

Literature Review

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In this field we have distinguished two major categories of previous work that are related to our project. The categories are visualizing large sets of language data and word relations, and the other category is visualizing graphs and large networks. Within the category of visualizing language and word relations we looked into research and also existing interfaces. What we will bring that is new, is to combine the large sets of language data with an optimal way of visualizing such a big graphical network. What comes closest to what we are trying to accomplish is the article and interface by de Melo and the WordNet as a zoomable map.

Visualizing large sets of language data:

De Melo, G. (2014). Etymological Wordnet: Tracing The History of Words. In *LREC* (pp. 1148-1154).
<http://www1.icsi.berkeley.edu/~demelo/etymwn/>

Abrate, M., Bacciu, C., Marchetti, A., & Tesconi, M. (2012). WordNet Atlas: a web application for visualizing WordNet as a zoomable map. In *GWC 2012 6th International Global Wordnet Conference* (p. 23).
http://www.iit.cnr.it/sites/default/files/gwa2012_submission_65.pdf

Kamps, J., & Marx, M. (2002). Visualizing wordnet structure. In *Proc. of the 1st International Conference on Global WordNet* (pp. 182-186).
<http://humanities.uva.nl/~kamps/webart/publications/2002/kamp:visu02.pdf>

Kievit-Kylar, B., & Jones, M. N. (2012). Visualizing multiple word similarity measures. *Behavior research methods*, 44(3), 656-674.
http://www.indiana.edu/~clcl/Papers/KK_Jones_2012.pdf

Smith, A., Chuang, J., Hu, Y., Boyd-Graber, J., & Findlater, L. (2014). Concurrent Visualization of Relationships between Words and Topics in Topic Models. *Sponsor: Idibon*, 79.
<http://nlp.stanford.edu/events/illvi2014/papers/smith-illvi2014a.pdf>

Collins, C. (2006). Wordnet explorer: Applying visualization principles to lexical semantics. *Computational Linguistics Group, Department of Computer Science, University of Toronto, Toronto, Ontario, Canada*.
https://www.researchgate.net/profile/Christopher_Collins5/publication/228400344_Wordnet_explorer_Aplying_visualization_principles_to_lexical_semantics/links/02e7e523b459e66867000000.pdf

Visualizing graphs or networks:

Lamping, J., & Rao, R. (1996). The hyperbolic browser: A focus+ context technique for visualizing large hierarchies. *Journal of Visual Languages & Computing*, 7(1), 33-55.

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.451.5106&rep=rep1&type=pdf>

Bastian, M., Heymann, S., & Jacomy, M. (2009). Gephi: an open source software for exploring and manipulating networks. *ICWSM*, 8, 361-362.

<http://www.aaai.org/ocs/index.php/ICWSM/09/paper/viewFile/154./1009>

hierarchical edge bundling

<http://mbostock.github.io/d3/talk/20111116/bundle.html>

Architecture Tree

<http://marmelab.com/ArchitectureTree/>

Node focusable radial tree

<http://codepen.io/mikefab/full/IDdts/>

Visual Dictionary Interfaces:

Interactive dictionary:

<http://visuwords.com>

Wordnet Connect:?

<http://dingo.sbs.arizona.edu/~Sandiway/wnconnect/index.html>

Thinkmap (thesaurus + visualization tool)

<http://www.thinkmap.com/>

Visual Wordnet:

<http://kylescholz.com/projects/wordnet/?text=link>

Visualizing a given text:

<http://voyant-tools.org/>

Visual thesaurus:

<https://www.visualthesaurus.com>

<http://www.lexipedia.com/>

<https://www.wordnik.com>