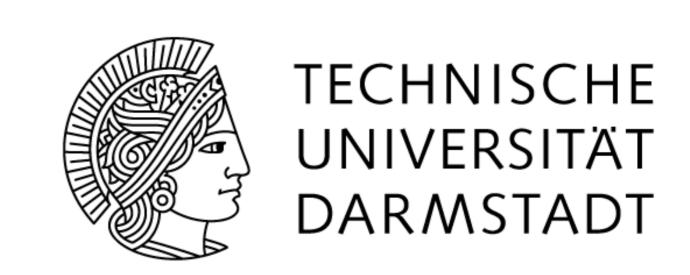


Navigating Sense-Aligned Lexical-Semantic Resources: The Web Interface to UBY





Iryna Gurevych, Michael Matuschek, Tri-Duc Nghiem, Judith Eckle-Kohler, Silvana Hartmann, Christian M. Meyer https://www.ukp.tu-darmstadt.de/uby

Take Home Messages

Motivation:

UBY Web Interface represents attributes of resources in UBY intuitively (only sources with license are shown).

Functionalities:

UBY Web Interface provides:

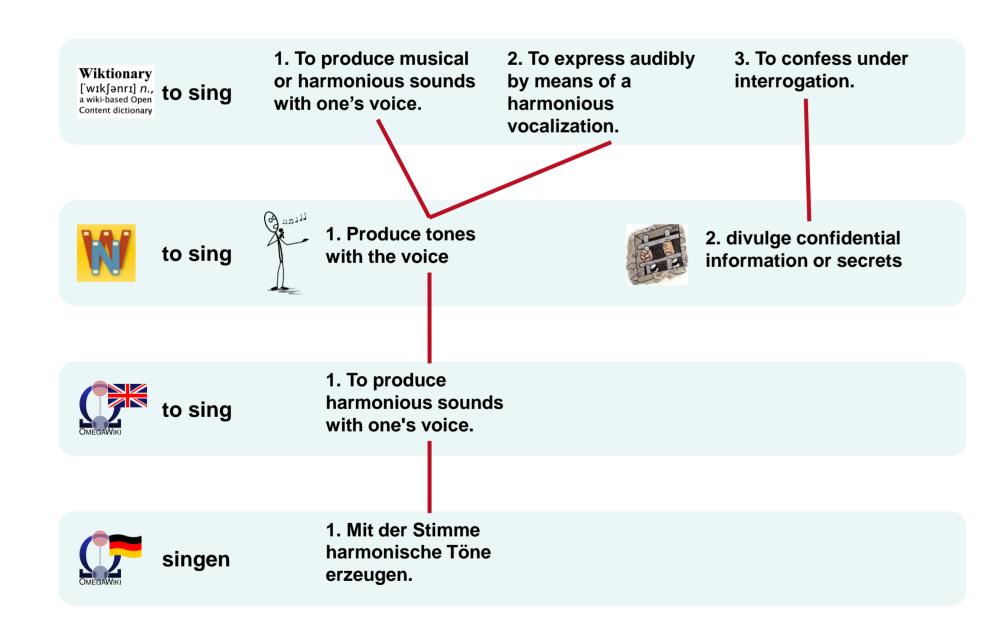
- A novel, intuitively understandable graph view for sense clusters.
- A textual browser that allows to explore the offered information in greater detail.
- A option of comparing senses from different resources.

Technical Basis

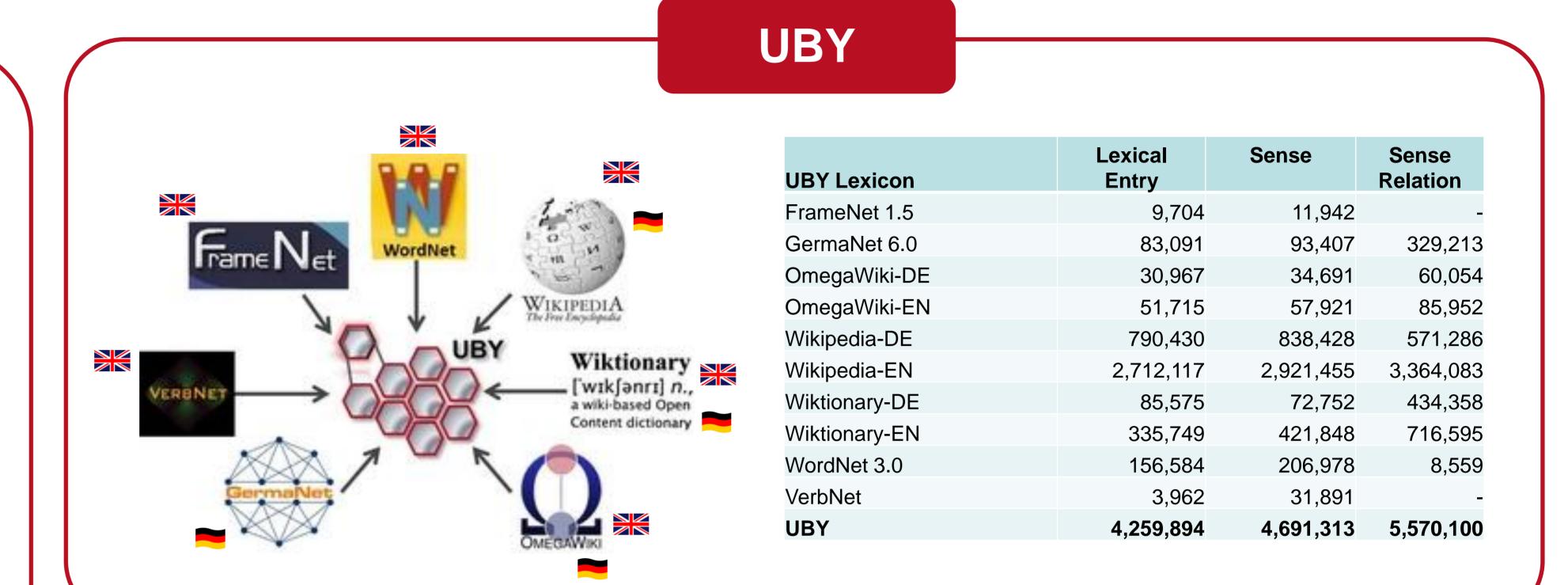
- UBY is deployed in MySQL database via hibernate, which is also the foundation of the UBY-API.
- The frontend of the Web application is based on Apache Wicket.

Sense Alignments

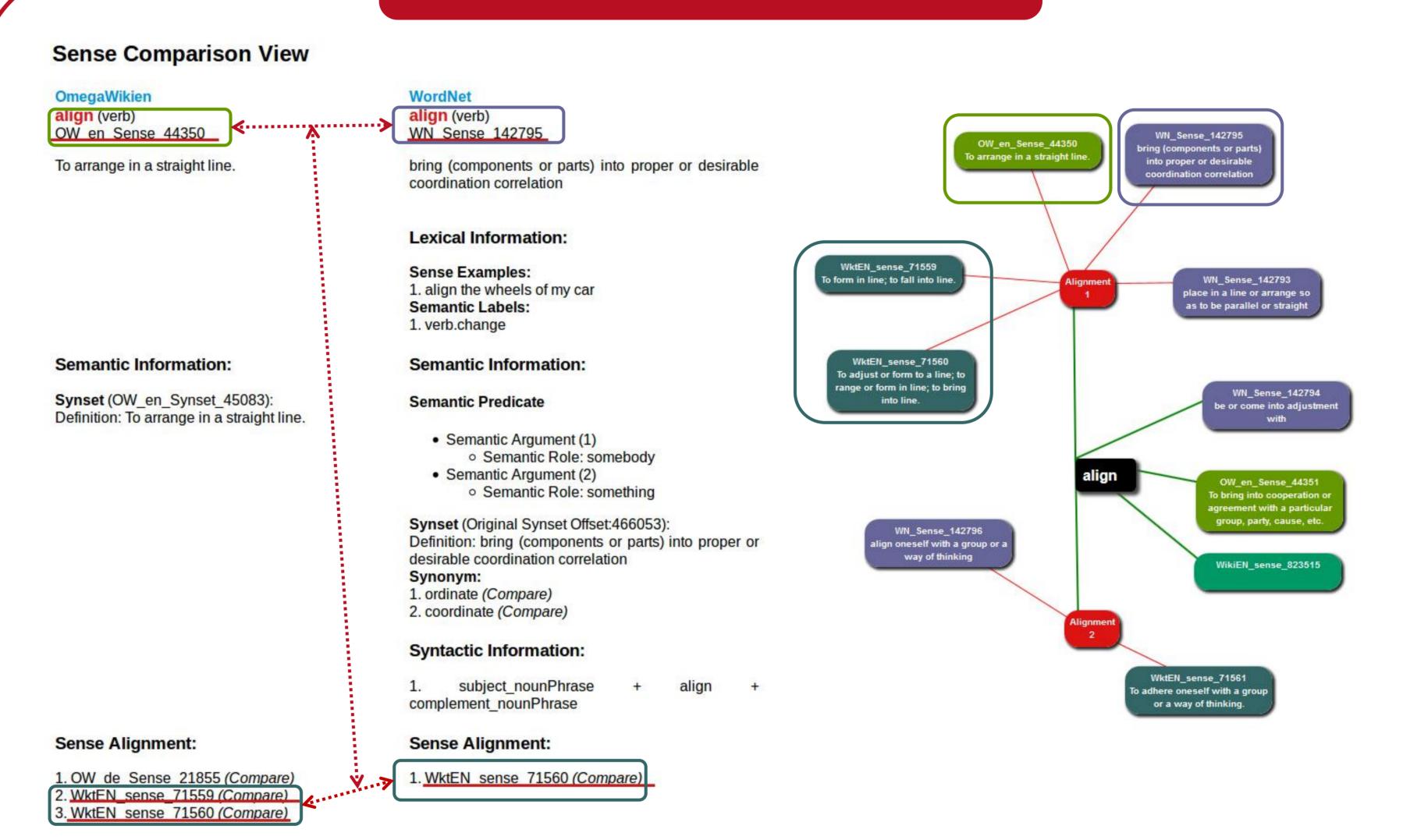
Enable semantic operability between resources in UBY:



- Senses linked by SenseAxis class
 - Currently 758 435 SenseAxis instances
- Existing alignments
 - Created by experts, users, or automatically
- Automatic alignments
 - Created by Aligment Framework:
 - Cross-lingual alignment (OmegaWiki-DE WordNet)
 - Based on semantic similarity (+ machine translation)
- Planned alignments
 - OmegaWiki-EN Wiktionary,...







Two senses are compared in the left hand side. Aligned senses are grouped in the same node (e.g. Alignment 1) and visualized in the graph view.

See also

UBY:

Iryna Gurevych, Judith Eckle-Kohler, Silvana Hartmann, Michael Matuschek, Christian M. Meyer, and Christian Wirth: Uby — A Large-Scale Unified Lexical-Semantic Resource, in: Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics (EACL), (to appear), April 2012. Avignon, France.

UBY-LMF:

Judith Eckle-Kohler, Iryna Gurevych, Silvana Hartmann, Michael Matuschek, and Christian M. Meyer: UBY-LMF – A Uniform Model for Standardizing Heterogeneous Lexical-Semantic Resources in ISO-LMF, in: Proceedings of the 8th International Conference on Language Resources and Evaluation (LREC), (to appear), May 2012. Istanbul, Turkey.

