

COMPUTER SCIENCE DEPARTMENT

Computer Science - Curriculum Artificial Intelligence

Project Assignment

Foundamentals of Artificial Intelligence

GraphBrain

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1.1 Exercise 1

1.1.1 Brief description

In this exercise, I've uploaded the following to retrocomputing:

- Metal Slug Series Main games: about 10 games from the Metal Slug series, which are the main games in the series.
- Flight Simulator Series: about 10 games
- Street Fighter Series: about 8 games
- Dragon Ball Games: about 15 games
- About 5 console games
- About 5 company
- For each videogame, which is a software, I've added information with the relationship producedBy to the company that produced it
- For each console the producer (I also add the produced for already existing consoles)
- I've added my city Matera and nearby cities (about 30)

to food:

- Crapiata: a dish from Matera, which is a soup made with legumes and vegetables (and also some missing ingredients)
- Relationships about the previous plate

1.1.2 Improvements to the ontology

I suggest to add the following updtates to the ontology:

- First Person Shooter: I suggest to add the class First Person Shooter to the ontology as subclass of Videogame
- **Fighting Game**: I suggest to add the class *Fighting Game* to the ontology as subclass of *Videogame*
- Action Game: I suggest to add the class *Action Game* to the ontology as subclass of *Videogame*

- Sandnox Game: I suggest to add the class Sandbox Game to the ontology as subclass of Videogame
- For software the relationship developedBy involves software and Person. However, in many cases (e.g. videogames) the software is developed by an Organization. I suggest to add this update to the ontology as well.
- I would add a relationship runOn between the class Software and the class **Operating System** to indicate the operating system on which the software runs.
- I'dd add also *executedOn* between the class *Videogame* and the class **Console** to indicate the console on which the videogame runs.

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1.1.3 Bugs and improvements in the interface

I was linking together the videogames and the companies that produced them. I clicked on Entity on the object and an execption page appeared. Even after restarting my computer and deleting the cache, the problem persists (here's a screenshot of the error) but changing the browser solved the problem.

When I want to add a new relationship, I can't start from the Object but only from the Subject.