

# **Vocabulary and semantics**

Sketch Acquisition Workshop

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# What's in a word?

- Word-like units are the child's initial target for verbal communication.
  - Children on average begin to produce words at 12 months.
  - You will see clear change across the span of the sketch corpus.
- But what counts as a word in a language is going to differ across different typologies.
  - Typology of language means the lexicon has different relationships to other domains of language.
- Luckily, children's initial productions will be fairly simple (though may be hard to decipher), with predicted development across time.

# Vocabulary and semantics

Sketch Acquisition Manual (SAM), Part II: The acquisition sketch

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**Box 9.** Key areas of focus in child language: Lexicon and semantics.

## **Core**

- (i) What is the distribution of word classes and semantic fields across development?
- (ii) What is the relative distribution of nouns to verbs across development?
- (iii) When do children begin to use other word classes?
- (iv) Do you observe any patterns in the truncation of words? Which ones and at which ages? (See Section 6.1 on word structure)

## **Extension**

- (v) What additional observations can be made about children's semantic development, given the language and the data?

# Word classes and semantic fields

- Children's vocabulary won't be so extensive during the recording sessions; coding them for syntactic class and semantic field gives some general developmental information.

(7) Inuktitut:

Animals: *aiviq* 'walrus', *umimmak* 'muskox', *uviluq* 'mussel', *tuktuk* 'caribou'

Vehicles: *anartauti* 'septic truck', *haanta* 'all-terrain vehicle', *qajariaq* 'canoe'

Food/Drink: *panirtitaq* 'bannock', *puijiviniq* 'seal meat', *misiraq* 'whale oil'

Clothing: *amauti* 'parka for carrying baby', *atigi* 'parka', *pualuq* 'mitten'

Baby Words: *aataaq* 'hurt', *amaama* 'bottle, suckle', *ammu* 'sleep', *vuvu* 'vehicle'

People: *ajak* 'maternal aunt', *akkak* 'paternal uncle', *najak* 'sister of boy'

Locations: *avani* 'there', *maani* 'here', *paani* 'up there', *kanani* 'down here'

- Can start with the semantic fields from the MB-CDI.
- But there will be important culturally-specific terms.
- Some fields will differ in size based on cultural considerations (e.g., kin).

# Word classes

- Distribution of syntactic categories in CDL and in children's speech has long been of interest to researchers.
  - The difference between children's linguistic behaviour and their input is revealing about constraints on learning.
- One common topic in this space has been so-called ***noun-bias*** in acquisition.
  - Robust evidence in many languages (Dutch, English, French, Hebrew, Italian, Korean, & Spanish (Bornstein et al., 2004)).
  - Less robust evidence in other languages (e.g., Tseltal, Casillas et al., 2024).

# Lee & Allen (2023) *Lang. Doc. Con.* (Inuktitut Sketch)

**Table 31.** Average proportion of word class in children's speech.

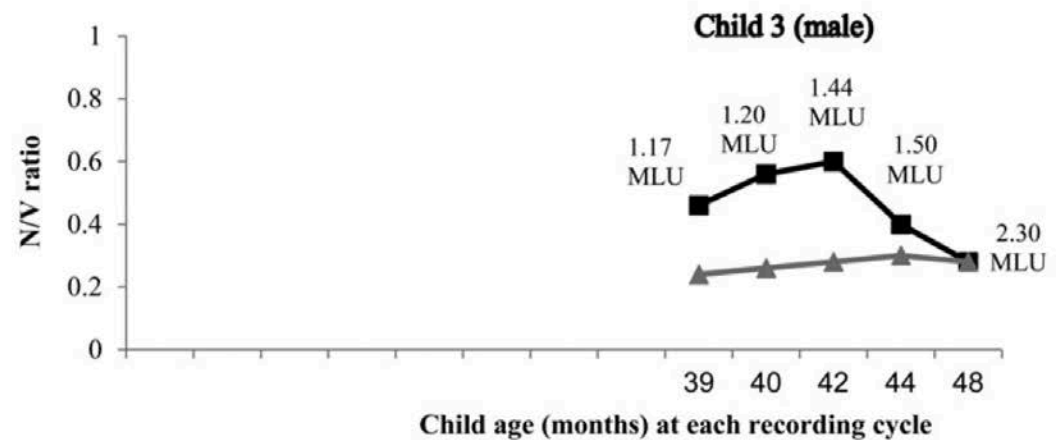
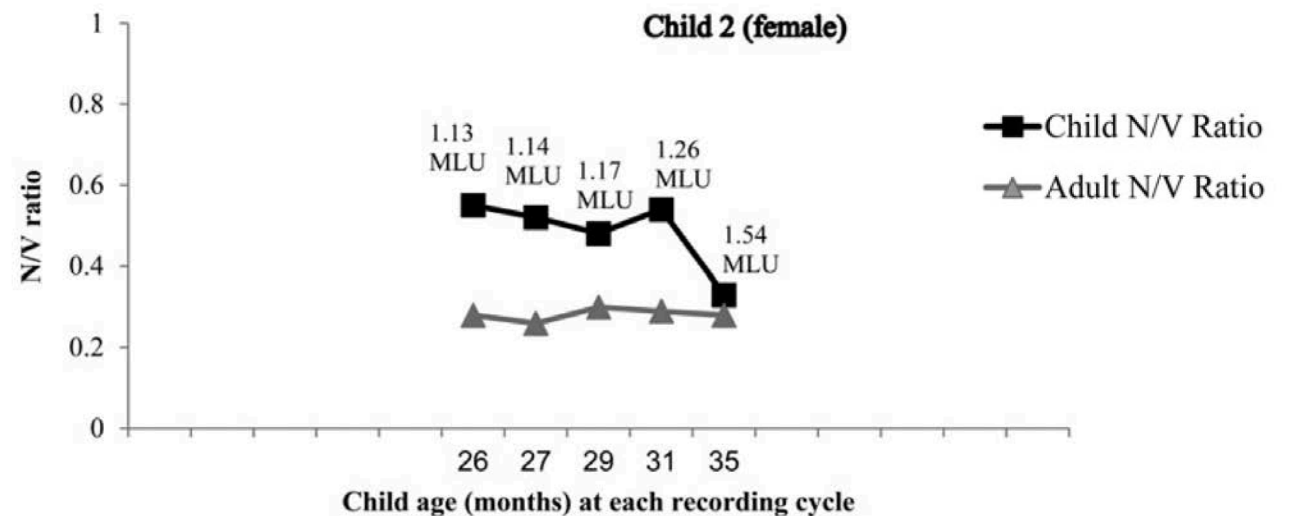
Group	Types				Tokens			
	VR	NR	LR	IACT	VR	NR	LR	IACT
1;4	0.23	0.40	0.03	0.34	0.26	0.62	0.01	0.39
1;10	0.08	0.42	0.07	0.42	0.08	0.55	0.16	0.32
2;4	0.34	0.44	0.04	0.18	0.20	0.51	0.08	0.21
2;10	0.37	0.46	0.03	0.14	0.24	0.51	0.04	0.20
3;4	0.44	0.34	0.04	0.18	0.38	0.36	0.06	0.20

N roots > V roots

The number of word types at each age is as follows: 1;4=25, 1;10=40, 2;4=75, 2;10=165, 3;4=140. The number of word tokens at each age is as follows: 1;4=67, 1;10=184, 2;4=272, 2;10=466, 3;4=363.

# Taverna & Waxman (2020) *Jn. Ch. Lang.* (Wichi)

- 3 children recorded 5 times across 12-month period.
- Noun-Verb ratio initially favours nouns but becomes more even around age 3+ years.
- Linked to MLUm – once children had MLU => 1.5, children begin adding more verb stems, verb affixes, and noun affixes to their vocabulary.
- Early nouns lay foundation for acquisition of verbs and other relational terms (Gleitman, 1990).



# Word truncation

- Word truncation will be common, particularly in morphologically complex languages.

(5) Inuktitut: Child (Jini 1;4) and her sister

Sister: *maa-li-ruk.*  
kiss-POL-IMP.2SG.SBJ>3SG.OBJ  
'Kiss her.'

Child: *maa.*  
kiss  
'Kiss.'

Sister: *maa-pait.*  
kiss-PAR.2SG.SBJ>3SG.OBJ  
'You kissed her.'

Child: *maa.*  
kiss  
'Kiss.'

Sister: *maa-tau-laur-langa.*  
kiss-PASS-POL-IMP.1SG.SBJ  
'Kiss me.' [lit: let me be kissed]

(6) K'iche' Mayan (Pye 1983: 587): A1 Tiya:n (2;2)

Adult: *la: utz kawiloh*  
'Do you like it?'

Child: *jah, loh (= jah, kinwiloh)*  
'Huh? I like it.'

Adult: *kawarik*  
'He's sleeping.'

Child: *lik (= kawarik)*  
'He's sleeping.'

In more fusional languages  
ch. may isolate syllables  
across morphemes  
boundaries



Agglutinative languages  
children use isolated  
morphemes



# Lexical concordance (Pye, 2021, JCL)

- Pye (2021) suggests lexical concordance sets (below: Northern Pame), see: <http://pyersqr.org/minimal/>

(4) A lexical concordance for a two-year-old Northern Pame speaker

Word	Begin Time	Child's Utterance	Adult Target	Translation
daʔtsəlʔ	03:54.9	kiʔil	daʔtsəlʔ	It bit.
daʔuap	20:56.8	ane	daʔuap	It threw it.
danàs	12:44.2	nas	danàs	orange
dapaj	05:15.5	paj	dapaj	tomato
	16:26.2	paj	dapaj	tomato
	16:30.6	paj	dapaj	tomato
	07:21.6	pa	dapaj	tomato

- On the basis of concordance sets argues one could analyse: (i) lexicon, (ii) segmental inventories, (iii) prosody, (iv) morphosyntax, and (v) verb arguments.

# Extensions?

- Will depend on the language...
  - e.g., in Intuktut Lee and Allen (2022) analysed categories of noun roots (including demonstratives).
- Other components of semantics may be difficult beyond semantic fields.
  - e.g., the scope of lexical meanings (Bowerman, 1980).
- Interesting typological features will be revealed through lexicon.
  - Tone
  - Morphology (next meeting).

# Some further readings...

Pye, C. (2021). Documenting the acquisition of indigenous languages. *Journal of Child Language*, **48**, 454 – 479.

Taverna, A., & Waxman, S. (2020). Early lexical acquisition in the Wichi language. *Journal of Child Language*, **47**, 1052 – 1072.