Linked Data Driven Visual Analytics for Tracking Learners in a PLE

**Motivation**
- Understanding the learners, their behaviors and actions in PLE at TU Graz
- Processing and interpreting captured data
- Revealing hidden information important for PLE improvement

**Goals**
- Providing flexible data insights of PLE with focus on widgets, users and activities
- Knowledge based processing and visualization of captured PLE usage data
- Semantically enhanced data modelling for meaningful information retrieval
- Closing the learning analytics cycle

**Approach**
Using state of the art semantic technologies RDF, OWL and SPARQL with Activities and Learning Context ontology (Ontology framework by IntelLEO Project) as service infrastructure to interlink, describe, query and visualize domain knowledge about the PLE with focus on widgets, users and activities.

**Results and future work**
- Easily drawing conclusions about widgets popularity and quality
- User wise statistics of learning widgets
- Widget ranking and recommendation