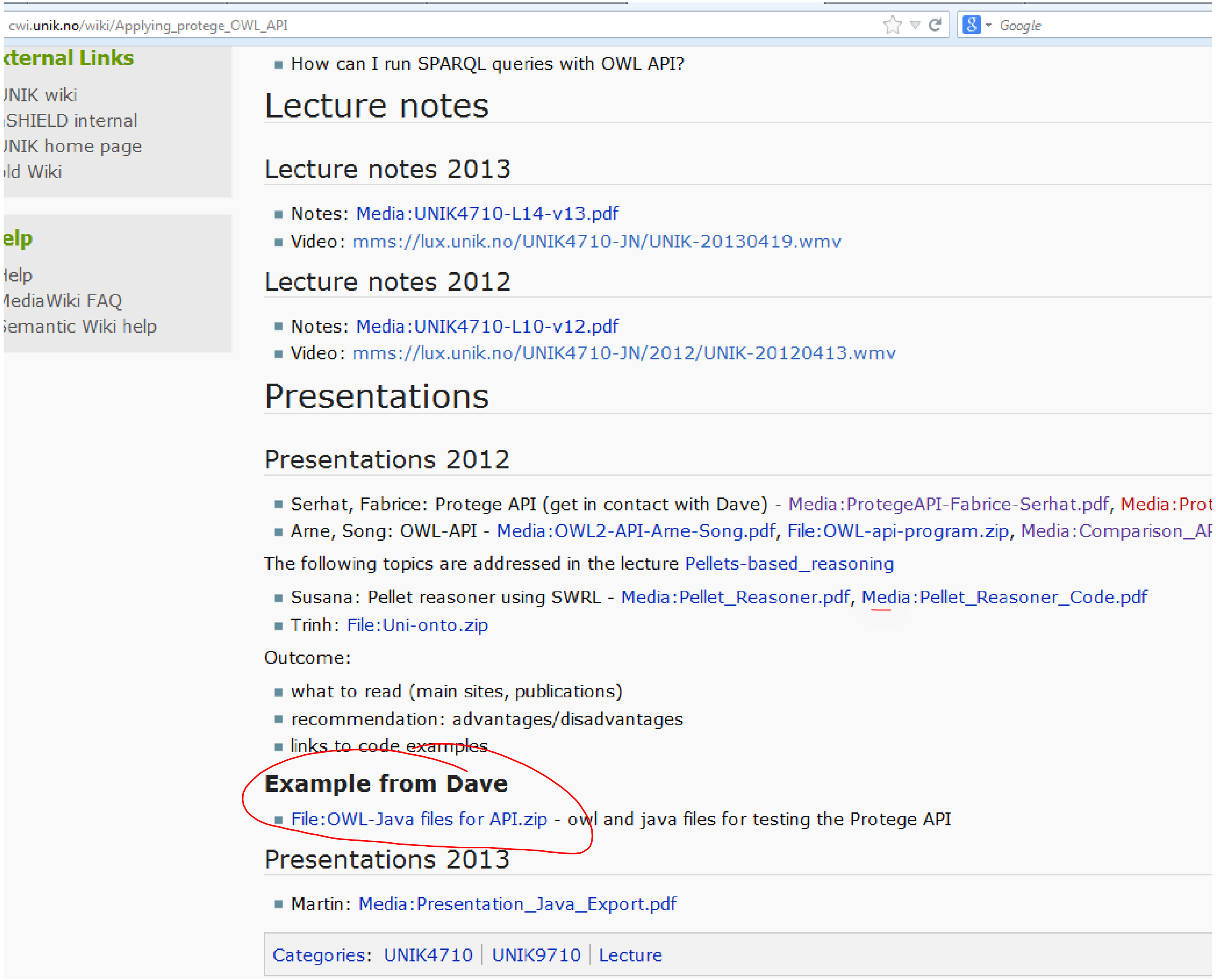
- more time than expected
- Documentation from other examples
- little help when programming (IDE)



3

Protege API

- Description
- Features
- Architecture
- Disadvantages
- Comparison with other APIs
- Code Example



cwi.unik.no/wiki/Applying_protege_OWL_API

xternal Links

- JNIK wiki
- SHIELD internal
- JNIK home page
- ld Wiki

elp

- lelp
- lediaWiki FAQ
- emantic Wiki help

- How can I run SPARQL queries with OWL API?

Lecture notes

Lecture notes 2013

- Notes: Media:UNIK4710-L14-v13.pdf
- Video: mms://lux.unik.no/UNIK4710-JN/UNIK-20130419.wmv

Lecture notes 2012

- Notes: Media:UNIK4710-L10-v12.pdf
- Video: mms://lux.unik.no/UNIK4710-JN/2012/UNIK-20120413.wmv

Presentations

Presentations 2012

- Serhat, Fabrice: Protege API (get in contact with Dave) - Media:ProtegeAPI-Fabrice-Serhat.pdf, Media:Prot
- Arne, Song: OWL-API - Media:OWL2-API-Arne-Song.pdf, File:OWL-api-program.zip, Media:Comparison_AP

The following topics are addressed in the lecture Pellets-based_reasoning

- Susana: Pellet reasoner using SWRL - Media:Pellet_Reasoner.pdf, Media:Pellet_Reasoner_Code.pdf
- Trinh: File:Uni-onto.zip

Outcome:

- what to read (main sites, publications)
- recommendation: advantages/disadvantages
- links to code examples

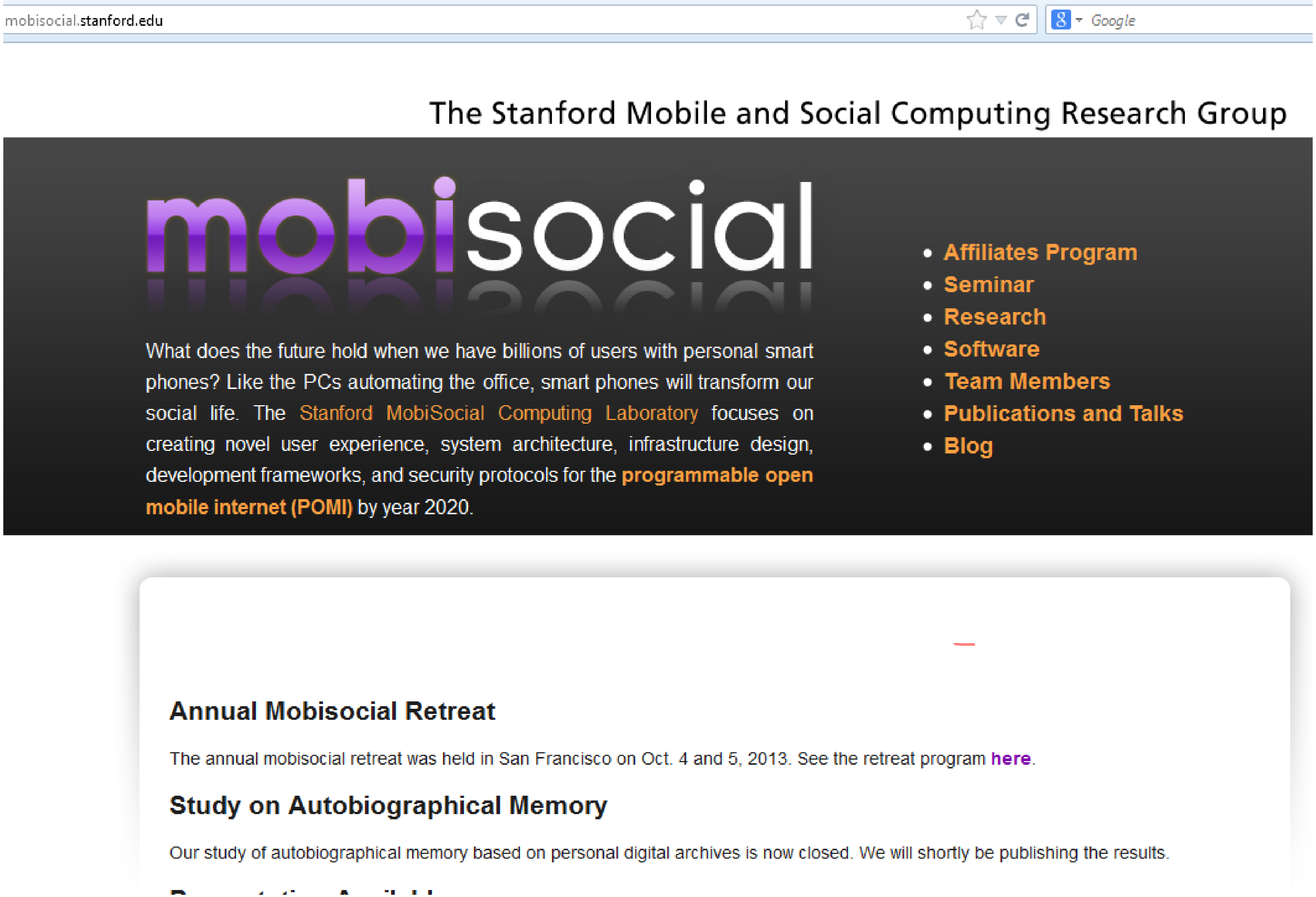
Example from Dave

- File:OWL-Java files for API.zip - owl and java files for testing the Protege API

Presentations 2013

- Martin: Media:Presentation_Java_Export.pdf

Categories: UNIK4710 | UNIK9710 | Lecture



mobisocial.stanford.edu

The Stanford Mobile and Social Computing Research Group

mobisocial

What does the future hold when we have billions of users with personal smart phones? Like the PCs automating the office, smart phones will transform our social life. The Stanford MobiSocial Computing Laboratory focuses on creating novel user experience, system architecture, infrastructure design, development frameworks, and security protocols for the **programmable open mobile internet (POMI)** by year 2020.

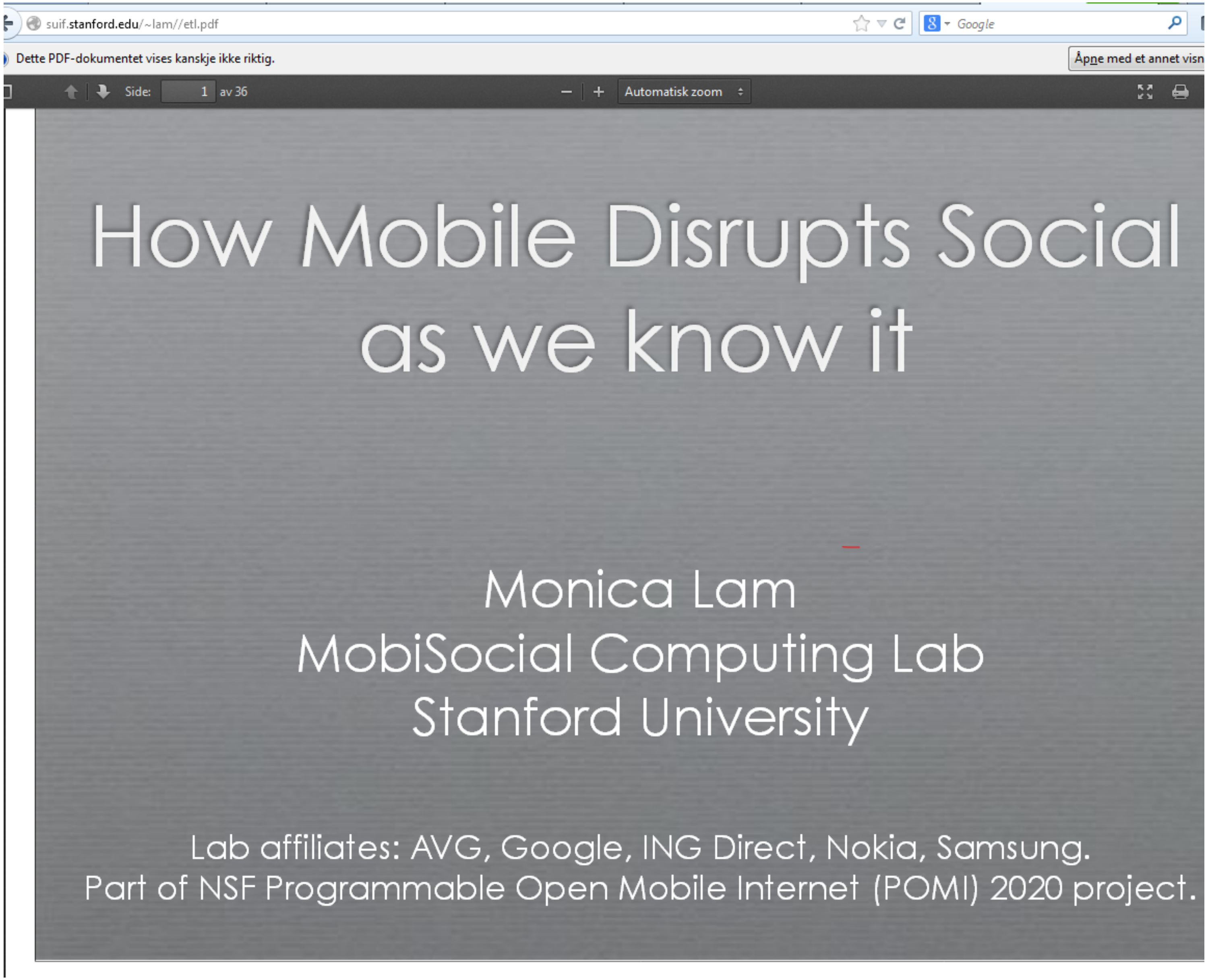
- **Affiliates Program**
- **Seminar**
- **Research**
- **Software**
- **Team Members**
- **Publications and Talks**
- **Blog**

Annual Mobisocial Retreat

The annual mobisocial retreat was held in San Francisco on Oct. 4 and 5, 2013. See the retreat program **here**.

Study on Autobiographical Memory

Our study of autobiographical memory based on personal digital archives is now closed. We will shortly be publishing the results.

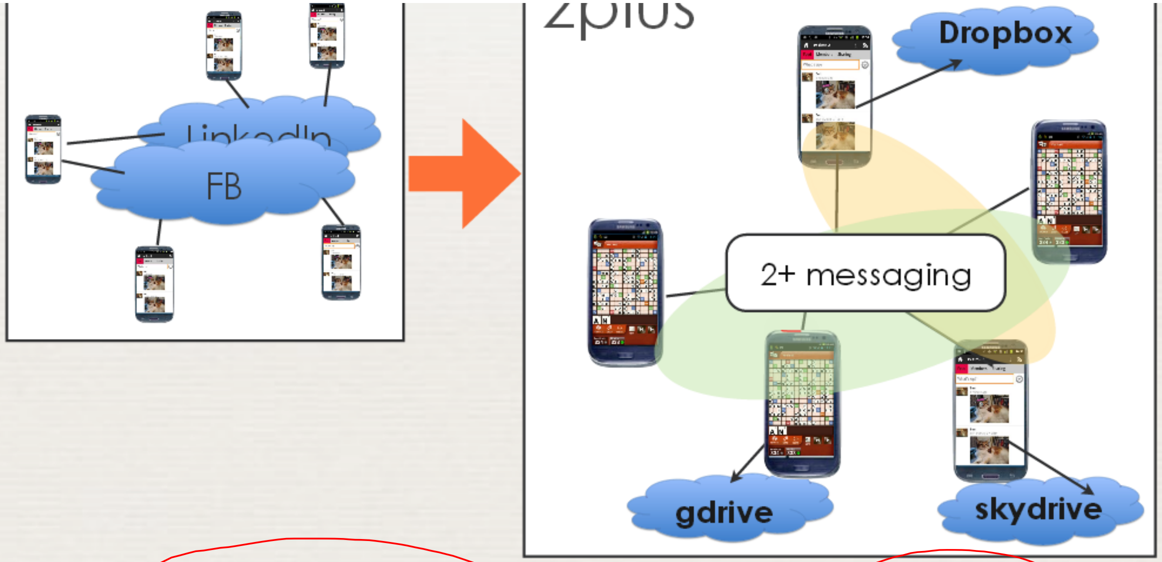


suif.stanford.edu/~lam//etl.pdf
Google
Dette PDF-dokumentet vises kanskje ikke riktig.
Åpne med et annet visn
Side: 1 av 36
Automatisk zoom

How Mobile Disrupts Social as we know it

Monica Lam
MobiSocial Computing Lab
Stanford University

Lab affiliates: AVG, Google, ING Direct, Nokia, Samsung.
Part of NSF Programmable Open Mobile Internet (POMI) 2020 project.



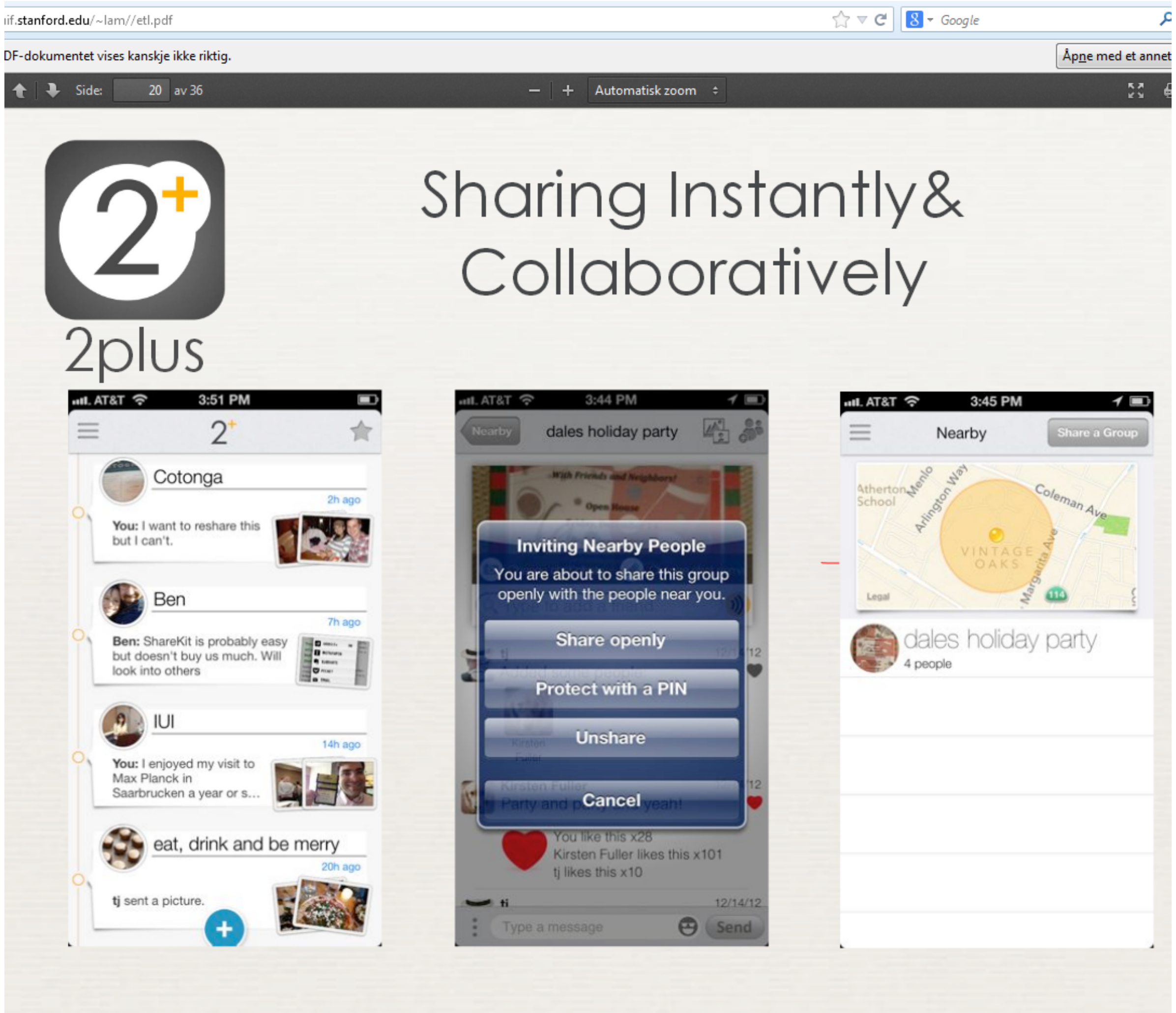
[WWW 2012]

OSM delivers messages based on user identities.
Leverages personal phones & abundant cloud providers.

Mobile "restrictive" Roles
Context

FILTER

Context - aware services



iif.stanford.edu/~lam//etl.pdf
Google
DF-dokumentet vises kanskje ikke riktig.
Åpne med et annet
Side: 20 av 36
Automatisk zoom

2plus

Sharing Instantly& Collaboratively

Cotonga 2h ago
You: I want to reshare this but I can't.

Ben 7h ago
Ben: ShareKit is probably easy but doesn't buy us much. Will look into others

IUI 14h ago
You: I enjoyed my visit to Max Planck in Saarbrucken a year or s…

eat, drink and be merry 20h ago
tj sent a picture.

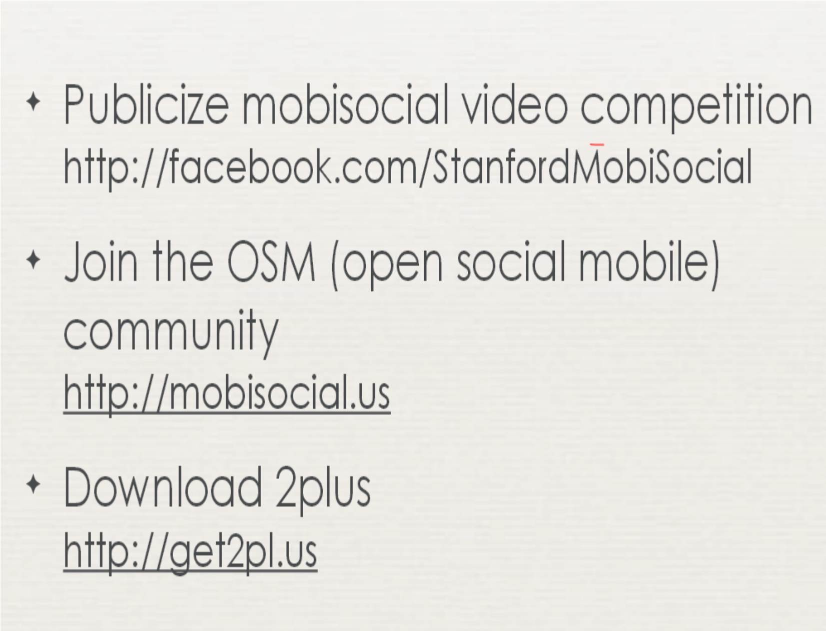
Inviting Nearby People

You are about to share this group openly with the people near you.

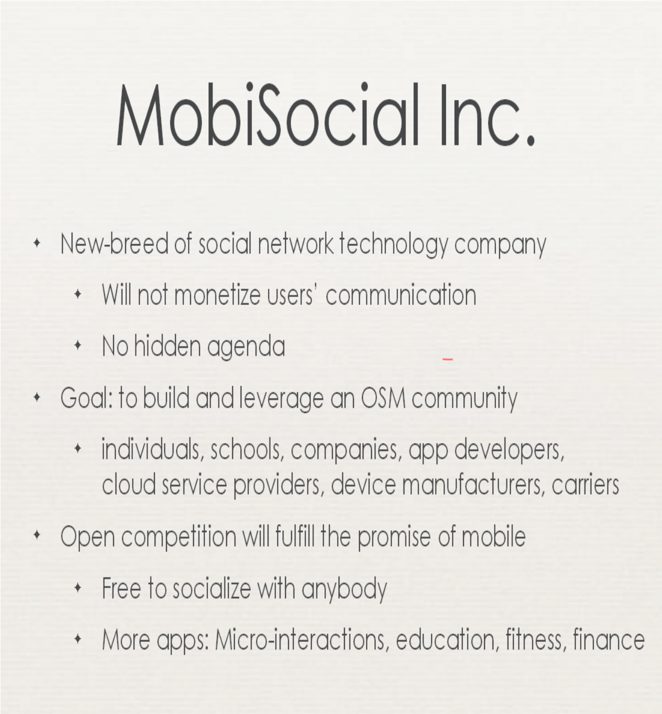
You like this x28
Kirsten Fuller likes this x101
tj likes this x10

dales holiday party
4 people

Note for Josef



- Publicize mobisocial video competition
  http://facebook.com/StanfordMobiSocial
- Join the OSM (open social mobile) community
  http://mobisocial.us
- Download 2plus
  http://get2pl.us



MobiSocial Inc.

- New-breed of social network technology company
  - Will not monetize users' communication
  - No hidden agenda
- Goal: to build and leverage an OSM community
  - individuals, schools, companies, app developers, cloud service providers, device manufacturers, carriers
- Open competition will fulfill the promise of mobile
  - Free to socialize with anybody
  - More apps: Micro-interactions, education, fitness, finance

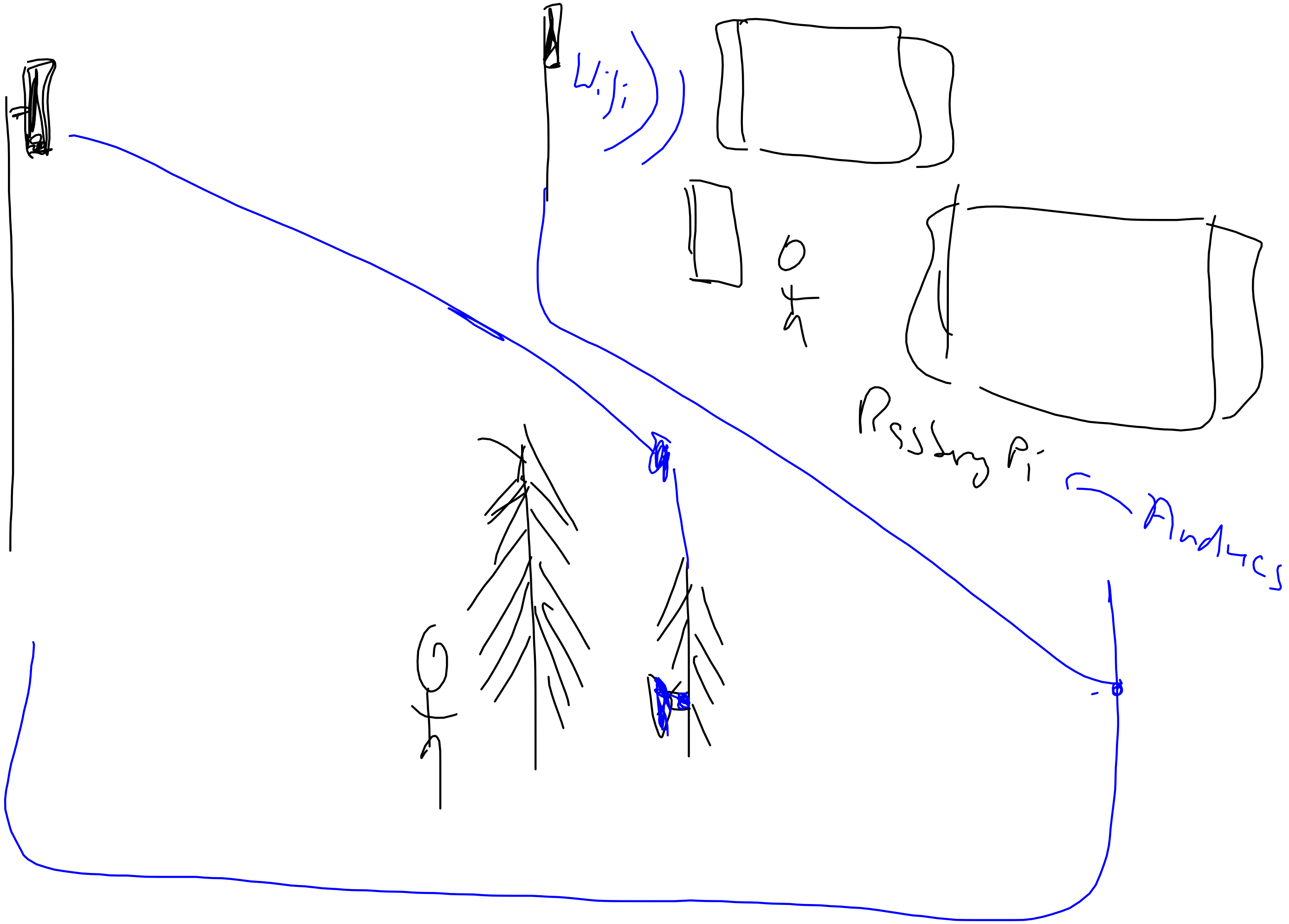
Reasoning

- valid ontology
- find "matching properties"

Query

External program

Nikhil's O-loop scenario


Wifi
Passing Pi
Arduinos