

Introduction to Linguistic Linked Data

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Abstract

The number of resources that provide lexical data keeps increasing as outcomes of projects in (computational) linguistics, digital humanities, and e-lexicography. This vast landscape of heterogeneous and often isolated language resources creates obstacles for their straightforward linking and integration in pipelines in an interoperable manner. To address this, experts working in the domain of the Semantic Web have adopted approaches to linguistic data representation based on the Linked Data (LD) paradigm, giving birth to the Linguistic Linked Data (LLD) line of research. In this context, linked data emerges as a way to make linguistic data uniformly query-able, interoperable, and easily discoverable as well as reusable on the basis of web standards. This tutorial will provide attendees a theoretical and practical overview of the foundations of LLD, covering, among other aspects, an introduction to the Semantic Web and linked data, and a walkthrough of the different steps for linguistic linked data generation. We will lay special emphasis on knowledge representation with the de-facto standard for lexical data representation on the Web, the OntoLex-Lemon model, and other linguistic vocabularies. Participants are encouraged to select language resources of their interest in advance to address their modelling as part of the practical session.

Biography. Dr. Julia Bosque-Gil is a postdoctoral researcher at the Distributed Information Systems Group at University of Zaragoza and a member of the Aragon Institute of Engineering Research (I3A). For her PhD she investigated the use of linguistic linked data for lexicography, and currently works on the representation and linking of multilingual resources as linguistic linked data as part of the Prêt-à-LLOD project. She co-leads NexusLinguarum COST Action Working Group 1 on Linked-data based Language Resources and co-chairs the Ontology-Lexica Community Group since October 2018.