MARTIN FRANTA • MARTIN GAJDOŠ • MARTIN HABDÁK • RÓBERT KOCIAN • PETRA VRABLECOVÁ • ZUZANA ZIMOVÁ • VEDÚCI: MARIÁN ŠIMKO

COME²T

COllaboration- and MEtadata-oriented COntent Management EnvironmenT

Open Problems
- Semantic Web: lack of semantic descriptions
- Web 2.0: passive user → active author/contributor
- **advanced notion** of web content:
  - documents + collaborative content + semantics/metadata
  - difficult manual creation and maintenance

COME²T
- easy management of content, user annotations and semantics/metadata
- serving other systems (e.g., ALEF)
  - **advanced content management as a service**

Documents
- stored in **repositories** according to their topic or other criteria
- import and export
- version control
- **edit** and **preview**
  - XML-based content (e.g., DocBook)
  - **comfortable** working environment
  - assistance in error correction, code validation, document integrity check
  - editing associated files, metadata and annotations
- inter-document relations

Annotations
- abstraction of **user-generated content**
- assigned to text sections in document, e.g.,
  - to highlight some errors or inaccuracy
  - to comment on a certain fragment of a document
- **robust** annotation representation, easy to add, remove, modify
- **signaling** and **resolving conflicts** during content modification
- various forms of visualisation:
  - in-text visualisation
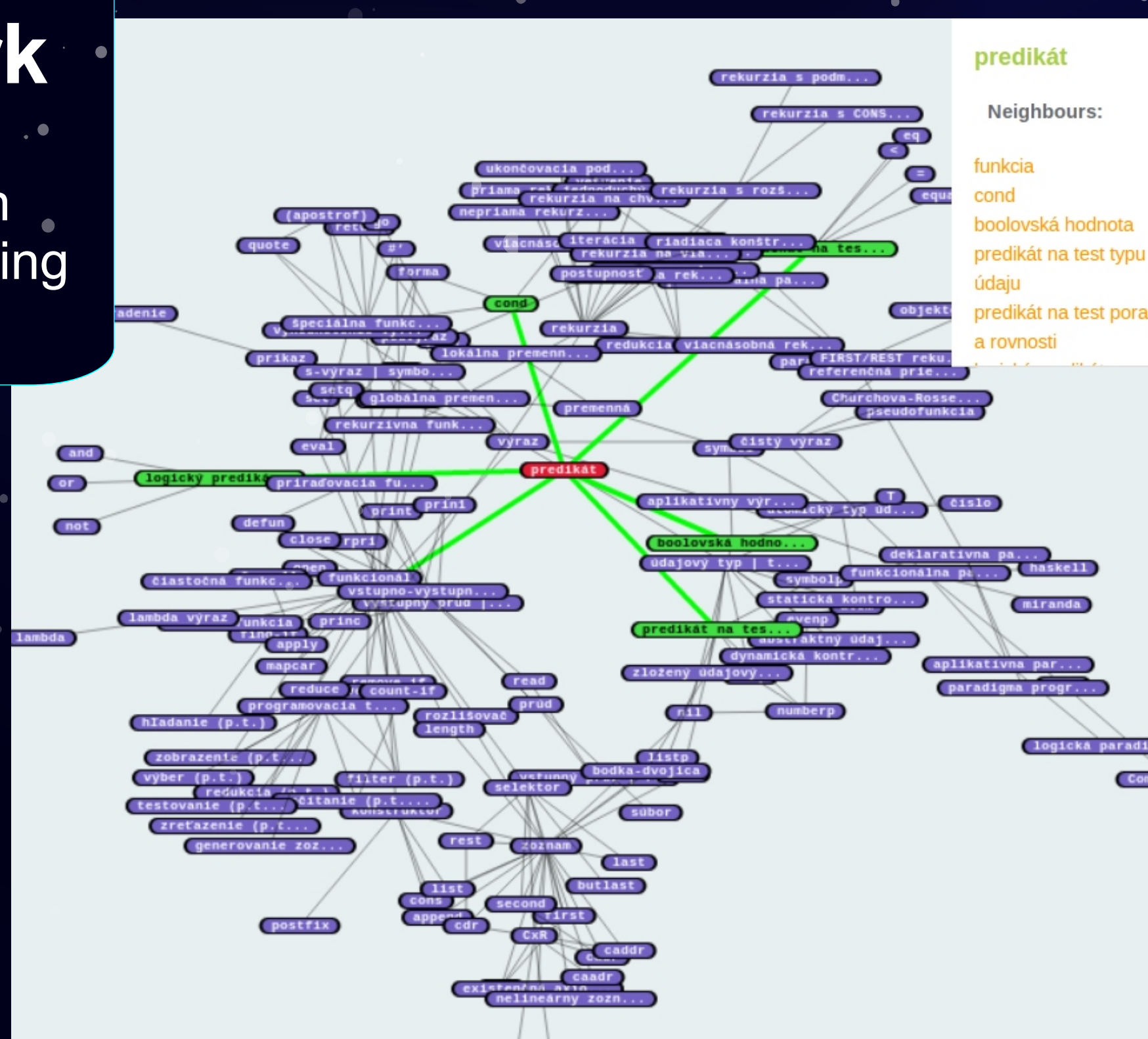 - annotation strip
  - annotation lists for documents

Adaptive LEarning Framework
- semantic representation of learning domain
- extensible personalization and course adaptation
- student active participation and collaboration during learning

Semantics/Metadata
- **lightweight semantics**: relevant domain terms (RDTs) and relations between them
- metadata variants:
  - **separating** content and semantic descriptions
  - **reusing** and **sharing** metadata variants for different document sets
- various forms of visualisation:
  - interactive tables
  - graph

Metadata Graph
- graph-based visualisation of metadata
- nodes: RDTs
- edges: different relationships between RDTs
- user-friendly graph interface
  - **interactive** editing of nodes and relationships
  - different graph visualisation facets