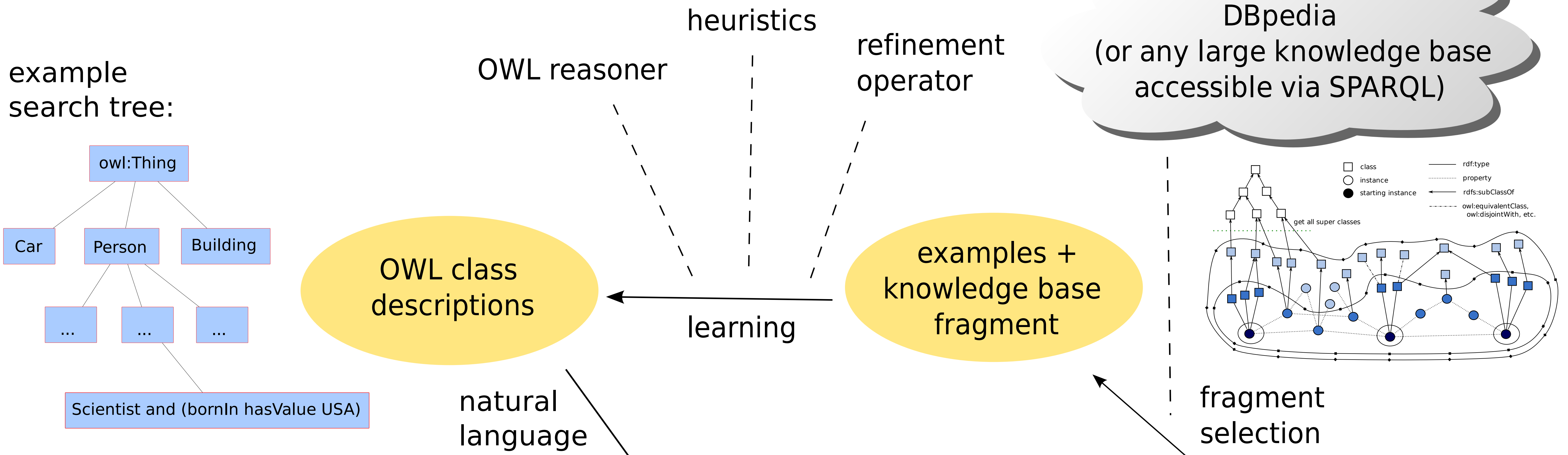


DBpedia Navigator

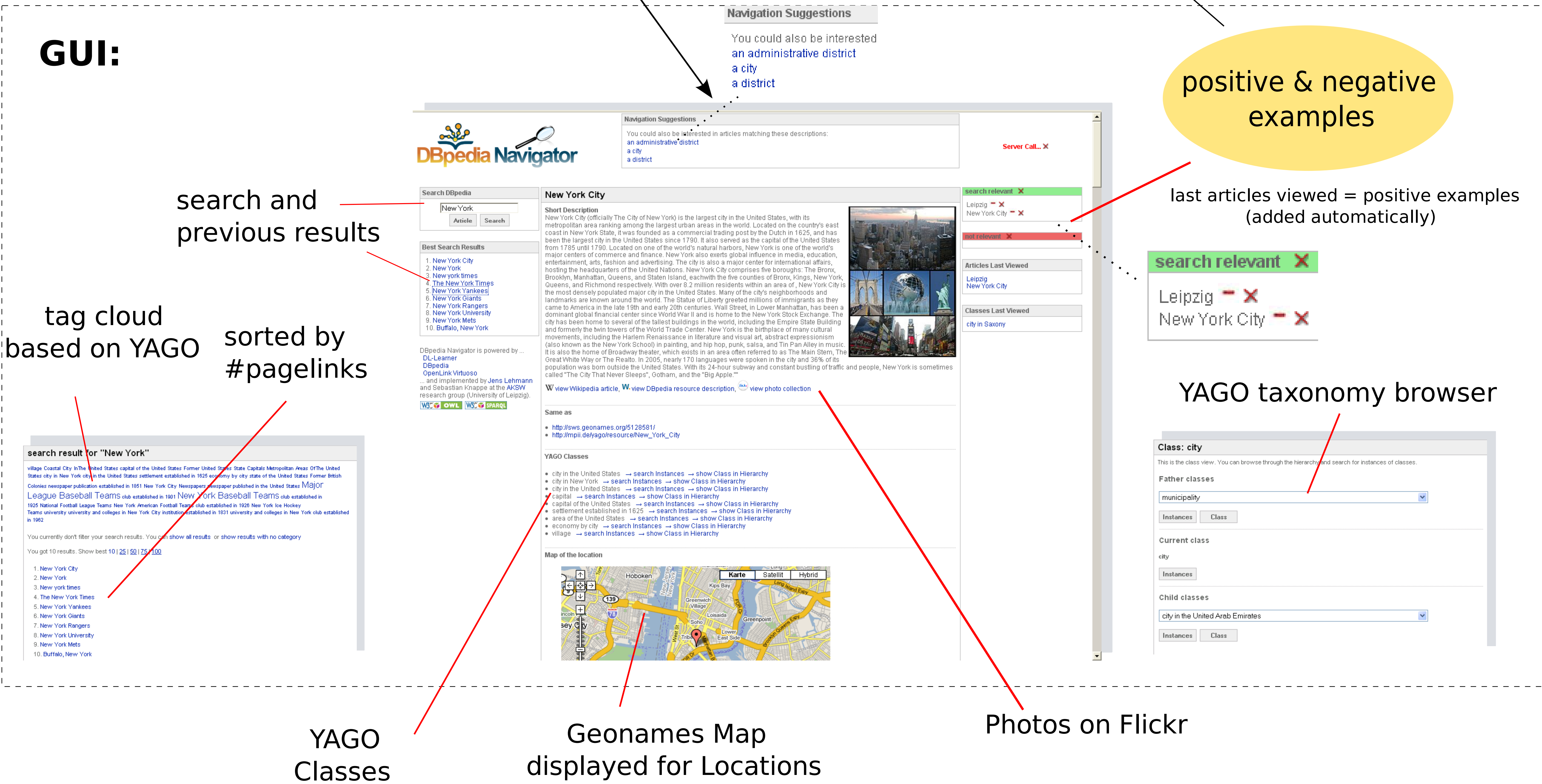
<http://navigator.dbpedia.org>

A tool for browsing, searching, and navigating in DBpedia and interlinked data sets.

Backend:



GUI:



Features:

- navigation suggestions (scalable Machine Learning techniques)
- user friendly instance data display
- REST interface
- search using a simple page rank
- restricting search results by class using tag clouds

Technologies Used:

- supervised Machine Learning based on OWL ontologies (DL-Learner)
- Knowledge Base Fragment Selection (DL-Learner)
- OWL reasoning (Pellet)
- SPARQL (Virtuoso)
- AJAX
- Web Service

Future Work:

- use new DBpedia ontology for better article display and suggestions
- adapt general OWL ML algorithm to the navigation scenario (restrict to a simple language, e.g. extension of EL)
- improve performance, e.g. keeping the schema in memory instead of querying it on each request
- improve stability: DBpedia Navigator is a research prototype (not yet end user ready)

