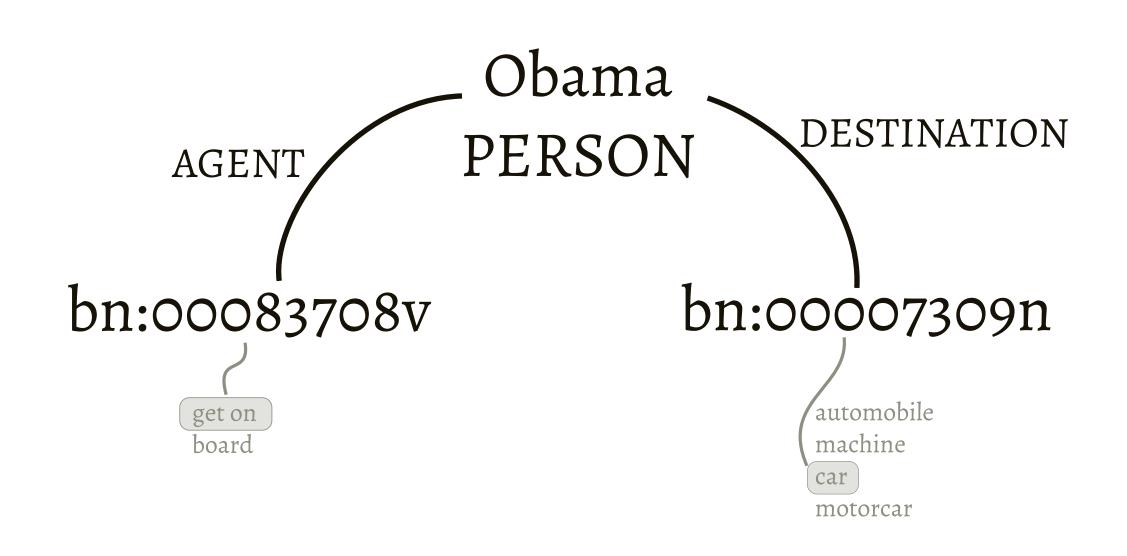
A Lesk-inspired Unsupervised Algorithm for Lexical Choice from WordNet Synsets

Lesk* WSD

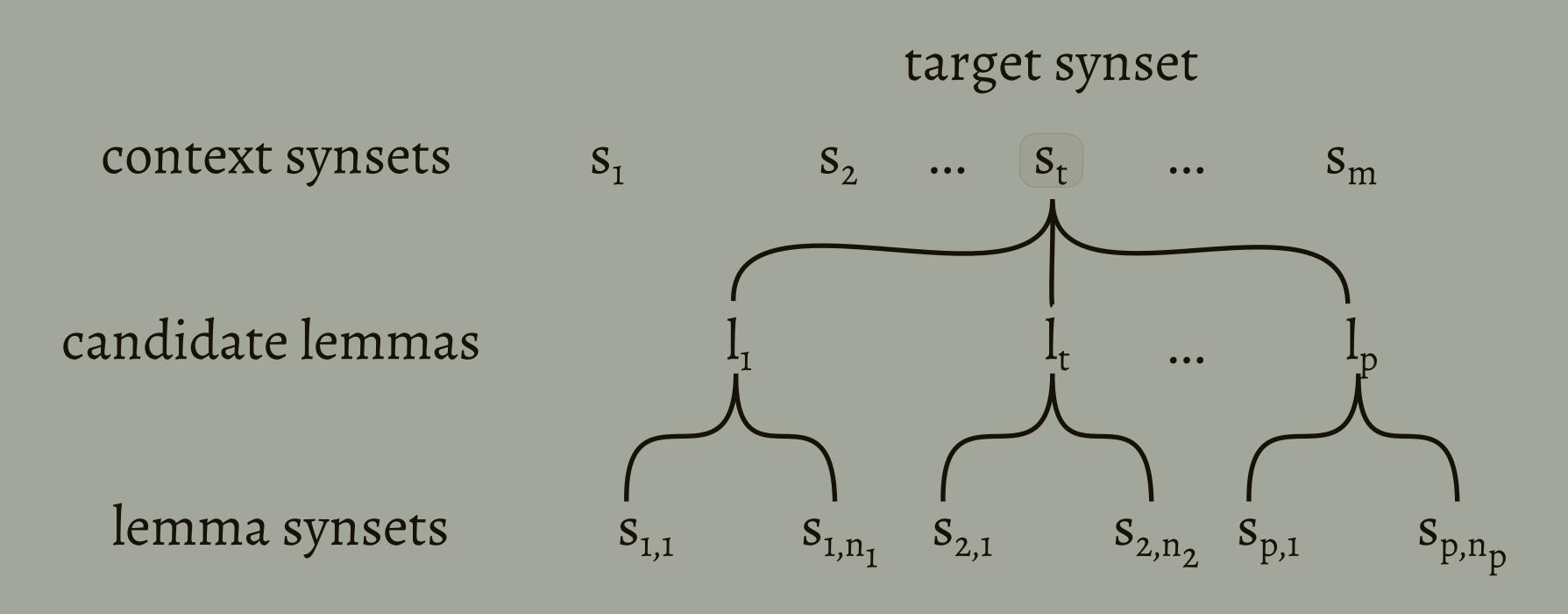
Talking with your hands is a sign of passion exchange thoughts; talk with the (prehensile) extremity of a perceptible indication of something a strong feeling or emotion not immediately apparent the superior limb the trait of being intensely express in speech (a public display of a message) a hired laborer on a farm use language emotional reveal information something that is or ranch any nonverbal action or gesture deliver a lecture or talk something written by hand that encodes a message desired intensely ability an irrational but irresistible structure displaying a board on a position given by its location which advertisements can be posted motive for a belief or action to the side of an object one of 12 equal areas into which a feeling of strong sexual desire the cards held in a card game the zodiac is divided by a given player at any given time one of two sides of an issue

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Lexical Choice

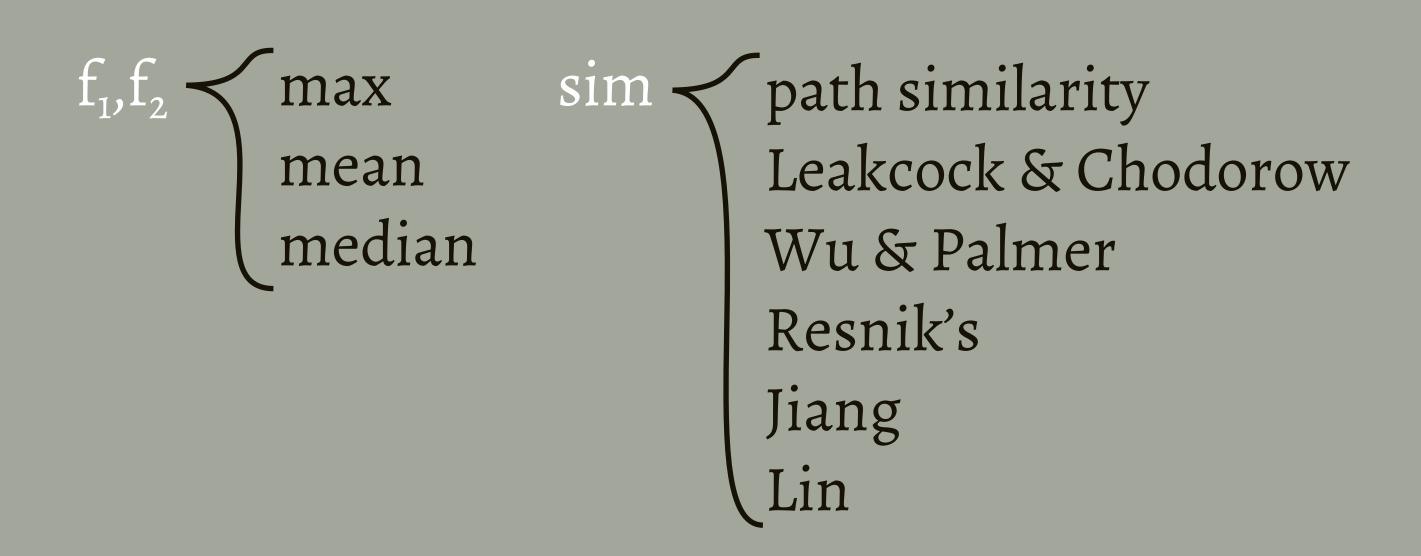


Ksel



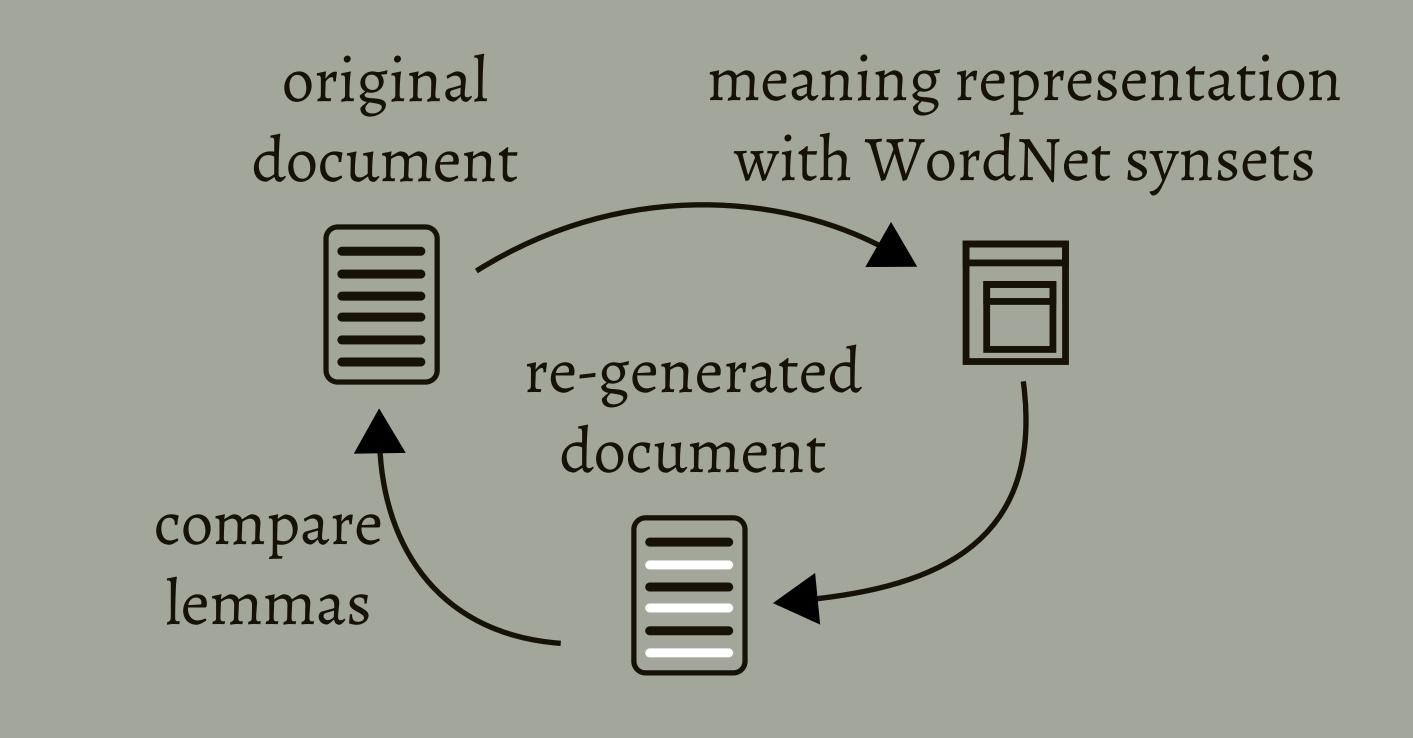
$$s_{LS}(l_j, s_i) = f_1(sim(s_1, s_{j,k}) : 1 \le k \le n_j)$$

 $s_{LC}(l_j, C) = f_2(s_{LS}(l_j, s_i) : s_i \in C, 1 \le i \le m)$
 $l_t = arg max_j s_{LC}(l_j, C)$



*Michael Lesk (1986)

Automatic sense disambiguation using machine readable dictionaries: How to tell a pine cone from an ice cream cone. In Proceedings of the 5th Annual International Conference on Systems Documentation, SIGDOC '86



- 1,000 documents from the Groningen Meaning Bank
- Nouns annotated with WordNet 3.0 synsets
- 54 combinations of parameters

Method	Accuracy
Random	0.552
Most Frequent Lemma	0.748
Ksel	0.776

