

Visualizing Etymology

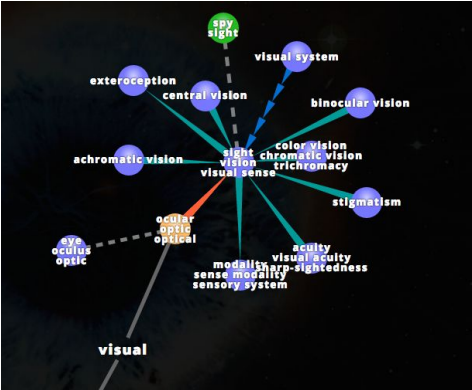
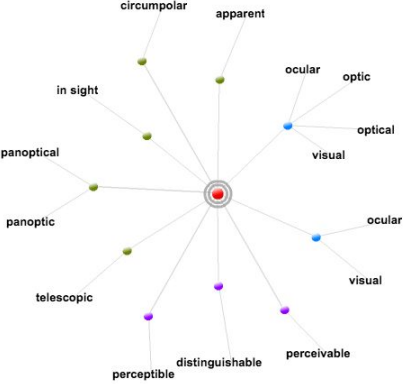
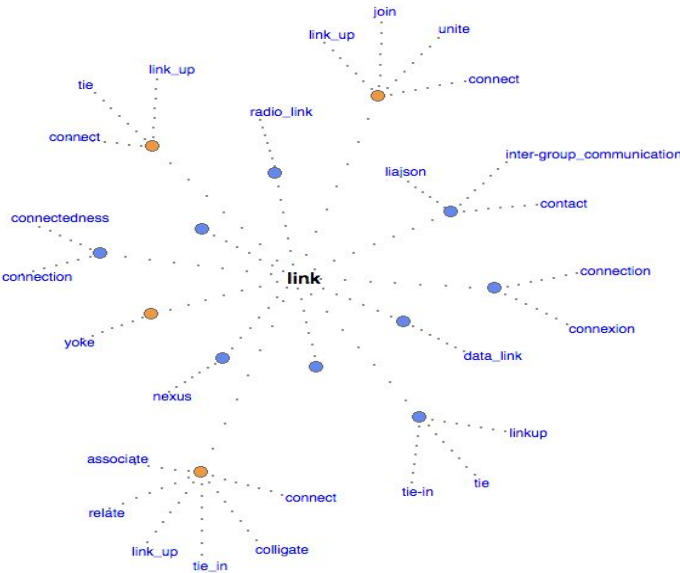
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Problem Description

Question to be answered: Where do words come from? And how are they related to each other?

DataSet: Berkeley research dataset “Etymological Wordnet”

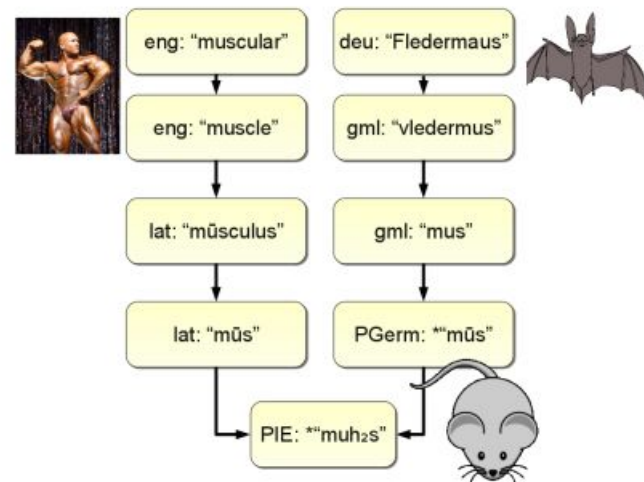
Existing Tools



Most Relevant Prior Work

Etymological WordNet (2014)

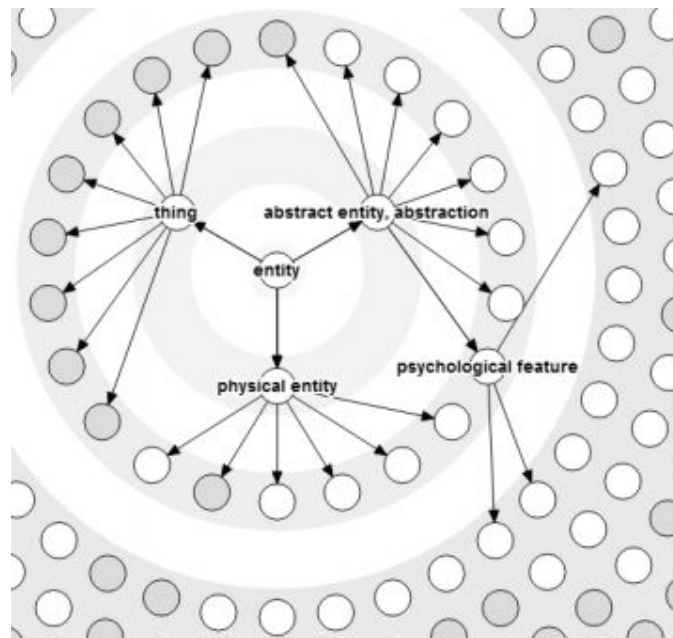
- Focused on word origin and evolution
- No visualization available



Most Relevant Prior Work

WorldNet Atlas

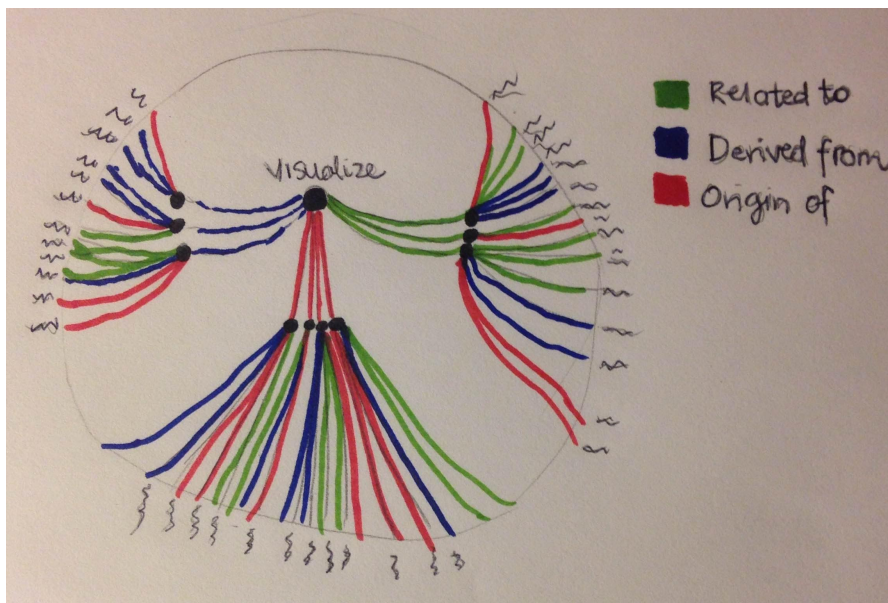
- English wordnet and semantic connections
- Visualized as a zoomable radial graph
- Visualizing the complete wordnet



Novel Feature Proposal

A visualization for the origin of words.

Radial tree layout, with interactive paths.



More user control

Depth selection

Path highlighting

Search/Create nodes

Find path between two nodes

Possible features/Future work

- Synonyms
- Meanings and usages of words
- Translations
- Some properties of the data (such as what language)
- User control: language selection, database modification, saving views etc.

Current Progress

Containers and screen layout



Data manipulation and preparation



Implementation



Questions / Feedback

How important is it to see all the interconnections between all the word on the screen? Is it better to have less connections but a cleaner view?

Any suggestions to make the graph layout better or more straightforward?