Linking Latin

The LiLa Knowledge Base of Interlinked Linguistic Resources for Latin

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Research question

State of affairs

We have built and collected (for Latin and other languages):

- Textual Resources
- Lexical Resources
- NLP Tools

Scattered and Unconnected

ERC Consolidator Grant 2018-2023

A collection of multifarious, interoperable linguistic resources described with the same vocabulary for knowledge description (by using common data categories and ontologies)

Interlinking as a Form of Interaction

CLARIN
Common Language Resources and Technology Infrastructure

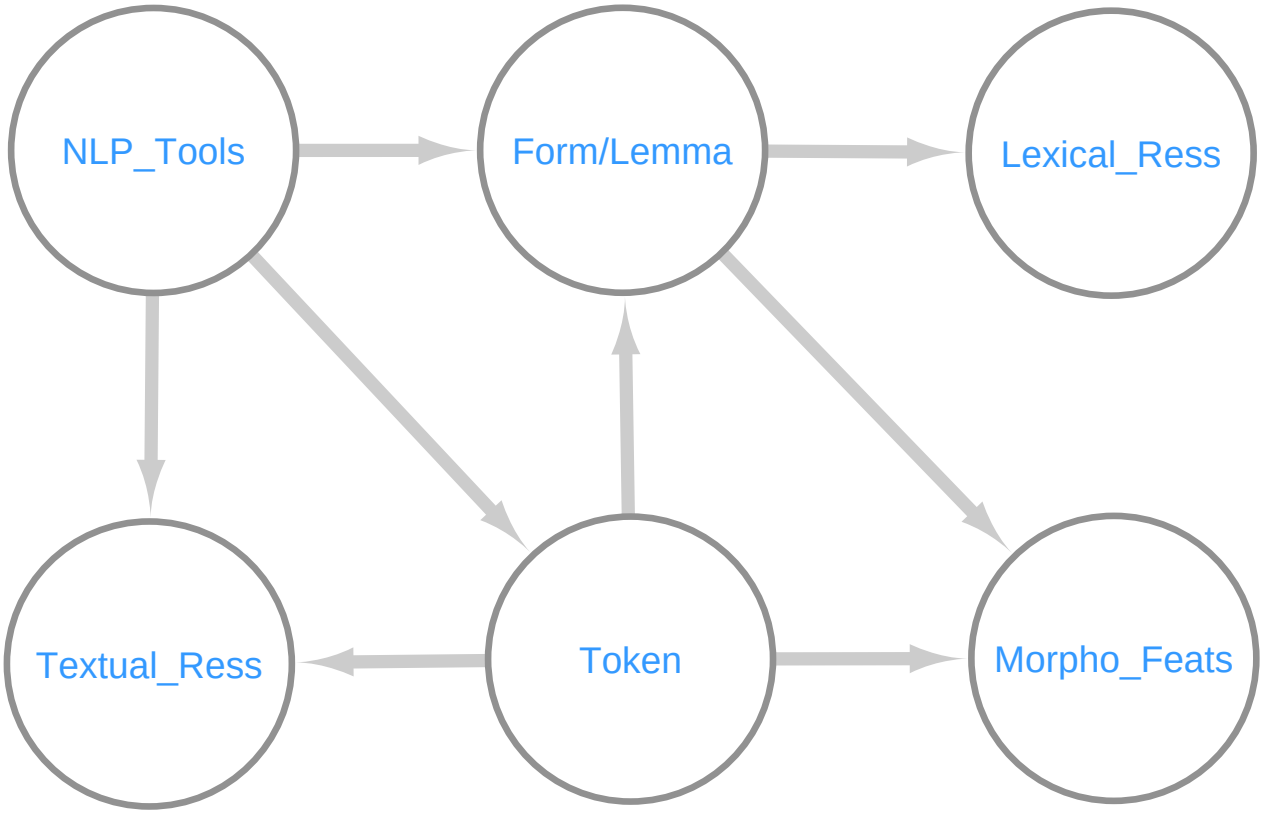
Infrastructure

LiLa
Linking Latin

Interoperability

LiLa Knowledge Base

Lexically-based architecture and (meta)data sources

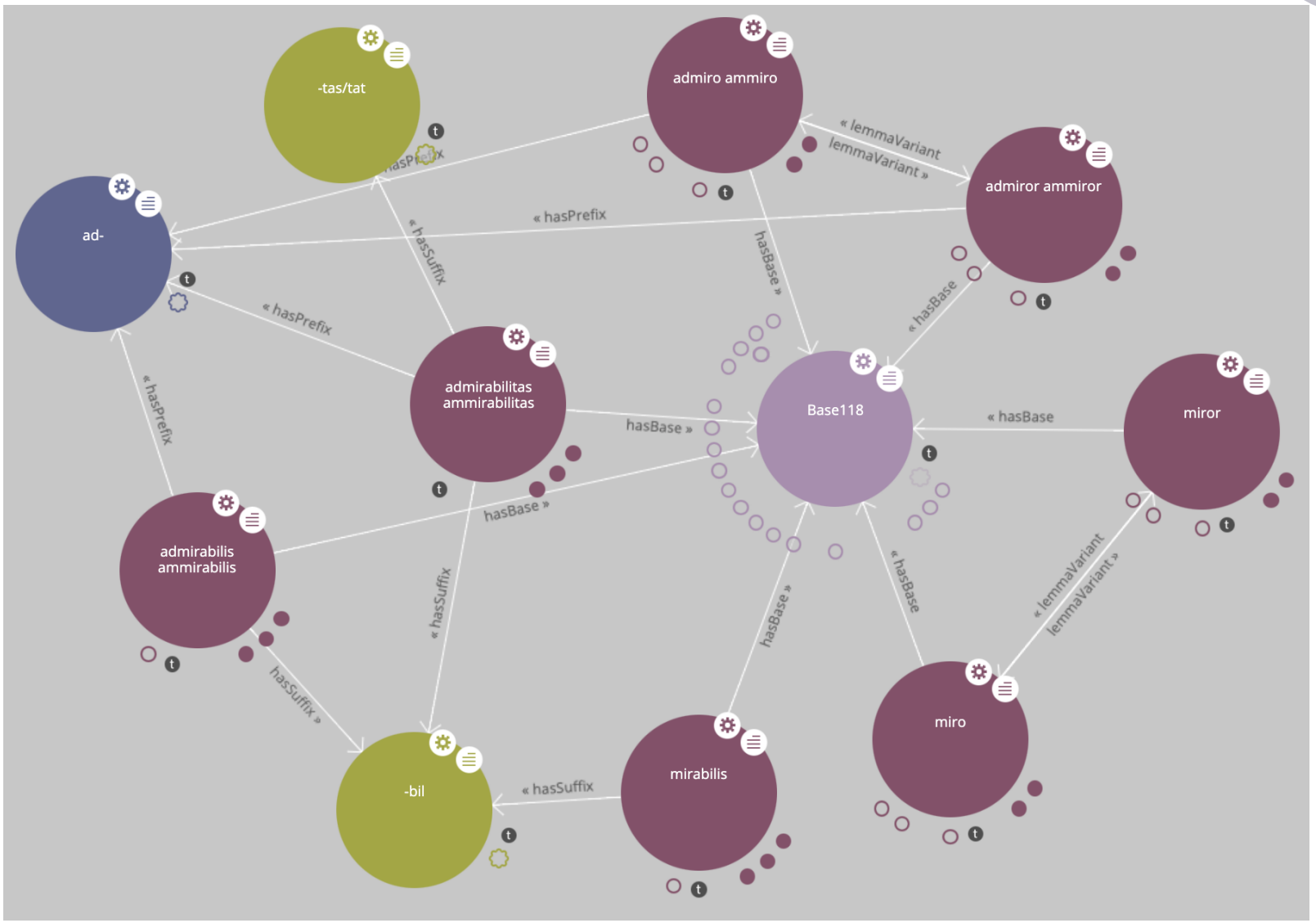


Lemma *admiror* ‘admire, respect’

https://lila-erc.eu/data/id/lemma/87541

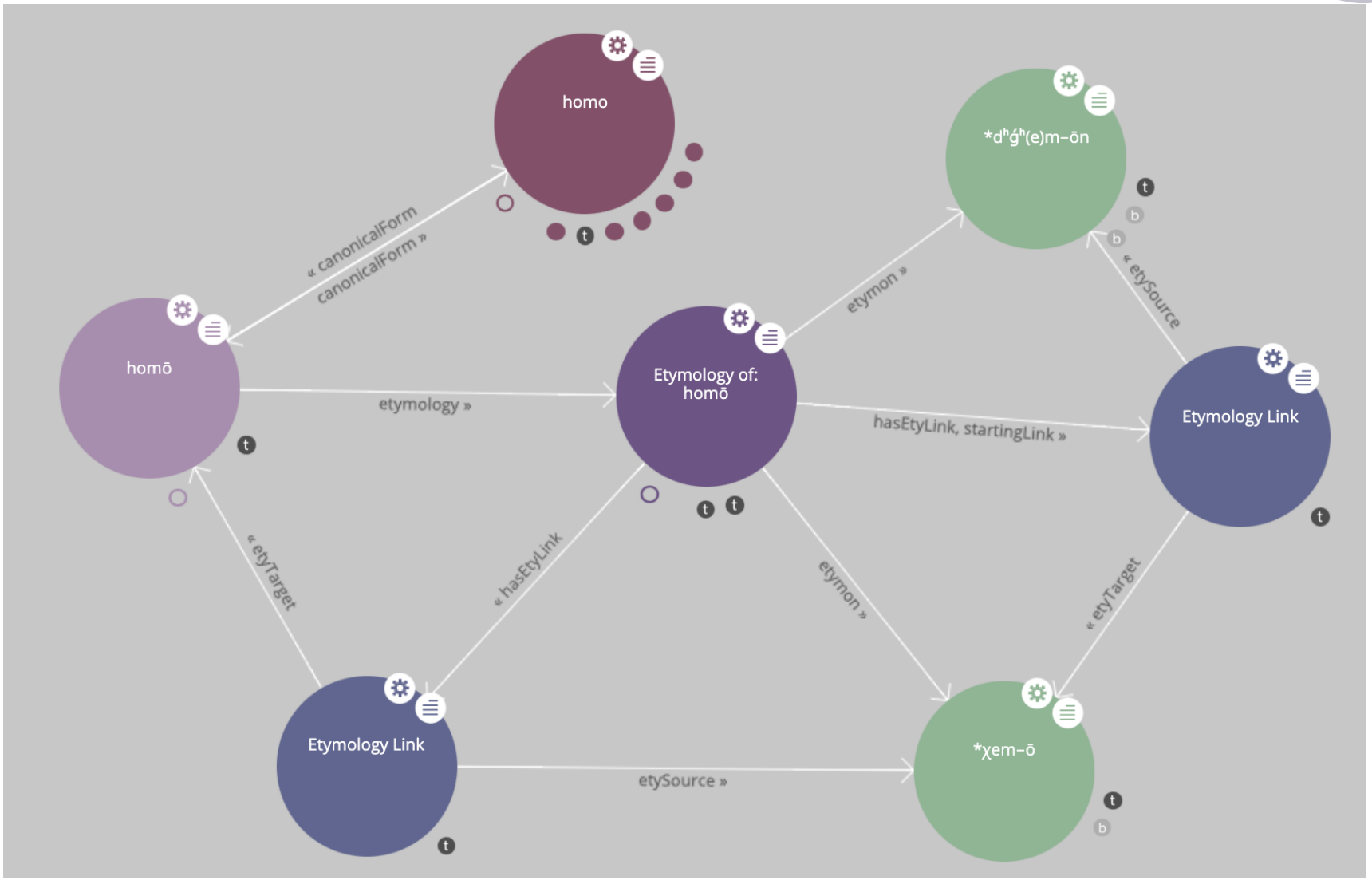
LiLa: Structure. Derivational Morphology

Word Formation Latin



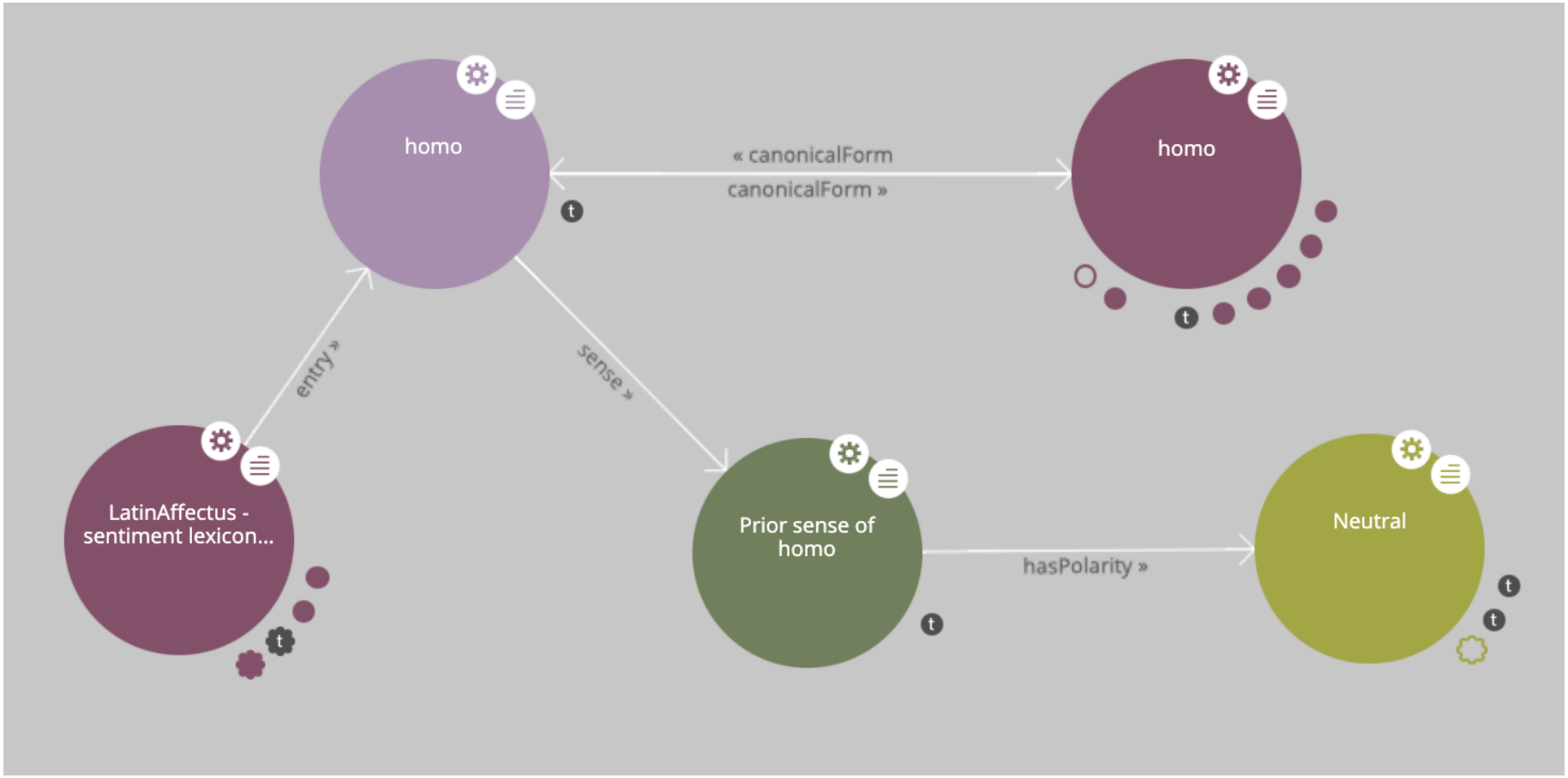
LiLa: Structure. Etymology

Etymological dictionary of Latin and the other Italic Languages



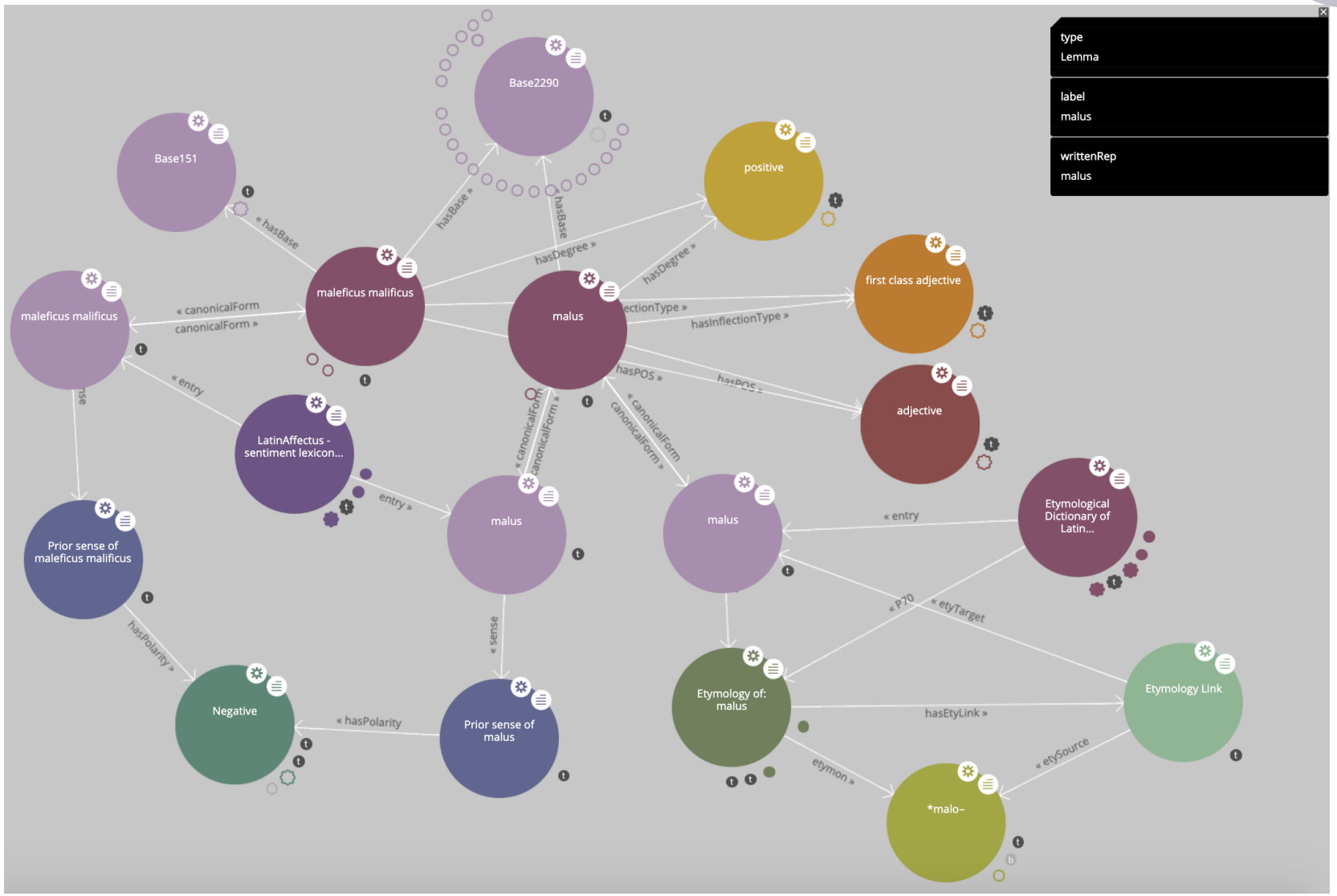
LiLa: Structure. Polarity

LatinAffectus



LiLa: Structure. All together now!

Lemma Bank, Derivational Morphology, Etymology and Polarity

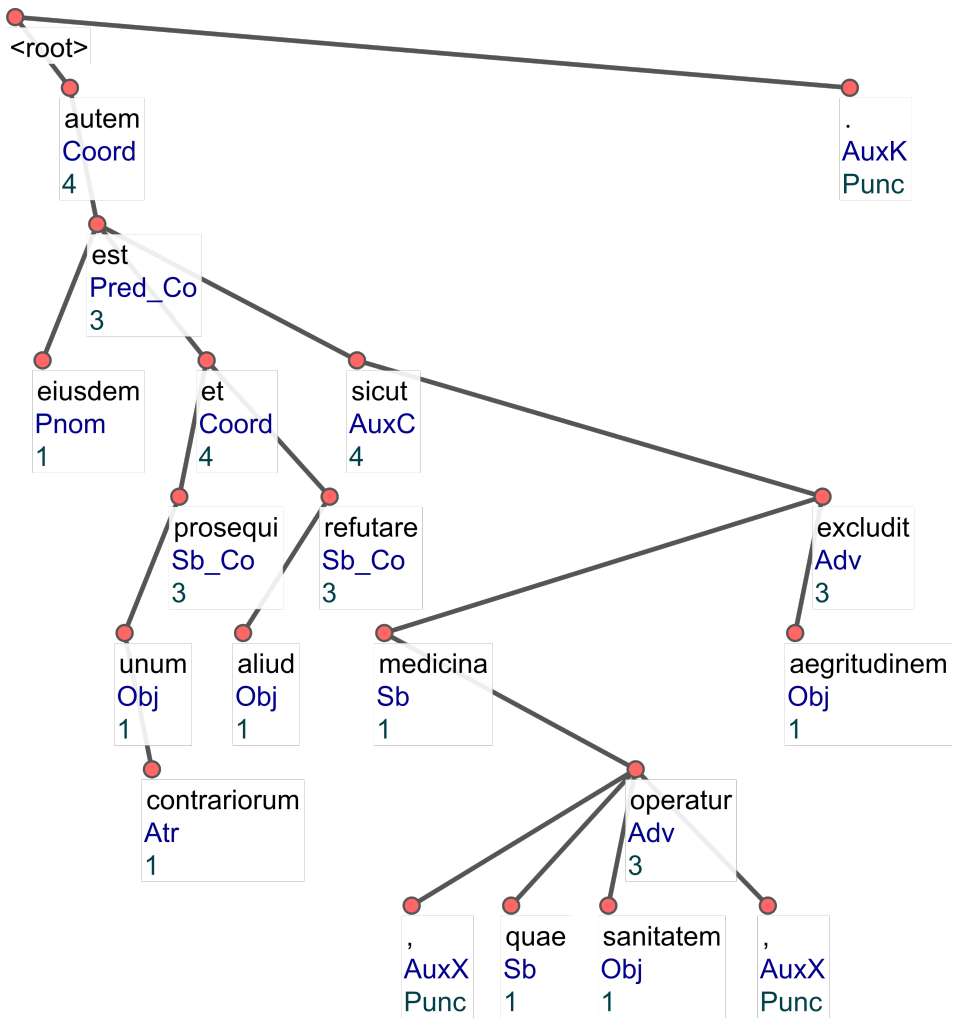


LiLa: Structure. Syntax

The *Index Thomisticus* Treebank: Dependency trees

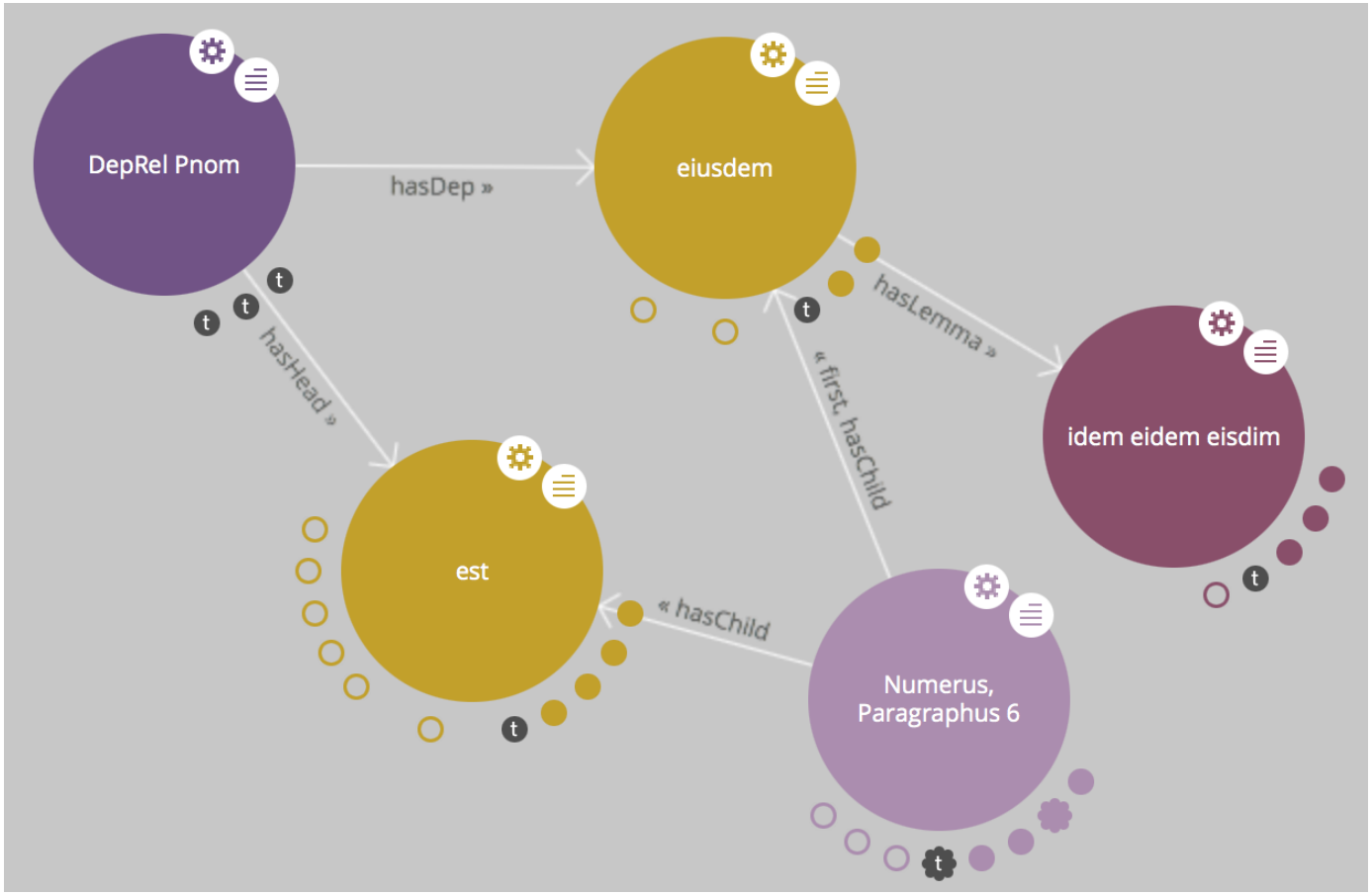
eiusdem *autem* ***est*** *unum contrariorum prosequi et aliud refutare sicut medicina , quae sanitatem operatur , aegritudinem excludit .* (IT-TB: SCG, lib. 1, cap. 1, n. 6)

Now ***it belongs to the same thing*** *to pursue one contrary and to remove the other: thus medicine, which effects health, removes sickness.* (Trans. Laurence Shapcote)



LiLa: Structure. Syntax

Phenomena and noumena



LiLa: Overview

Resources connected and upcoming connections

- **Corpora**
  - ☑ Index Thomisticus Treebank (*Summa contra Gentiles*): ca. 400,000 nodes
  - ☑ Dante Search (700th death anniversary coming up!): ca. 46,000 tokens
  - ☑ *Querolus sive Aulularia*: ca. 17,000 tokens
  - ☐ PROIEL and LLCT treebanks
  - ☐ Computational Historical Semantics Corpus
- **Lexica**
  - ☑ Word Formation Latin: ca. 46,000 lemmas (Classical Latin)
  - ☑ BRILL Etymological dictionary of Latin and the other Italic Languages: ca. 1,400 entries
  - ☑ LatinAffectus (sentiment lexicon for Latin): ca. 2,300 entries
  - ☑ Index Graecorum Vocabulorum in Linguam Latinam: ca. 1,800 entries
  - ☐ Latin WordNet & Latin Vallex 2.0
- **NLP tools**
  - ☑ LEMLAT (lemma bank): ca. 150,000 lemmas
- **TOTAL: approximately 5 million triples**

Query interface and Triplestore

- https://lila-erc.eu/query/
- https://lila-erc.eu/sparql/

Corpora

- https://lila-erc.eu/data/corpora/ITTB/id/corpus
- https://lila-erc.eu/data/corpora/DanteSearch/id/corpus
- https://lila-erc.eu/data/corpora/Querolus/id/citationUnit/QuerolussiveAulularia

Lexica

- https://lila-erc.eu/data/lexicalResources/BrillEDL/Lexicon
- https://lila-erc.eu/data/lexicalResources/LatinAffectus/Lexicon
- https://lila-erc.eu/data/lexicalResources/IGVLL/Lexicon

Thanks!

Get in touch

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