

# Vision: a platform for social/personal linked data

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# New crop of applications

- Web-enabled
- Collaborative
- Meta-data-based navigation (tags, facets)
- Many kinds of data
  - wiki pages, emails, images, ...

# Vision: common platform for social linked data

- based on RDF
- services complementing RDF repositories

## Benefits:

- Quickly prototype this kind of application
- Synergies (linking, reusing meta-data)

# Requirements

- Integrate
  - Structured data (RDF)
  - Wiki content (→ semantic wikis)
  - External data: files, email, contacts, events, web pages, ...
- Multi-user access

# Requirements (cont.)

## Version control

- synchronization
  - offline use
  - backup
  - asynchronous collaboration
- versioning
  - personal use: history, undo
  - social use: solve edit conflicts, track changes

# Two layers

- Repository layer
- Integration layer

# Repository: graphs

- Authorization at graph level
- Each operation: specify a set of graphs for reading, a single graph for writing
  - One repository for all users
    - every user sees different graphs (e.g. personal preferences)
  - Supported, e.g., by SPARQL and Sesame

# Repository: long literals

- Needed for wikis.
- Store inline or refer to external file?
- Versioning: only record deltas.
- Full-text indexing for quick search.

# Repository: other

- Distributed version control
  - Like Git or Mercurial, but for RDF
  - Synchronization is peer-to-peer

# Integration layer

- Support for wiki content
- Integration of external content
- Versioning of files
  - Integration with RDF versioning
  - Reuse (for example) git?
- Versioning of other external data?

# Hyena

- First attempt at a social/personal linked data platform
- Integrates RDF, wiki, files
- Synchronization between installations
- Web version (GWT-based) and desktop version (Eclipse-based)

# More information

- These slides: <http://hypergraphs.de/> (soon)
- Requirements for social linked data  
<http://2ality.blogspot.com/2009/07/requirements-rdf-and-social.html>
- Hyena: <http://hypergraphs.de/hyena/>