LING5702: Lecture Notes 23 Acquisition of Meaning

Contents

23.1	Acquisition of Semantics						•		•						•	•	 ,	1
23.2	Syntactic Bootstrapping.															•		1

23.1 Acquisition of Semantics

Semantic acquisition presents a major challenge

Quine (1960): A rabbit hops by; your companion says 'Gavagai!'

- may mean '*Rabbit!*' species
- may mean 'Animal!' general class (kingdom)
- may mean 'American Fuzzy Lop!' specific class (breed)
- may mean '*Peter!*' proper name
- may mean '*Edible*!' purpose class
- may mean 'Female!' gender class
- may mean '*Ears!*' sub-part
- may mean 'Bucolic scene!' super-part
- may mean '*Hopping*!' eventuality involving rabbit
- may mean '*Hunting*!' eventuality involving speaker

With all this ambiguity, how does child learn meaning?

23.2 Syntactic Bootstrapping

Brown (1957): kids use syntactic categories to guide word learning

- subjects: 3- to 5-year-old children
- stimuli: someone kneading dough / cutting cloth / ..., followed by:
 - (a) 'show me the sib' (count noun form, following 'the')
 - (b) 'show me some sib' (mass noun form, following 'some')
 - (c) '*show me sibbing*' (gerund form, with suffix '*-ing*')
- measure: what subjects pointed to

• results:

- (a) 'show me the sib' subjects indicate bowl/knife
- (b) 'show me some sib' subjects indicate dough/cloth
- (c) *'show me sibbing'* subjects make kneading/cutting gesture

Brown thought these vary across languages (e.g. no count/mass distinction).

Yuan & Fisher (2009): extend Brown results to syntax

- subjects: 2-year-old children
- stimuli: recorded sentence:
 - (a) *'She blicked!'* (intransitive)
 - (b) *'She blicked her!'* (transitive)

followed by images of person raising arm, pulling another person's leg followed by request: *'Can you show me blicking?'*

- measure: what subjects pointed to
- results:
 - (a) *'She blicked!'* person raising arm
 - (b) 'She blicked her!' person pulling another person's leg

Pinker (1994): problems with syntactic bootstrapping

• children may have instinct for semantic frame

References

Brown, R. W. (1957). Linguistic determinism and the part of speech. *Journal of abnormal psychology*, 55(1), 1–5.

Pinker, S. (1994). *The Language Instinct: How the Mind Creates Language*. New York: Harper-Collins.

Quine, W. V. O. (1960). Word and Object. MIT Press.

Yuan, S. & Fisher, C. (2009). "really? she blicked the baby?". Psychological Science, 20, 619–626.