LNGT0101 Introduction to Linguistics



Lecture #11 Oct 17th, 2011

Today's agenda

- Finish our talk about morphological typology.
- Start talking about syntax.

2

Morphological typology cont.: Head-marking vs. dependent-marking languages

3

How are grammatical functions marked?

- One aspect of morphological variation among human languages has to do with whether languages mark grammatical functions such as "subject of" and "object of" on the *head* of the clause or on the *dependents*.
- Languages that mark grammatical functions on heads are called *head-marking languages*; languages that mark grammatical functions on dependents are called *dependent-marking languages*.
- Compare Japanese with Mohawk:

.

Head-marking vs. dependent-marking

a. John-ga Mary-o butta John-SU Mary-OB hit Japanese

"John hit Mary."

Mohawk

b. Sak Uwári **shako**-núhwe's Sak Uwari he/her-likes

"Sak likes Uwari."

c. Sak Uwári **ruwa**-núhwe's Mohawk

"Uwari likes Sak."

Sak Uwari she/him-likes

5

Case-marking systems

Case-marking: Japanese

- Dependent-marking is what is referred to as case-marking. Consider, for example, the following sentence from Japanese,:
 - John-**ga** Mary-**ni** hon-**o** yatta John-**SU** Mary-**IOB** book-**DOB** gave "John gave Mary a book."
- Each noun inflects for case: subjects appear with nominative case; direct objects appear with accusative case, and indirect objects appear with dative case.

Case-marking: Japanese

■ Notice, crucially, however, that in intransitive clauses (those without an object), the case marker on the subject of a Japanese sentence remains the same (i.e., -ga):

John-**ga** Kobe-ni itta John-**NOM** Kobe-to went "John went to Kobe."

8

Case-marking: Greenlandic

 As it turns out, not all languages behave that way. There are languages with a different case system. Compare, for example, the case marking in the following transitive and intransitive sentences from Greenlandic Eskimo (CM stands for "case marker").

9

Case-marking: Greenlandic

- a. Juuna-p atuaga-q miiqa-nut nassiuppaa
 Juuna-CM book-CM child-CM send
 "Juuna sent a book to the children."
- b. atuaga-q tikissimanngilaqbook-CM hasn't come"A book hasn't come yet."
- What do we notice here?

14

Case and agreement systems: Greenlandic

- The subject of an intransitive clause carries the same case marker as the object of a transitive clause. Such case is typically referred to as "absolutive," as opposed to the "ergative" case marker on the subject of a transitive verb.
- We call Japanese-type languages "nominative-accusative" languages, and Greenlandic-type languages "ergativeabsolutive" languages.
- There are also languages with a "split" system: They behave nominative-accusative in some contexts, but ergativeabsolutive in others. You need to bear this in mind in case your LAP language is of that kind.

Morphology of Some Verbal Categories

Tense

- Tense can be defined as a relation of event time to speech time.
- The main distinctions are between past and non-past, or future and non-future, though some languages will have finer-grained distinctions within "past" or "future".

13

Tense

■ English:

 $\begin{array}{ll} \text{a. I work}_{\mathcal{O}}. & \text{(present)} \\ \text{b. I work} \textit{ed}. & \text{(past)} \\ \text{c. I } \textit{will} \text{ work}. & \text{(future)} \end{array}$

■ Lithuanian:

a. dirb-u "I work" b. dirb-au "I worked" c. dirb-siu "I will work"

14

Tense

 Chibemba (Bantu) changes the verb to indicate if the event took place before yesterday, yesterday, earlier today, or if it just happened. And it has a similarly fine-grained scale for future as well:

15

Chibemba past tense system

a. Remote past (before yesterday):

Ba-àlí-bomb-ele "they worked"
b. Removed past (yesterday):

Ba-àlú-bomba "they worked"

c. Near past (earlier today):

Ba-àcí-bomba "they worked"

d. Immediate past (just happened) : Ba-á-bomba "they worked"

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Chibemba future tense system

a. Immediate future (very soon): Ba-áláá-bomba "they"ll work"

b. Near future (later today): Ba-léé-bomba "they"ll work"

 $c.\ Removed\ future\ (tomorrow):$

Ba-kà-bomba "they"ll work" d. Remote future (after tomorrow):

Ba-ká-bomba "they"ll work"

Perfective aspect: "He wrote three letters." Imperfective (or habitual) aspect: "He writes letters."

Aspect

Aspect has to do with the internal temporal structure

of an event, e.g., whether it is temporally bounded or

Progressive aspect: "He is writing letters."

Aspect

■ Some languages like Russian and Egyptian Arabic express aspect by means of verbal affixes:

Russian: Ja čitál "I was reading" Ja **pro**čitál

Egyptian Arabic: katab

"I (did) read" "he wrote"

bi-yiktib "he is writing"

• Other languages like Finnish use case-marking (accusative vs. partitive) to signal aspect: Hän luki kirj**an**_{ACC} "He read the book"

Hän luki kirja**a**_{PART}

'He was reading the book'.

Mood

 Mood is a grammatical category through which speakers of a language can indicate whether they believe that an event or a state actually occurs, does not occur, or has the potential to occur.

Mood

- *Indicative* mood asserts the truth of a proposition, e.g., "It is raining."
- Subjunctive mood typically indicates an attitude of uncertainty on the part of the speaker or a hypothetical situation, e.g., "It is essential that it rain."
- Commands are said to be in the *imperative* mood.

21

Modality

■ Modality has to do with obligation/desire (deontic), or with degrees of possibility (epistemic) regarding an event

John must come tomorrow.

We really should go now.

John must have left the door open.

My guess is that it should rain tomorrow.

Evidentials

- Some languages indicate epistemic modality by means of morphological markers, called evidentials, e.g., Tuyuca (Brazil and Colombia):
 - a. díga apé-wi soccer play-VISUAL

"He played soccer (I saw him)."

Evidentials

- b. díga apé-ti soccer play-NON-VISUAL "He played soccer (I heard him playing)."
- c. díga apé-yi soccer play-APPARENT "He played soccer (I have evidence but I didn't actually witness the game in any way)."

Evidentials

- d. díga apé-*yigi* soccer play-SECONDHAND
 "He played soccer (Someone told me)."
- e. díga apé-*hiyi*soccer play-ASSUMED
 "He played soccer (It seems reasonable that he did)."

25

Are you ready for some Syntax?

Me too, but let's look at a few puzzles first.

26

A visual puzzle

■ http://www.magicmgmt.com/gary/oi pac tri/#

27

Wisual puzzles (Nieder 2002) Fig.2.4 Remaple contracted by visual paters—of human and bux, who can be inclined to treat the two figures as members of an applications class in terms of orientation. Images from Isac and Reiss's book "1-Language" Fig.2.5 The bow do not treat the illnessy restangle above as the same as either of these two figures.

A rat behavior puzzle (Seth Roberts)

- Press a lever for food 40 seconds after hearing a tone.
- Press a lever for food 40 seconds after seeing a light.
- Ok, Ratty, here's 20 seconds of sound, followed by 20 seconds of light. What are you going to do?

29

And your point is ...?

 Something that I've been stating repeatedly, but now you should have seen evidence for it in language:

We need abstraction.

Phonological and Morphological puzzles

- Phonetically different sounds are perceived as similar: [t] in star, [th] in tar, [r] in butter, and [th] in bat.
- Phonetically similar sounds are perceived as different: [r] in waiting, and [r] in wading.
- The morpheme of past tense in English is pronounced as [t], [d], or [əd], depending on the value of the voicing feature of the verb's final sound.
- In Cebuano, the rule forming language names has to target the 'nucleus' of the first syllable of a noun.

1

The puzzle of the Turkish plural

singular	plural	meaning
ip	ipler	"rope"
kıl	kıllar	"body hair"
sap	saplar	"stalk"
uç	uçlar	"edge"
son	sonlar	"end"
öç	öçler	"vengeance"
gül	güller	"rose"
ek	ekler	"junction"

32

The puzzle of the Turkish plural

singular	plural	meaning		
dev	devler	"giant"		
kek	kekler	"cake"		
can	canlar	"soul"		
cep	cepler	"pocket"		
tarz	tarzlar	"type"		
kap	kaplar	"recipient"		
çek	çekler	"check"		
saç	saçlar	"hair"		

33

	Non-Back			BACK		
HIGH	i		ü		1	u
Non-High	e		ö		a	Q
	Non-Round		Ro	UND	Non-Round	ROUND
	singular	plu	ral	me	aning	
	ip	ipler "ro		"ro	pe"	
	kıl	kıllar saplar uçlar sonlar		"body hair"		
	sap			"sta	alk"	
	uç			"edge" "end"		
	son					
	öç	öçler		"ve	ngeance"	
	gül	gül	ler	"ro	se"	
	ek	ekler		"jus	nction"	34

Possible solution?

 An abstract vowel that is non-pronounceable needs to be posited for the plural morpheme:

where the value of α is determined by the backness value of the stem vowel.

35

A couple of more puzzles

Let's look at another puzzle (from Isac and Reiss's book)

■ Do you know if anyone is here yet?

I know Mary is here.

- Do you know if anyone is here yet?
 - I know Mary's here. (so, copula contraction is possible)
- Do you know if anyone is here yet?
 - I know Mary is. (so, deletion of predicate is possible)
- Do you know if anyone is here yet?
 - *I know Mary's. (hmmm ... ???)

37

Maybe it's phonetic deficiency?

■ Let's see:

Do you know anyone's mother?

I know Mary's.

38

Maybe the contracted form can not be followed by a pause?

Rut

Do you know if anyone is here yet?

*I know Mary's and Bill's coming soon.

Or

*I know Mary's but she has to leave soon.

39

Solution?

- Well, what does a pause and "and/but" have in common?
- Right. They mark a clause boundary. So, perhaps this is the right generalization, then:

Copula contraction is not possible at a clause boundary.

■ Eureka. But look what we did. We had to rely on an abstract concept to explain the puzzle: The notion of 'clause'; we had to refer to 'structure.' Our explanation was "structure-dependent."

40

Another puzzle: Let's form a yes-no question

- John must leave.
 - Must John leave?
- Rule #1 (structure-independent): Invert the first word and the second word of a declarative sentence to form a yes-no question.
- Does it work?

This boy must leave.

*Boy this must leave?

41

Another puzzle: Let's form a yes-no question

- Rule #2 (structure-independent): Move the auxiliary verb of a declarative sentence to the front to form a yes-no question.
- Does it work?

This boy must leave.

Must this boy leave?

But:

The boy should have left.

Should the boy have left? OK

But:

*Have the boy should left? Not OK

■ Can we do better?

Another puzzle: Let's form a yes-no question

- Rule #3 (structure-independent): Move the first auxiliary verb of a declarative sentence to the front to form a yes-no question.
- Does it work? How about this?

 The boy who must leave has been sick.

 *Must the boy who leave has been sick?
- This is not English, obviously.

43

Another puzzle: Let's form a yes-no question

- Rule #4 (structure-dependent): Invert the auxiliary verb of the main clause and its subject to form a yes-no question.
- Does it work?

[main-clause The boy [sub-clause who must leave] has been sick].

Has the boy who must leave been sick?

■ That worked. But we had to refer to "structure."

1.1

One more puzzle: wanna-contraction

- Who do you want to kiss? Who do you wanna kiss?
- Who do you want to kiss Mary?*Who do you wanna kiss Mary?
- Compare: I want to kiss Mary.
 I wanna kiss Mary.
- Think about that till Wednesday?

45

Next class agenda

 Syntax: Continue reading Chapter 4 of the textbook.

46

Abbreviations used on the slides

- CLASS = classifier
- CMPLT = complete
- NEUT = neuter
- PAT = patient
- STAT = stative
- SU = subject marker; DOB = direct object marker; IOB = indirect object marker
- CM = case marker

47

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