BabelNet and Beyond: Two ERC ProjectsRoberto Navigli

DIPARTIMENTO
DI INFORMATICA



Multilingual Natural Language Processing in Rome

Team

- Prof. Roberto Navigli
 - Principal investigator of several projects, including:
 - ERC Starting Grant (MultiJEDI, 2011-2016, 1.3M €)
 - ERC Consolidator Grant (MOUSSE, 2017-2022, 1.5M €)
 - Google Focused Research Award (co-PI, 300k €)



15 young researchers (Ph.D. students, post-docs)

Research fields

- Computational lexical semantics
- Semantic parsing
- Text understanding
- Multilinguality

2 ERC projects in NLP led by prof. Roberto Navigli, Sapienza

erc MultiJEDI (2011-16)

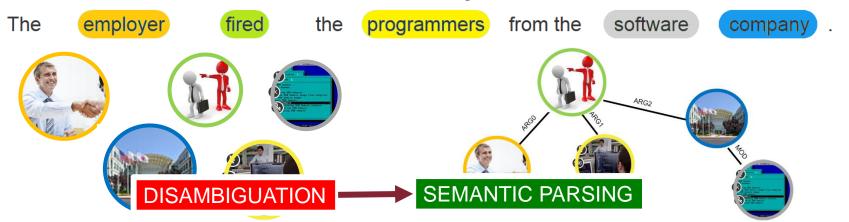
1 Large multilingual repository of concepts: BabelNet



1 Huge repository of novel structured universal semantic representations



- 2 Disambiguation outputs a bag of concepts
- We are constructing a languageindependent structured semantic representation of the sentence



Multilingual Machine Reading at Sapienza, Rome

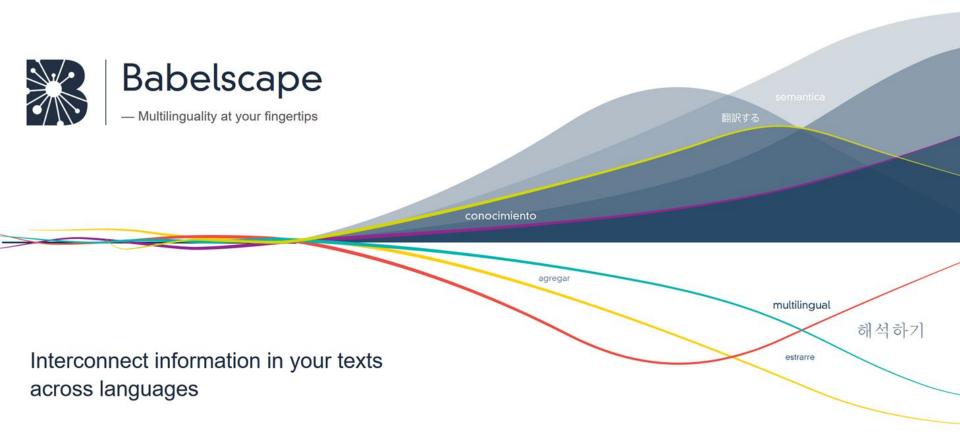


- Why? Machines can "read" and analyze the entire Web
- Answer all kinds of questions, summarize, translate, etc.

Key goal: deriving meaning from natural language by **overcoming its inherent complexities**

The future of BabelNet and related technologies

- We created a Sapienza spinoff, Babelscape, with the key objective of making BabelNet and multilingual NLP technologies sustainable
- Income is reinvested in BabelNet and subsequent projects
- Currently working for the EU and big multinational companies



Some suggestions for an ERC project

- Work on your CV
 - Publications in top conferences and journals
 - Visibility (organization of workshops, tutorials, area chairs, etc.)
- Be ambitious, be brave
 - Novel, groundbreaking research
- Be one of the few who can propose that project
- Be sure to
- Prepare your presentation carefully