

Ontology project (part of CC for KR module)

Task: creation of a small ontology in Protégé

Project to be done by pairs of students (binôme)

Deadline for submitting file: Wednesday November 26

Presentation / discussion: scheduled first half of December

Ontology creation in Protégé

- Pick a topic and create a small ontology in Protégé (see next slide)
- **Submit your ontology file**, making sure to include comments with short descriptions of the intended meaning of classes and properties
- **Short presentation** of your ontology, show which axioms included, show inferred axioms, explain one or two interesting entailments
- Hint: can use explanation feature both to aid in creation / debugging and to find interesting entailed axioms
- Important: *if you have already prepared an ontology for another course*, you need to let me know, submit a copy of the earlier ontology, and explain during the presentation the novel aspects you explored with your new ontology (or let me know in advance and we can find an alternative project)

Guidelines for ontology creation

- Approx. 15-30 classes, 2-5 properties
- **More important than size: use of many kinds of constructors, axioms**
 - conjunction, disjunction, forall, exists, negation, cardinality constraints
 - disjointness statements, role inverse, role inclusion, etc.
- **Try to be relatively complete:** add domain and range where appropriate, include all desirable disjointness statements, etc.
- **Try to get at least one interesting entailment** (involves non-trivial combination of several axioms) that you can describe during the presentation
- Optional: also include facts about individuals, with non-trivial entailments