Language is important for ...

- Information
- Social connections
- Thought

Approximately 6-8 million people in the United States suffer from some form of language impairment.
Cerebral hemispheres
Left hemisphere damage often causes language processing problems
The Cognition and Brain Laboratory
Beckman Institute, UIUC
Magnetoencephalography (MEG)
The **N400** is a feature ("component") of the human scalp-recorded event-related brain potential (ERP). Its name derives from the fact that the N400 is a negative-going potential (relative to a reference behind the ear), which peak around 400 ms post-stimulus onset (and is observed between about 250 and 550 ms) in young adults. The N400 forms part of the typical electrical brain activity seen in response to a wide array of meaningful and potentially meaningful stimuli, including visual and auditory words (and word-like strings of letters), acronyms, sign language signs, pictures, environmental sounds, and gestures.

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