

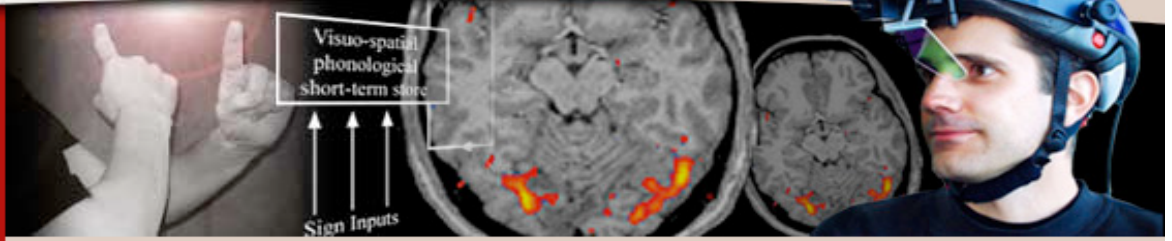


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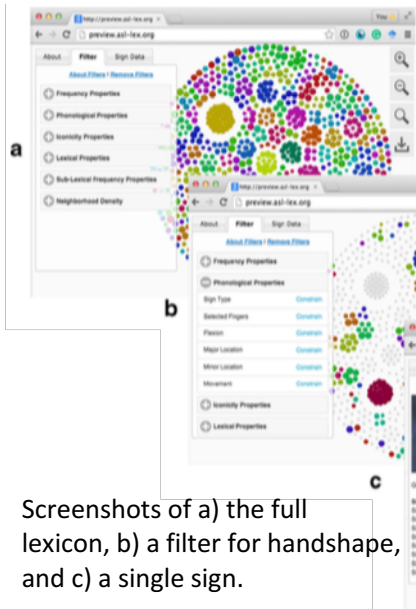
LABORATORY FOR LANGUAGE AND COGNITIVE NEUROSCIENCE

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## ASL-LEX: A lexical database of American Sign Language



ASL-LEX is “the largest and most complete publicly available repository of information about the ASL lexicon to date.” With nearly 1,000 signs, the database allows you to search for signs with a certain frequency, iconicity, phonological properties, English translation, and more.

Anyone can use ASL-LEX by visiting <http://asl-lex.org>. The website hosts a colorful and interactive visualization of the lexicon, with lexical information and a video for each sign.

ASL-LEX is a valuable resource for researchers, linguists, educators, and anyone interested in learning about the ASL lexicon and will be to include about 2,000 additional signs in the future. Caselli, N.K., Sevcikova Sehyr, Z., Cohen-Goldberg, A.M., Emmorey, K. (2016). ASL-Lex: A lexical database of American Sign Language. *Behavior Research Methods*. DOI: 10.3758/s13428-016-0742-0

## Code-blends aid processing in bimodal bilinguals

How do bimodal bilinguals process code blends (words and signs produced at the same time)? We scanned the brains of hearing native ASL-English bilinguals while they saw words, signs, and code blends and made a meaning decision (is this object edible?)

Code-blends showed less activation in the visual regions of the brain compared to ASL signs alone and less activation in the auditory regions compared to English words alone. This finding indicates that the shared meaning of the spoken and signed components of the code blend leads to more efficient neural processing in bimodal bilingual brains.



Regions activated during code-blend comprehension compared to control condition

Weisberg, J., McCullough, S., & Emmorey, K. (2015). Simultaneous perception of a spoken and a signed language: The brain basis of ASL-English code-blends. *Brain and Language*, 147, 96-106. DOI: 10.1016/j.bandl.2015.05.006

THANK YOU. None of these studies would be possible without the contributions of individuals like you. We would like to take the opportunity to thank those of you who have generously given your time. For more information, please visit our website at <https://slhs.sdsu.edu/llcn/>

