Assignment 2: Artificial Intelligence Programming Paradigms

Embodied cognitive semantics

Deadline: Friday 4 November 2016, start of class

Description

Basing yourself on irl-tutorial.lisp (see Pointcarré), you should introduce a new primitive operation to filter the geometric forms based on color. To do so, you first have to extend the object class to have a color attribute as well. Provide at least three different colors for the objects in the context. The primitive should be multi-directional.

Extra: think about how to introduce continuous color values. What would be a good similarity measure for filtering?

Format

a) Write a scientific report in which you demonstrate multiple uses of the new primitive, including how it combines with other primitives and how you would chunk it. Include screenshots of the web interface with the solutions of evaluation and composition. Max 3-5 pages.

b) Submit your code as a lisp file. Your functions should be fully documented and it should be clear where your contribution starts.

Submit both the report and the code before the deadline by sending an e-mail to Katrien@ai.vub.ac.be