

Ontologies - Practical Session 3

Validating, documenting, deploying

During the three practical sessions of the ontology course (of which this is the last), we will go through the process of building a complete ontology. Since ontologies should be shared and consensual, and a big part of the process is about discussing and pondering possible representations of concepts, you will do this in groups of 3 or 4.

T1: Reintegrate the group you were in last time. If you were not in a group the last time, find one.

Note that you will need to submit the final ontology as well as its documentation and a short report on the different steps you went through to build it after the third practical session. Make sure to **keep notes** of everything you do today and during the other sessions.

The ontology, documentation, and report should be submitted on Arche by **Friday 24th February 2023 10pm**.

Today, you will restart from the refined ontology you made last time. Make sure that you are reasonably satisfied with it before starting. We will do things in a slightly different order than in the lecture.

T2: Retrieve the competency questions you wrote during the first practical session. For each of them, see if it can be answered by your ontology if you add some example individuals to it.

T3: Try to run the reasoner in Protégé to check if the inferences it makes are logically consistent and with what you would expect (on the individuals you have already created above, or adding more if those are not sufficient). If any inference feels wrong, correct the corresponding definitions. Add more logical definition to your concepts to enable more inference.

T4: Add labels and comments to your ontology and see if you generate the documentation (through the OWLDoc plugin, WIDOCO, or OWLDocGen). Check the generated documentation and correct/add labels and comments if needed.

T5: Make sure to choose a valid IRI for your ontology.