Vision, Language, the Lexcion, and the Brain

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PURDUE UNIVERSITY

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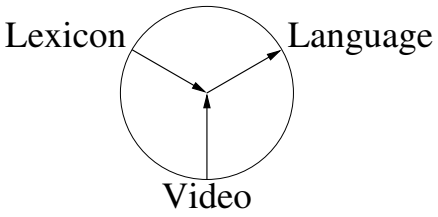
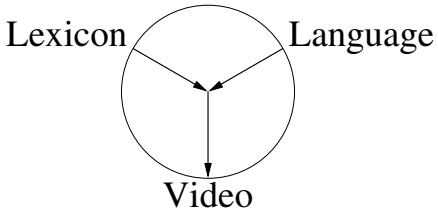
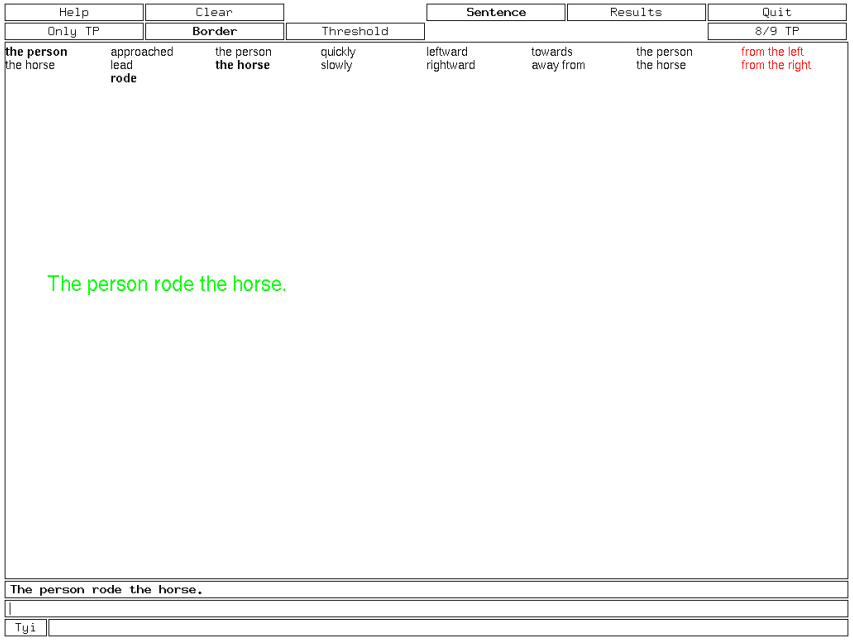
Describing Video with Language

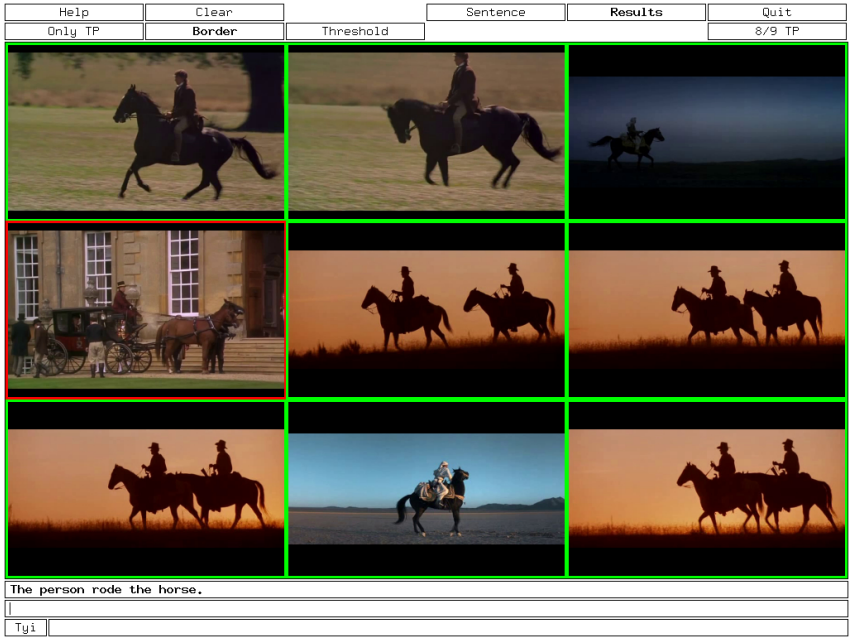


A. Barbu, A. Bridge, Z. Burchill, D. Coroian, S. Dickinson, S. Fidler, A. Michaux, S. Mussman, N. Siddharth, D. Salvi, L. Schmidt, J. Shangguan, J. M. Siskind, J. Waggoner, S. Wang, J. Wei, Y. Yin, and Z. Zhang, *Video in sentences out*, UAI (2012).

Searching for Video with Language

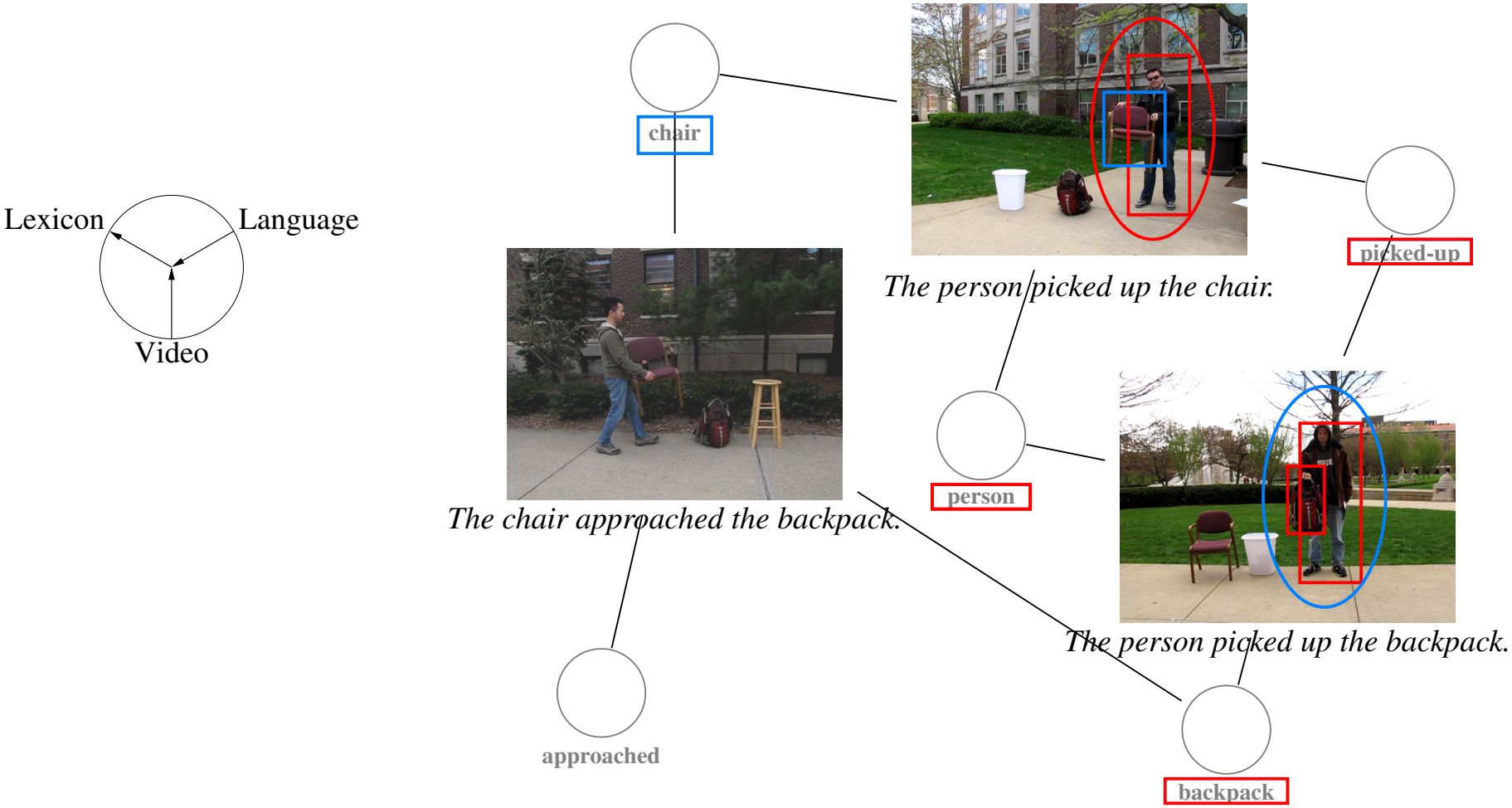






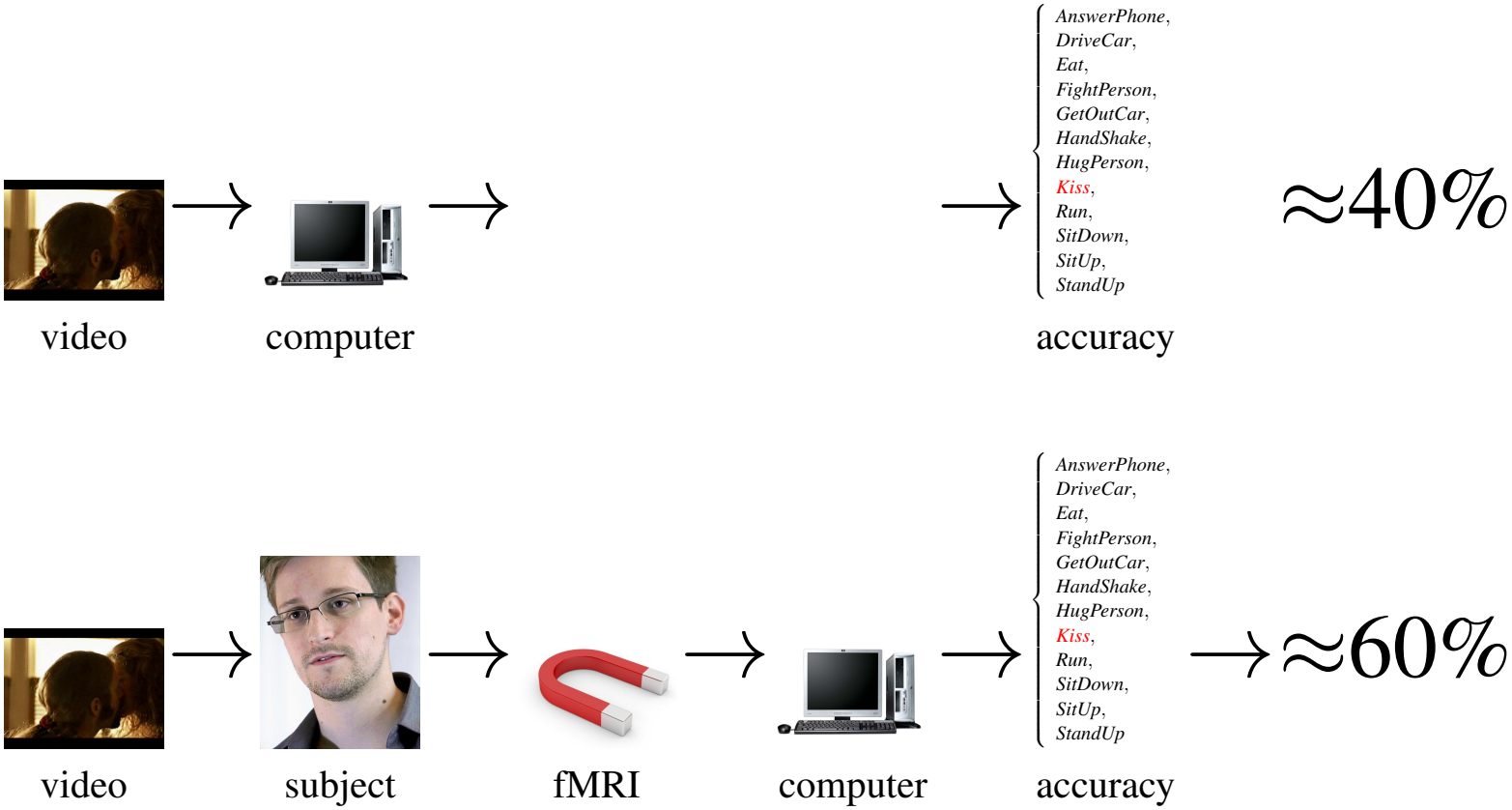
D. P. Barrett, A. Barbu, N. Siddharth, and J. M. Siskind, *Saying What You're Looking For: Linguistics Meets Video Search*, PAMI (in press).

Learning a Lexicon from Video Annotated with Language



H. Yu and J. M. Siskind, *Grounded Language Learning from Video Described with Sentences*, ACL (2013).

Studying How the Brain Grounds Language in Vision



A. Barbu, D. P. Barrett, W. Chen, N. Siddharth, C. Xiong, J. J. Corso, C. D. Fellbaum, C. Hanson, S. J. Hanson, S. Hélie, E. Malaia, B. A. Pearlmutter, J. M. Siskind, T. M. Talavage, and R. B. Wilbur, *Seeing is Worse than Believing: Reading People's Minds Better than Computer-Vision Methods Recognize Actions*, ECCV (2014).