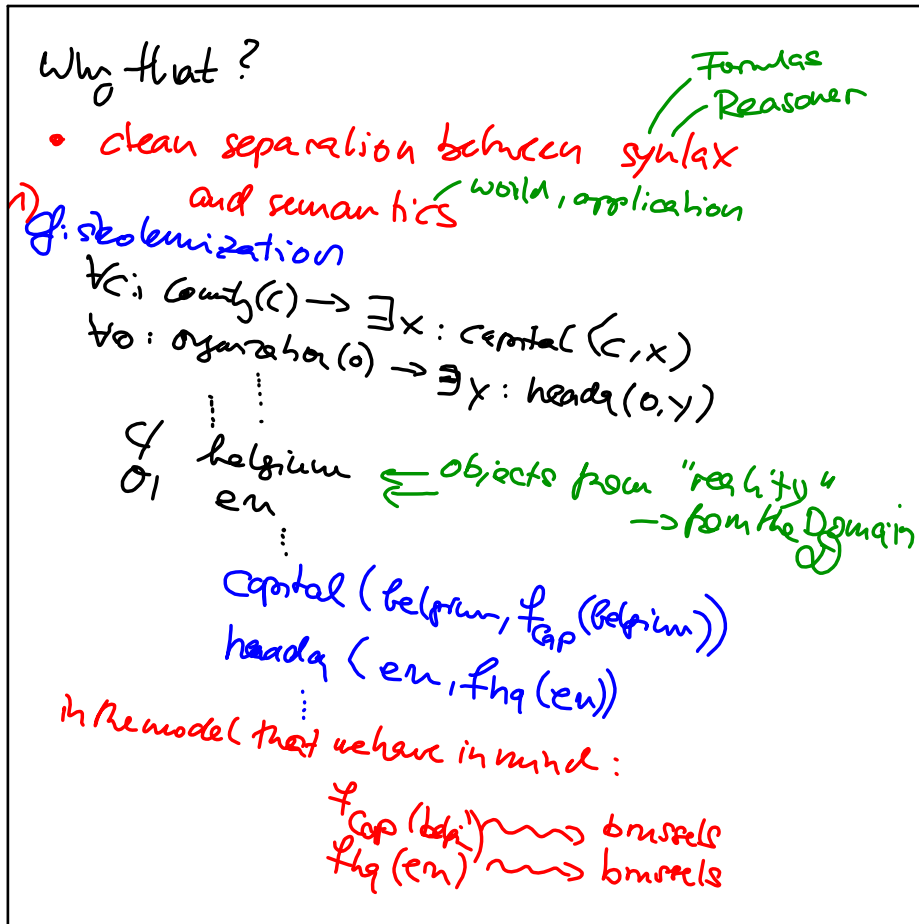


Nov 13-10:11



Nov 13-10:31

2) Semantic Web Applications

source 1) handuellDB

$\langle \text{http://www.handuell.de/County/D} \rangle$ a :County;

source 2) Geo Facts ... :name "Germany".

$\langle \text{http://geodata.org/Objects/Countries/C12345} \rangle$
a:County; name "Germany".

Ontology:

:County a owl:Class.
:name a rdf:Property; $\sim \text{domain} \supseteq \text{County}$
a owl:FunctionalProperty.

\rightsquigarrow Reasoner:

$\langle \text{http://www.handuell.de/County/D} \rangle$ ^{owl:sameAs} \neq $\langle \text{geodata.org/.../C12345} \rangle$
 \rightarrow objects described are the same!

$\Rightarrow I(\langle \text{http://www.handuell.de/County/D} \rangle)$
 $= I(\langle \text{geodata.org/.../C12345} \rangle)$
 \uparrow
math. stackex \approx germany

Nov 13-10:39