Properties and internal reasoning in Protégé

José María Moreno Retamero

What a property is?

Property

Object → Matthew hasSister Gemma ← Object

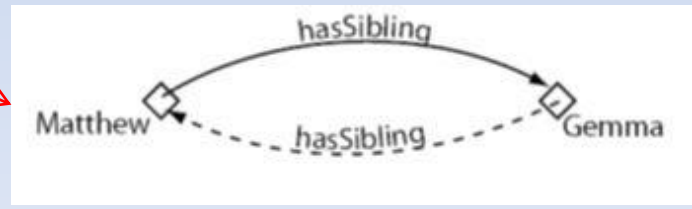An object property linking the individual Matthew to the individual Gemma
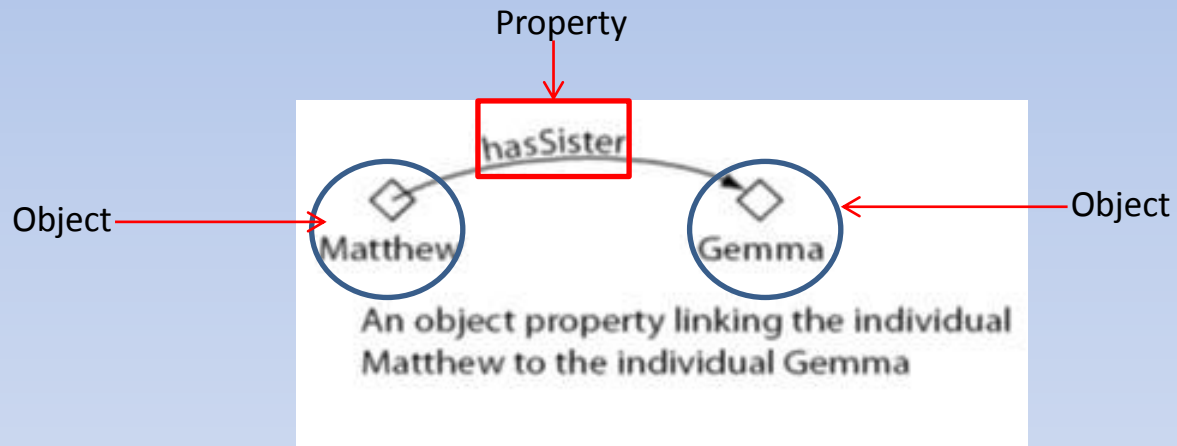
How define properties and sub-properties in Protégé?
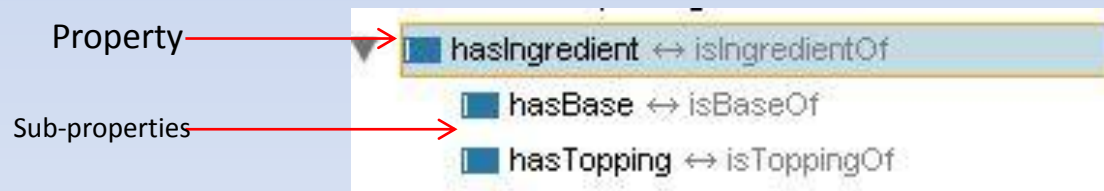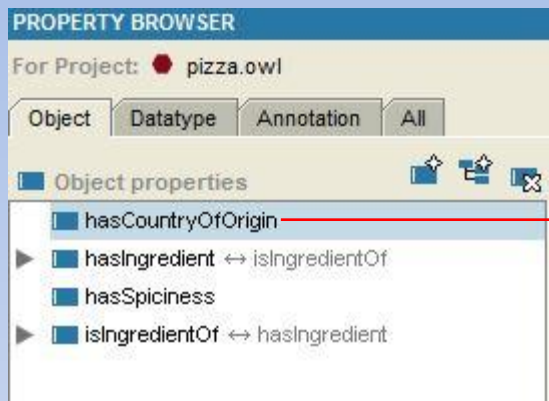
PROPERTY BROWSER

For Project: ● pizza.owl

| Object | Datatype | Annotation | All |

■ Object properties

- ■ hasCountryOfOrigin
- ▶ ■ hasIngredient ↔ isIngredientOf
- ■ hasSpiciness
- ▶ ■ isIngredientOf ↔ hasIngredient

Domain ⊔
● Pizza

Range ⊔
● Country

Property → ▼ ■ hasIngredient ↔ isIngredientOf

Sub-properties → ■ hasBase ↔ isBaseOf

■ hasTopping ↔ isToppingOf

Property characterictics
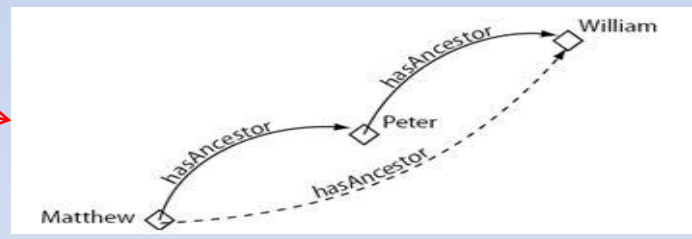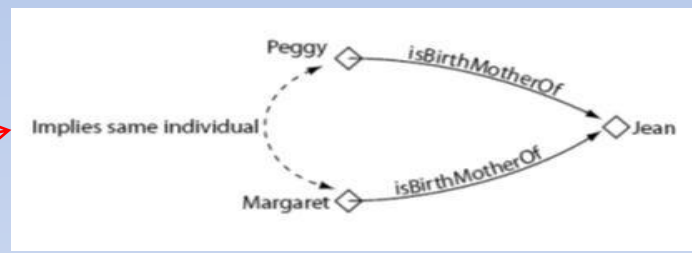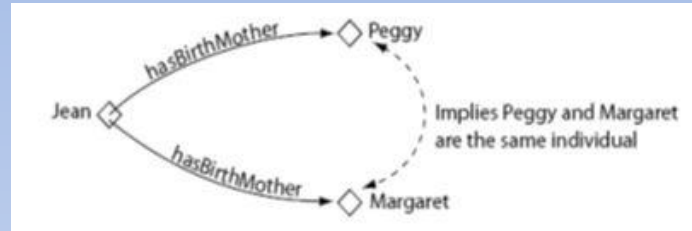
Internal reasoning's in Protégé

The results of the queries depends of the definition we've used in objects, properties, characteristics of the properties and rules.