

Semantic Enrichment of Web Search Results at Real-Time

X-ENS in one sentence

An exploratory search service that enhances at real-time the classical keyword-based web searching with semantic information, as a means to combine the pros of both Semantic Web standards and common Web Searching through an innovative and dynamic entity-based integration approach that is performed at query time.

X-ENS features

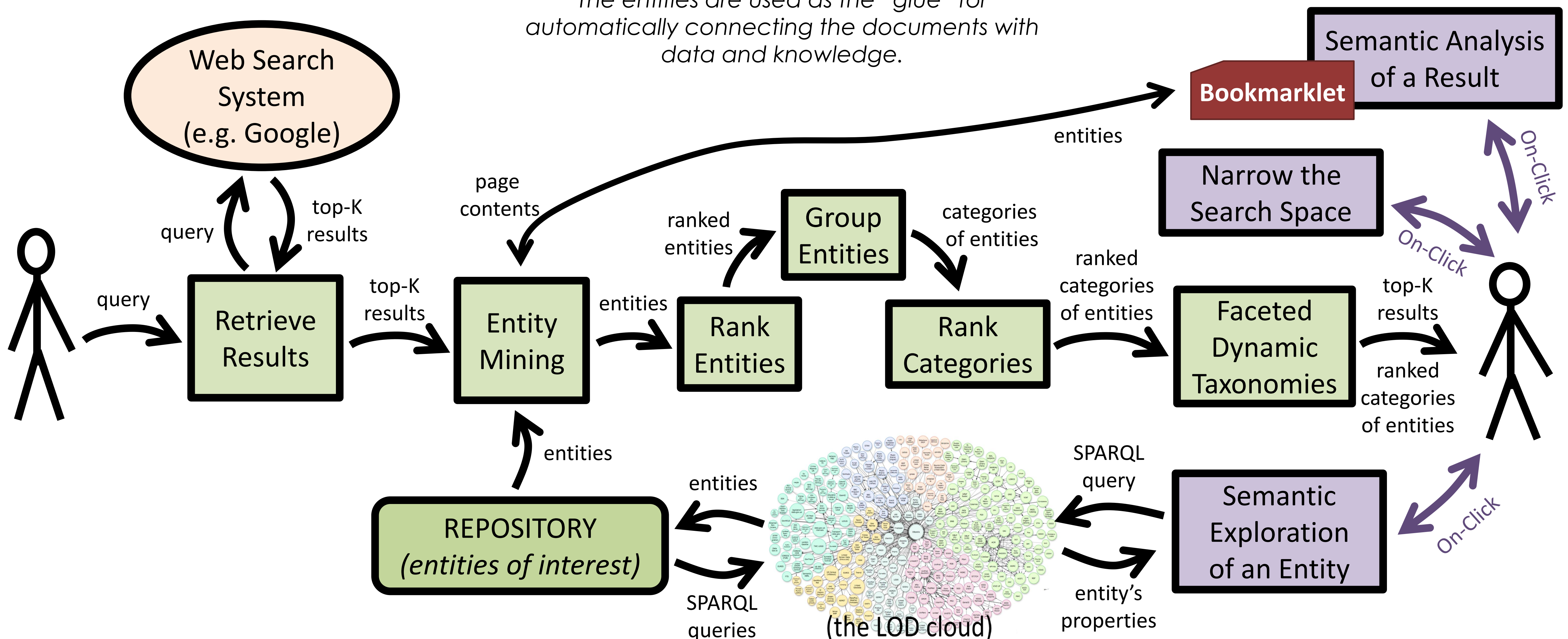
- ❖ Discovery of “*entities of interest*” in the snippets of the top search results
- ❖ Faceted search-like exploration of the results
- ❖ On-click semantic exploration of the Linked Data
- ❖ On demand semantic analysis of individual hits
- ❖ Bookmarklet (i.e. X-ENS during plain web searching for use in any web page)
- ❖ Fully configurable:
 - Specifying the underlying search system
 - Adding a new category of entities
 - Specifying the desired categories of entities
 - Specifying the underlying SPARQL endpoints and SPARQL queries
 - Storing a configuration

An indicative screen dump

The screenshot shows the X-ENS search interface. At the top, there is a search bar with the query 'top tennis players' and a 'Search' button. Below the search bar, there are navigation links: 'about X-ENS | admin configuration' and '50 results to mine'. The main content area displays search results for 'top tennis players'. On the left, there is a list of entities: 'Sport (2 entities)', 'tennis (47)', and 'Table Tennis (3)'. The main results area shows a snippet for 'Tennis - ATP World Tour - Home' with a link to 'http://www.atpworldtour.com/'. Below this, there is a 'Semantic Entity Enrichment' section for 'Serena Williams'. This section includes a 'Description' of Serena Williams, a 'Properties of Serena Williams' table with columns for 'Birth Place', 'Birth Date', and 'Given Name', and a 'Photo' of her. The interface also shows 'top results' for 'Serena Williams' with links to 'find its entities'.

The search process

The entities are used as the “glue” for automatically connecting the documents with data and knowledge.



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