

Interlingual Homonyms

English/French: pain, chat Dutch/English: angel, glad

Which dictionary are they in? English? French? *How many dictionaries are there?*

SOP Cognates	SO Cognates	SP Cognates
hotel	fruit [frøyt]	news/nieuws
film	Chaos [xaos]	boat/boot
lip	Jury [ʒrri]	wheel/wiel
OP False Friends step (scooter) arts (doctor) kin (chin)	Interlingual Homographs glad [xlat] (slippery)	Interlingual Homophones [lif] 'leaf' 'lief' (dear)

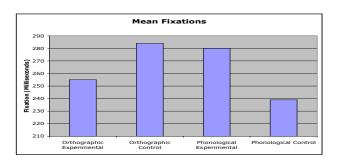
Semantics, Orthography, Phonology overlaps (Dutch/English)

Dijkstra et al.(1999) on Lexical Decision Task Orthographic overlap facilitated response time Phonological similarity inhibited response time



Eye Tracking

(Nakayama & Archibald, 2005) •compared fixation times on homographs and homophones compared with frequency matched controls in neutral context Homograph: It look's like Bob's glad/coat. Homophone: The leaf/fair was a sign that autumn had come.



Interlingual homographs facilitate lexical access (as shown by shorter fixation times. Interlingual homophones inhibit lexical access (as shown by Longer fixation times).



THE LIBRARY OF BABEL: **COGNITIVE NEUROSCIENCE &** THE DICTIONARY OF THE MULTILINGUAL MIND

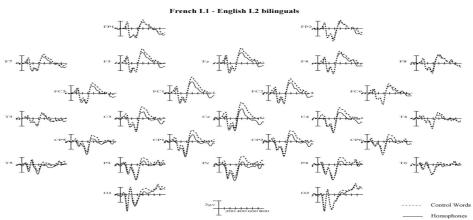
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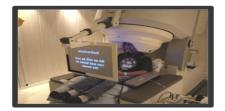


Event-Related Potentials (ERP)

Knee/nid

Carrasco-Ortiz et al. (2012) found reduced amplitude on N400 in IL homophones They argue this = facilitation but it could also be frequency (Lau, Phillips & Poeppel, 2008)





Magnetoencephalography (MEG)

Different 'senses' of a polyseme behave differently than homonyms.

English homonym: *bank* (money) vs. bank (river)

English polyseme: paper (A4) vs. paper (The Sun)

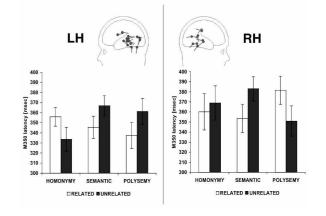
How many lexical entries there are can be signalled by the M350 in a priming paradigm.

The M350 is sensitive to frequency and repetition. It Also sensitive to constituent (rather than whole word) frequency (which suggests access to the morphological root).



Halle & Marantz (1993) argue for category neutral roots which link sound and meaning

Reduced latencies = facilitation while increased latencies would signal competition between entries



•Homonyms have separate lexical entries (and no RH pattern). •Polysemes share a morphological root (and a RH delay).

What If??

Words which have the same meaning but different phonological spell out – let's call them interlingual allomorphs – compete for post-syntactic insertion.

Consistent with Libben (2000) Homogeneity Hypothesis. Consistent with tenets of Distributed Morphology (Embick, 2010).

Whether we are looking at: Pain/pain Tout/too Chien/dog

They are all linked in a single repository: The Library of Babel.

References

Carrasco-Ortiz et al. (2012). Are phonological representation In bilinguals language specific? An ERP study on interling Homophones. Psychophysiology 49: 531-543. Dijkstra, T. (1999) Embick, D. (2010). Localism versus Globalism in Morphology and Phonology. MIT Press. Halle, M. & A. Marantz (1993). Distributed morphology and the pieces of inflection. In K. Hale & S.J. Keyser, eds. A View From Building20. Pp. 111-176. Libben, G.(2000). The homogeneity hypothesis. In J. Archibald, ed. *Second Language Acquisition & Linguistic Ti* Nakayama, M. & J. Archibald (2005). Eye tracking and interlingual homographs. Proceedings of the CLA. Pylkkännen, L., R. Llinás, & G. Murphy (2006). The representation of polysemy: MEG evidence Journal of Cognitive Neuroscience 18(1): 97-109

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