

# REPRÉSENTATION DES CONNAISSANCES

## NICOLA CARBONI

## SUBJECT

Confession of a Woman Raised from the Dead

## PREDICATE

*was made by*

## OBJECT

Giotto

Confession of a Woman Raised from the Dead

*illustrates*

“Nel borgo di  
Monte Marano,  
presso  
Benevento era  
morta una  
donna  
particolarmente  
devota di san  
Francesco....”

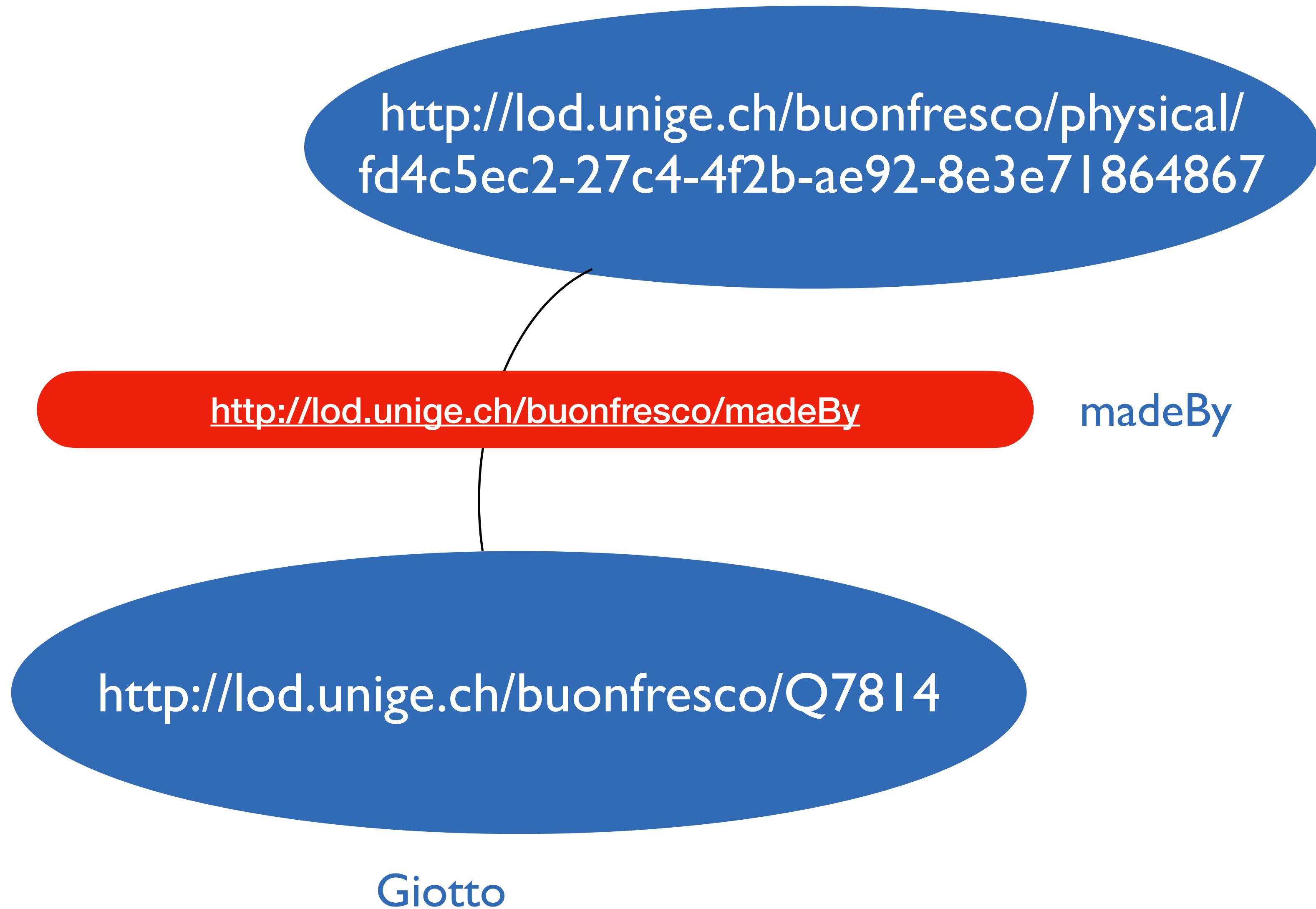
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graph TD; A([Giotto]) --- B[madeBy]; B --- C([Confession of a Woman Raised from the Dead]);
```

Confession of a Woman Raised from  
the Dead

madeBy

Giotto

## Confession of a Woman Raised from the Dead



My Drive - Google Drive    Metadati Buon fresco - Google Sheets

[https://docs.google.com/spreadsheets/d/1ZCp0G8nmztIJBCJFdLUktfa3ROmLmH\\_xLvDKaoXLGS/](https://docs.google.com/spreadsheets/d/1ZCp0G8nmztIJBCJFdLUktfa3ROmLmH_xLvDKaoXLGS/)

File Edit View Insert Format Data Tools Add-ons Help Last edit was seconds ago

B51 San Francesco rinuncia ai beni terreni

	A	B	C	D	E	F	G
1	id	Panel ita	Panel eng	detail iconografico	superoggetto iconografico	Reference	Reference A Symbol
49		Confessione della donna resuscitata					
50		San Francesco libera l'eretico Pietro di Alife					
51	2d95dc0-a9c0-4c31-8e0a-da434b40773d	San Francesco rinuncia ai beni terreni	Renunciation of Worldly Goods	window sill	domestic interior	Quale Francesco	Frugoni
52	c9631c7-2532-46e8-a05d-f94e6fc1ecdb	Morte di san Francesco	Death and Ascension of Saint Francis	finger pointing the stigm	chiodi di carne	Quale Francesco	Frugoni
53	097e3176-bf56-4a75-b93b-38510141f413	Natale di Greccio	Institution of the Crib at Greccio	mouth wide open	shaved friar singing	Quale Francesco	Frugoni
54	d59a985e-ebad-4560-a694-a210550b5cd8	Natale di Greccio	Institution of the Crib at Greccio	mouth open	shaved friar singing	Quale Francesco	clergy
55	08065e65-d846-4711-bdc7-4d73d637fc33	Morte di san Francesco	Death and Ascension of Saint Francis	mouth contemplating	shaved friar contemplating	Quale Francesco	Frugoni
56	d01163f8-94f1-4e4e-a1da-a0eed75e51b0	Morte di san Francesco	Death and Ascension of Saint Francis	mouth mourning	shaved friar mourning St Fr	Quale Francesco	death,
57	b4335e30-0741-4187-acdb-7e5e369b5ea7	San Francesco davanti al Sultano	Saint Francis before the Sultan	wing	mountain	Quale Francesco	Frugoni

position

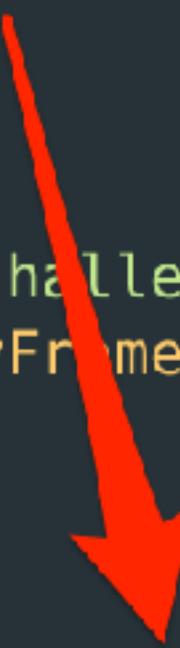
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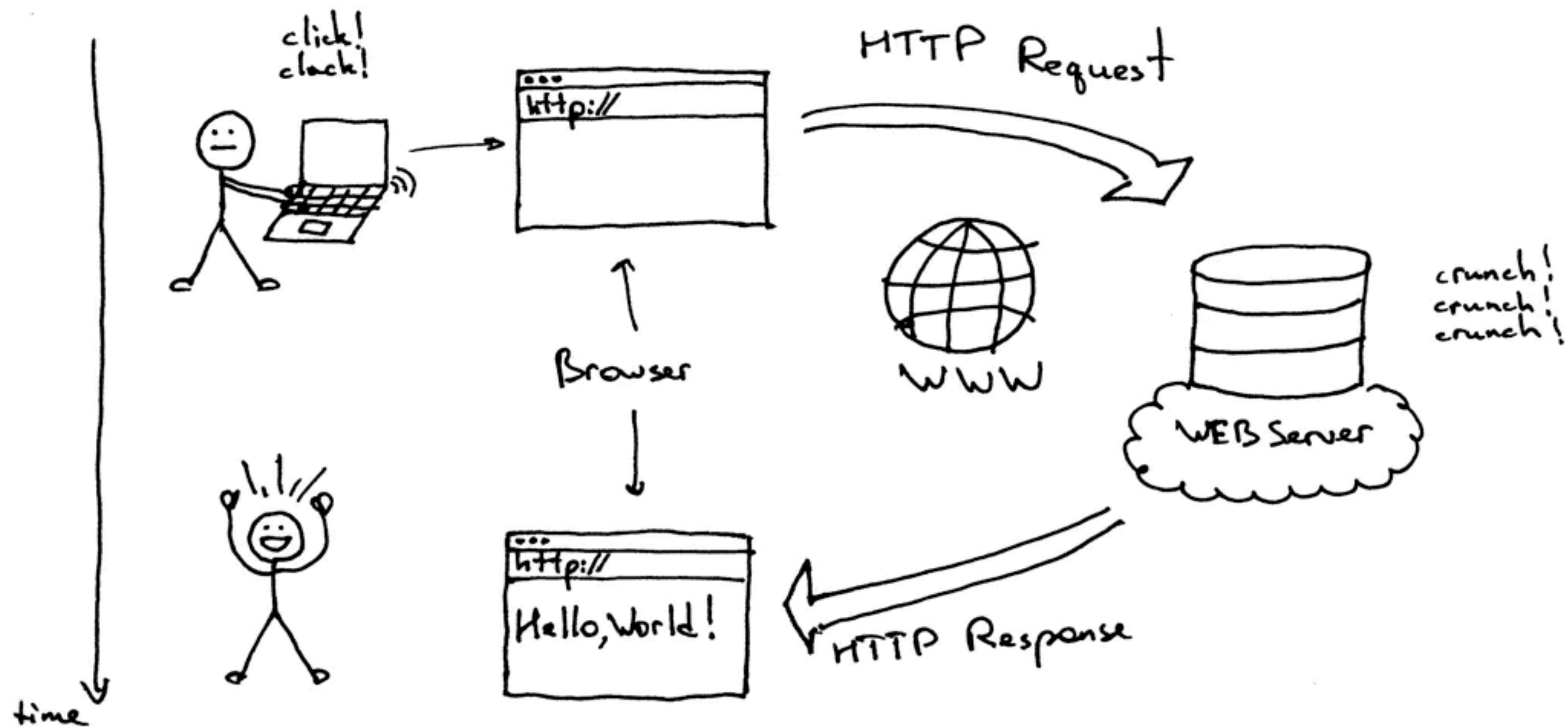


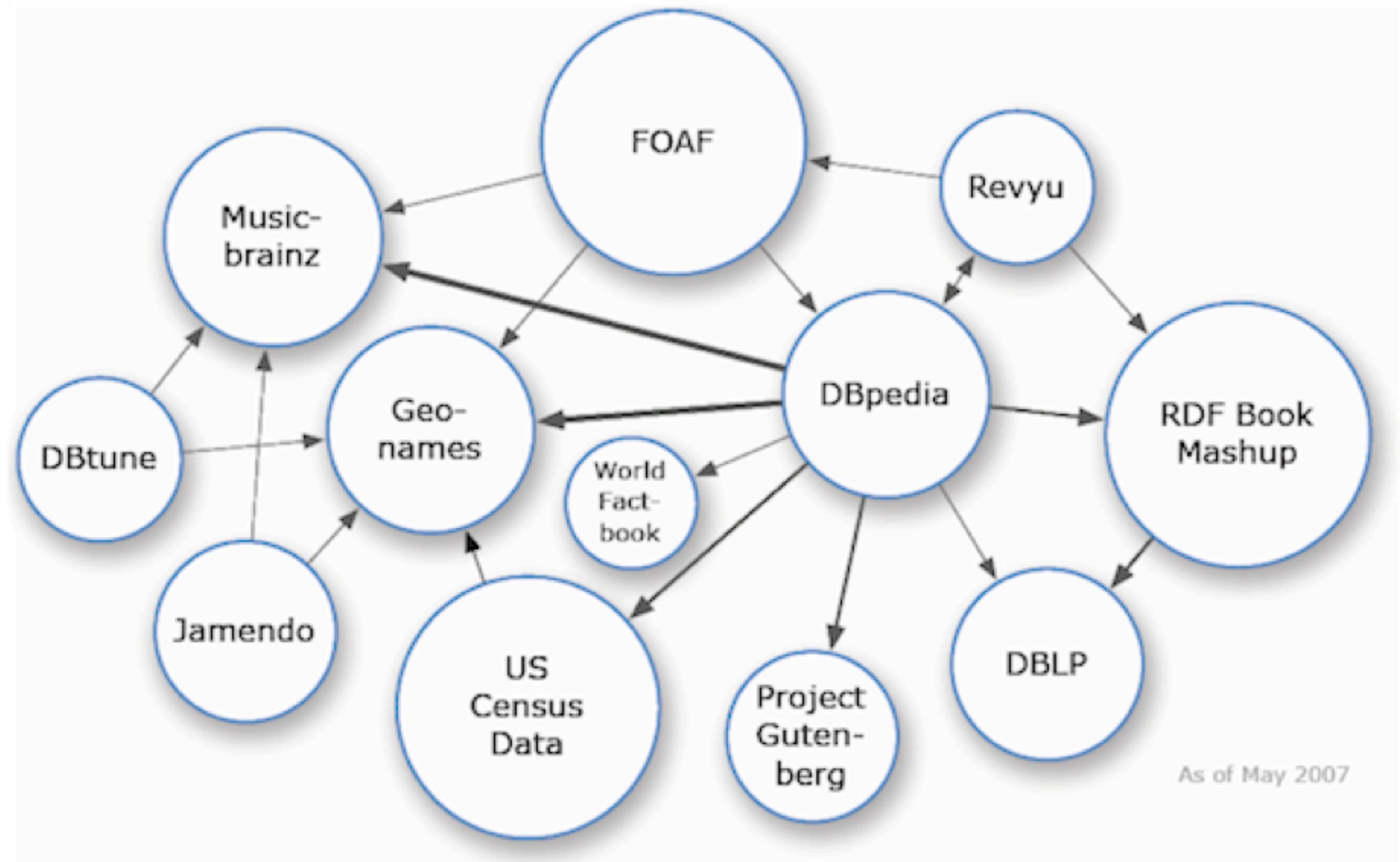
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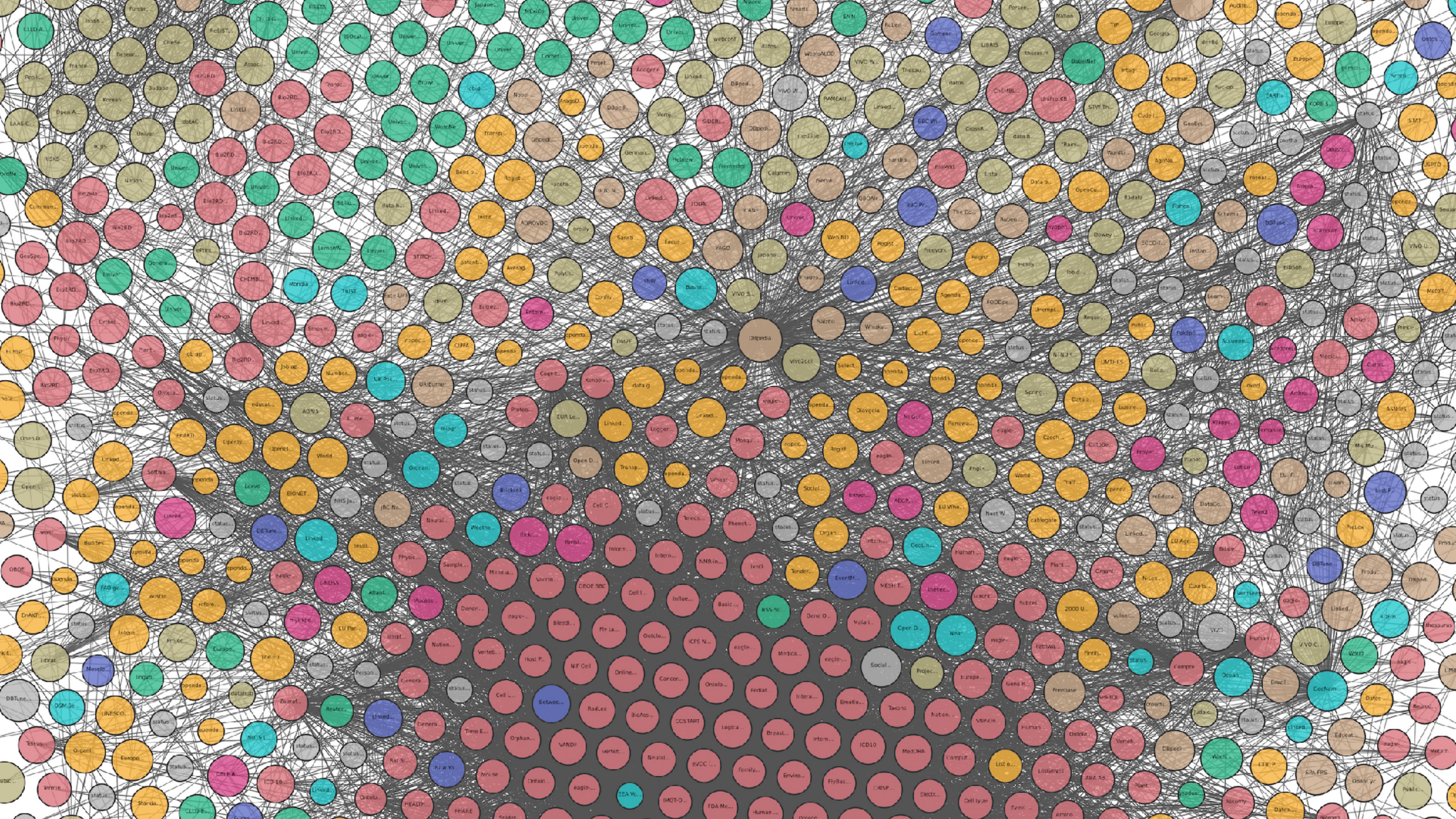
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bb0a836c-a444-4981-817c-fb25bec8bb84	San Francesco appare a Gregorio IX	Giotto?
12f83e89-a78c-4eb4-b76b-3f9fb71d823f	Guarigione dell'uomo di Lleida	Giotto?
ff9961b3-7670-48c6-967d-e756d697565f	Confessione della donna resuscitata	Giotto?
6306dbdc-27de-4ecb-82d8-be9783138ad8	San Francesco libera l'eretico Pietro di Alife	Giotto?

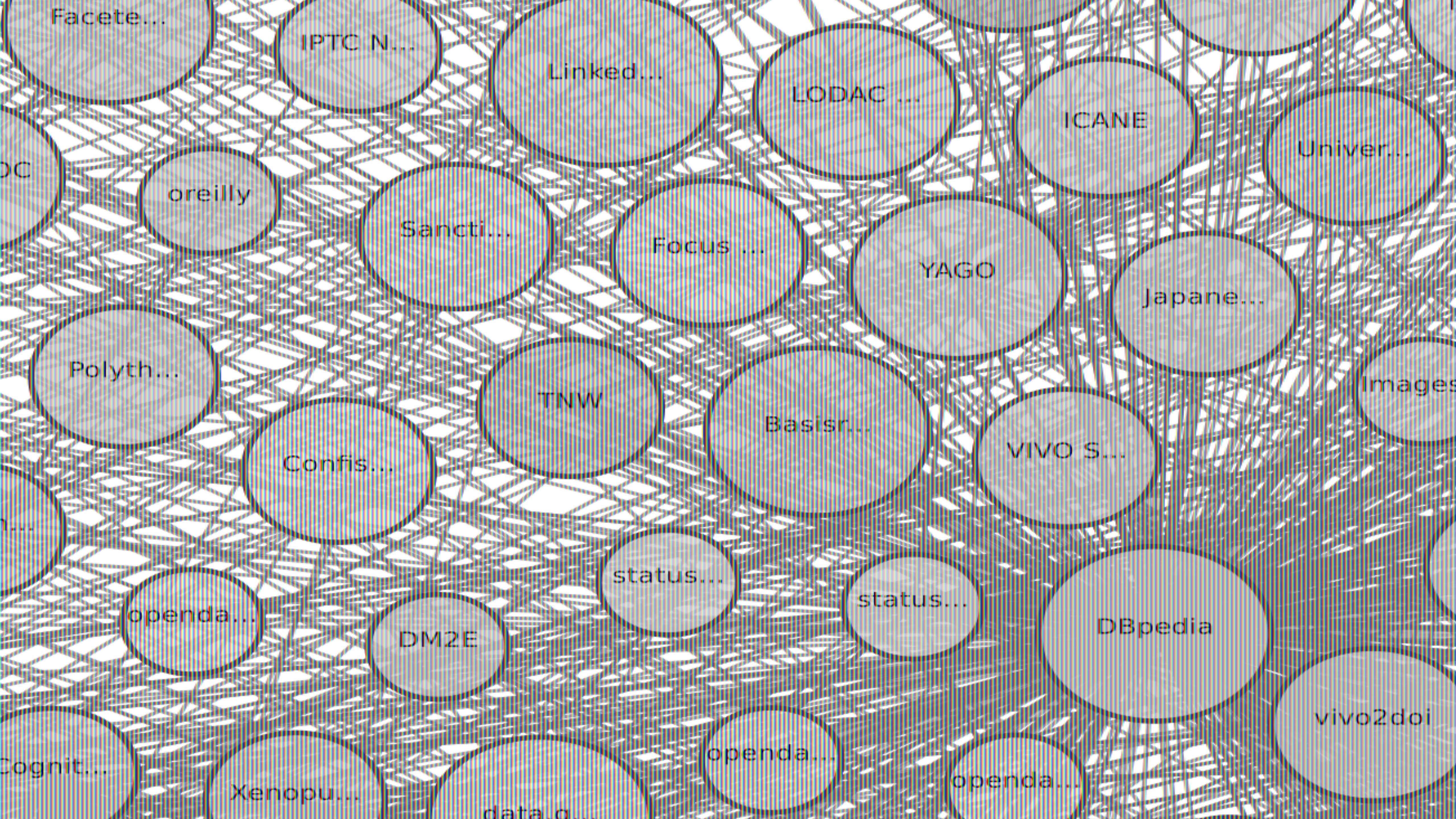
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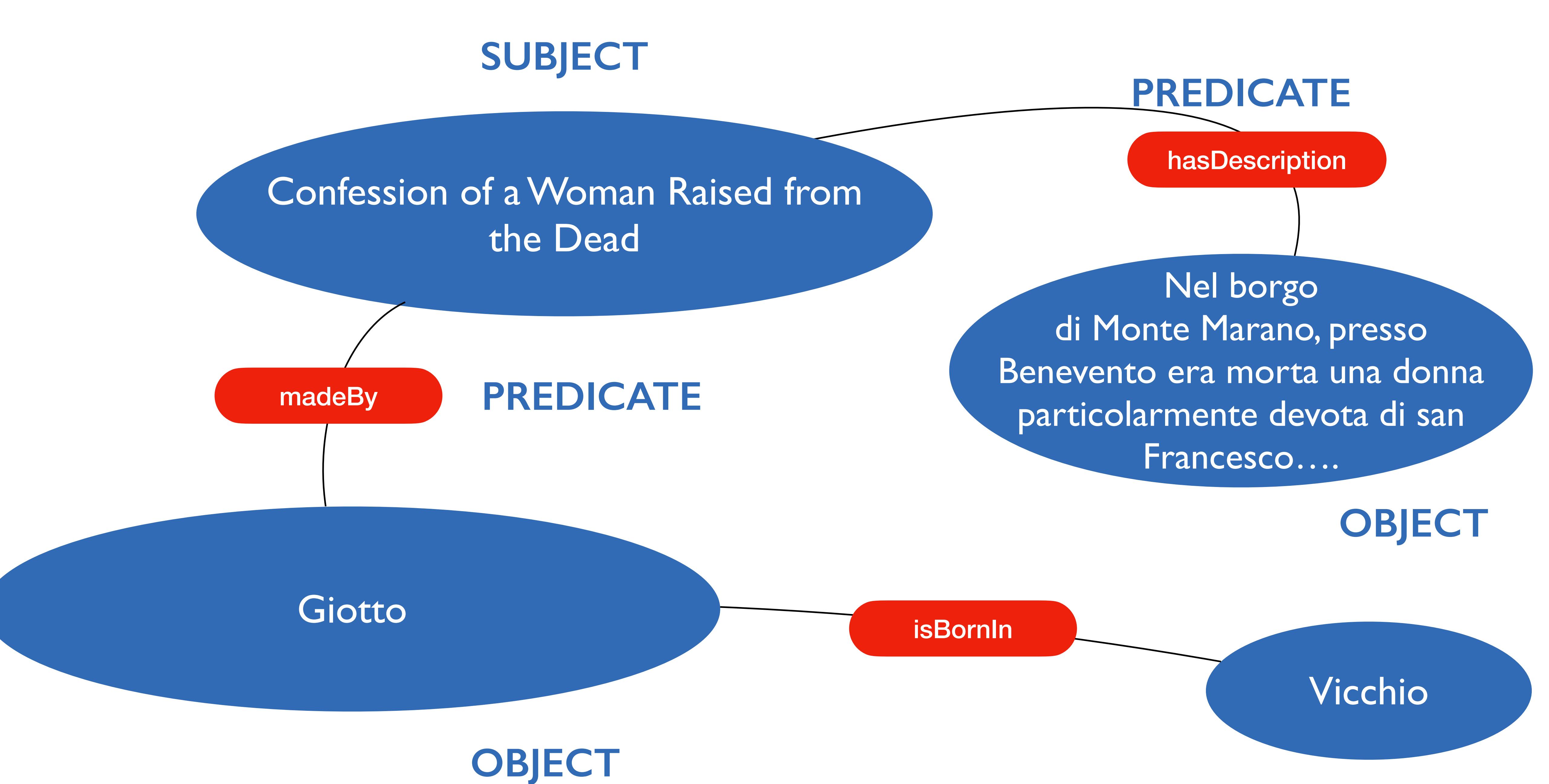
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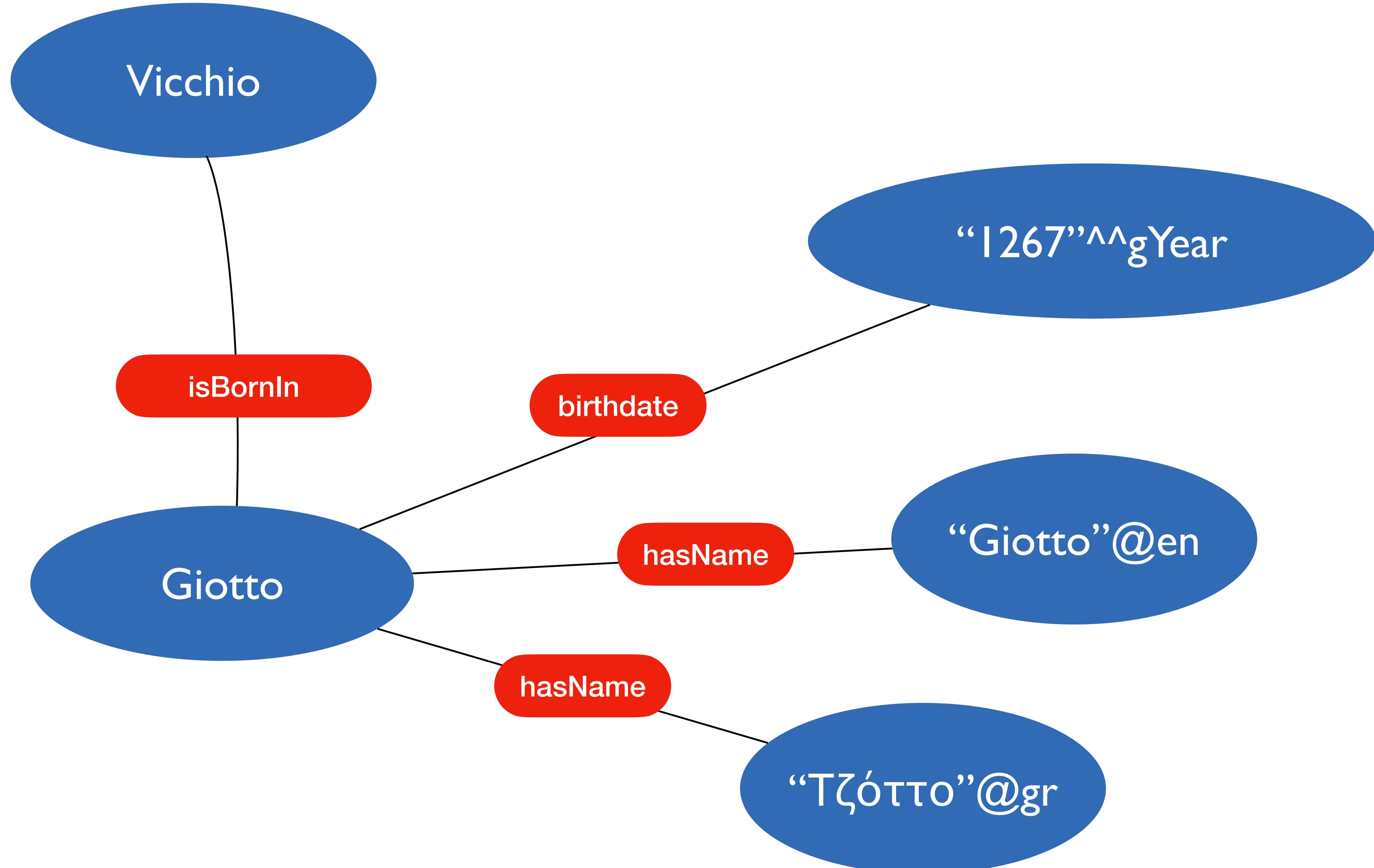
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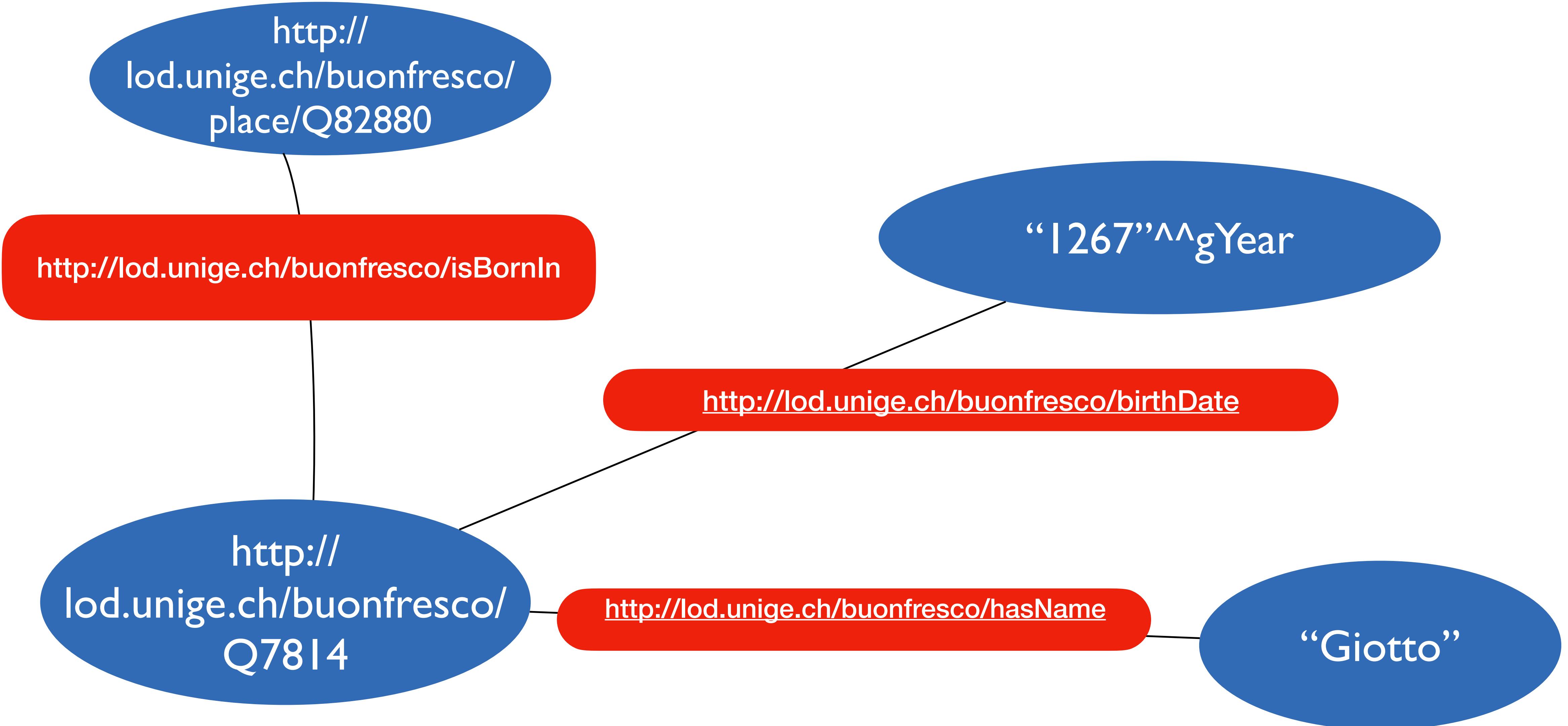
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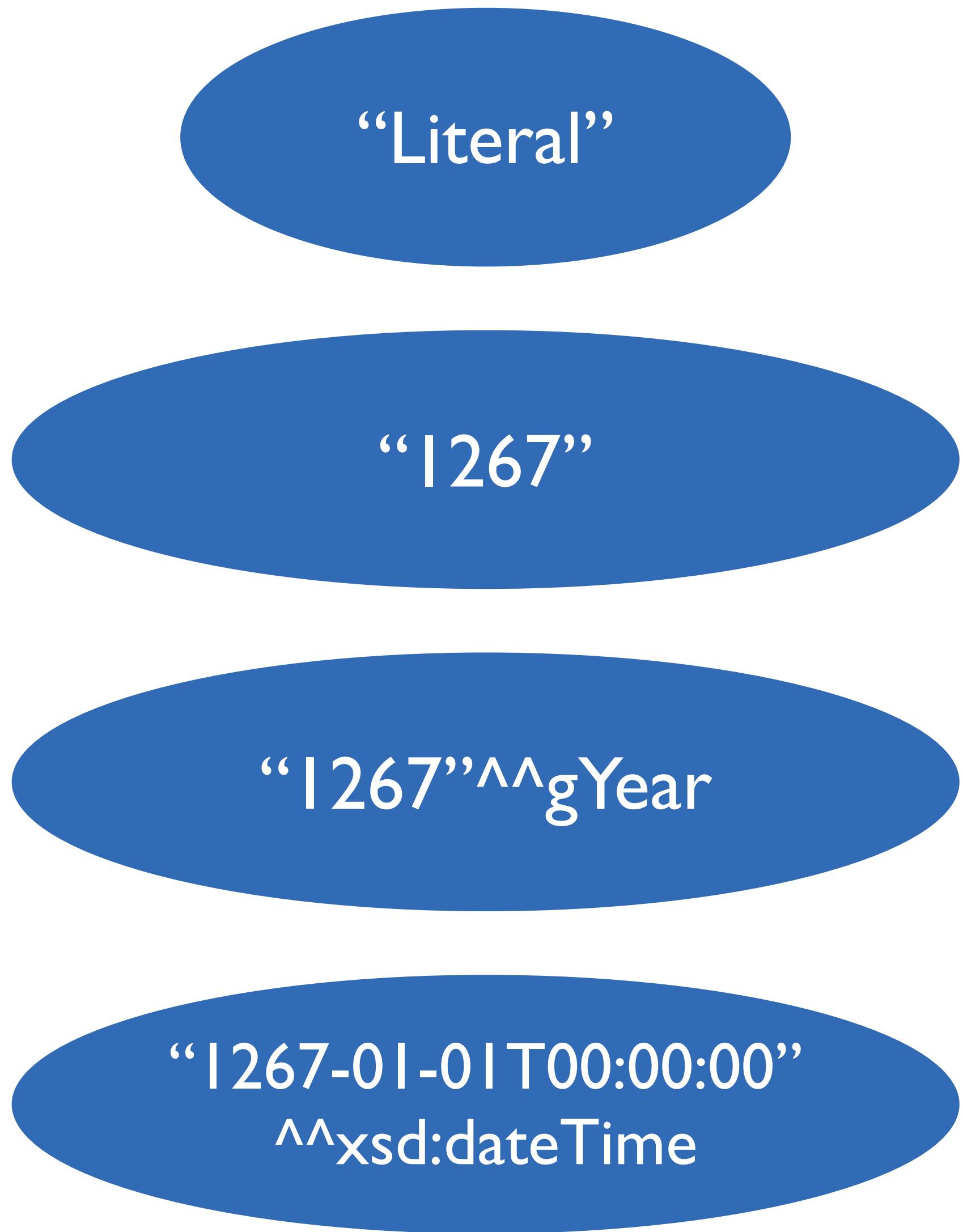
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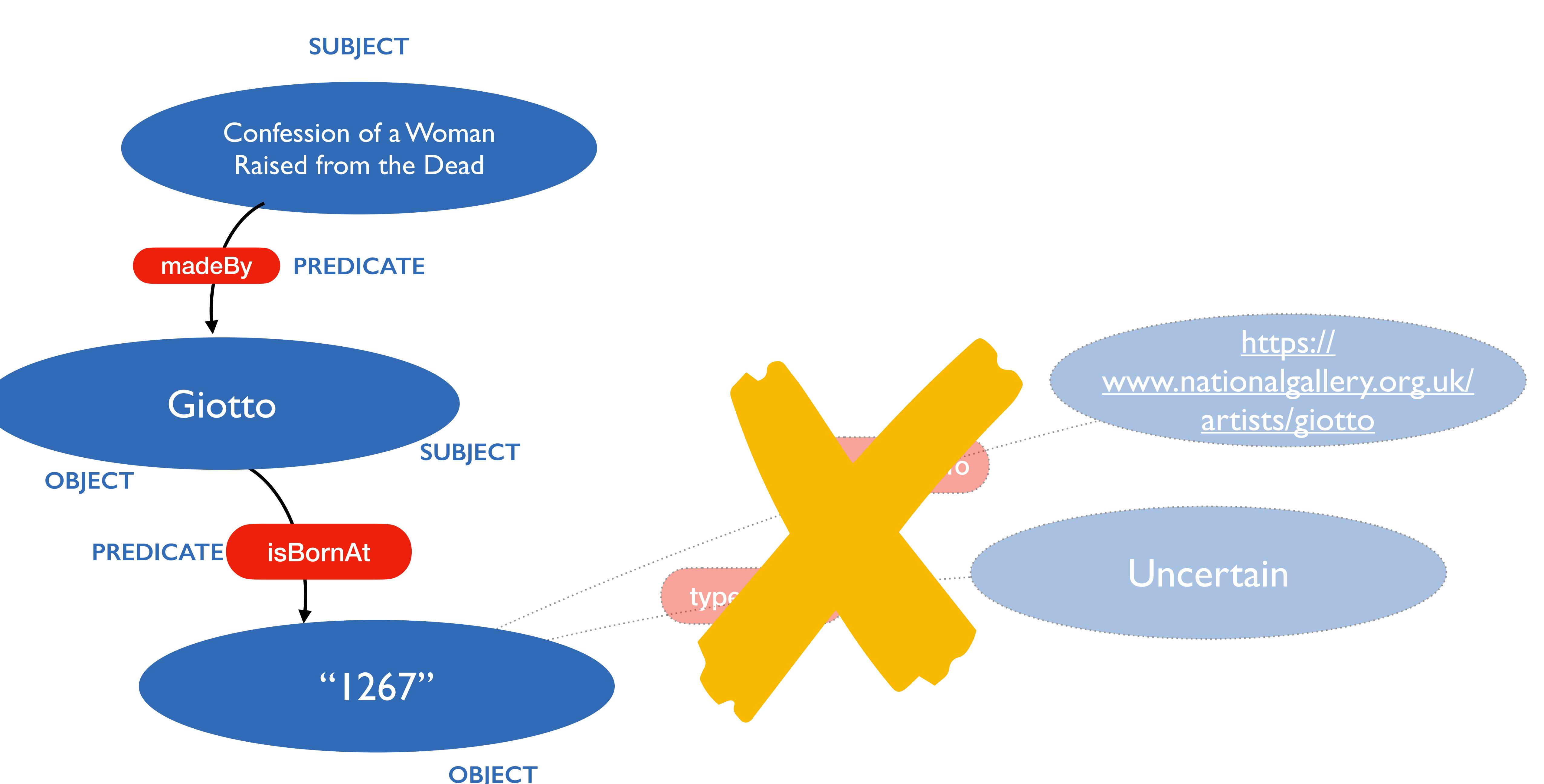


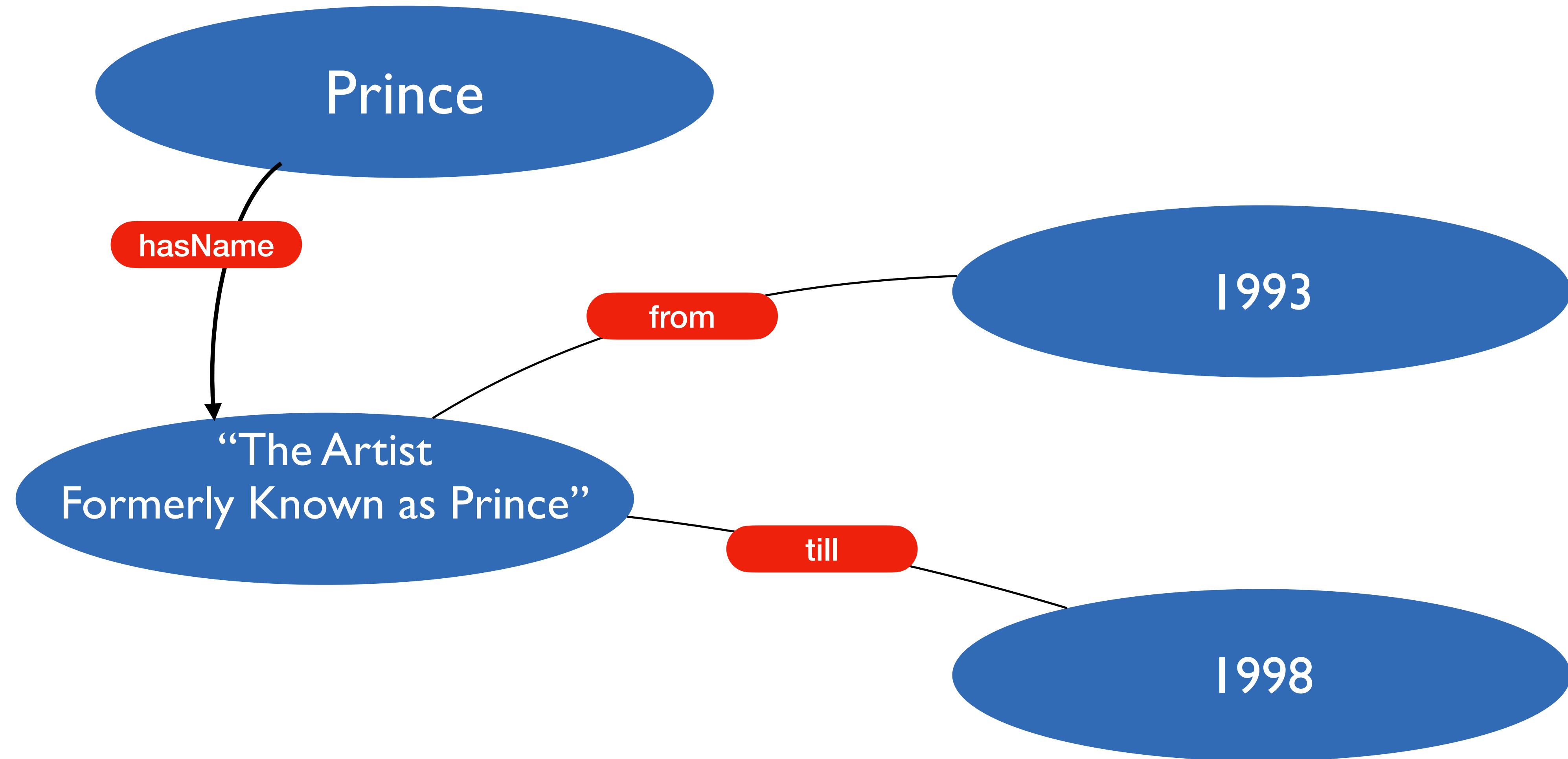
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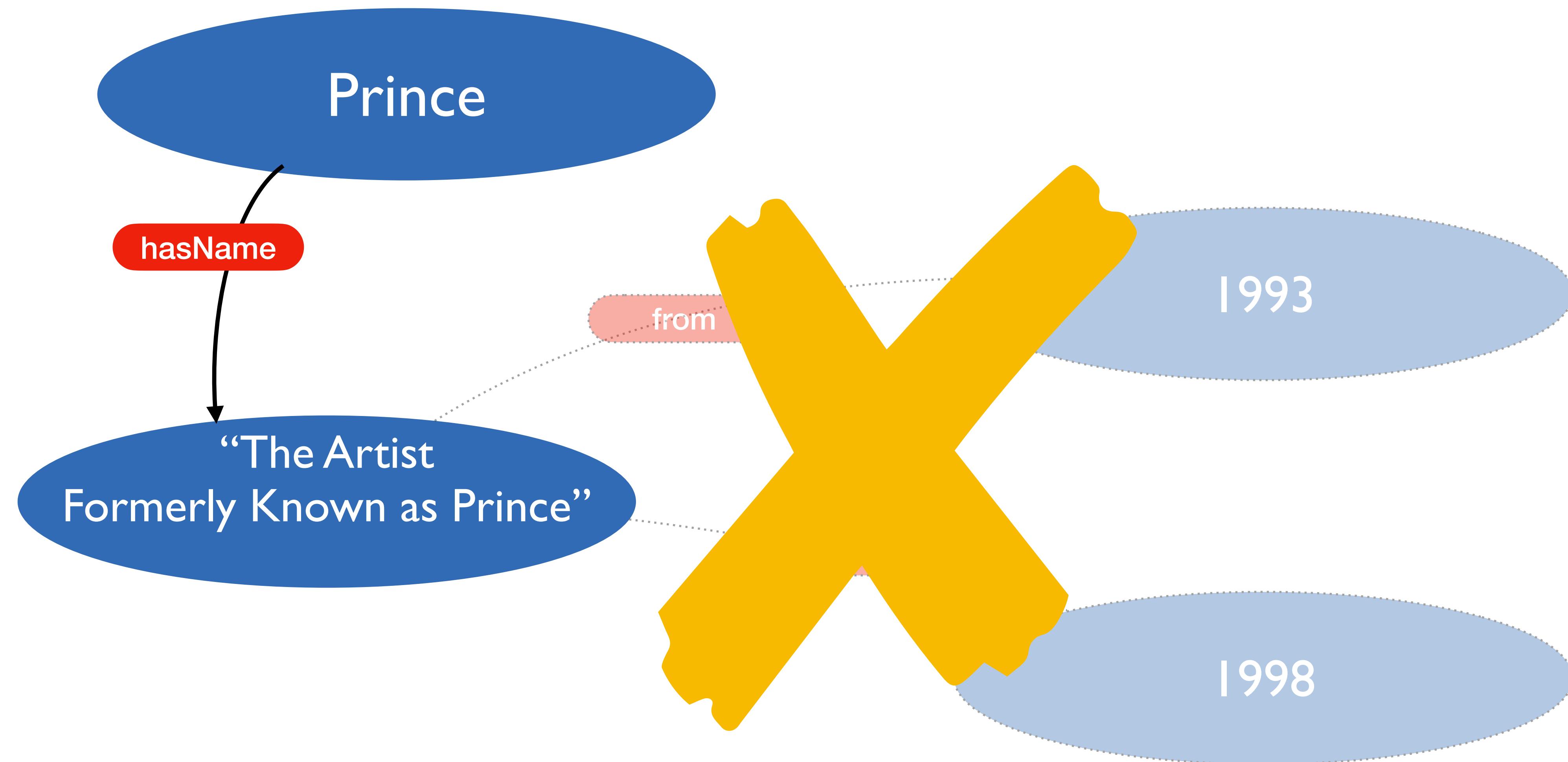
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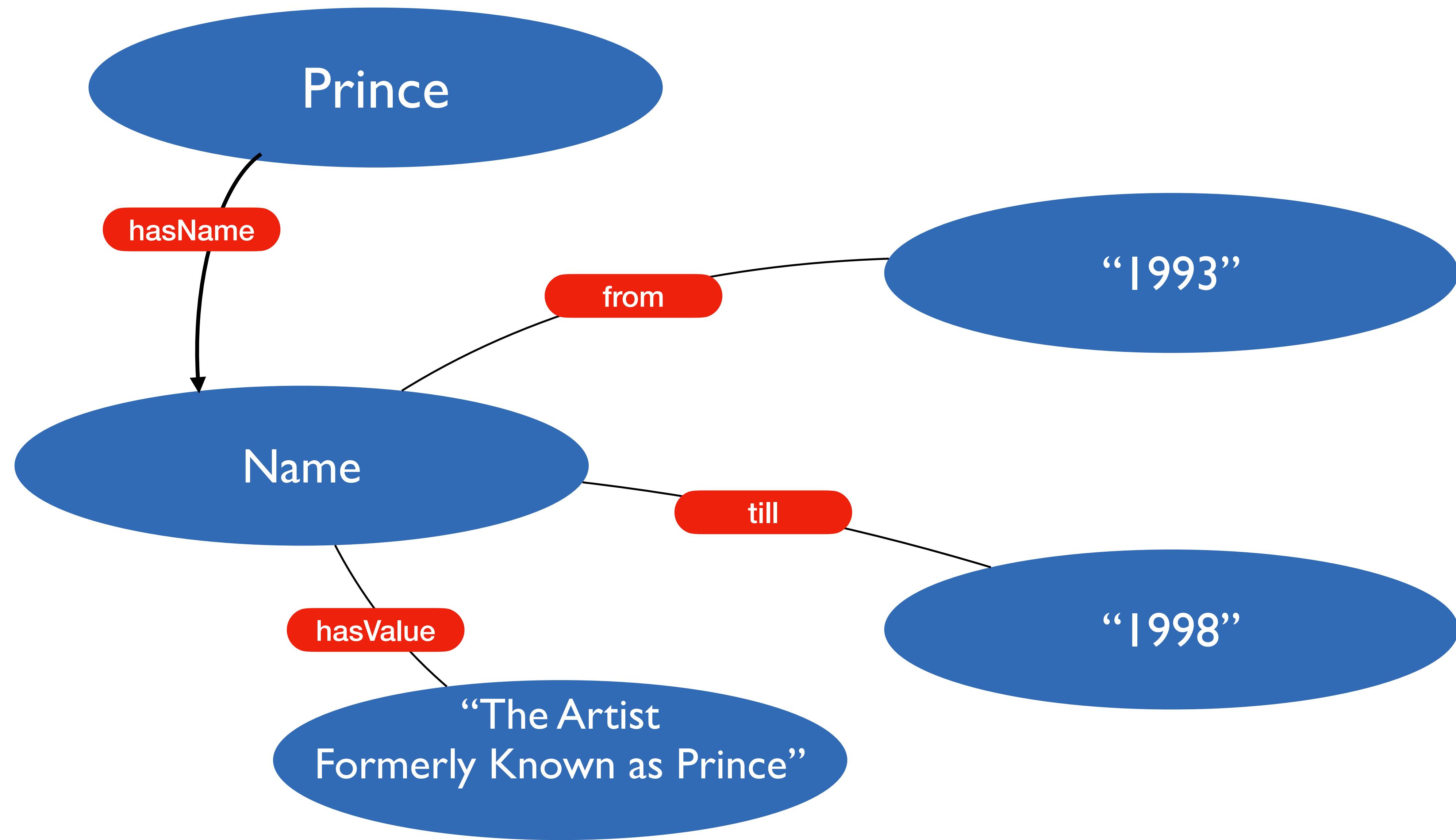
**xsd Gregorian year**

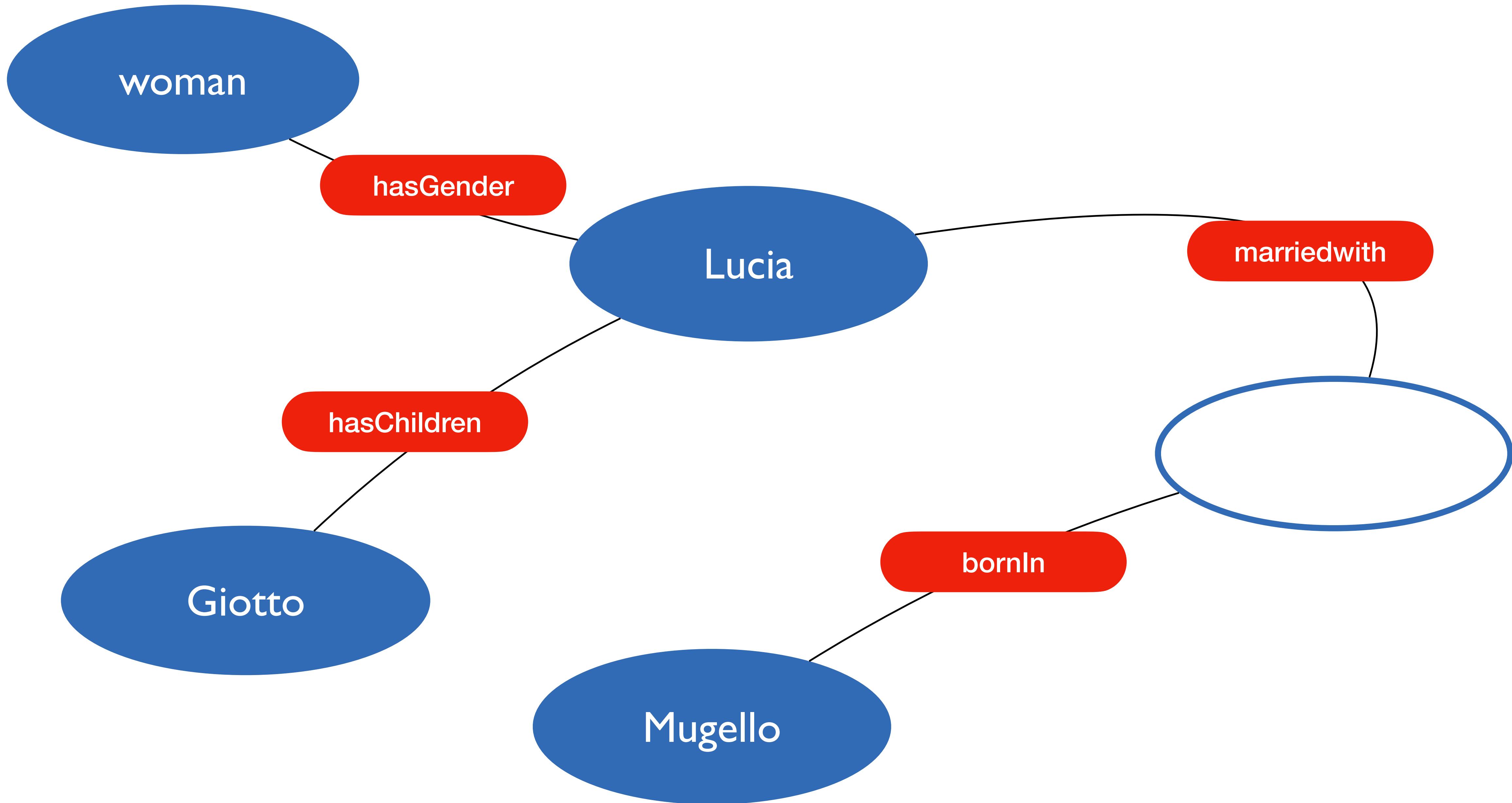
**xsd date**







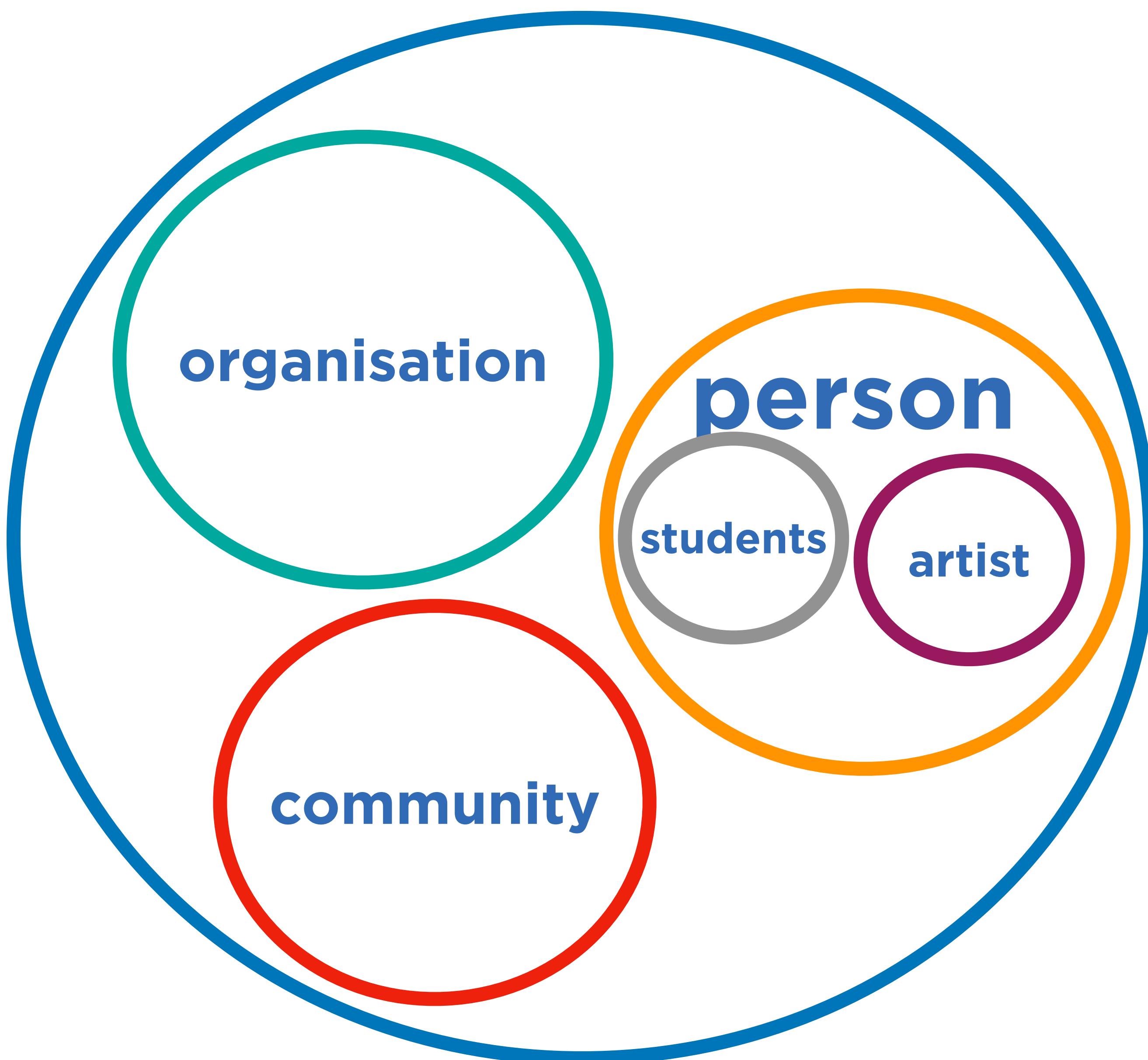


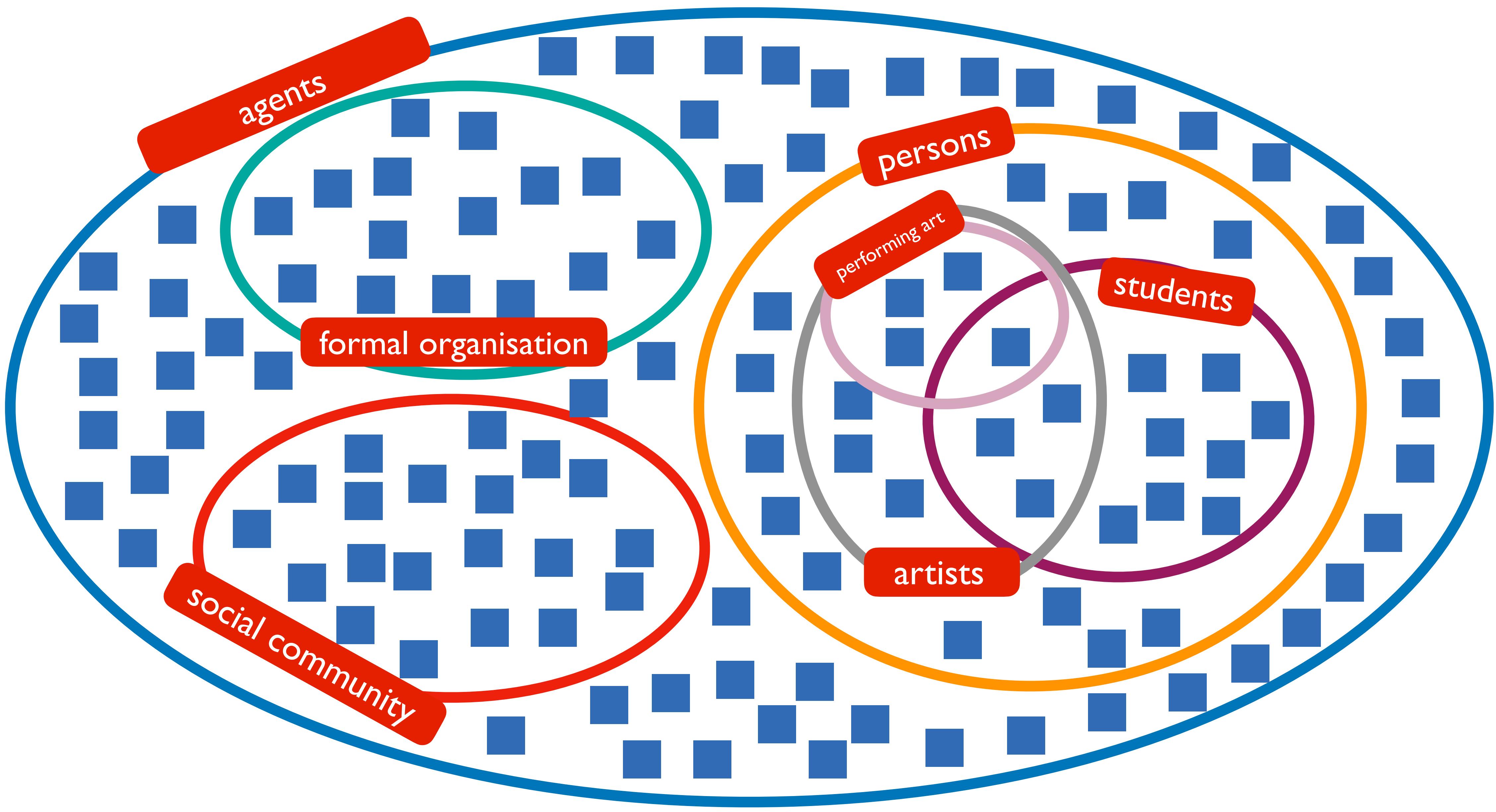


# RDFS

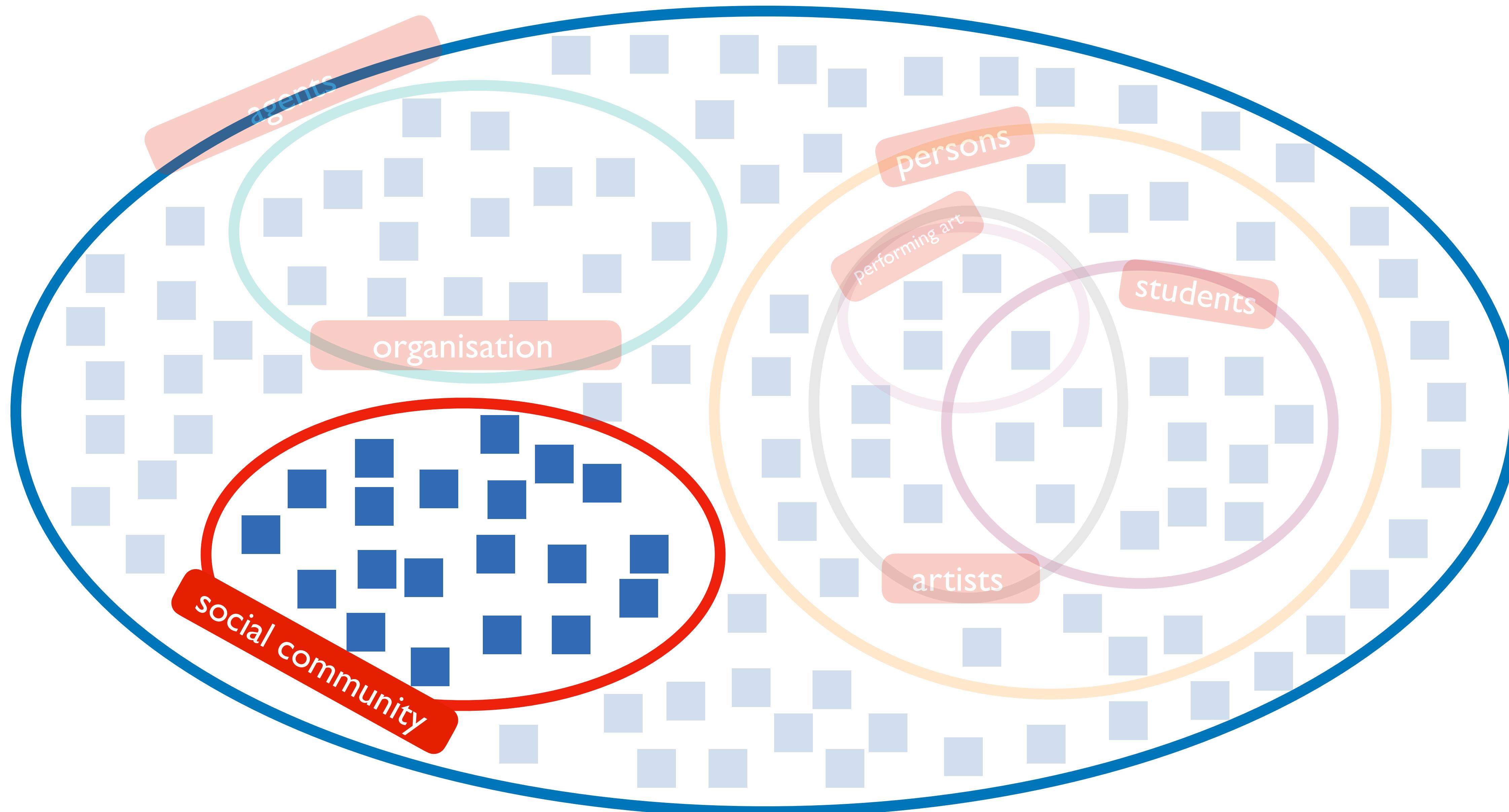
- **Classes**
- **Subclasses**
- **Subproperty**
- **label**
- **range / domain**

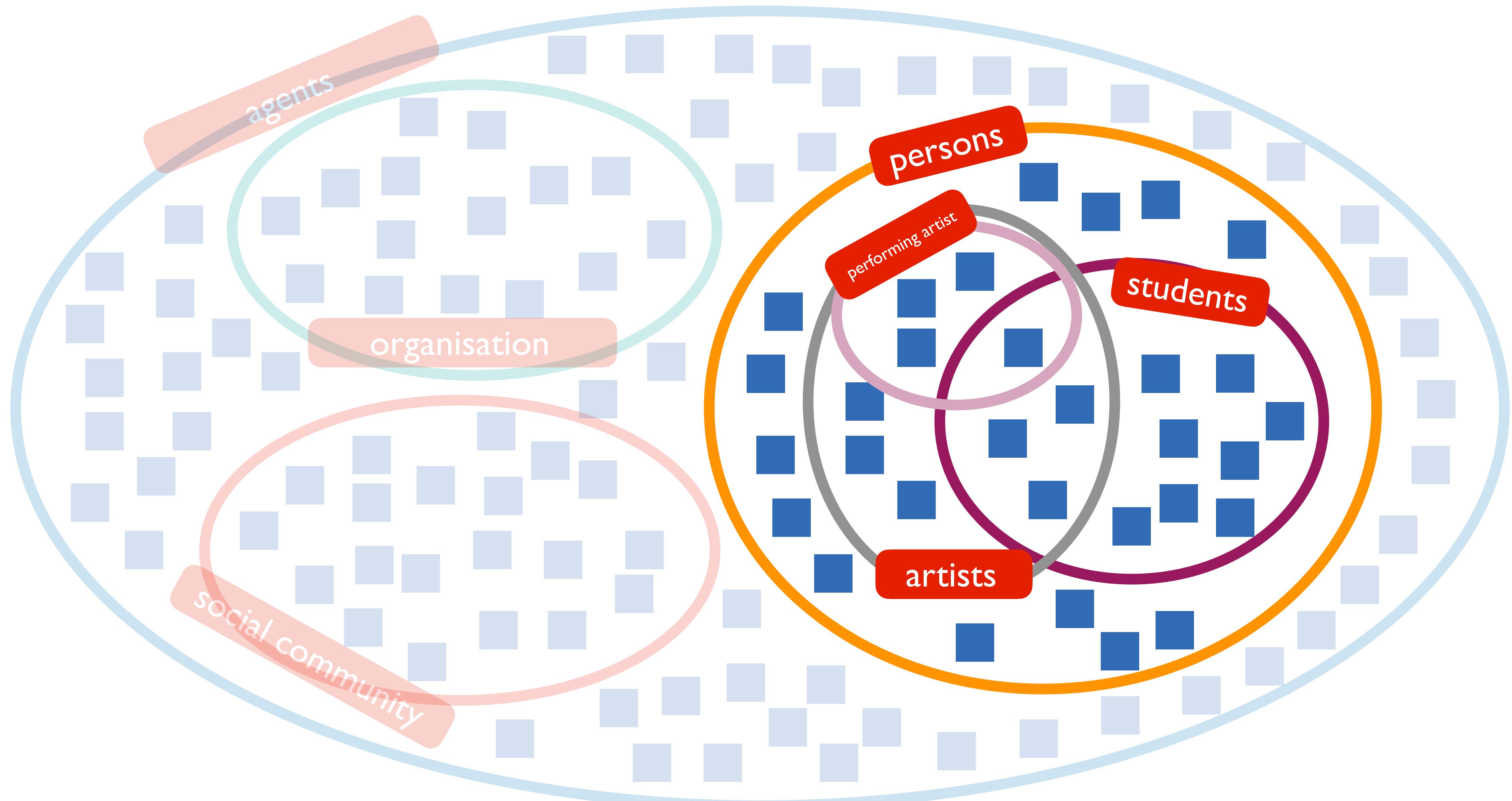
# Agents

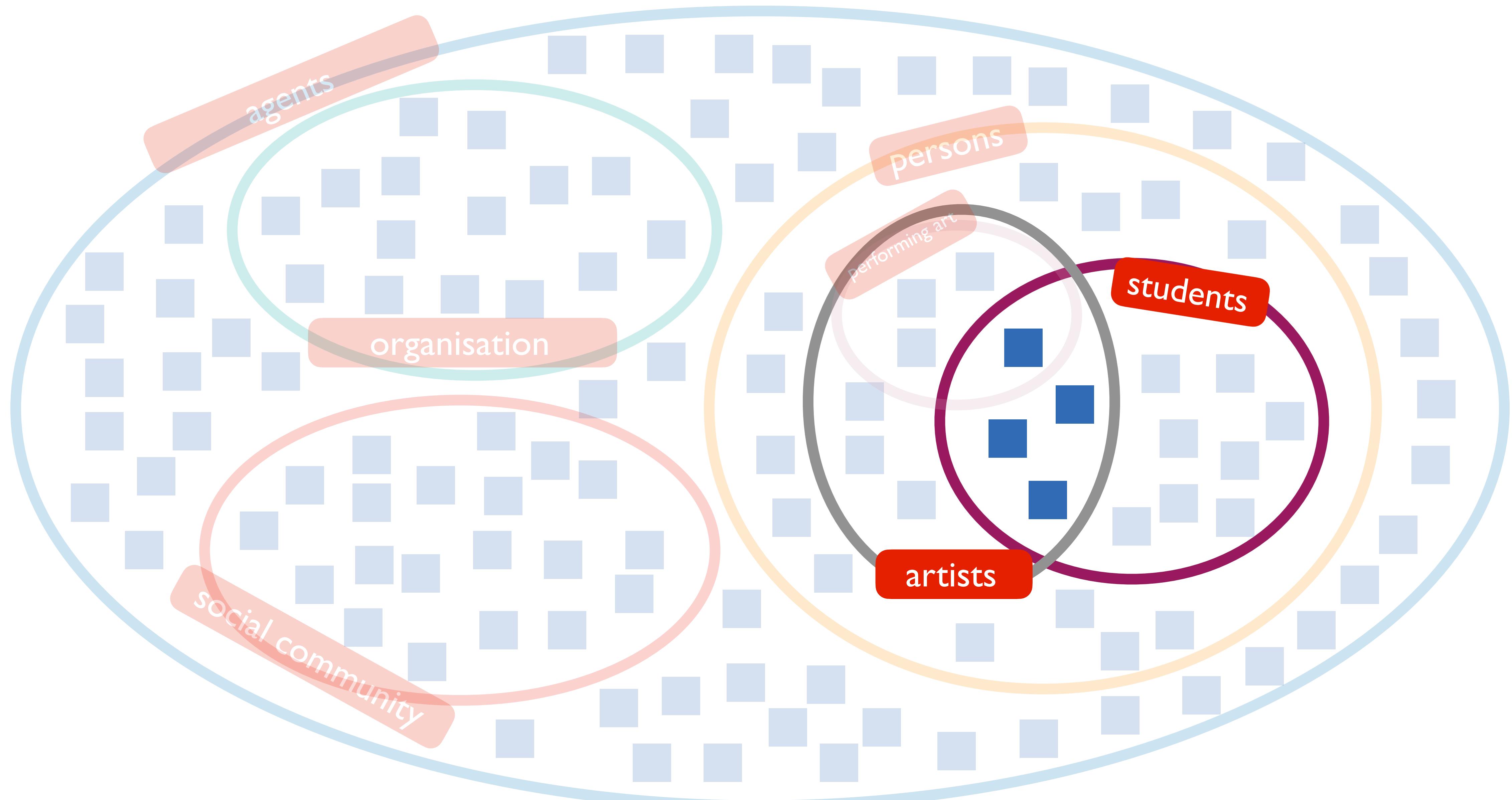


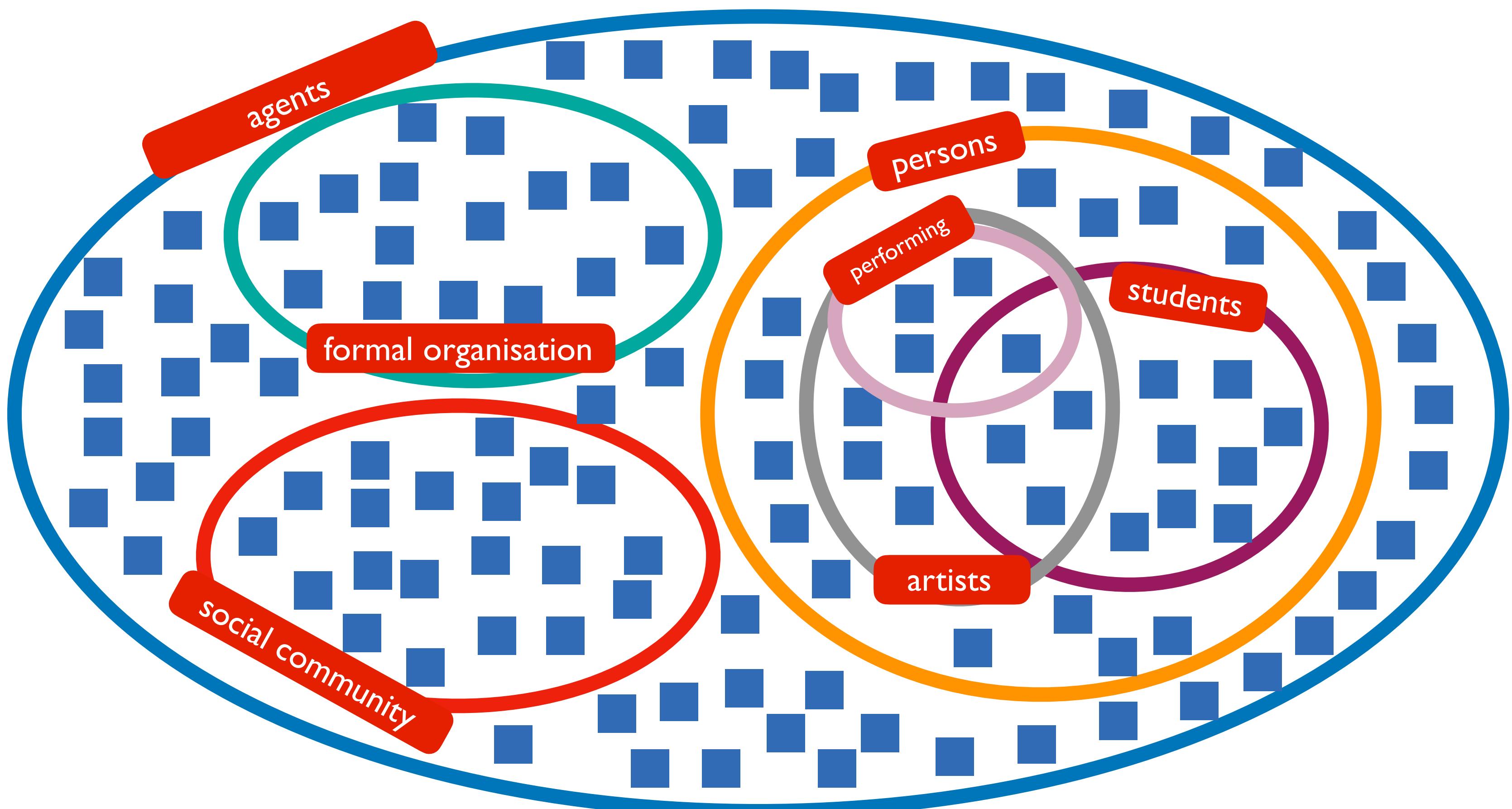


■ element / individus









$\text{person} \sqsubseteq \text{agents}$

$\text{social community} \sqsubseteq \text{agents}$

$\text{organisation} \sqsubseteq \text{agents}$

$\text{artists} \sqsubseteq \text{person}$

$\text{students} \sqsubseteq \text{person}$

$\text{student artists} \equiv (\text{students} \sqcap \text{artists})$

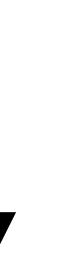
# Agents



physical things



Agents



person



artists



performing  
artists

physical things



Agents



person

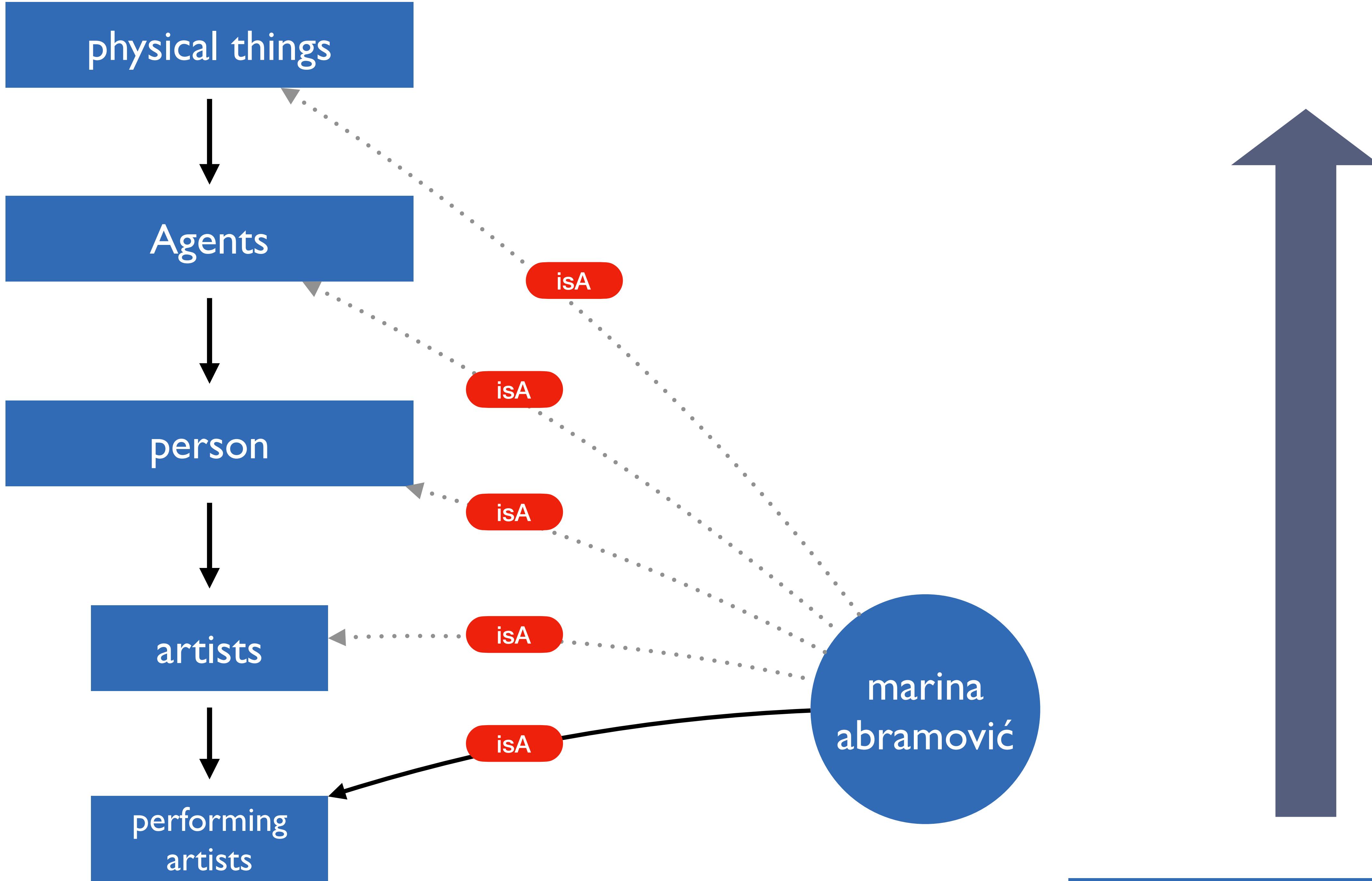


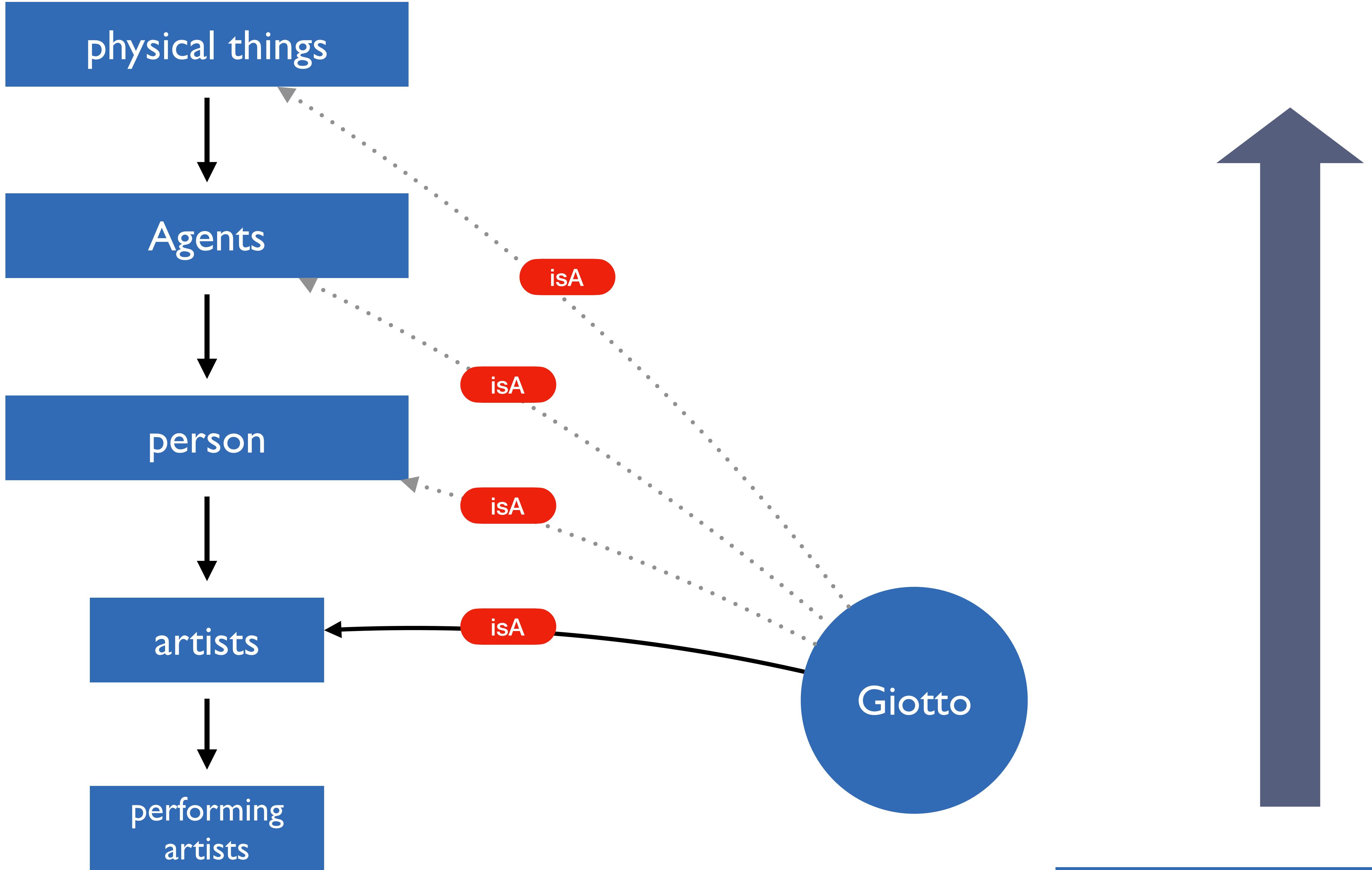
artists

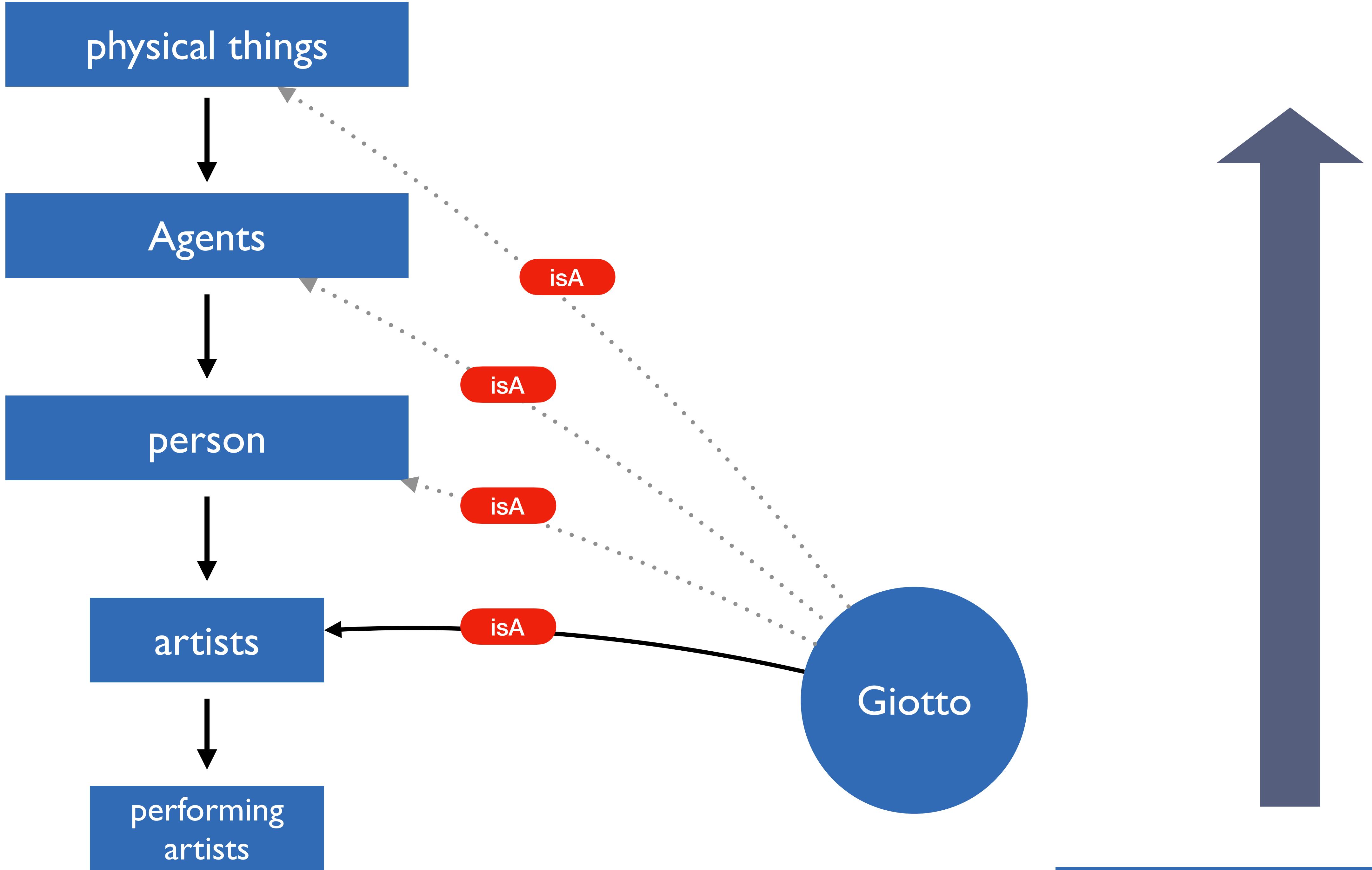


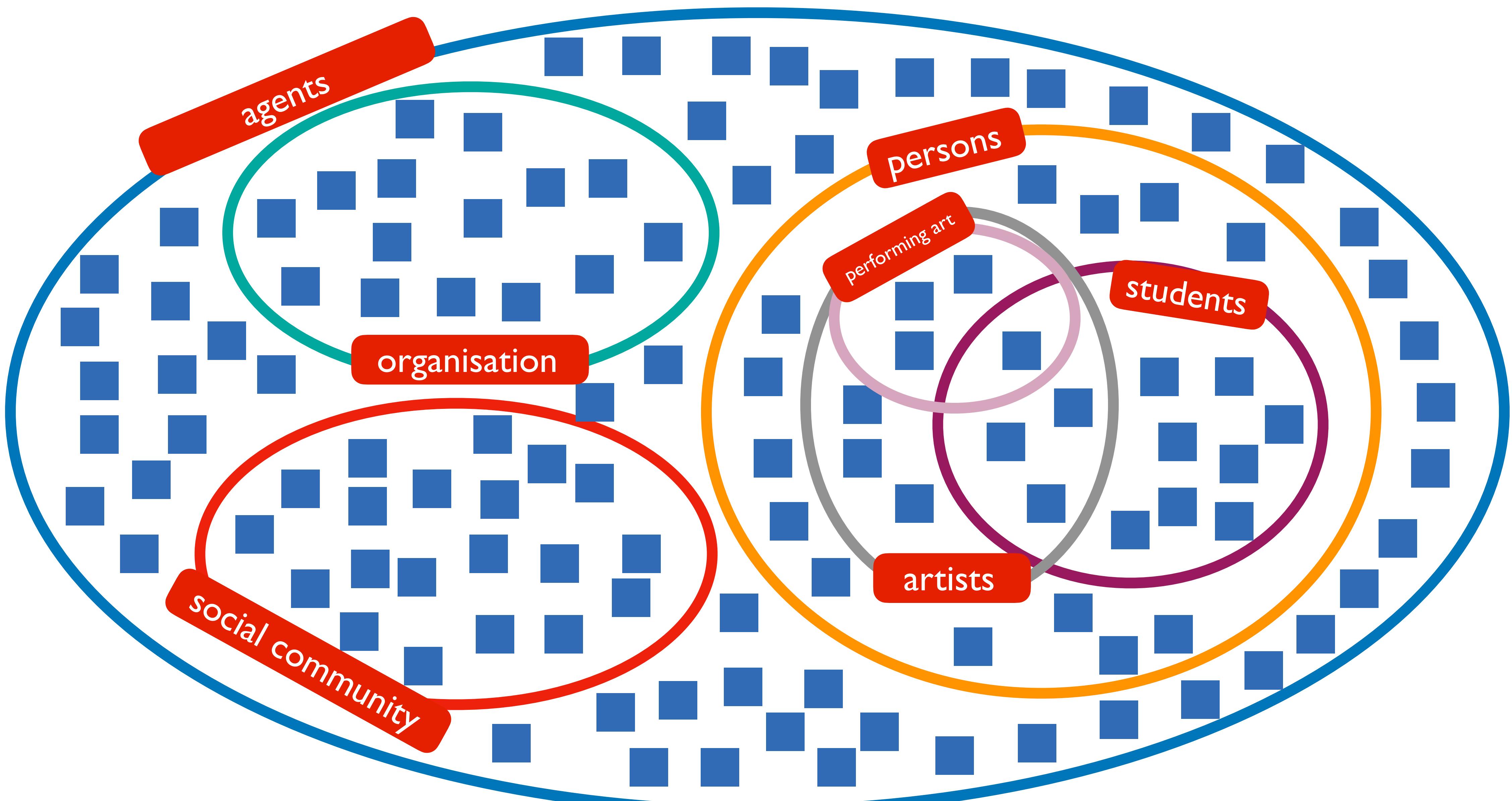
performing  
artists

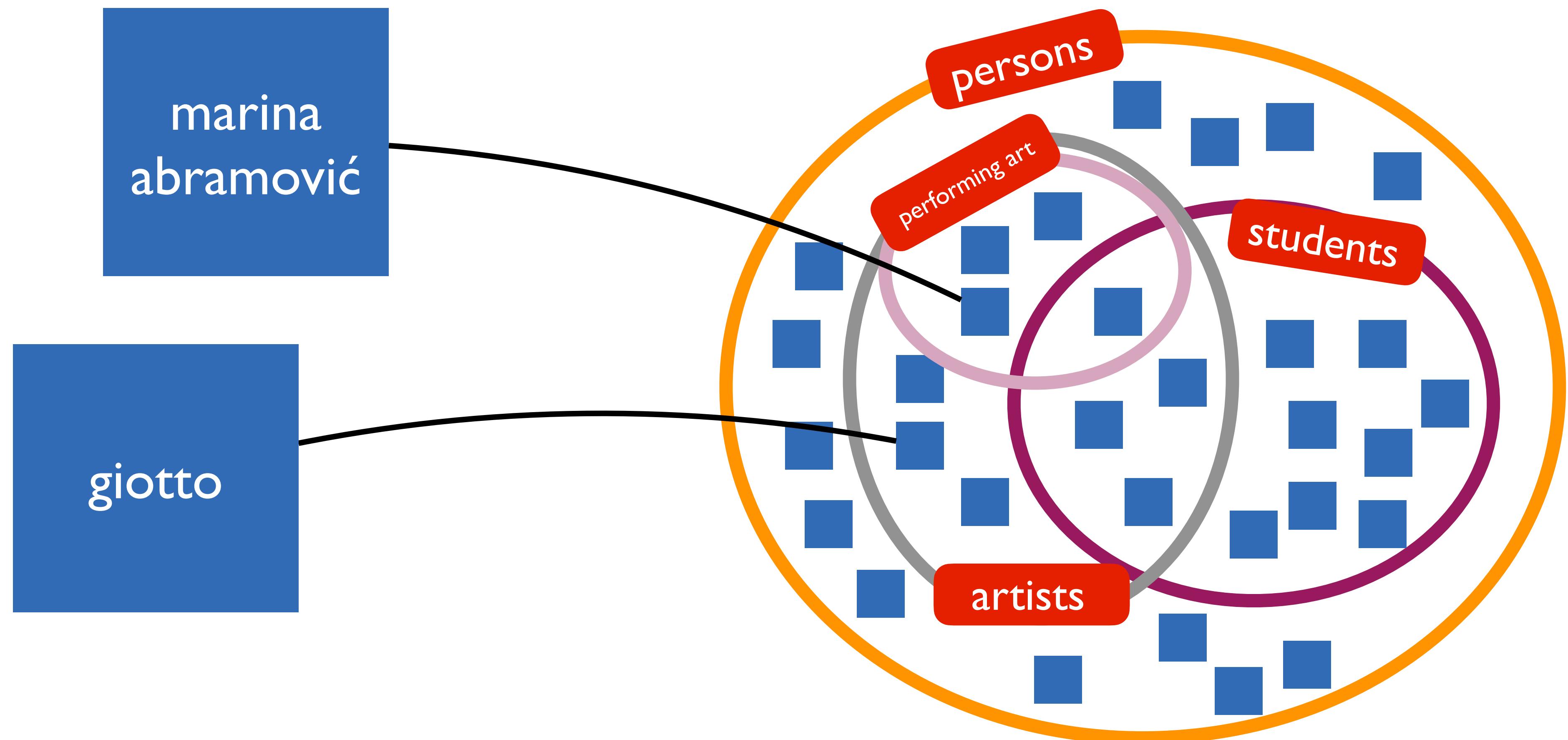
marina  
abramović











# Essential properties of the class

P is a necessary condition  
for the existence of the  
member of the class.

## Person:

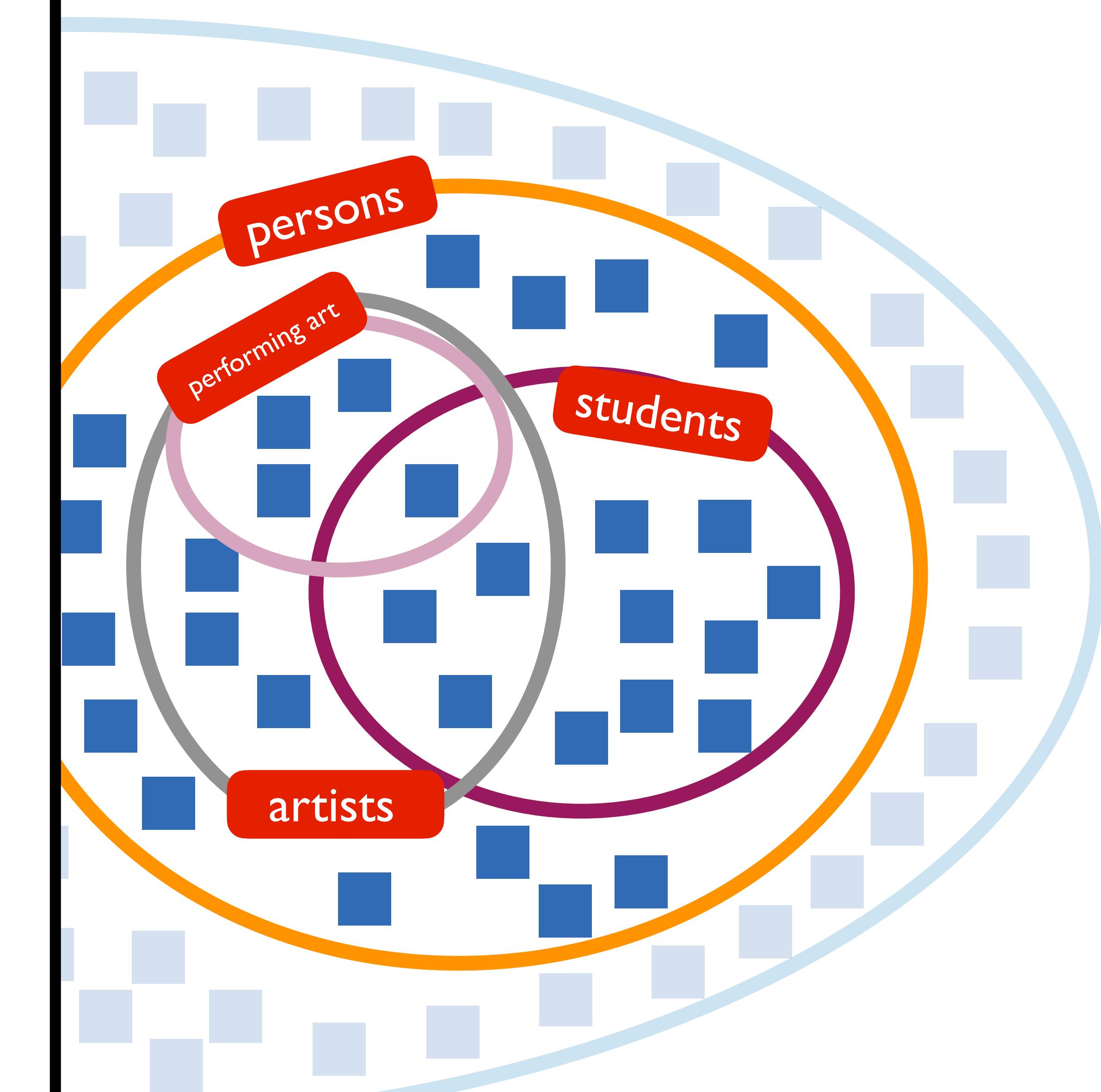
- Having heartbeat?
- Being physically present?

## Student:

- Having heartbeat?
- Being enrolled in School?

## Artist:

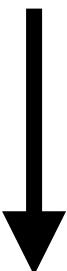
- ?



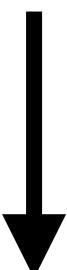
physical things



Moving Object



Car

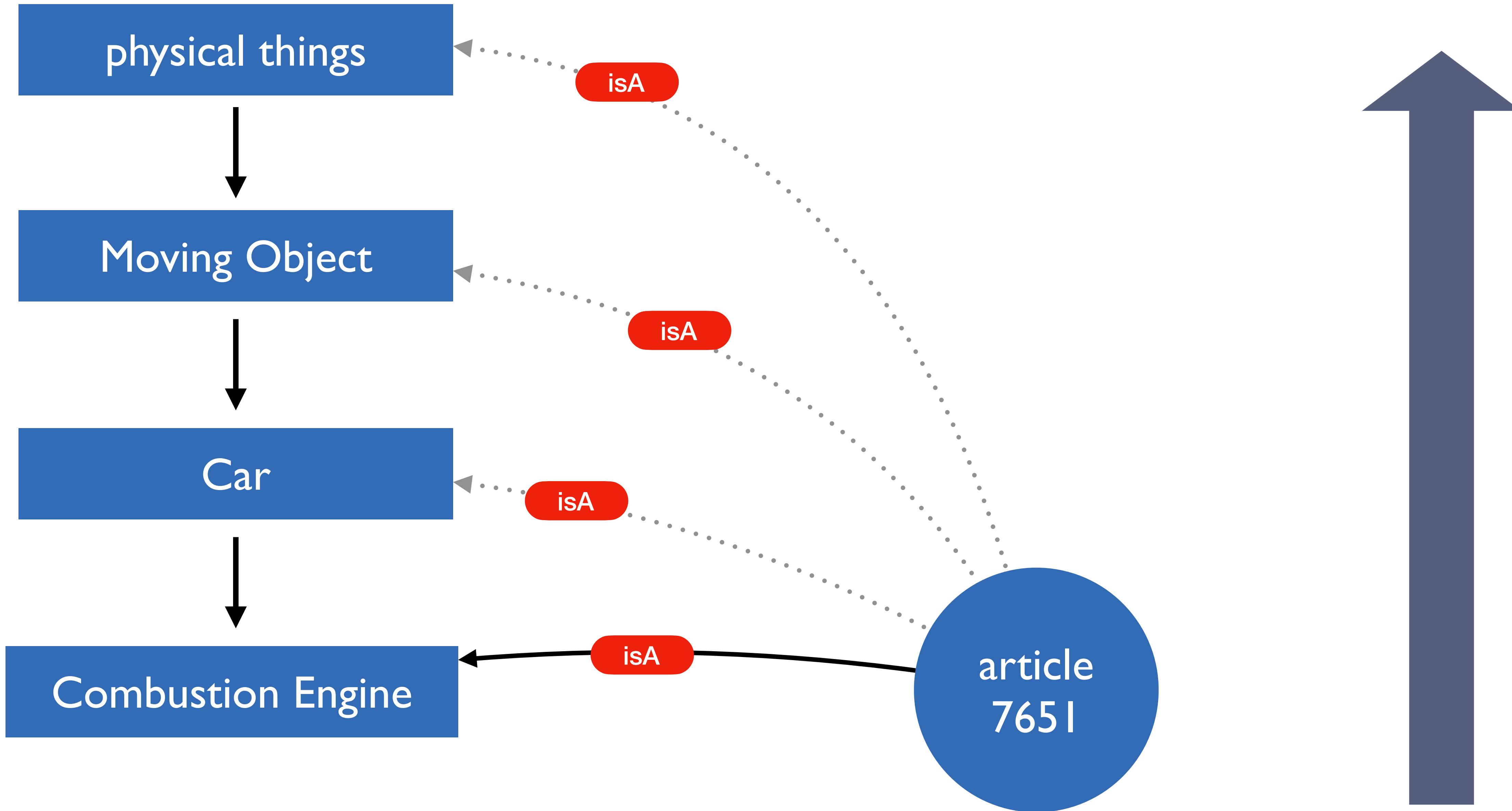


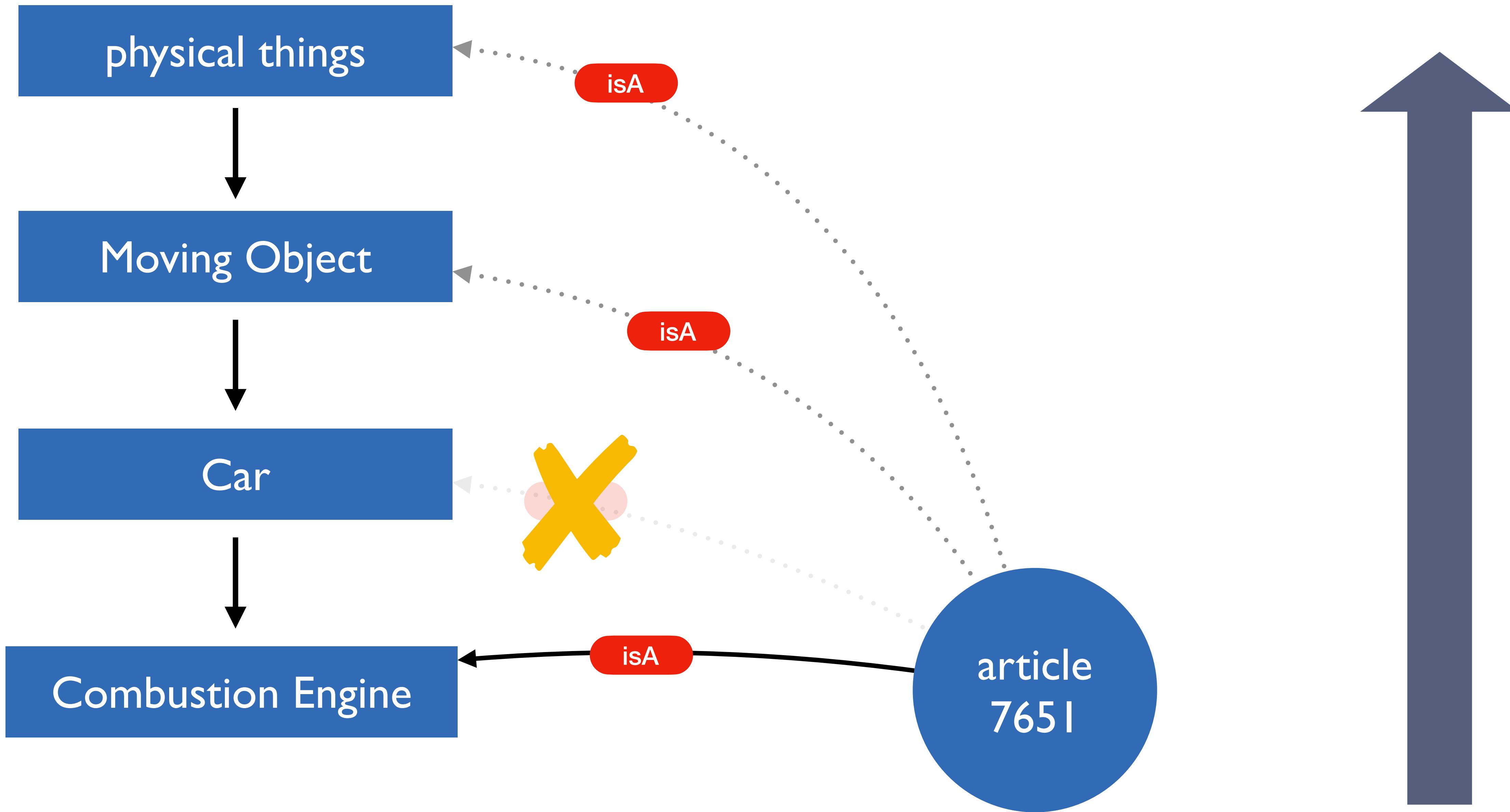
Combustion Engine

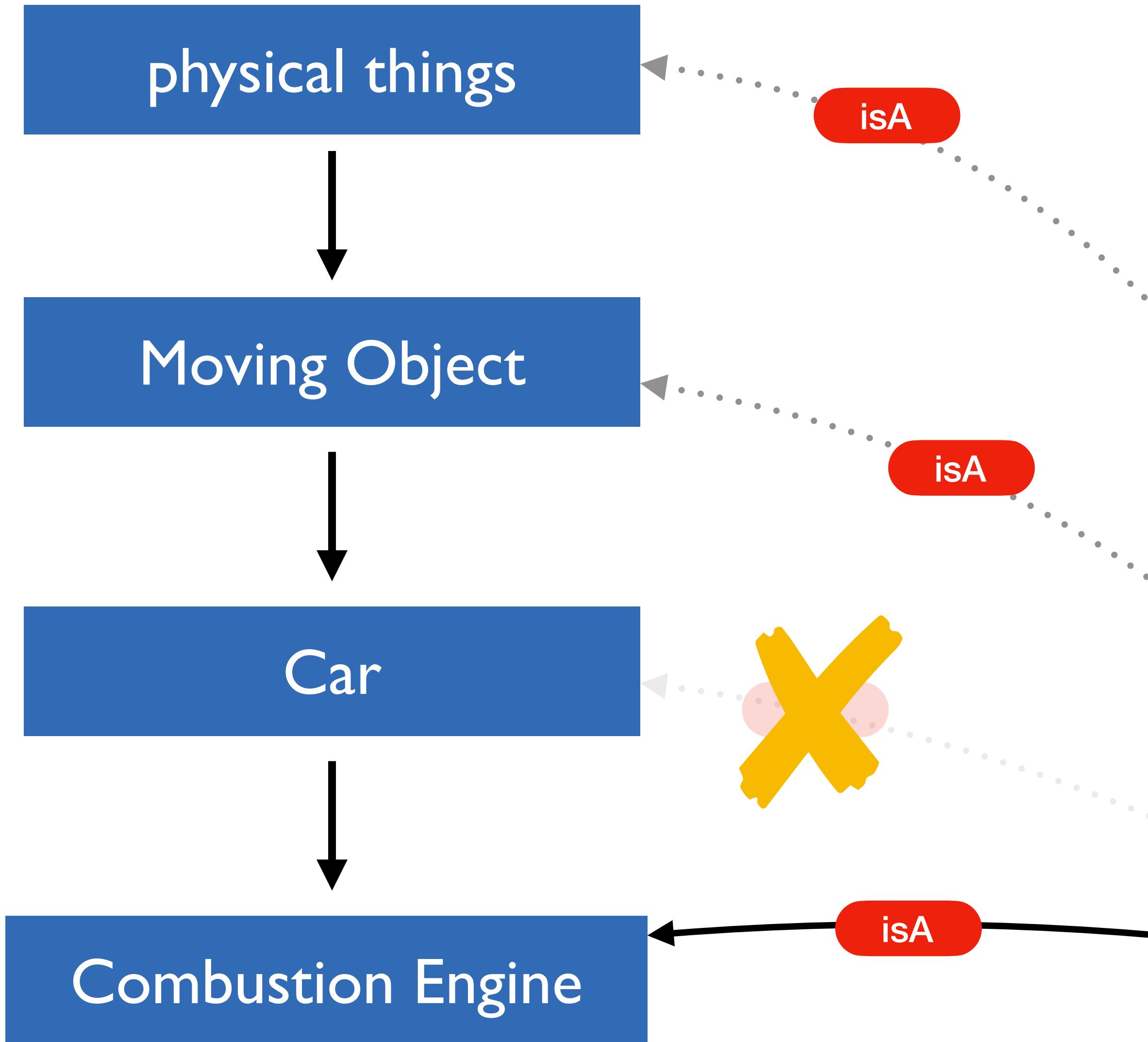
isA

article  
7651









# Essential properties of the class

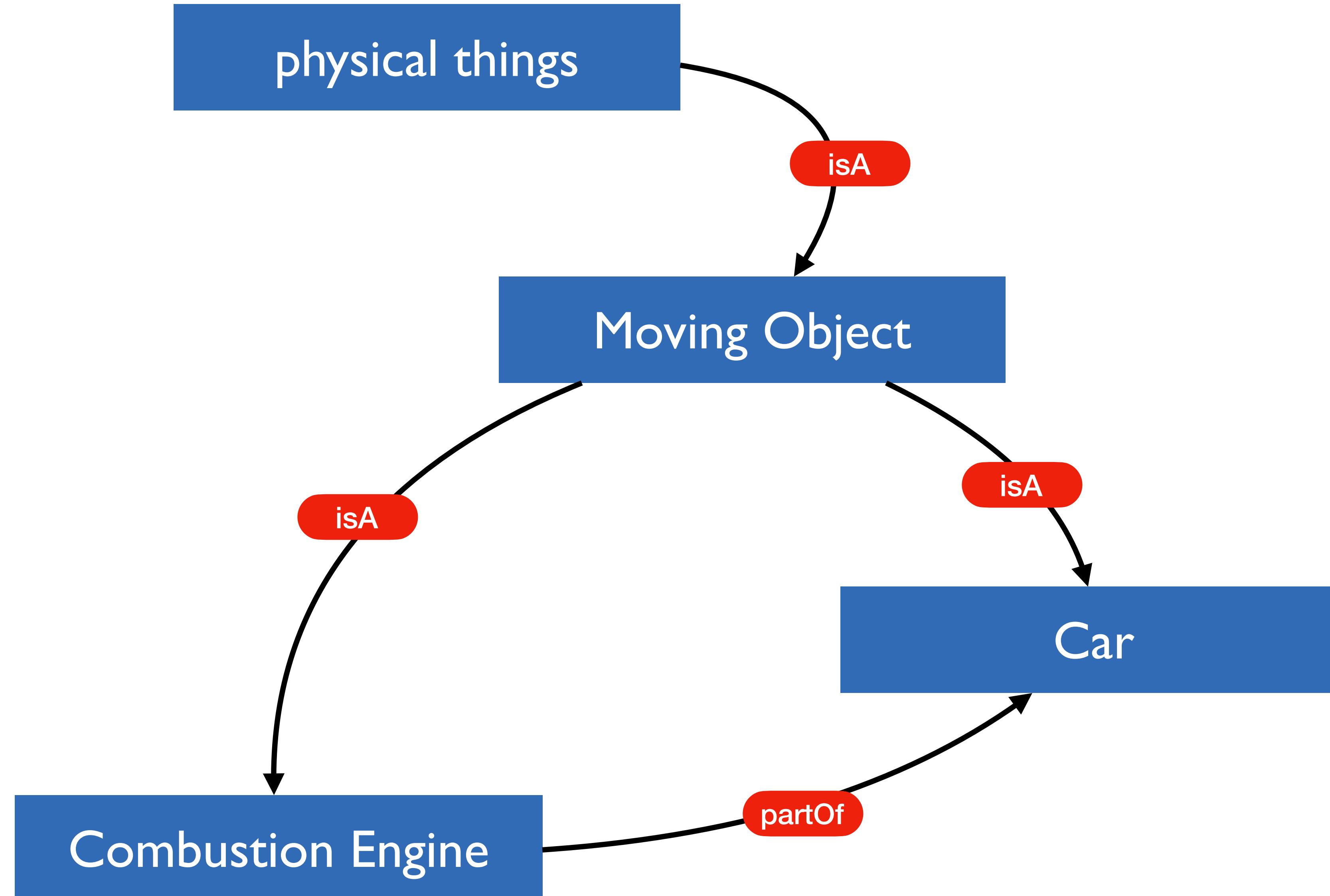
P is a necessary condition  
for the existence of the  
member of the class.

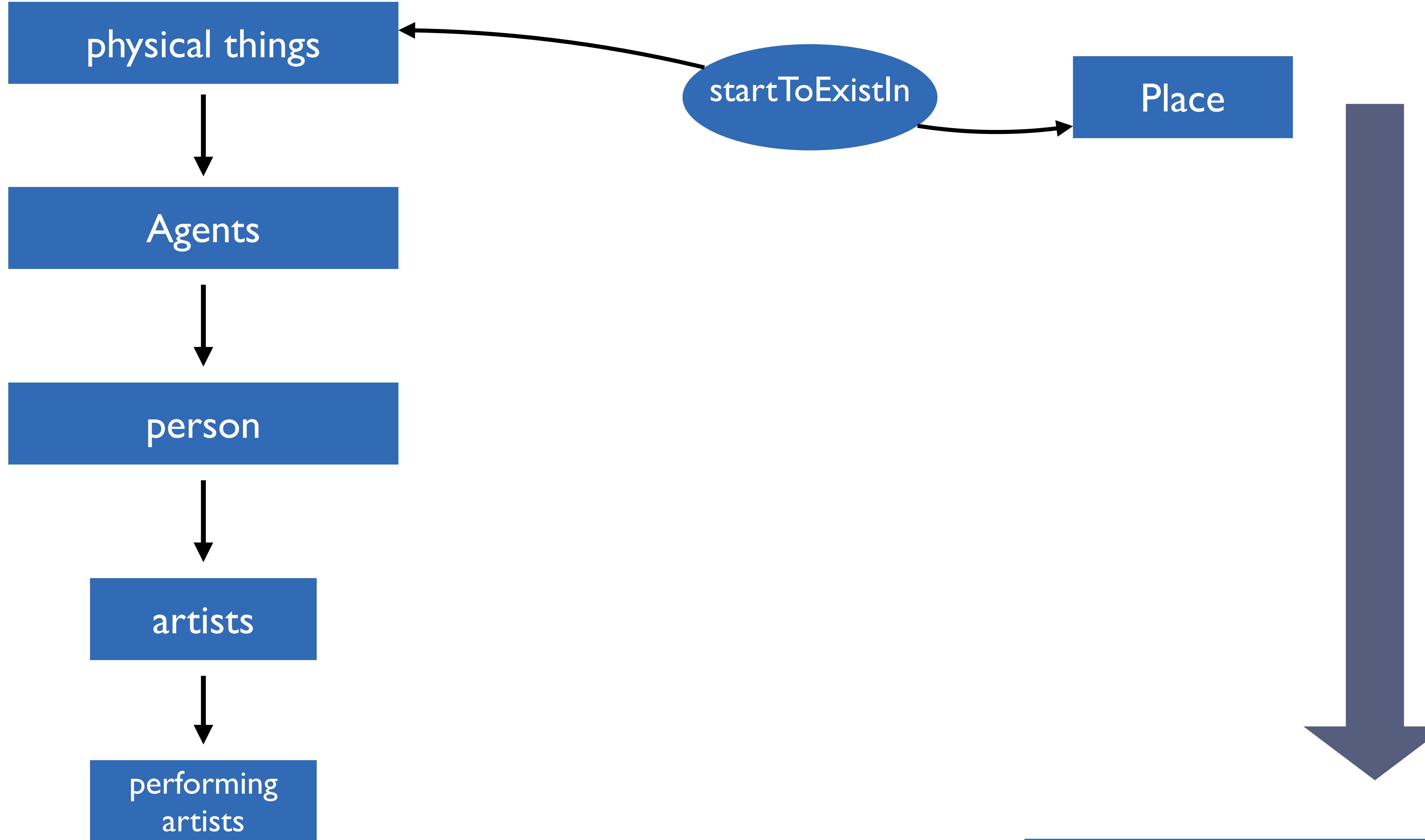
**Car:**

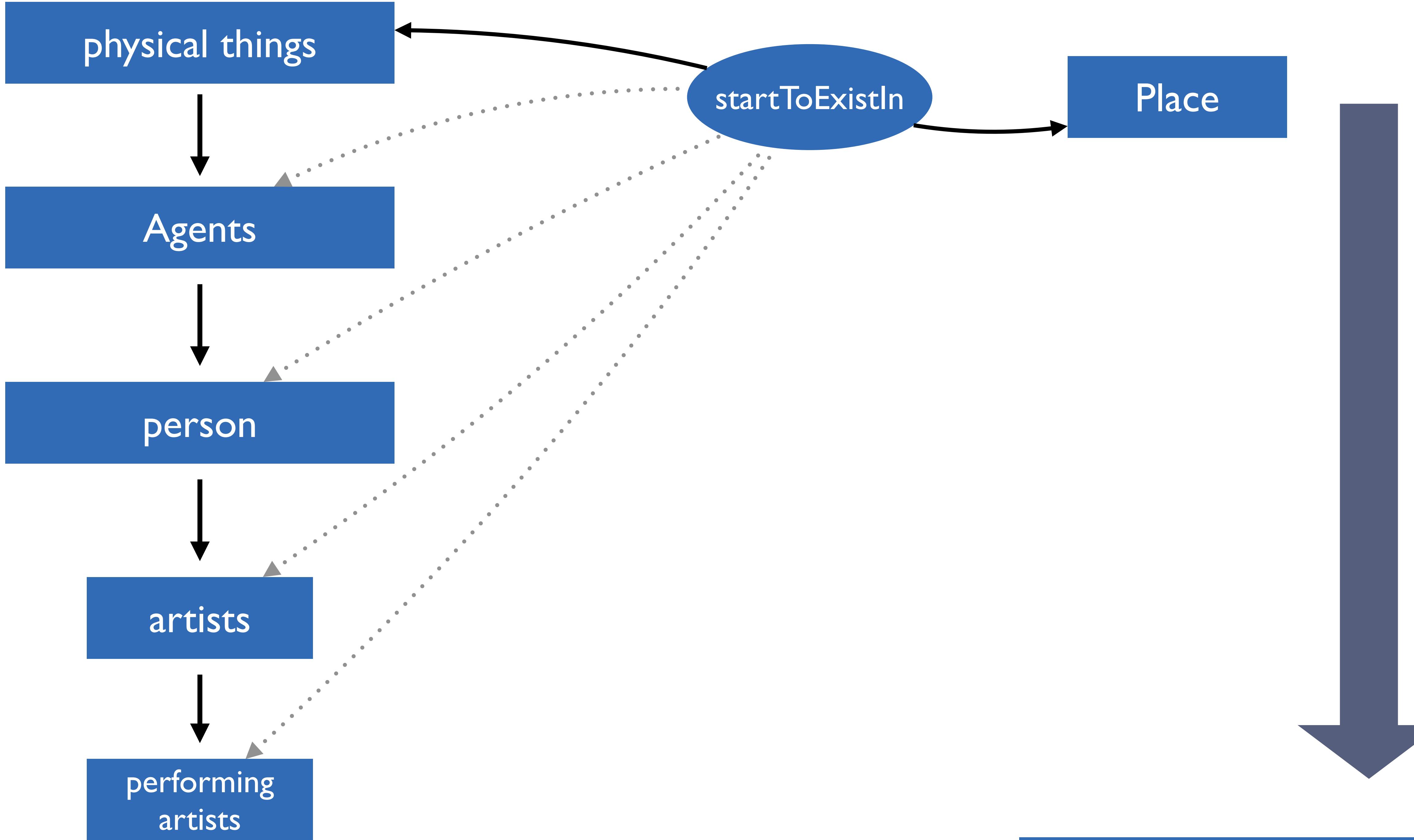
- Accommodate people

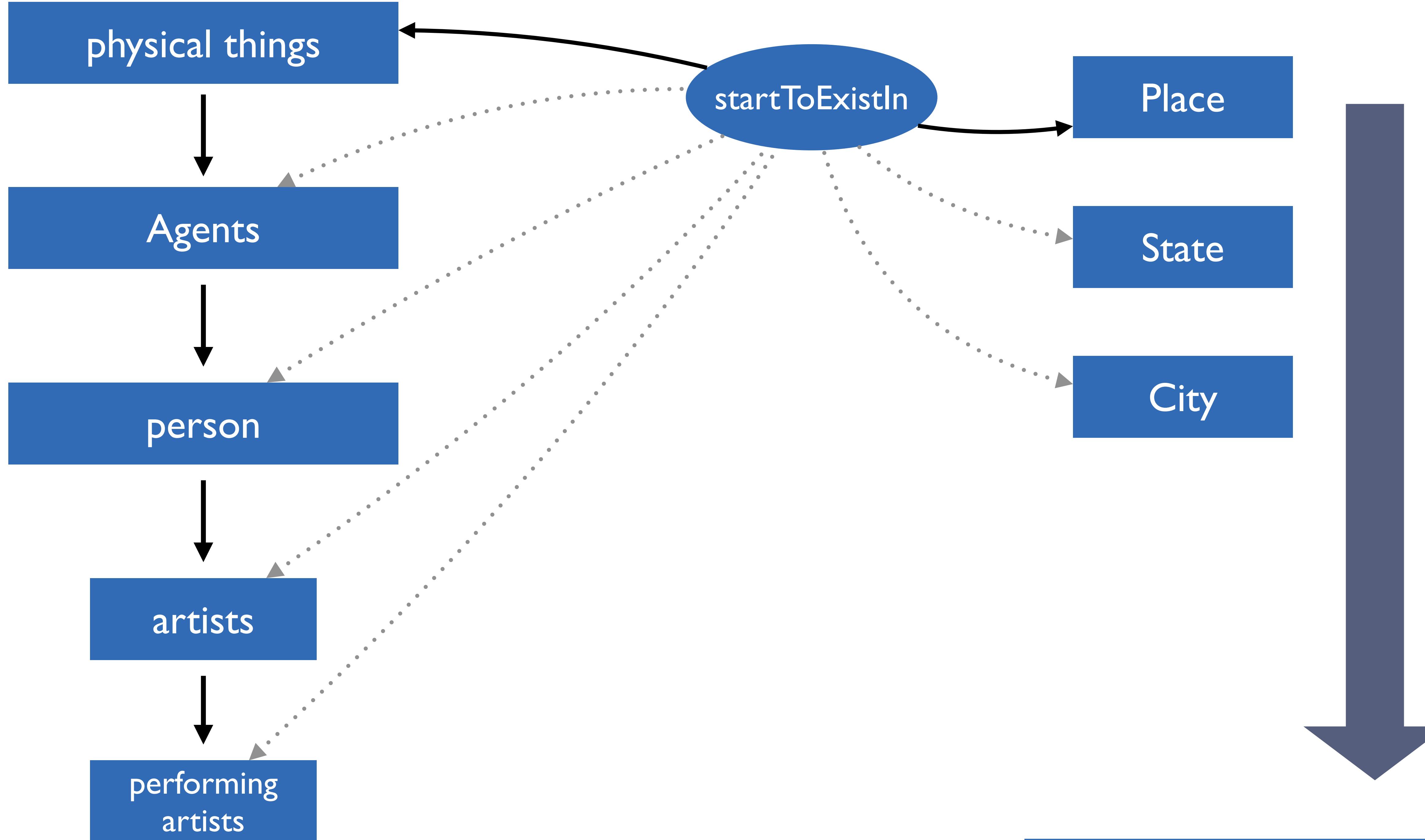
**Engine:**

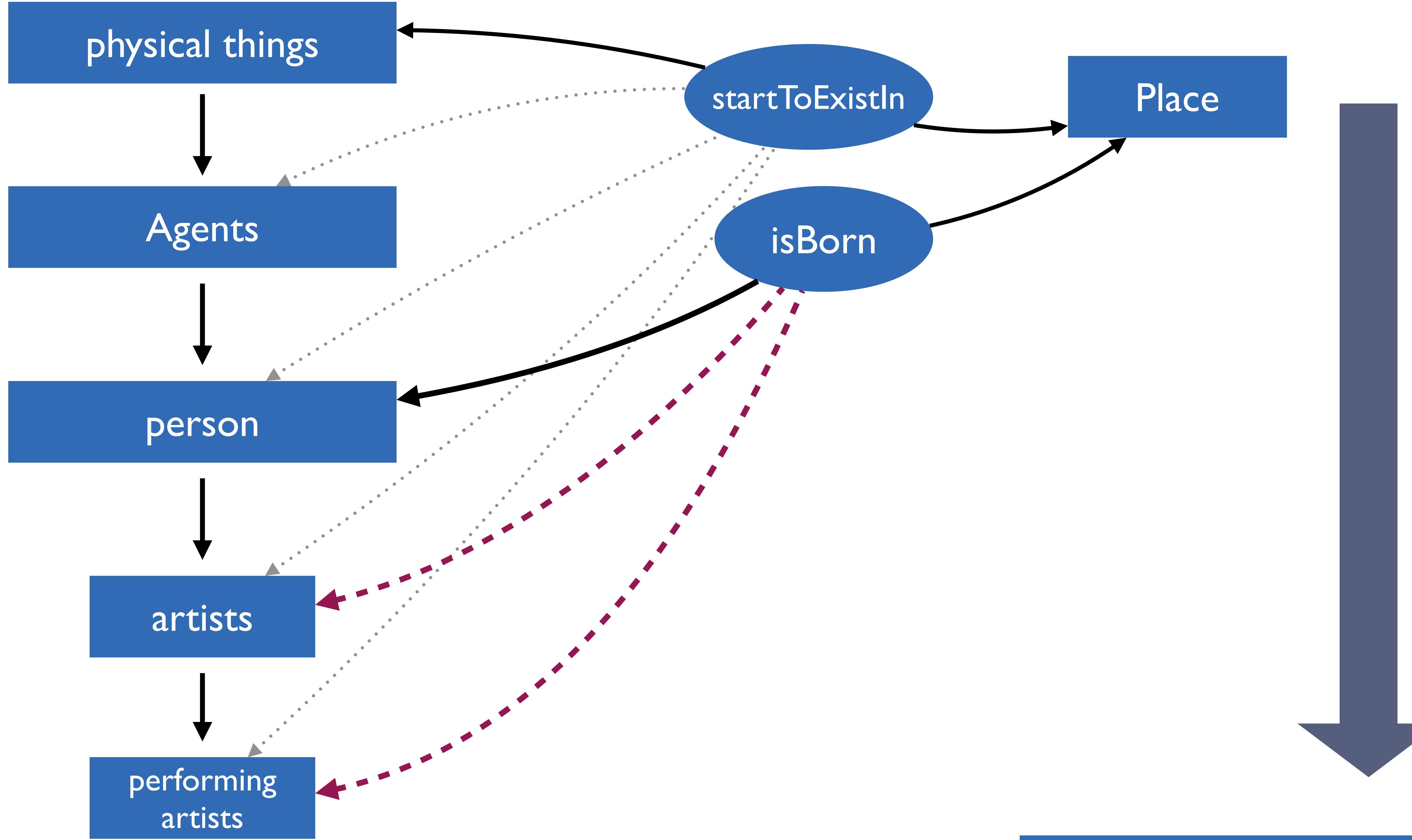
- Generate rotational force

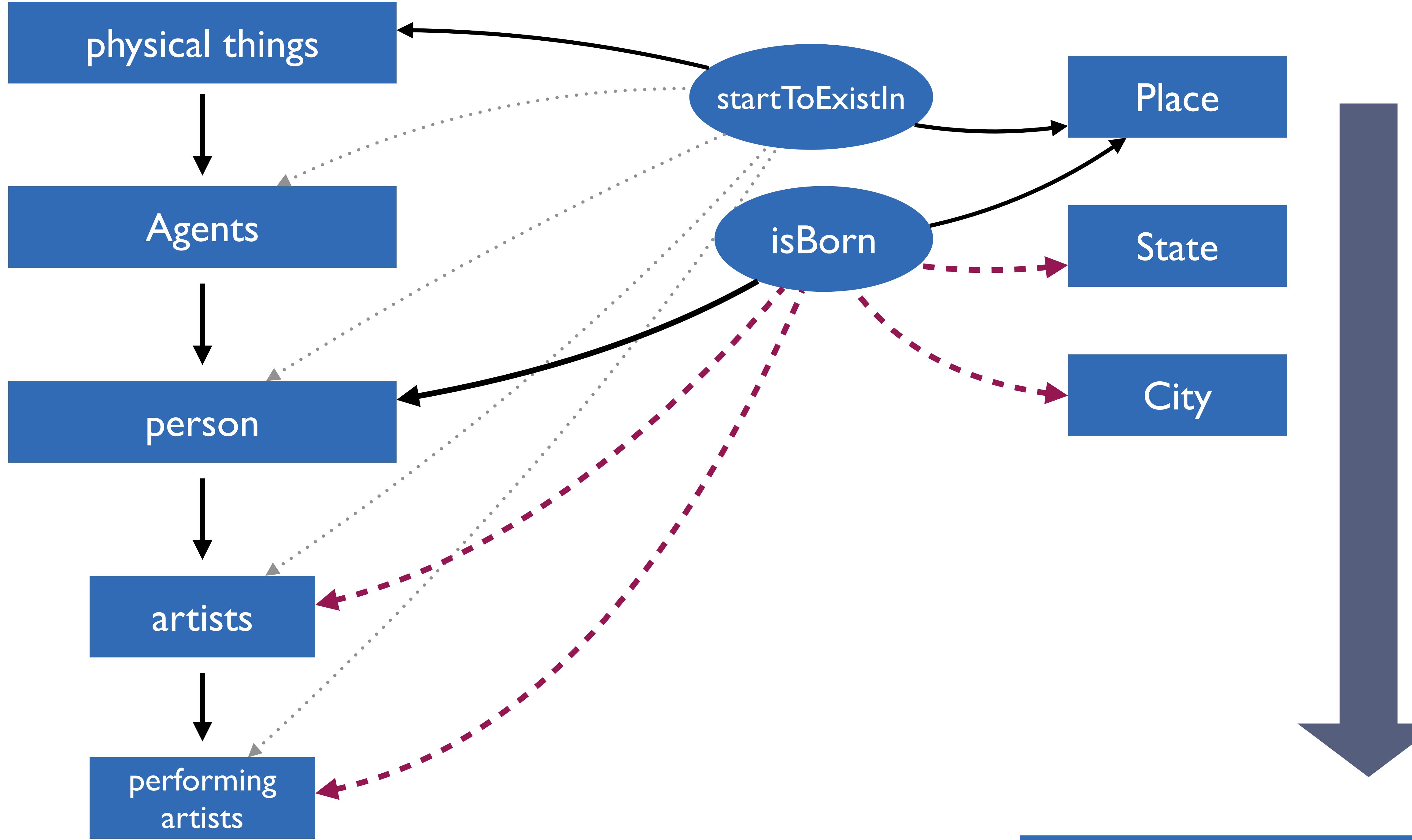


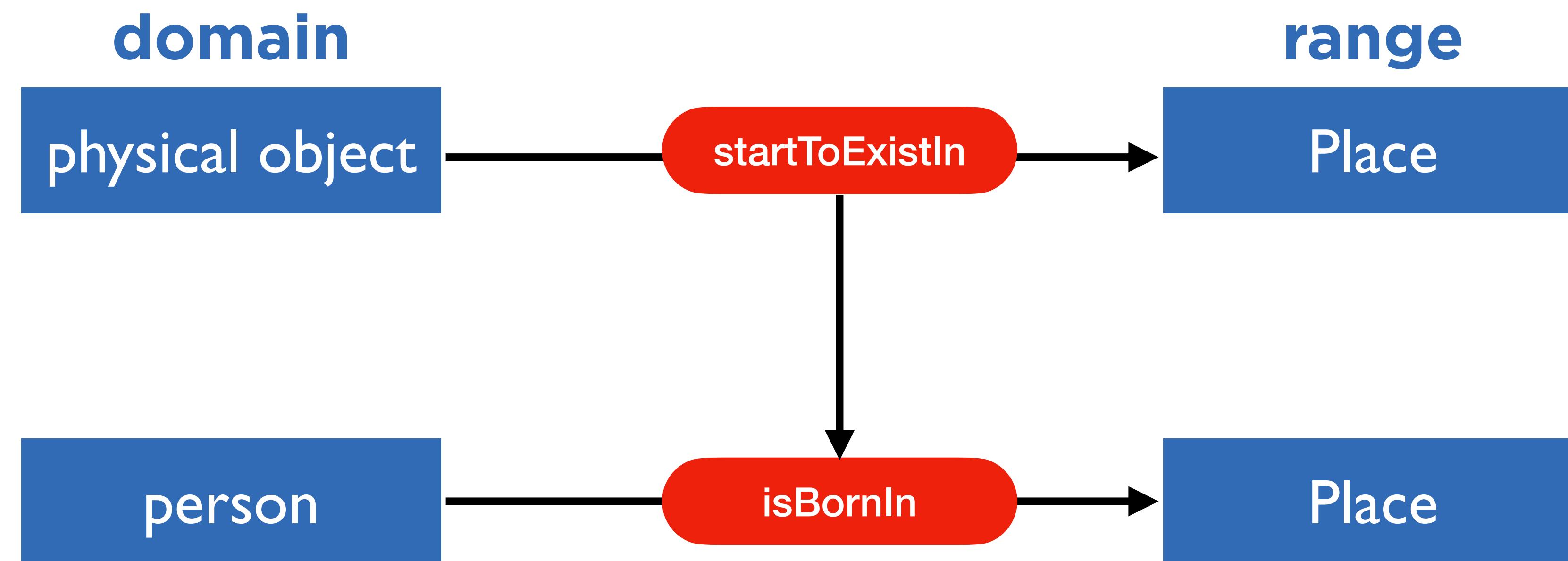


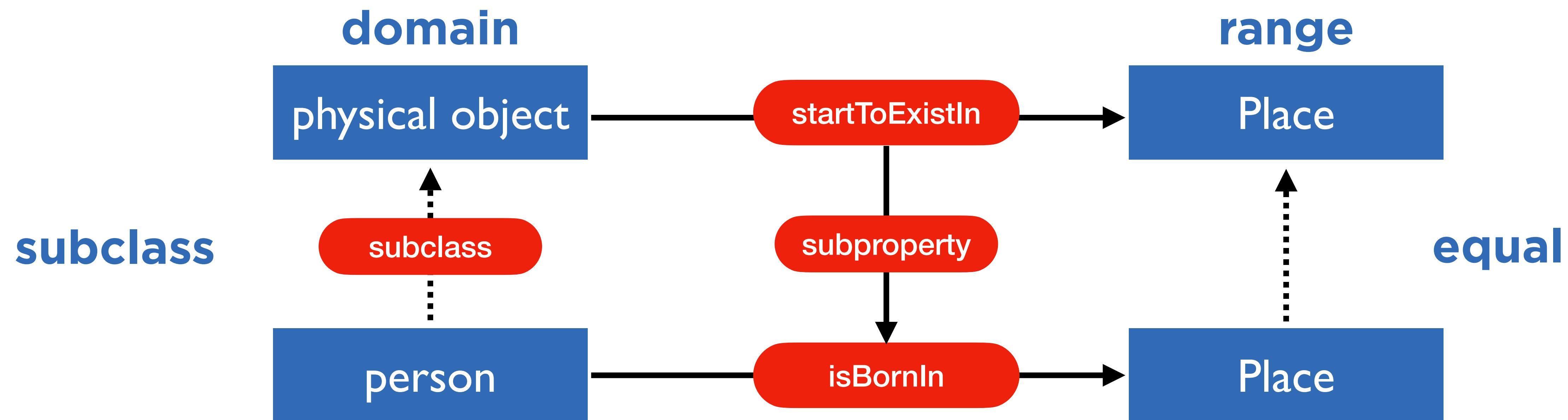






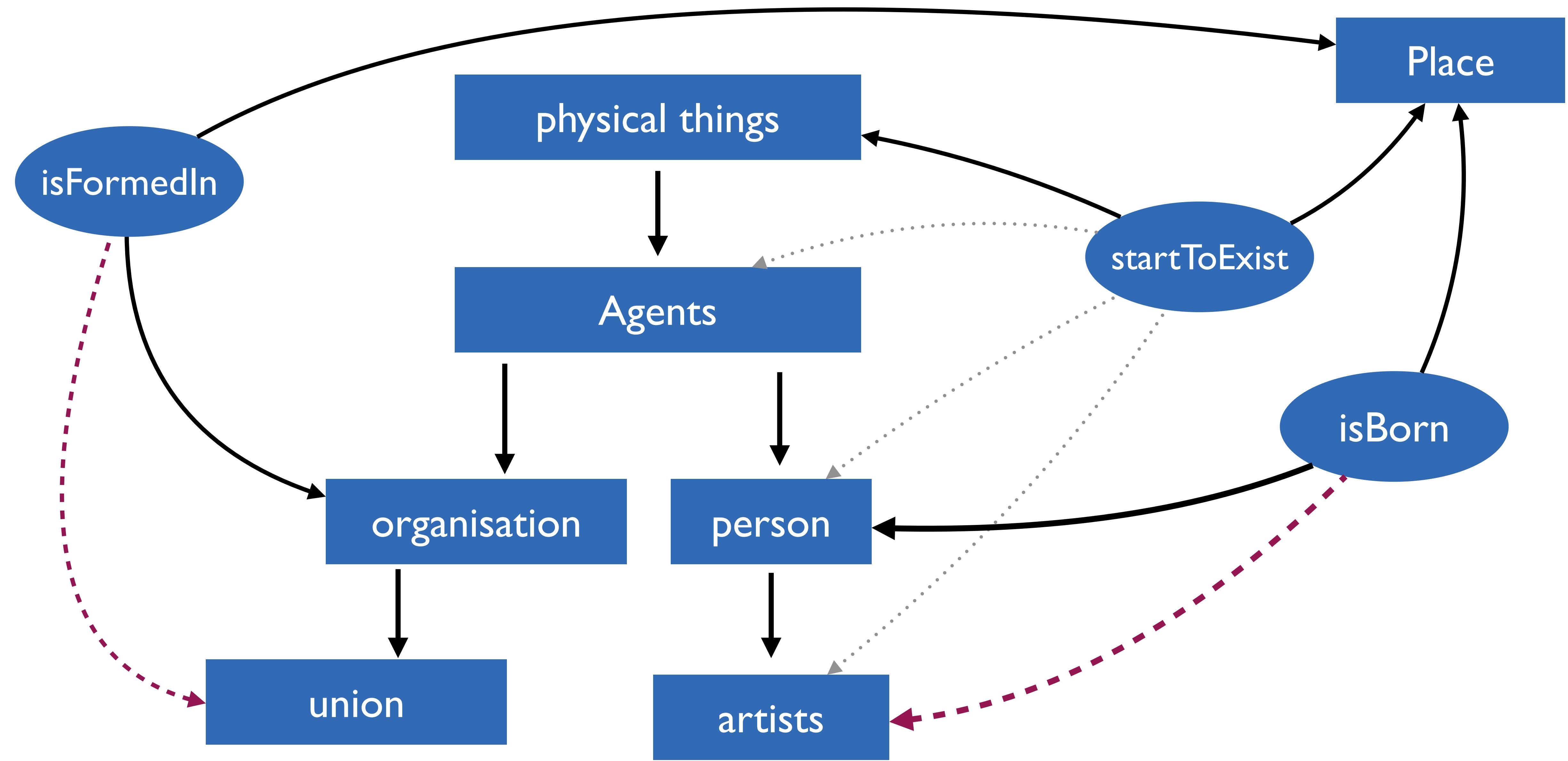


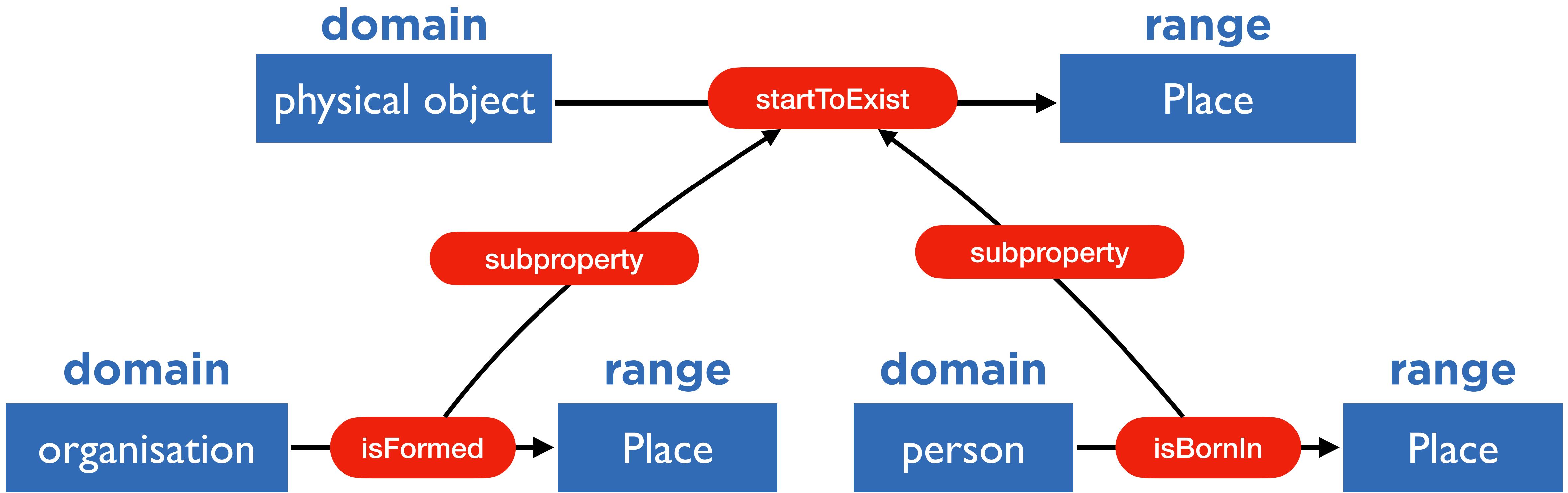


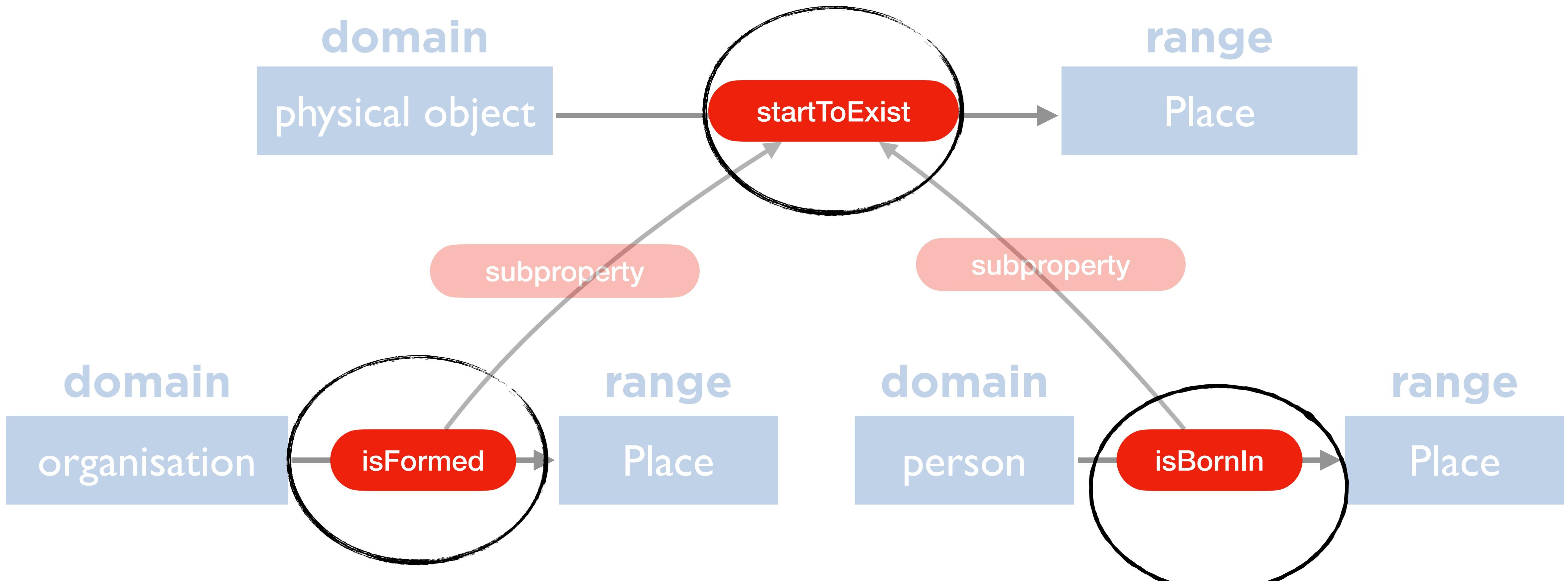


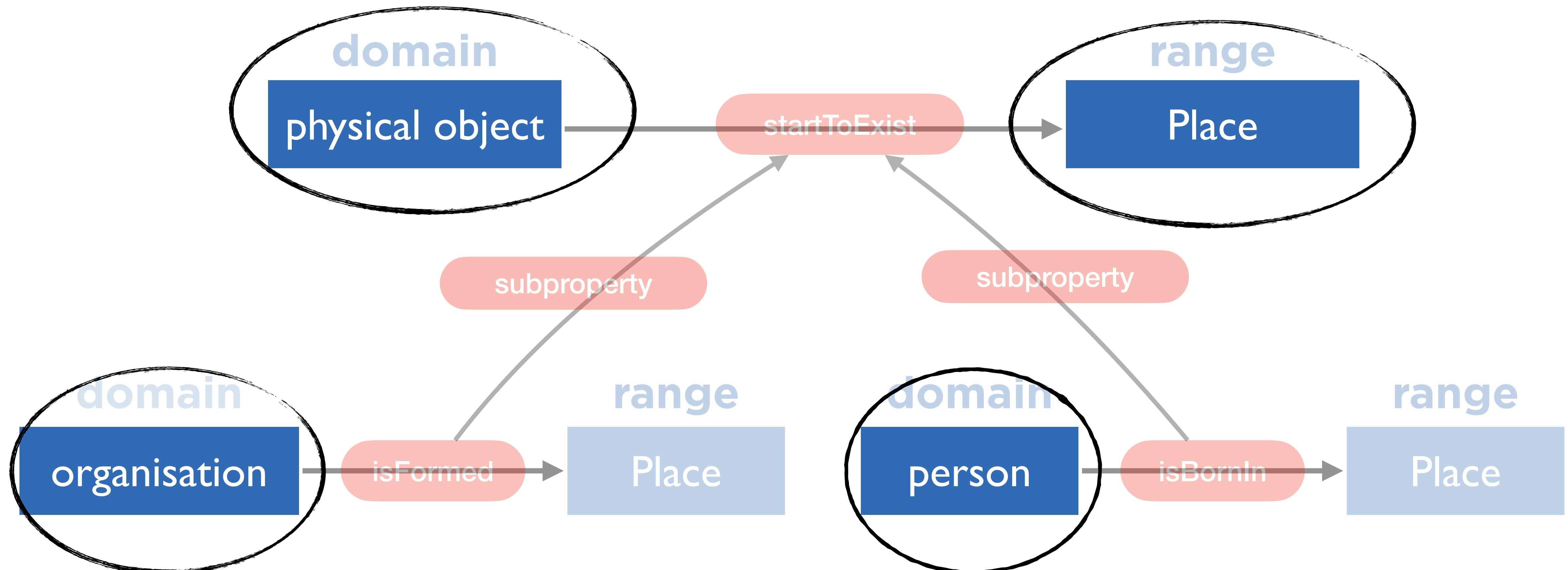
# Agents





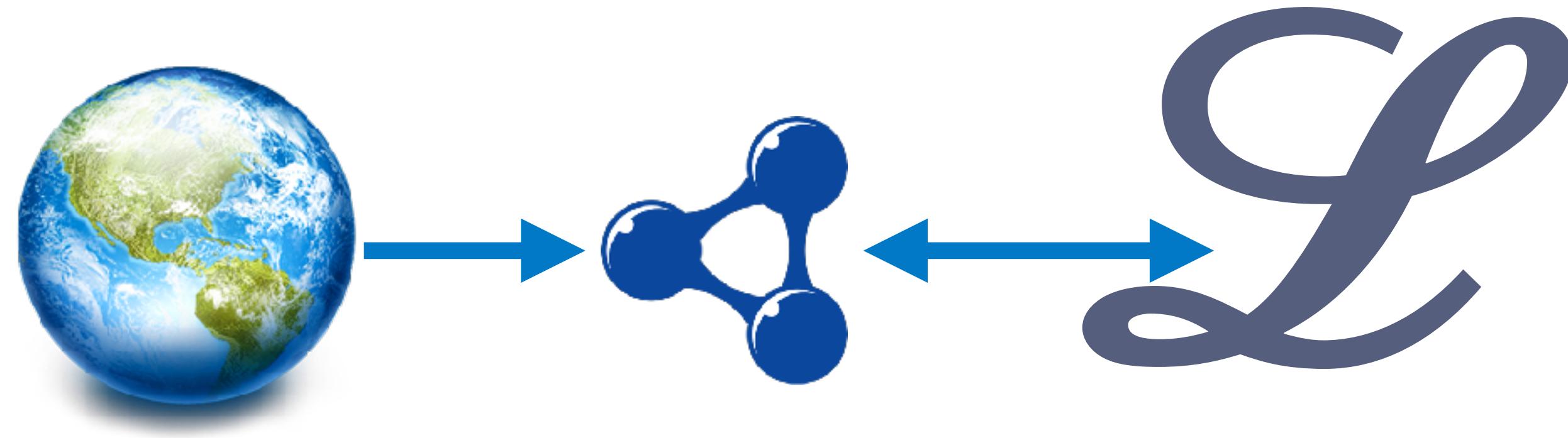






# Ontologies

## About the object



“An ontology is a formal, explicit specification of a shared conceptualization.”

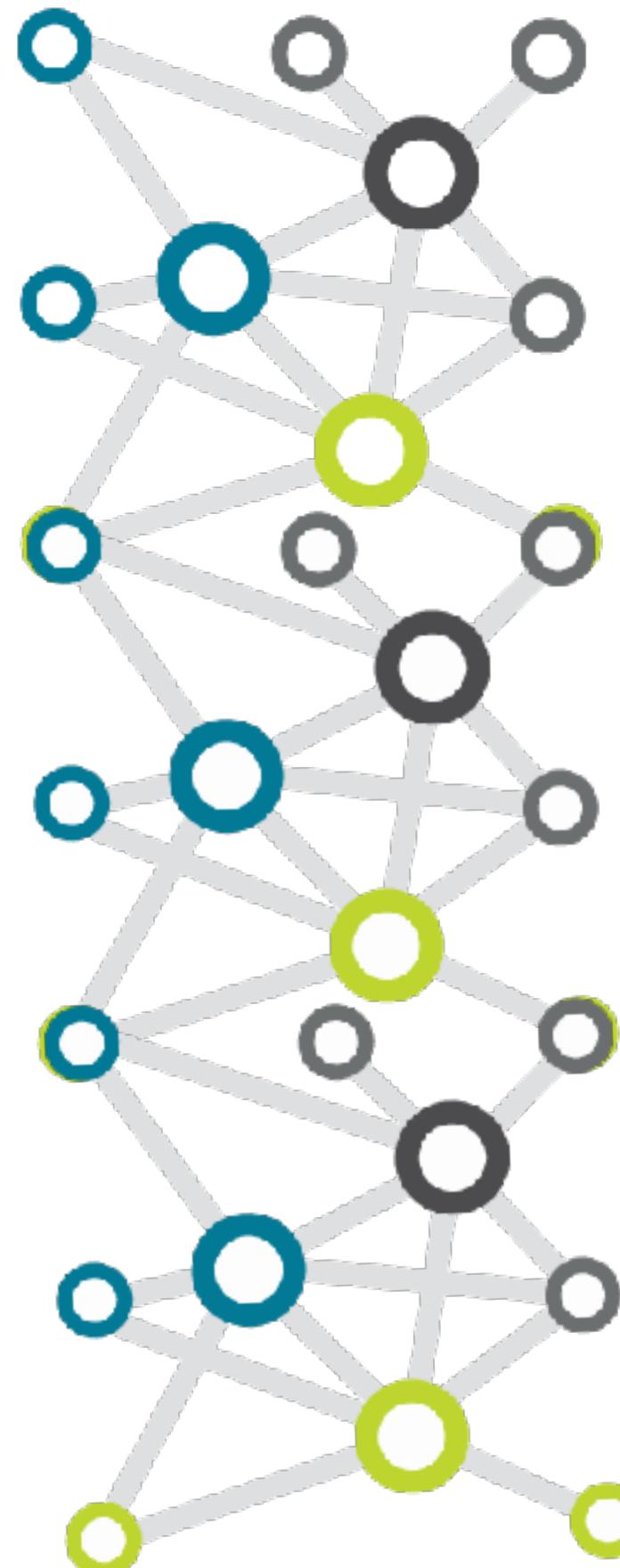
“logical theory accounting for the intended meaning of a formal vocabulary, i.e. its ontological commitment to a particular conceptualization of the world. The intended models of a logical language using such a vocabulary are constrained by its ontological commitment. An ontology indirectly reflects this commitment (and the underlying conceptualization) by approximating these intended models”

## About the object

Language



Ontology



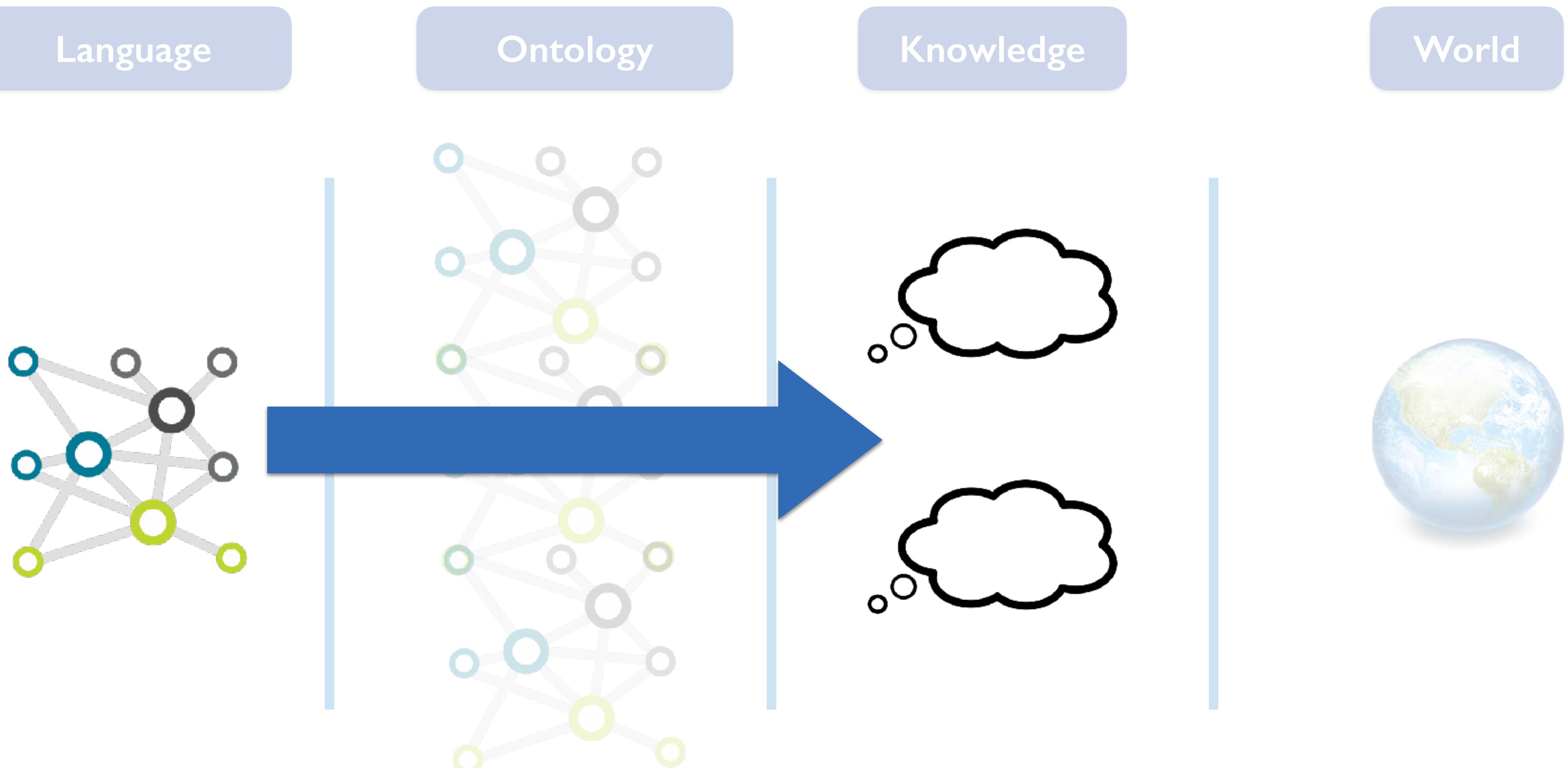
Knowledge



World



# Ontological commitment



# Classes and properties

Class

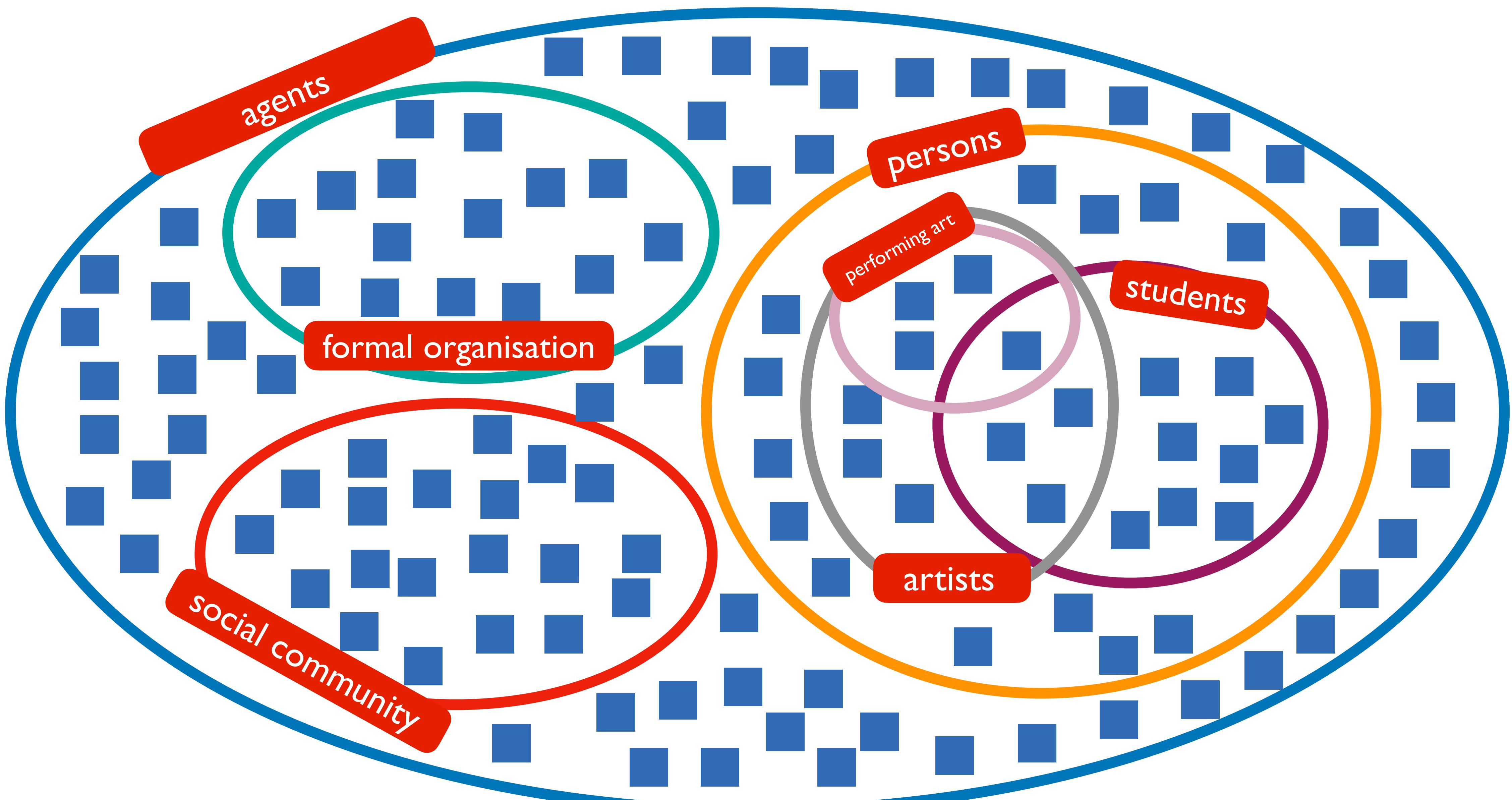
“A category of items that share one or more common traits serving as criteria to identify the items belonging to the class.”

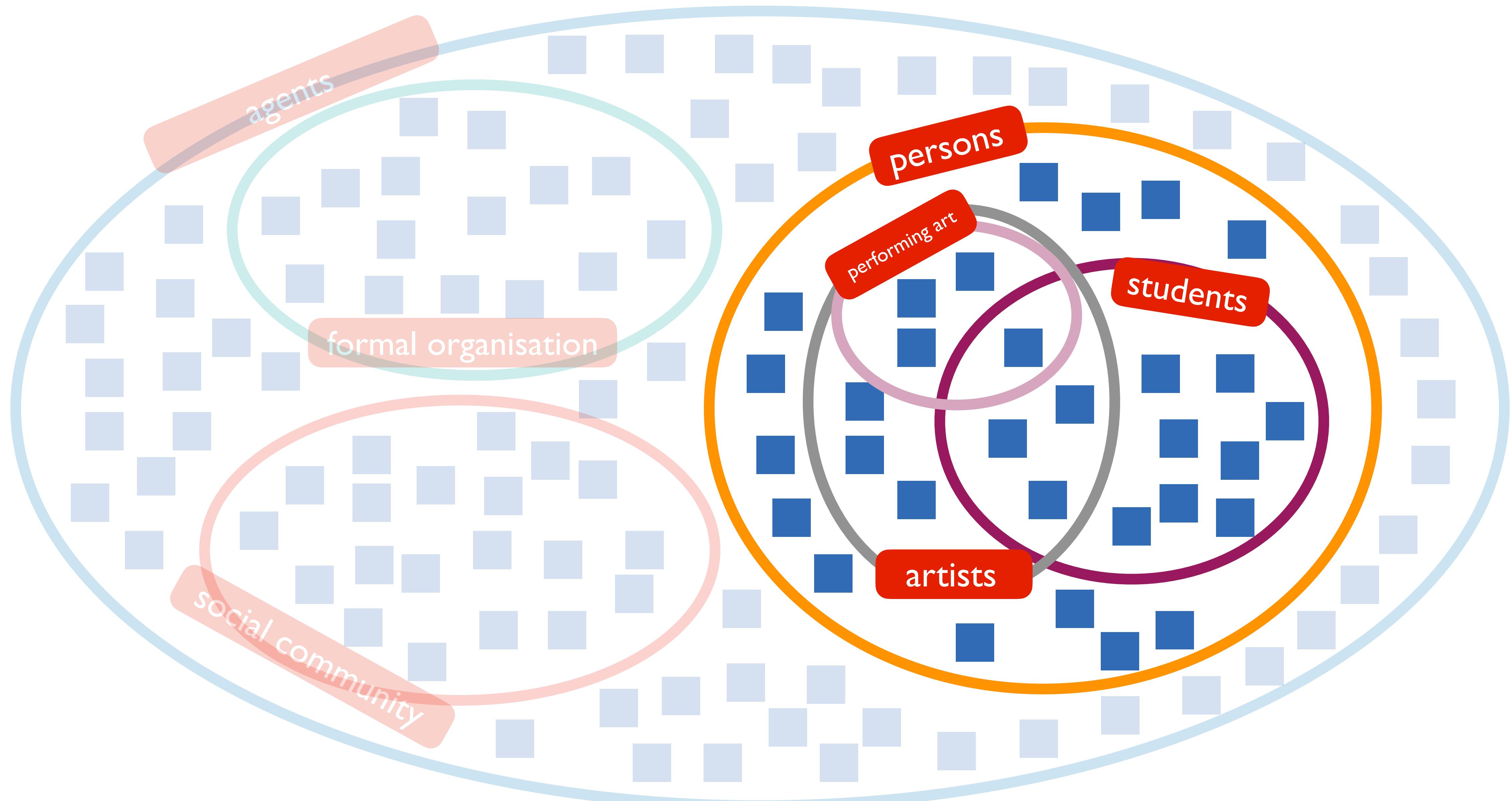
Property

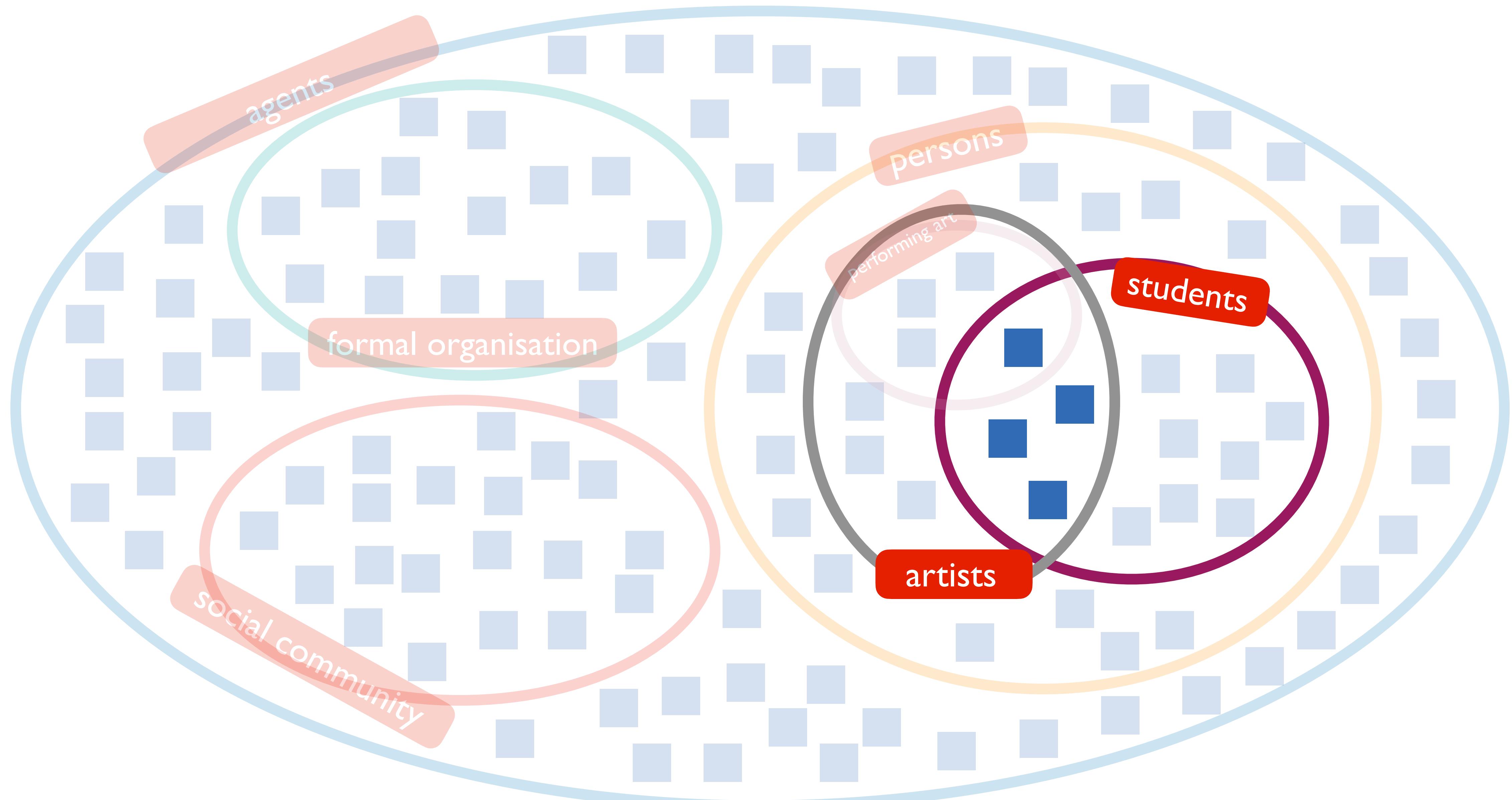
“A property serves to define a relationship of a specific kind between two classes [...] A property plays a role analogous to a grammatical verb, in that it must be defined with reference to both its domain and range, which are analogous to the subject and object in grammar.”

Instance

An instance of a class is a real world item that fulfils the criteria of the intension of the class





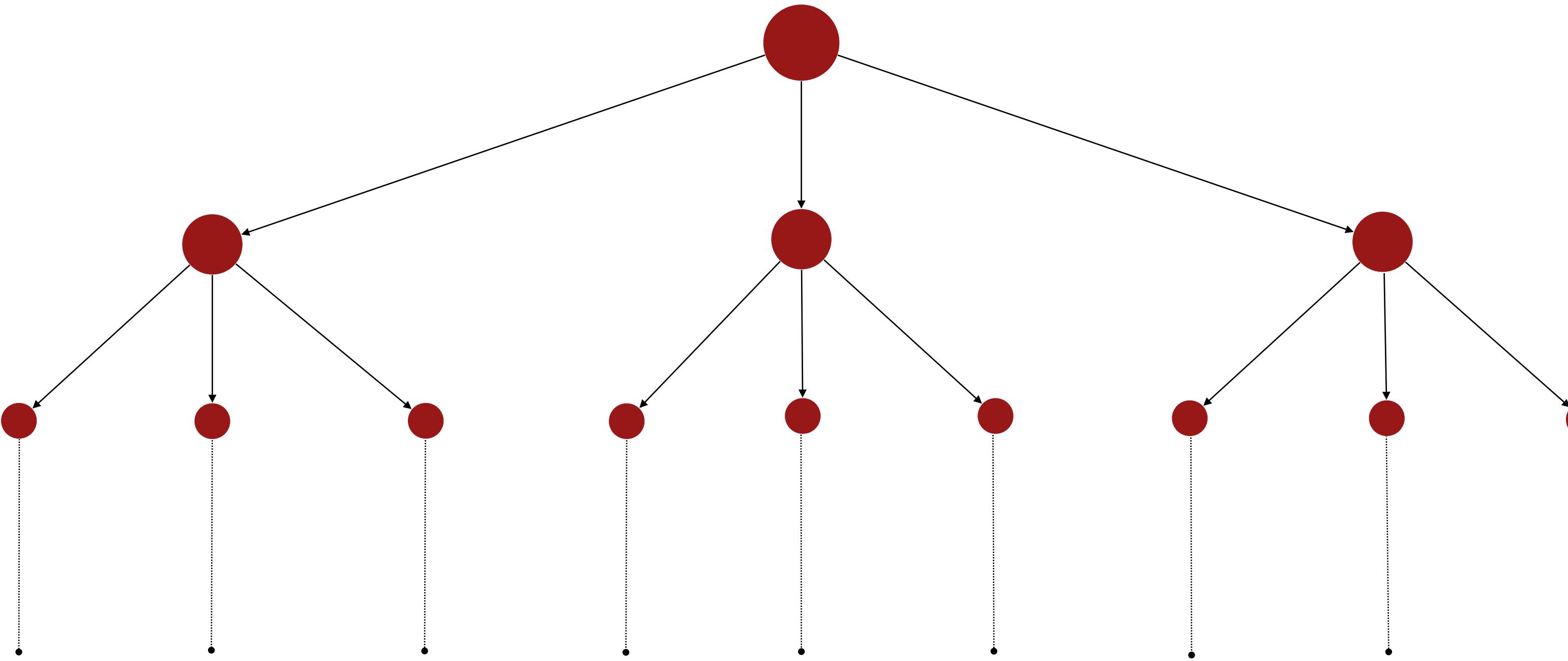


**FOAF**

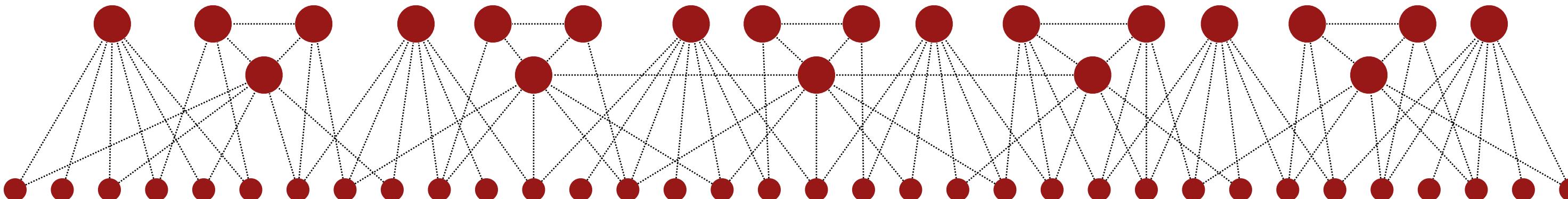
**Dublin Core**

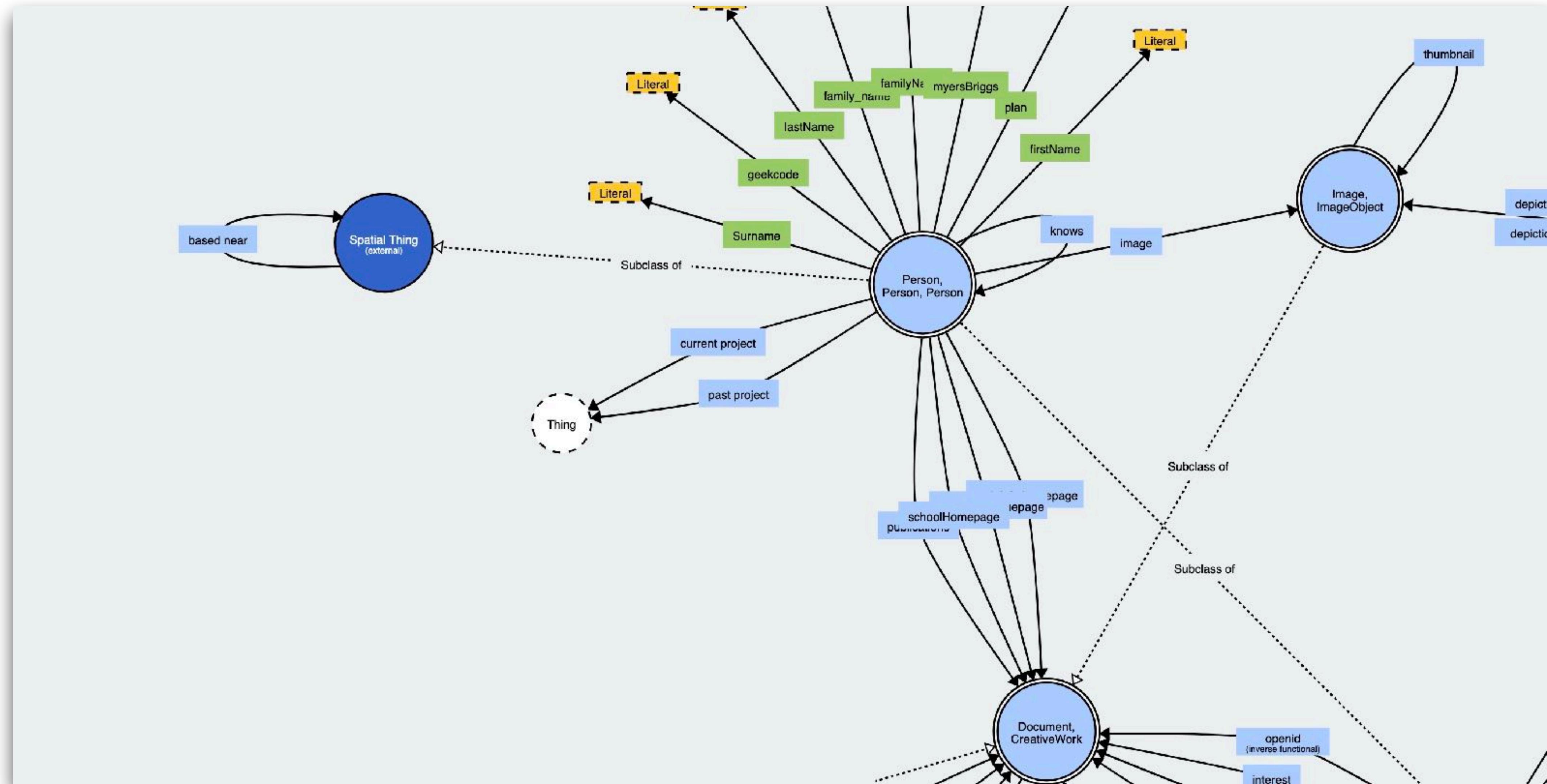
**SKOS**

## Upper ontology



## Domain ontology





# Modelling exercise

*miro and protégé edition*