COMP310 Week 7 Tutorial

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In his 1969 book *"Speech Acts: an Essay' in the Philosophy of Language"*, John Searle identified a number of different speech acts, some of which have informed research into agent communication languages such as KQML and FIPA ACL. In each of the questions below, give a brief description of the speech act category and give an example for each.

(a) Representatives   (**2 marks**)

(b) Directives   (**2 marks**)

(c) Commissives   (**2 marks**)

(d) Expressives   (**2 marks**)

(e) Declarations   (**2 marks**)

It is often useful to distinguish ontologies based on their role (i.e. how they are going to be used). Briefly describe the role of each of the following:

(f) Upper Ontology   (**3 marks**)

(g) Domain Ontology   (**3 marks**)

(h) Application Ontology   (**3 marks**)

(i) What are the **three** main components of an ontology, and how are they represented in a diagram? (**6 marks**)

(j) Create and draw your own application level ontology. It can be about anything you please, but it should then allow someone (or an agent) who is unfamiliar with the domain to be able to reason about it. It does not have to be big, but should be substantial enough that there are a number of levels to the hierarchy, with (as if we view the hierarchy as a tree) multiple leaves at the bottom level, with the most specific items in the ontology. (**10 marks**)