## LING5702: Lecture Notes 26 Acquisition of Meaning

## **Contents**

26.1 Acquisition of Semantics
26.1 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?

## 26.2 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.