SemioGraphs
Visualizing Topic Networks as Multicodal Graphs
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- SemioGraphs are Multicodal graphs, whose vertices and edges are simultaneously mapped onto different systems (or codes) of types or labels.
- We provide a visualization technique that allows for comparing word embeddings across different corpora and being based on different techniques in an interactive manner to exemplify this technique in digital humanities.

http://semiograph.texttechnologylab.org

Parameters
- Node size:
  - Height: Centrality
  - Width: Strength
- Node transparency: Class membership value
- Node color: Class
- Border color (size): POS (seed node)
- Node tiling (pie chart): Coding of different class memberships

197 embeddings
6 languages: AR, CKB, DE, EN, FA, LA
7 techniques: BERT, ELMo, fastText, GloVe, Komninos, Levy, wang2vec, word2vec

Figure 1: Lemma Corner in the English Wikipedia showing the differences between word2vec and GloVe

Figure 2: Example showing the DDC view

Figure 4: Lemma Christ in the Arabic (a) and German (b) Wikipedia