BASIC FEATURES
PoolParty’s core competencies at a glance
Maintaining Vocabularies

Taxonomies and controlled vocabularies are maintained by using the SKOS standard of W3C.

The intuitive user interface provides comfortable control elements like drag & drop or autocomplete.

A tree view on the taxonomy plays a central part in navigation and orientation.
SKOS Editor

The SKOS View on a concept allows the management of labels (e.g. synonyms), hierarchies and non-hierarchical relations, and mappings to other vocabularies.

Also more complex actions like merging of concepts, moving of subtrees or the creation of poly-hierarchies are supported.

PoolParty fully covers the SKOS standard of W3C incl. SKOS-XL and SKOS Collections.
History & Audit Trails

Every change being made on a concept of a thesaurus is stored and can be tracked.

A full history containing the author, timestamp and action being taken can be displayed for each concept and for the whole project.

Recovery and rollback can be managed by PoolParty’s snapshot mechanism.
Linking & Mapping

The same concept can occur in several taxonomies and can be put in different contexts.

PoolParty provides a comfortable dialogue for the semi-automatic linking between concepts from several thesauri.

Additionally, concepts can also be mapped to linked data sources like DBpedia or Geonames, or even to non-RDF sources provided by you.
User Management & Roles

User Management is based on user accounts, roles, and groups.

User authentication can be integrated with LDAP.

PoolParty’s security layer is based on Spring Security.

PoolParty’s API is fully integrated with the security layer.
Workflows

Approval (or rejection) of changes on a thesaurus can be governed by workflows.

Several roles in the PoolParty system have different rights to apply changes, reject or approve those.

A clearly structured dashboard helps taxonomists not to lose track of all the tasks that need to be performed.
ADVANCED FEATURES

Efficient taxonomy management and text mining based on PoolParty
Entity Extraction

PoolParty’s API provides a rich set of methods for text mining and entity extraction. This ultra-fast service makes use of your controlled vocabularies, therefore it is highly accurate for your specific domain.

The service will improve over time and learns from reference text corpora. It supports over 40 languages and comes with a powerful disambiguation algorithm.
Custom Schemes & Ontologies

SKOS is based on a simple schema. This can be expanded by additional custom schemes.

Custom schemes can be created with help of PoolParty’s ontology & schema editor.

For an increased interoperability, PoolParty provides a rich set of preconfigured ontologies like schema.org or FOAF.
Quality Management

Data quality and especially the quality of metadata is key to a more efficient information management.

PoolParty Server provides several built-in quality checks (e.g. to avoid circularities).

Checks can be executed at run-time or at any time to generate a quality report.
Corpus Analysis

PoolParty can automatically analyze reference text corpora. The calculation of a statistical model of a ‘typical vocabulary’ of a specific domain helps to suggest candidate concepts for the expansion of a taxonomy.

By this means, the quality of term extraction improves over time and potential relations between concepts and terms can be suggested by the system.
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Linked Data

The use of Linked Data standards increases interoperability of your knowledge graphs & metadata.

With PoolParty, each thesaurus and ontology can be provided as a Linked Data graph.

In return, every linked data source can potentially be used to enrich a thesaurus.

PoolParty supports scenarios like ‘Enterprise Linked Data’ as well as ‘Linked Open Data’.
RDF based ETL

Data processing tasks can be modelled as pipelines: Make use of the intuitively usable graphical interface.

Versatile data integration platform: Link data from internal and external data sources in a central NoSQL linked data warehouse.

Custom plugins: Your data processing pipelines are highly customizable by creating your own data processing units (DPUs).
GraphSearch

Semantic search at the highest level: PoolParty Graph Search Server combines the power of graph databases and SPARQL engines with features of ‘traditional’ search engines.

Document search and visual analytics: Benefit from additional insights through interactive visualizations of reports and search results derived from your data lake by executing sophisticated SPARQL queries.
Custom Schemes & Ontologies

Entity Extraction

Corpus Analysis

UnifiedViews

SELECTED VIDEOS

> PoolParty on YouTube