Variability of Languages in Time and Space

Lecture 4 Variability in Morphology - 1

- Linguistic signs
- Grammatical meaning
- Structural typology
 - Parameters of variation
 - Types of morphology: agglutinating, fusional, isolating, polysynthetic
- Linguistic quiz

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- The term **linguistic sign** is used for pairing of a particular sound sequence (form) and a particular meaning
- A linguistic sign is composed of two elements:
 - signified (= the concept associated with the acoustic image = meaning)
 - signifier (= acoustic image of the word = form)



Basic features of linguistic signs

- arbitrariness
 - the relation between the signifier and signified is not motivated, given by convention
- **linearity** of the signifier (form)
 - in time for spoken texts
 - in space for written texts

morphemes

child + ish + ness help + less un + gentle + man + li + ness

lexemes (words)

understand woman selection have their own meaning

Linguistic signs

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Typology in Morphology

- Structural typology
 - How grammatical meanings are built in languages
- Typology of grammatical categories and meanings
 - Which grammatical meanings are possible
 - Which realizations they have in different languages
- Morphological typology receives relatively little attention
 - Of all the aspects of language, morphology is the most language-specific \rightarrow least generalizable
 - Word classes are language-specific
 - Even the very presence of a meaningful morphological component is language-specific

Grammatical Meaning

Grammatical meaning

VS.

Component of meaning repeating in individual forms of different words

1. Regularly applied to different words

girls, tables, noses, computers – grammatical meaning of **plurality**

2. Does not change the basic lexical meaning

girl – girls

table - tables



Lexical meaning

Basic meaning of the word which is listed in the dictionary

• individual meaning of the word



Structural Typology

- How grammatical meanings are built in languages
- Approach to structural typology
 - Holistic approach: global characterization of the entire language according to a small number of typological characteristics
 - too ambitious
 - Partial typology:
 - moving away from classifying languages into ideal types
 - specific phenomena or individual grammatical constructions are studied
- Distribution of structures in the world
 - What's where why?
 - How are the facts interconnected?

- Stems and Affixes
 - What combinations of stems and affixes are possible in a language?
- Separatist vs. cumulative affixes
 - Does an affix has one or more meaning at the same time?
- The form of morphemes
 - Segmental morpheme (different types), operations (e.g. reduplication), suprasegmentals see plural notation in different languages:

Redupl	ication				Indonesian			
rumah		house	rumah-rumah		houses			
peruba	ahan	change	perubahan-pe	rubahan	changes			
Special	word		Hawaiian		Tones			ngiti (Sudan)
'elua	a'u	mau	i'a		kamà	chief	kámá	chiefs
two	ту	pl	fish		màlàyikà	angel	màlàyíká	angels
my two fishes				màlimò	teacher	màlímó	teachers	

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- Invariance vs. variance of affixes
 - Declination classes

Finnish

NOMINATIVE: GENITIVE: ('of') ELATIVE: ('from') ADESSIVE: ('at') INESSIVE: ('in')

'cupboard' 'Matti'
kaappi-0 Matti-0
kaapi-n Mati-n
kaapi-sta Mati-sta
kaapi-Ila Mati-lla
kaapi-ssa Mati-ssa

ʻschool' koulu-**0** koulu-**n** koulu-sta koulu-11a koulu-ssa

	'woman'	'stud	ent'	'money'
NOMINATIVE:	žèn -a	stude	nt- 0	nòvac- 0
ACCUSATIVE:	žèn -u	- u student- a		nòvac- 0
GENITIVE:	žèn-e	student- a		nòvc-a
DATIVE:	žèn-i	student- u		nòvc- u
INSTRUMENTAL:	žèn -om	student- om		nòvc -em
			Serbo-Croatian	

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- Overt vs. zero affixes
 - What kind of affixes have overt forms and what kinds are zero?

LATIN:	SINGULAR uxor 'wife'	PLURAL uxor- es 'wives'
SOUTHERN BARASANO:	kahe -a 'eye'	kahe 'eyes'
SWAHILI:	<i>ki-su</i> 'knife'	vi -su 'knives'
MANDARIN:	ren 'man'	ren 'men'

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- The order of morphemes
 - e.g. stem deriv number case



Types of morphology

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Agglutinating morphology

- A word may consist of more than one morpheme, mostly many morphemes
- The boundaries between morphemes in the word are always clear-cut
- One morpheme designates one grammatical meaning
- Just a few exceptions (almost no "irregular" verbs in Japanese, Turkish)

Turkish	Singular	Plural	adam 'man'
Nominative	adam	adam- <mark>lar</mark>	
Accusative	adam-ı	adam-lar-ı	
Genitive	adam- <mark>ın</mark>	adam- <mark>lar-ın</mark>	
Dative	adam- <mark>a</mark>	adam- <mark>lar-a</mark>	
Locative	adam- <mark>da</mark>	adam- <mark>lar-da</mark>	
Ablative	adam- <mark>dam</mark>	adam- <mark>lar-dam</mark>	

• Frequent in Turkish, Indonesian, Eskimo, Hungarian, Japanese, Basque, etc.

(flective, inflective) Fusional morphology

- no clear-cut boundaries between morphemes
 - alternations
- the expression of different categories within the same w is fused together to give a sir unsegmentable morpheme

ru**k**-a 'hand' ru**c**-e 'hand' (N.Pl, Lok&Dat. Sg) ru**č**-n-í 'hand' (adj.)

Marie sp - í 'Mary' 'sleep' – 3.pers.+SG+present 'Mary is sleeping.'





Isolating and Analytical morphology

- Grammatical meanings are expressed with function words
 - One word one morpheme
- More of isolation \rightarrow Less of morphology
- Very important word order
- Many compound words

Vietnamese

Khi tôi đèn nhà ban tôi, chúng tôi bắt đầu làm bài. when I come house friend I plural I begin do lesson "When I came to my friend's house, we began to do lessons."

English?

I am a student You are a student *He/she/it is a student* We are students.

You are students.

They are students.

bark+praes.

EN. The dog of my father is barking. def. Gen. poss. praes. actual štěká. CZ. Tatínkův pes farther+poss dog+NomSg

Polysynthetic morphology



- Lexical morphemes are combined together into a single word
- Words are composed of many morphemes that have independent meaning
- Long "sentence-words"
- High morpheme-to-word ratio
- Morpheme and word boundaries are not clear cut
- Subject may be separated, but the rest stays very close

Polysynthetic morphology



In Paleosiberian Eskimo-Aleut languages:

Chukchi

təmeyŋəlevtəpəɣtərkən

tə|meyŋə|levtə|pəɣt|ərkən 1.sg -'big'-'head'-'ache'-ımpf 'I have a fierce headache'



tuntussuqatarniksaitengqiggtuq

'He had not yet said again that he was going to hunt reindeer.'







Aliikusersuillammassuaanerartassagaluarpaalli. aliiku-sersu-i-llammas-sua-a-nerar-ta-ssa-galuar-paal-li entertainment-provide-SEMITRANS-one.good.at-COP-say.that-REP-FUT-sure.but-3.PL.SUBJ/3SG.OBJ-but 'However, they will say that he is a great entertainer, but ...'

Turkish – Latin – English

Given Turkish word forms and their translations into Latin and English

- yazmışım I've probably written
- yazmışsın You _{sg} have probably written
- yazmış He has probably written
- yazmışsınız You_pl have probably written
- yazar (he) writes
- yazarlar (they) write

Translate:

into Turkish: scribo, They have probably written into Latin: (he) writes, yazarsınız into English: scribitis, yazmışlar çalışırım — laboro çalışır — laborat çalışırsın — laboras çalışırlar — laborant çalışırsınız — laboratis yazarsın — scribis