Network Emporium

Complex Networks | @networksvox CSYS/MATH 303, Spring, 2016

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Outline

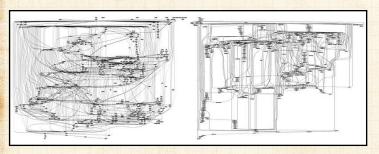
COCONUTS





Dynamic networks: Server security

Serving one html page with an image:



▶ Map of system calls made by a Linux server running Apache and Windows server running IIS. Which is which?

Taken from http://www.visualcomplexity.com ☑, 2006







Youn et al., Proc. Natl. Acad. Sci., -, -, 2016. [?]

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- Online site to explore here: http://hyoun.me/language/.





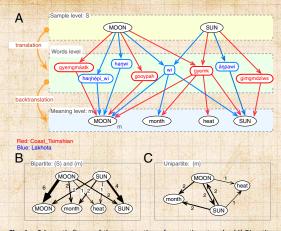


Fig. 1. Schematic figure of the construction of semantic networks. (A) Bipartite semantic network constructed through translation (links from the first layer to the second layer) and back-translation (links from the second layer to the third layer) for the cases of MOON and SUN in two American languages: Coast Tsimshian (red links) and Lakhota (blue links). We write the starting concepts from the Swadesh list (SUN, MOON) in capital letters, whereas other concepts that arise through translation (month, heat) are in written in lowercase letters. (B) We link each pair of concepts with a weight equal to the number of translation-back-translation paths. (C) Resulting weighted graph. More methodological information can be found in \$I Appendix, section II.





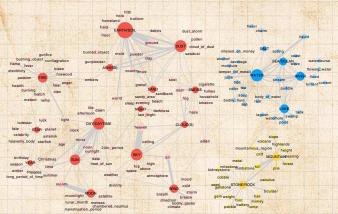


Fig. 2. Semantic network inferred from polysemy data. Concepts are inked when polysemous words over both concepts when the concepts are capital and the semantic connected connecte



