# Cogui Tutorial : Vocabulary

The vocabulary is composed of two partially ordered sets: a set of concepts, a set of relations of any arity and a set of individual markers. The three sets are pairwise disjoint. The partial order represents a specialization relation. The support can be extended by introducing banned concept types to represent disjointness. The relations can also be equipped with a signature that will not only specify the arity of the relation but also the maximal concept type of each of its arguments.

1.  Open the cogxml file Tutorial-step1.cogxml

The file contains a knowledge base about family relations:

- A concept hierarchy partially ordering the concepts Human, Female, Girl, Woman and Child.

- A relation hierarchy partially ordering the relations link, relatedWith, marriedTo, siblingOf, ancestorOf, parentOf, childOf, like and dislike.

- A set of individuals consisting only of one individual Mary, a woman.

2.  Exercise: Insert in the concept type hierarchy the concepts Male, Man and Boy and add a banned type between Male and Female

Hints:

- Use both the tree view and the graph view for insertion.

3. Exercise: Insert into the relation type hierarchy the relations motherOf with the signature Woman and Human, fatherOf(Man, Human), sisterOf(Female, Human) and brotherOf(Male, Human)

Hints:

- Use both the tree view and the graph view for insertion.

- Use both edit relation signature and suggest signature for editing the relation signatures.

4.  Exercise: Translate the concept Man in French and Spanish

5. The solution to this tutorial is in Tutorial-step2.cogxml.