Aemoo: Exploratory Search based on Knowledge Patterns over the Semantic Web

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Functionalities

- Link context explanation
- Exploratory search
- Smart knowledge organization and filtering
- Entity link network visualization
- Breadcrumb
Data Sources

- Data sources
  - Aggregates
    - Twitter
    - Wikipedia
    - Google
    - DBpedia
    - aemoo
EKPs as lenses over data

- aemoo
  - Based on
    - Organizing knowledge
    - Cognitively sound
  - Used for
    - Encyclopedic Knowledge pattern
    - Relevance criterion
    - Guiding knowledge exploration
    - Knowledge visualization
  - Used as
    - Lenses over data
Visualization perspectives

Curious links

Core links

Perspectives

Shows

aemoo
Implementation details

• Server
  – REST services implemented in Java for generating (SPARQL via Virtuoso) the EKP-based summarization of an entity in RDF

• Client
  – Ext JS for ui widgets
  – The JavaScript InfoVis Toolkit for the visualization of the graphs
  – Ajax for querying third parties
    • Twitter API
    • GoogleNews API

• Apache Stanbol
  – Named Entity Recognition
  – Identity Resolution to DBpedia
Ongoing work
Applying topic-sensitive EKP as lenses

[Diagram showing a network of terms related to Arnold Schwarzenegger, including categories like Office Holder, Actor, Person, University, Award, Town, City, Settlement, Legislature, Country, Disease, Administrative Region, and Film.]
Comparing entities of the same type

Nicolas Sarkozy  Ronald Regan  Angela Merkel
Barack Obama  Silvio Berlusconi
Thanks!
The aemoo.net team