

Semantics-specific Visualization of Tree-based Diffs in Wikis

Summary

Most wikis today use text blobs written in a wiki markup dialect to store and work with articles. We have developed a formal parser that produces a rich tree-based format of wiki content, called Wiki Object Model (WOM). Changes in the wiki are stored as a sequence of revisions in a (set of) pages. This thesis defines a set of visualizations, each of which is specific to the particular type of operation originally triggered by the users. It then implements these visualizations as part of the history visualization functionality of the wiki.

Work Results

- Literature review
 - Review literature on visualizing diffs between two revisions.
- Research execution
 - Identify and classify user operations.
 - Define user-operation-specific diff visualizations.
 - Implement visualization for the tree-based diff output.
 - Integrate the result into the Sweble wiki engine.
- Research results
 - Comprehensive overview of literature on tree-based document difference visualization.
 - The Sweble wiki engine can visualize the differences between article revisions.

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Link to thesis descriptions: <http://osr.cs.fau.de/fun>

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