Psych 56L/ Ling 51: Acquisition of Language

Lecture 10
Lexical Development II

Announcements

Review questions for lexical development available

Homework 2 assigned today 11/5/08, due 11/12/08 in class

Please pick up midterm and homework 1 if you haven't already

Finding the Words "Look! There's a goblin!" Goblin? Agoblin?

Speech isn't neatly divided

Word segmentation: process of dividing a stream of speech into the units that adults attach meaning to - words

lukðeizəgablin = luk ðeiz ə gablin

Looktheresagoblin! = Look! There's a goblin!

Word segmentation is hard

Examples of real errors that children make:

Father: Who wants <u>some mango</u> for dessert? som mengo

Child: What's a <u>semmango</u>? səmmengo



Word segmentation is hard

Examples of real errors that children make:

Pledge of allegiance renditions:

- "...and to the flag of the <u>United States</u>..." yunajtəd stets
- "...and to the flag of the <u>nine of states</u>..."

 nain əv stets



- "...and to the republic for $\frac{which\ it}{wrt}$ stands..." $\frac{t}{vrt}$ standz
- "...and to the republic for <u>witches</u> stands..." wit∫əz stændz

Word segmentation is hard

Examples of real errors that children make: Attempting Bob Dylan lyrics



"the answer, my friend, is blowin' in the wind." ænsəı maj fıɛnd iz

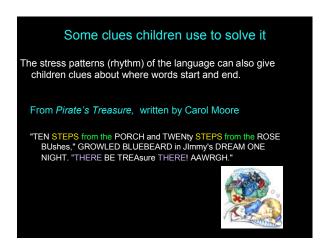
"the ants are my friends, they're blowin' in the wind." aens as maj fsendz δει

Some clues children use to solve it

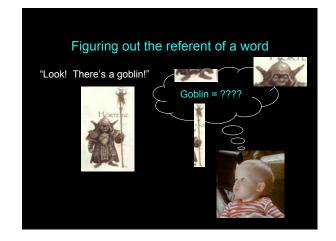
Words recur in the sound stream - children can pick up on the regularities in the sound sequences

From Pirate's Treasure, written by Carol Moore

"Ten steps from the porch and twenty steps from the rose bushes," growled Bluebeard in Jimmy's dream one night. "There be treasure there! Aawrgh."







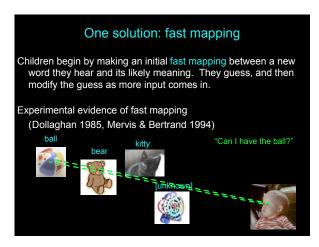
The Mapping Problem

Even if something is explicitly labeled in the input ("Look! There's a goblin!"), how does the child know what *specifically* that word refers to? (Is it the head? The feet? The staff? The combination of eyes and hands? Attached goblin parts?...)

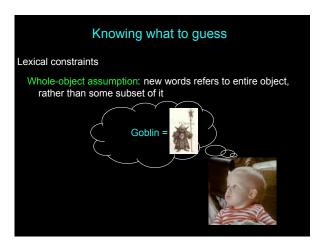
Quine (1960): An infinite number of hypotheses about word meaning are possible given the input the child has. That is, the input underspecifies the word's meaning.

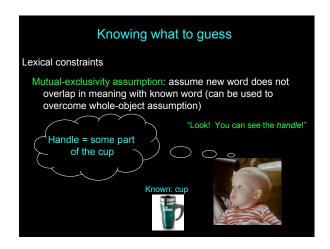
So how do children figure it out? Obviously, they do....

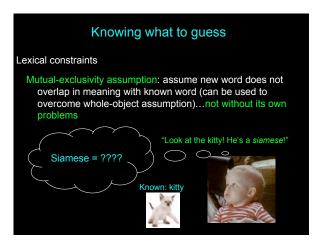


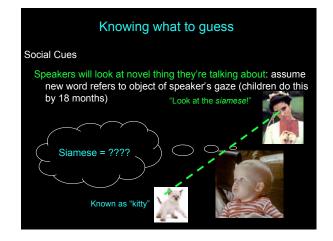


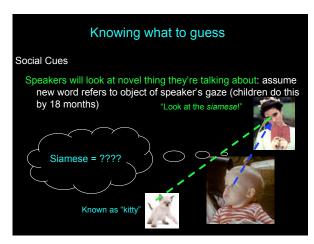


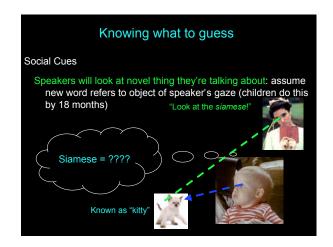


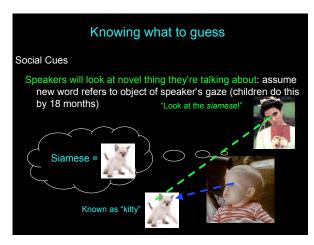


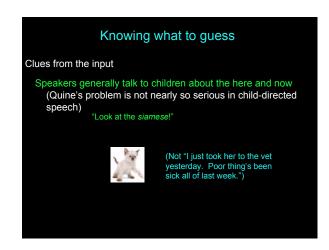


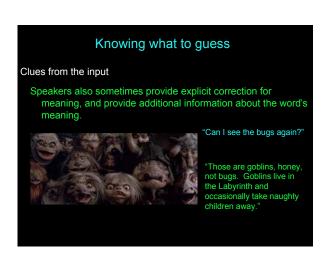


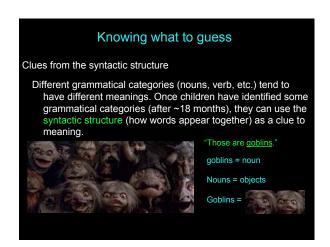


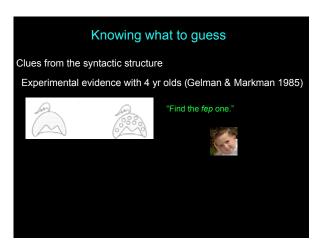


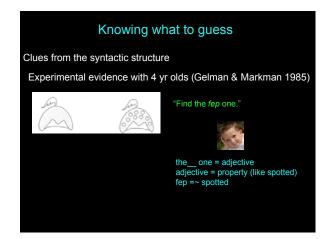


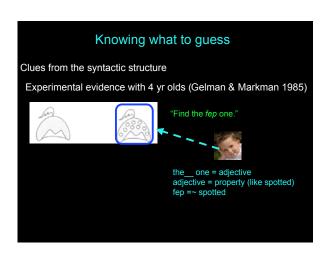


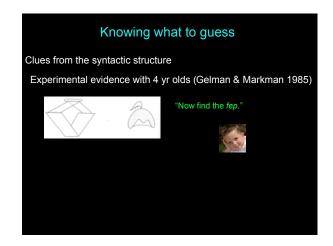


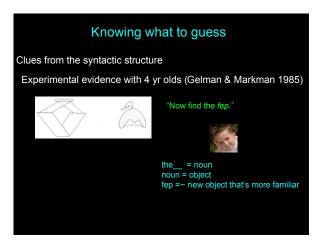


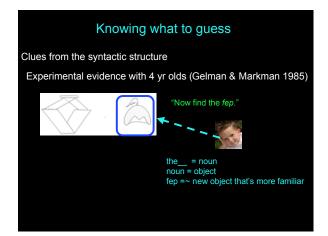




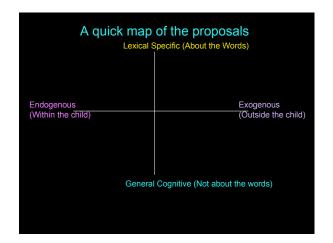


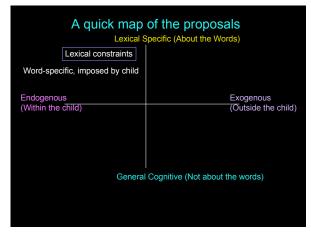


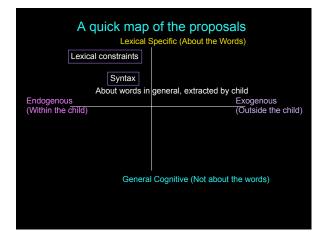


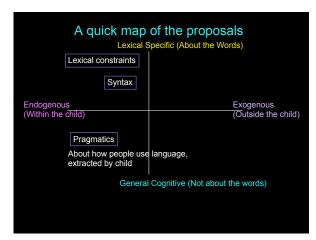


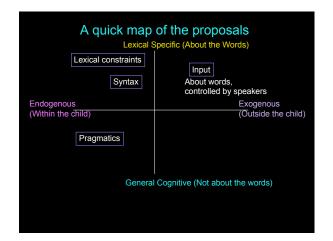
Knowing what to guess Syntactic Bootstrapping Hypothesis: primarily using the syntactic structure to get to meaning Naigles (1990): 2 yr olds can use syntactic structure to guess word meaning, even the different between transitive and intransitive verbs Transitive: The rabbit is gorping the duck. (expectation: rabbit is doing something to the duck) Intransitive: The rabbit and the duck are gorping. (expectation: rabbit and duck doing actions separately)

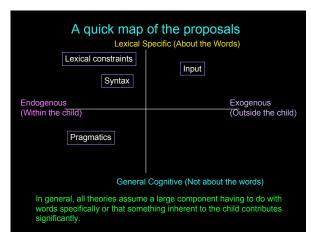




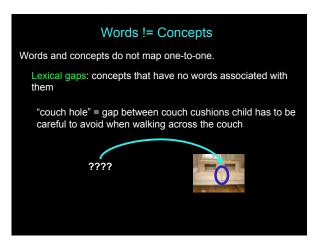


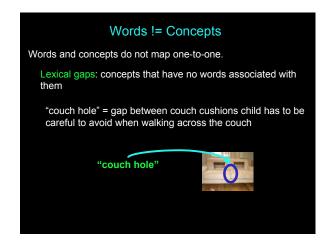


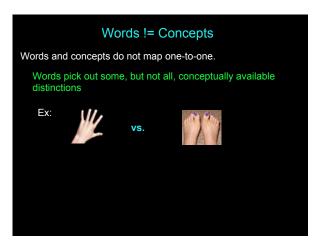


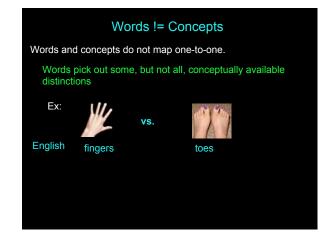


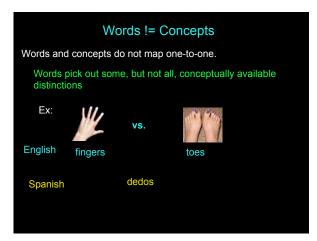




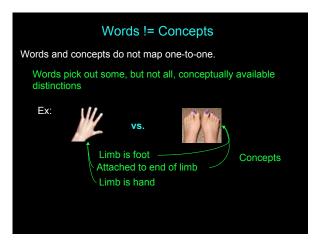


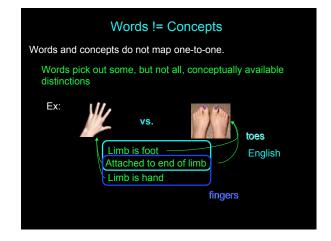


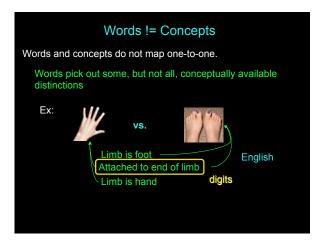


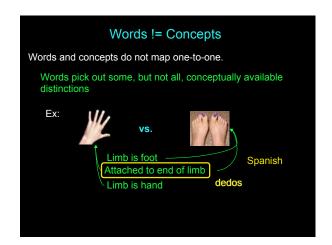


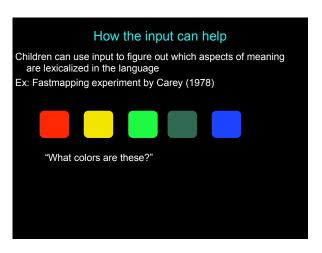


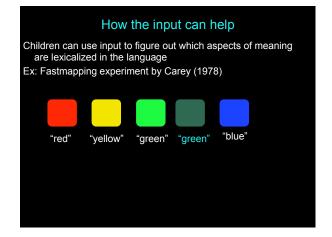


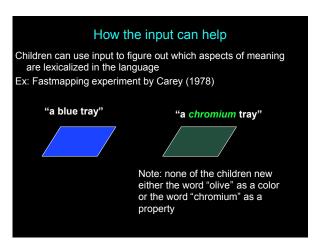


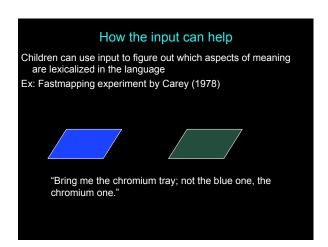


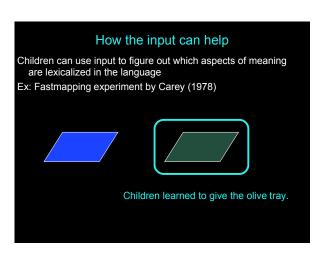


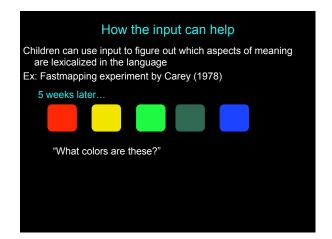


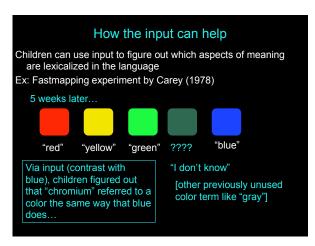


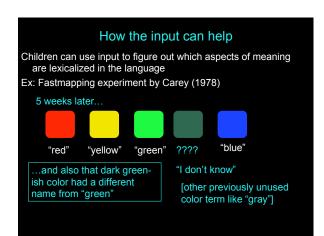












Lexical Development Recap

Part of what children have to figure out is where the words are in fluent speech.

Then, children have to figure out what concept a word refers to.

Not all concepts are picked out by words. Languages tend to
differ on which concepts they pick out.

Children may benefit from a number of different sources of information, including properties of motherese, knowledge of syntactic structure, social knowledge, and pragmatic biases.

