L1 acquisition of syntax

Background reading:

• *CL* Ch 9, sec 5

1. Review — L1 acquisition key ideas

- A child who is in the process of acquiring his/her target (adult) language goes through different stages of development
 - These stages reflect intermediate mental grammars on the way to the adult grammar
- A child often shows variable behavior
 - A rule may be applied only some of the time
 - Multiple versions of a rule may be in use
- But we can still find a great deal of systematicity in children's language behavior

2. Syntactic development: Overview

Syntactic development also proceeds in stages

- Examples:
 - Stages in utterance length
 - Stages in development of transformations

The **one-word stage** (12 to 18 months)

- One-word utterances are used to express the meaning of a whole sentence
- Some examples from A (my daughter):

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More ('I want more milk')
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Foot ('My foot is stuck')

Leaf ('That's a leaf'/'I see a leaf')

Mama ('Mama should do it')

Note: Interpretations of the child's intended meaning are based on the context of the utterance

The **two-word stage** (a few months later)

- Words very often lack inflection at this stage
 - Sometimes, children treat adult phrases as words in this stage (A had 'V-it' for transitive verbs)
- Some examples from A:

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More crackers ('I want more crackers') said as [tatuz]
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That bicycle ('That's a bicycle')

Papa eat-it ('Papa should eat it')

Duck head ('I have a duck on my head') don't ask!

Mama up ('Mama should pick me up')

The two-word stage

- Do children have syntactic categories in the two-word stage?
 - How could we test this? Can we tell?
- Word order mostly matches adult language
 - But children may learn word order verb by verb at first (before using a general X'-schema)

The **telegraphic stage** (approx. age 2)

- What morpheme type is missing?
 - From *CL*, p 370 *Chair broken*.

Man ride bus today.

Car make noise.

- From A Eat-it orange fork mouth.

Mama draw big blue O.

The **telegraphic stage** (approx. age 2)

- What morpheme type is missing? | function morph.
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- From A

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• Once the telegraphic stage begins, further development is very rapid (see *CL*, Table 9.19, pp 371-2)

- One fact about individual children that is often reported in research on child language is the child's MLU, or mean length of utterance
 - This can be measured in **words** or **morphemes**

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- Can MLU help indicate when a child has left the telegraphic stage and become more adult-like?
 (What should happen to MLU at this point?)

- Why might MLU be more useful than chronological age in comparing children?
 - Children's development follows a typical sequence, but the age at which each child reached a certain stage can vary by months
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 - MLU measured in morphemes should increase when inflectional affixes start to appear!

- The Inversion rule: How does this develop for English-acquiring children?
 - a. Questions signaled by intonation only
 - b. A relatively rare pattern: <u>Can</u> he <u>can</u> look?
 - → What rule does this child's grammar have?
 - c. Adult-like application of Inversion
- Some children pass through a stage where they can apply Inversion...except when they have to apply Wh Movement too

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Deep structure ('zero'/'silent' C in embedded clause):

C NP T V C NP T V [----PP-----]

+Q you -Pst think [CP Ø [TP what -Pst is in the box]

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 - Hint: How many TPs/CPs do we have here?
- Suppose we want to study this type of wh question in child language. How might we collect data?
 - Naturalistic vs. experiment studies (what are the pros and cons?)
 - Here is a <u>video</u> of a *wh*-question study

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- What does this child's current *Wh* Movement rule seem to be?
- The child seems to move the *wh* phrase to the specifier of CP, but leaves a copy of it behind instead of leaving a trace (*t*) in the structure!

This particular child pattern is not necessarily common, but is sometimes observed