

Challenge: Interoperability

2.5G = EDGE (evolution)

2G → UMTS "~~2002~~" 2006!

IP<sub>v4</sub> → IP<sub>v6</sub>  
2002

2014 } only duplicate

handover

2G → 3G  
new phone  
7G → 2G

economists  
300% 16 → 26 → 300

Semantics

OWL

Tripple Store

RDF

Protege —  
4.x, 3.x

0 Data

— Semantic  
Mediawiki,  
Protege 3.x

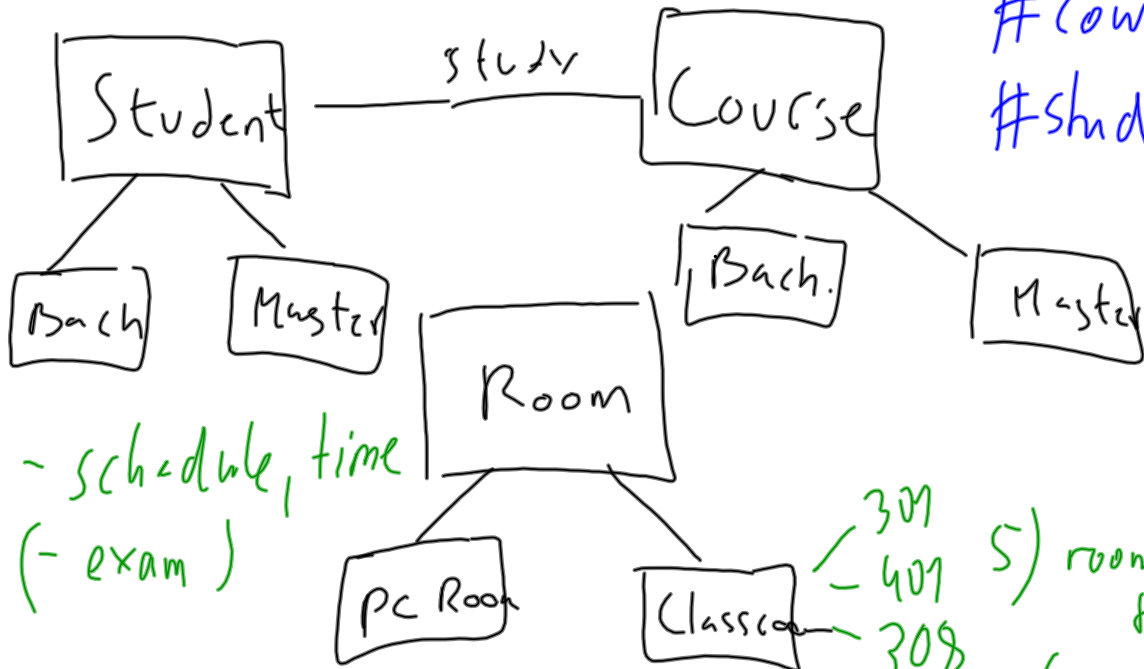
Protege

Classes



Verbal "rules"

education capacity  
rooms, courses



# courses  
# students

- schedule, time  
(- exam)

5) room facilities  
Comm facilities  
Comp. facilities

- 1) Students see their courses
- 2) Students have  $> 1 \leq 5$  Courses
- 3) Students ins selected course
- 4) Which Courses are taught in selected room
- 5) Rooms need to have facilities needed for the courses

0 courses required to achieve a degree  
 remaining courses required # points/course

Difference Query  $\leftrightarrow$  Rule

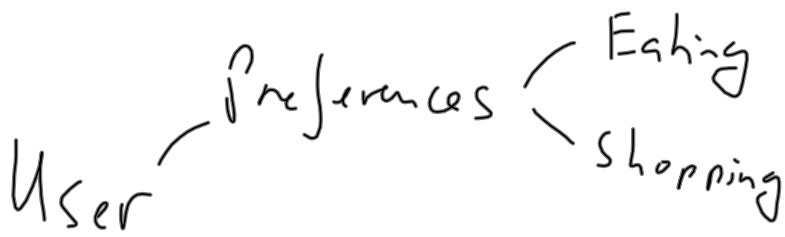
Query: "easy guess"  $\Rightarrow$  list  
rule-based query                      SQWRL

Rule: add. information (trans. properties)  
SWRL

Restrictions?

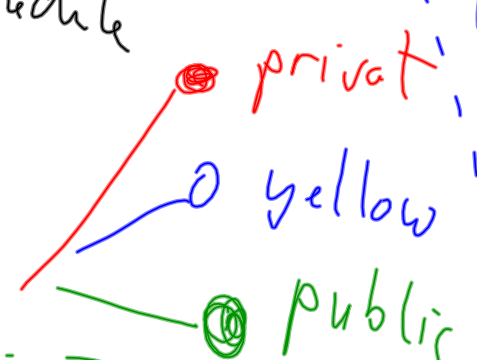
# Semantic Access (Markin)

Rules:

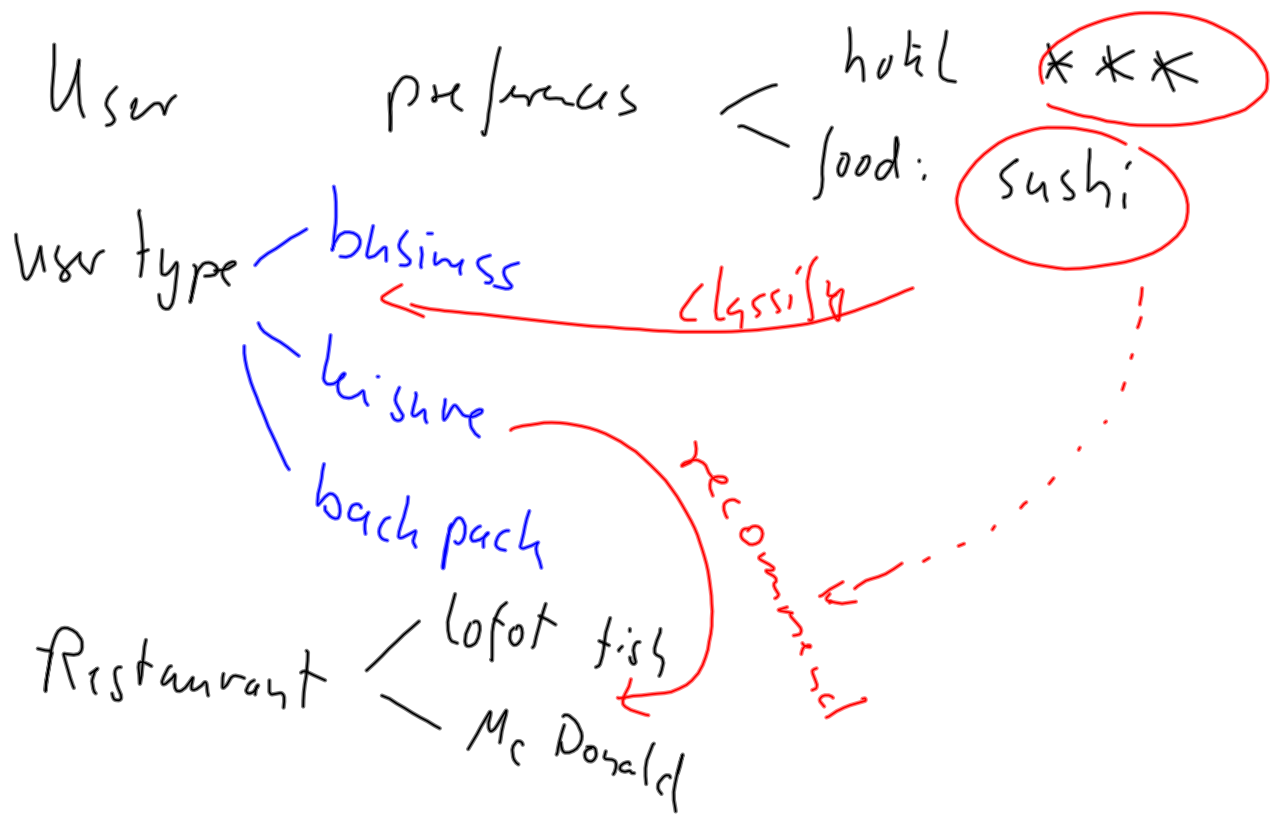


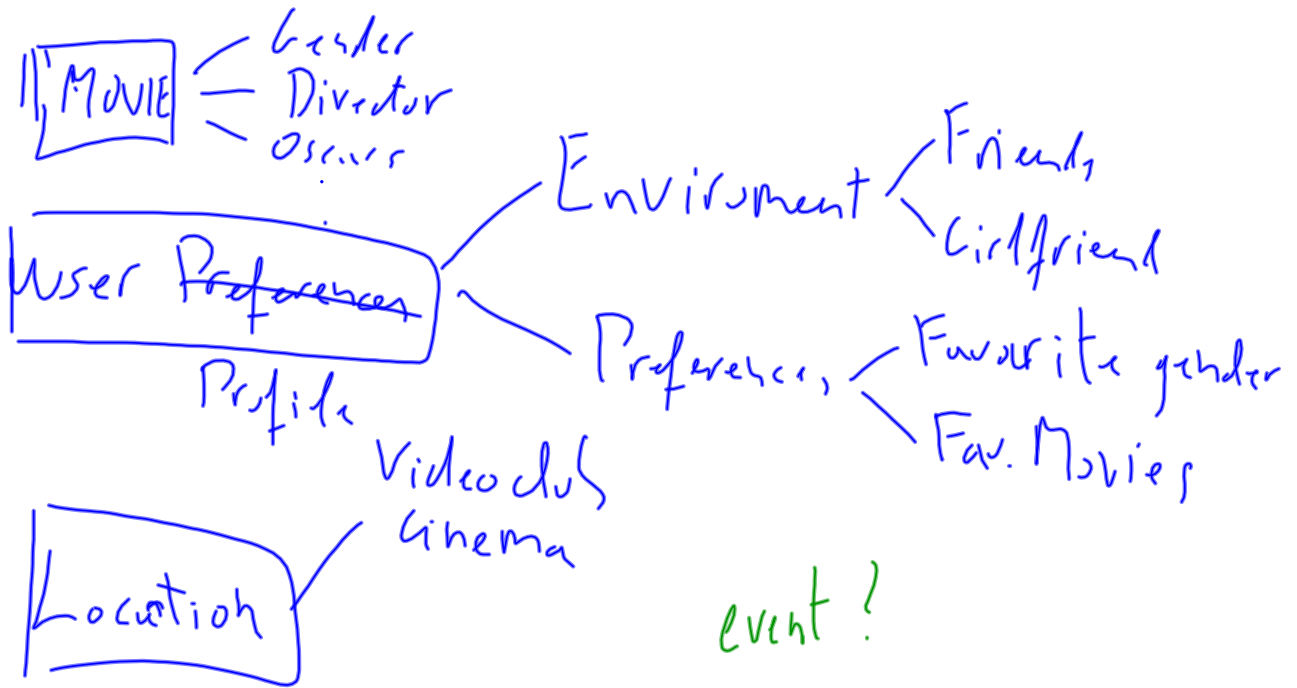
- # people travelling
- average sec level
- travel preferences
- user classification

- type of user
- time
- place



- type of users with type of preferences
- security expectation of a place suggest sec level used at place





show cinemas with fav. movies in  
 friend list // preferences // movie fits  
 L days most preferences  
 L friends ? soccer  
dancing



Shi race

classes

8-9

9-10

11-17

start times

14-15

3 children

location

travelling together

People / club  
location