

Intermediate SPARQL Querying

LiLa Lexical Resources

Francesco Mambrini

4th Summer Datathon on Linguistic Linked Open Data
Cercedilla, Spain
31 May 2022



This project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme - Grant Agreement No. 769994.

- ▶ lila-erc.eu/sparql/
- ▶ github.com/CIRCSE/SPARQL-queries
- ▶ [francescomambrini/SD-LLOD-22-LiLaTutorial](https://francescomambrini.github.io/SD-LLOD-22-LiLaTutorial/)

- ▶ Lemma Bank: `Ontolex`, custom
- ▶ A Lat.-Eng. dictionary (Lewis & Short): `Ontolex + lexicog`
- ▶ A derivational lexicon (WFL): `Morph`
- ▶ A polarity lexicon (LatinAffectus): `Ontolex + Marl`
- ▶ An etymological dictionary (De Vaan): `LemonEty`
- ▶ A dictionary of Greek loanwords: `LemonEty`
- ▶ A Valency Lexicon (Latin Vallex): `PreMON`
- ▶ A manually checked subset of the Latin WordNet: `Ontolex`

What are the (Latin) words that have a certain etymology, that are linked to a certain WN Synset, that have a certain polarity...

What are the (Latin) words that have a certain etymology, that are linked to a certain WN Synset, that have a certain polarity...

A real-life scenario

Etymology dictionaries usually list only the “primitive” forms, and not the derivative (*catastrophe*, but not (always) *catastrophic*). What if we want to know *all* words that can be traced back to a root of a certain origin?

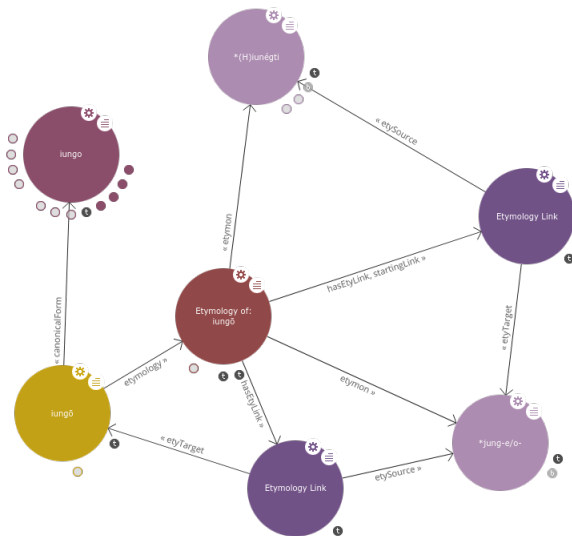


FIGURE 5.3

Graphic version of a query to find James Dean's directors.

<https://workingontologist.org/index.html>

<http://lila-erc.eu/data/id/lemma/109224>



A simple query

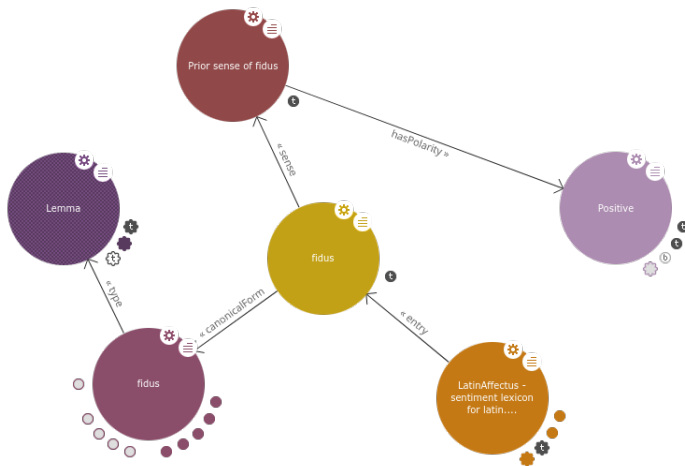
To warm up a bit...



- ▶ A Lemma
- ▶ Linked to a LexicalEntry
- ▶ Linked to a PIE Etymon

Polarity in LatinAffectus (Ontolex + Marl)

<http://lila-erc.eu/data/id/lemma/103275>



A very polysemous word!

