

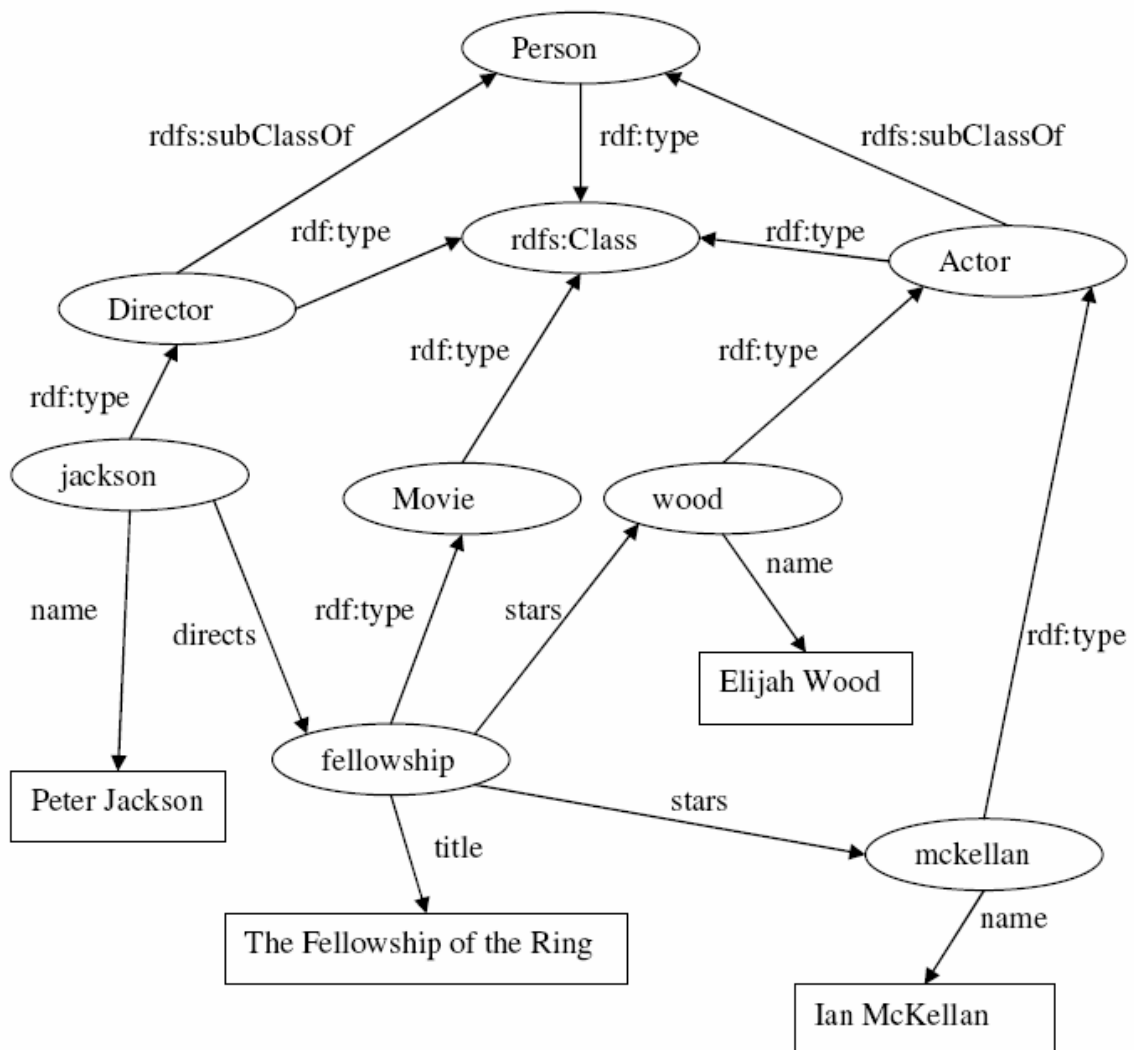
Due on: **Wednesday 27.06.2007 by 13:00** (via email: tso@ismll.uni-hildesheim.de)

Exercise 10.1

a) [1 points] How can RDF contribute to the Semantic Web?

b) [2 points] What is inference in RDF? Give an example.

c) [10 points] Translate the following RDF Graph into the RDF/XML syntax. For node and arcs labelled with *QNames*, assume the standard prefixes apply. For other names, assume they are all local to the document you are writing.



Exercise 10.2

[7 points] Create a RDFS ontology about Company and Person in RDF N3 notation.

Given the following relations: Company, IT Company, Marketing Company, Person, Employee, Project Manager, CEO, Board member

- Company has a location.
- Person has a name and is employed by a company.
- Employee and Board member are persons.
- Project Manager is an employee.
- CEO is a board member and an employee.