Morphology

- Ling 105-

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Giuseppina Silvestri
(she/her)

Week 5, Class 1

Roadmap for today's class

- 1. Morphology Lab 9
- 2. Inflection and inflectional values/features
- 3. Derivation and derivational meanings
- 3.1 Derived nouns
- 3.2 Derived verbs
- 3.3 Derived adjectives

Morphology Lab 9

- -Observe the following dataset.
- -In this language (Language A) something happen when a type of verb is derived by the adjective.

fikas 'strong' kilad 'red' bato 'strong' fusul 'enemy'	fumikas kumilad bumato fumusul	'he is becoming strong' 'he is becoming red' 'he is becoming stone' 'he is becoming an enemy'
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- what type of morphological process is involved here?
- what is the Rule you would write?
- which formalism would you use?

Inflection and Derivation

Main reference:
Chapter 5 of the textbook

INFLECTION Relevance for Syntax DERIVATION

Inflection vs Derivation? OR Inflection & Derivation?

- Inflection vs Derivation
 - ⇒ dichotomic approach: complex words can be analyzed based as being the outcome of inflection or the outcome of derivation
- Inflection & derivation
 - ⇒ continuum approach: morphological patterns are best understood as lying on a continuum ranging from the most clearly inflectional patterns to the most clearly derivational patterns

Inflection and Inflectional (feature) values

Inflectional (feature) values

inflectional (feature) values => different inflectional formations

- English verbs express the inflectional values 'present' and 'past'
 -e.g., present (he/she): walks, past: (he/she) walked
- English pronouns express the inflectional values of...? [Q1 for you]
 -let's work on the pronouns together!-

[Q2 for you] = do English verb express the value 'future'?

Dimensions of variation of inflectional values

- world's languages vary quite dramatically in the amount of inflectional exponence that their lexical items exhibit:
- what are examples of languages that have no (or virtually no) inflectional values?
- what are examples of languages that have a high number of inflection values?

-despite all the diversity, the types of inflectional values that we find across languages are surprisingly uniform

Common inflectional values and features

Most inflectional values fall into one of these classes :

Inflectional values are often naturally grouped together into categories that we will call inflectional features

For example:
SINGULAR is an inflectional value of the FEATURE 'number';
HABITUAL is an inflectional value of the FEATURE 'aspect'

On nouns, pronouns	On verbs	On adjectives, demonstratives, relative pronouns, adpositions			
number	number	number			
(SINGULAR, PLURAL,)	(SINGULAR, PLURAL,)	(SINGULAR, PLURAL,)			
case	person	case			
(NOMINATIVE,	(1ST, 2ND, 3RD)	(NOMINATIVE,			
ACCUSATIVE,)		ACCUSATIVE,)			
gender	tense	gender			
(MASCULINE,	(PRESENT, FUTURE,	(MASCULINE,			
FEMININE,)	PAST,)	FEMININE,)			
person	aspect	person			
(1ST, 2ND, 3RD)	(PERFECTIVE,	(1ST, 2ND, 3RD)			
	IMPERFECTIVE,				
	HABITUAL,)				
	mood				
	(INDICATIVE,				
	SUBJUNCTIVE,				
	IMPERATIVE,)				

Let's zoom into the main values and features

- Case: nominative, accusative, genitive, dative, locative...
- Number: singular, plural, dual, paucal
- Person: 1st, 2nd, 3rd
- Tense: present, past, future
- Aspect: habitual, progressive, perfective...
- Gender: masculine, feminine, neuter...

More on Case

- (1) Suppletive forms for English pronouns:
 - She loves him.
 - b. He loves her.
 - c. *She loves he.
 - d. *He loves she.

- (2) Affixal casemarking:
 - a. <u>Der</u> <u>Hund beisst den</u> <u>Mann</u>(German) the.MASC.SG.NOM dog bites the.MASC.SG.ACC man 'the dog bites the man'
 - b. <u>Den</u> <u>Hund beisst der</u> <u>Mann</u> the.MASC.SG.ACC dog bites the.MASC.SG.NOM man 'the man bites the dog'

More on Case

(3) Adpositional case marking:

- a. hasan-∅ ol-du hasan-NOM die-PAST
 - 'Hasan died'
- b. ali-Ø hasan-i ol -dur -du ali-NOM hasan-ACC die-CAUSE-PAST
 'Ali killed Hasan'
- c. mudur-Ø mektub-<u>u</u> imzala-di director-NOM letter-ACC sign-PAST 'The director signed the letter'
- d. ali-Ø mektub-<u>u</u> hasan-<u>e</u> imzala-t -ti ali-NOM letter-ACC hasan-DAT sign -CAUSE-PAST 'Ali got Hasan to sign the letter'

(Turkish)

More on Case

Suprasegmental Case markers

```
(4) a. E- t- nyrr-á en-kínè áŋ (nominative goat)
3SG-PERF-love-PERF FEM.SG-goat\NOM home.ACC
'The goat has loved home'
b. E- t- nyrr-á en-kíné âŋ accusative goat
3SG-PERF-love-PERF FEM.SG-goat\ACC our
'he/she has loved our goat'
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(5) Somali (Afro-Asiatic; Somalia)
a. libàax 'absolutive'
b. libaax 'subject'
c. libááx 'genitive'

How many Case values in Finnish?

14!

Finnish (Finno-Ugric, Uralic)

	6			
(6)	Name	Affix	Example	Translation
	nominative	Ø	talo	'house'
	genitive	-n	talo-n	'of()a house'
	essive	-na	talo-na	'as (a) house'
	inessive	-ssa	talo-ssa	'in (a) house
	adessive	-lla	talo-lla	'at/in (a) house)
	abessive	-tta	talo-tta	'without a house'
	partitive	-(t)a	talo-a	'house' (as object)
	translative	-ksi	talo-ksi	'to a house'
	ellative	-sta	talo-sta	'from a house'
	illative	-an, -en	talo-on	'into a house'
	allative	-lle	talo-lle	'to (a) house'
	ablative	-lta	talo-lta	'from (a) house'
	comititative	-ne-	taloi-ne-ni	'with my house'
	instrumental	$-n^{1}$	talo-n	'with (aide of) a house

More on Case: morpho-syntactic agreement

- Dependent elements may agree in case with the things that they depend on.
- This is often called concord or morpho-syntactic agreement between the noun and its dependents:

LATIN

(7)	

	Case	'master' (masc)	'mistress' (fem)
	nominative	domin-us	domin-a
	vocative	domin-e	domin-a
Cincular	accusative	domin-um	domin-am
Singular	genitive	domin-i	domin-ae
	dative	domin-ō	domin-ae
	ablative	domin-ō	domin-ā
	nominative	domin-i	domin-ae
	vocative	domin-i	domin-ae
Dll	accusative	domin-ōs	domin-ās
Plural	genitive	domin-ōrum	domin-ārum
	dative	domin-īs	domin-is
	ablative	domin-īs	domin-is

GERMAN

Mann the.M.SG.ACC dear.M.SG.ACC man hat die Ente gegessen has the F.SG.NOM duck eaten 'the duck ate the dear man' Die Ente des lieben Mannes hat the.F.SG.NM duck the.M.SG.GEN dear.M.SG.GEN man has das Telefon gegessen the telephone eaten 'the dear man's duck ate the telephone' Dem lieben Mann(e) the.M.SG.DAT dear.M.SG.DAT man habe ich eine Ente gegeben have I a.F.SG.ACC duck given 'I gave the dear man an duck'

More on Case: Case can interact with other aspects of the syntactic structure

• "Genitive of Negation" Construction (Russian, Polish, Lithuanian)

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(9) a. mam czas
have.1SG time.ACC
'I have time'
b. nie mam czas-u
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b. nie mam czas-<u>u</u>
not have.1SG time-GEN
'I have no time'

Case and Modality in Japanese

- (10) a. john-ga nihongo-{o /*ga} hanas-(r)u
 John-NOM Japanese-{ACC/ NOM} speak-(r)u
 'John speaks Japanese'
 - b. john-ga nihongo-{o /ga} hanas-(r)e-ru john-NOM Japanese-{ACC/NOM} speak-can-(r)u 'John can speak Japanese'
 - c. john-ni nihongo-{*o /ga} hanas-(r)e-ru
 John-DAT Japanese-{ ACC/NOM} speak-can-(r)u
 'John can speak Japanese'

Passive | Dependent verbs

• Passive: some languages have passive voice inflection, which indicates an unusual association of semantic roles and syntactic functions

- Dependent verb forms: many languages display special verb forms that are confined to dependent clauses
- verb forms marking relative clauses are called participles
- verb forms marking adverbial clauses are called converbs
- verb forms marking complement clauses are called infinitives or masdars

participle | converb | infinitve

- Korean participle

 Hankwuk-ul pangmwunha-nun salam-i nul-ko iss-ta.

 Korea-ACC visit-PTCP person-NOM increase-ing be-DECL

 'Those who visit Korea are increasing.'

 (S.-J. Chang 1996: 148)
- Hindi/Urdu converb

 Banie ke bețe ne cițțhii likh-kor ḍaak mẽ ḍaal-ii.

 grocer Poss son ERG letter(F).sG write-CVB box in put.PST-F.SG

 'The grocer's son wrote and posted a letter.'

 (lit. 'having written a letter, posted (it).')
- (13) Mparntwe Arrernte infinitive Re lhe-tyeke ahentyene-ke. she go-INF want-PST 'She wanted to go.'

Derivational meanings

- Derivational meanings are much more diverse than inflectional values.
- Derivational patterns change the word-class of the base lexeme:
 - -nouns can be derived from verbs
 - -adjectives from nouns

Key terms

- -denominal ('derived from a noun')
- -deverbal ('derived from a verb')
- -deadjectival ('derived from an adjective')

Derived nouns

How do we form nouns?

languages generally have more means for deriving nouns than for deriving verbs and adjectives

I.	Deverbal nouns $(V \rightarrow N)$					
	agent noun ³	English	$drink_{\mathbf{V}}$	\rightarrow	drink-er _N	
		Arabic	\hbar amala $_{ m V}$	\rightarrow	\hbar ammaa $l_{\mathbf{N}}$	
			'carry'		'carrier'	
	patient noun	English	$invite_{\mathbf{V}}$	\rightarrow	invit-ee _N	
	instrument noun	Spanish	$picar_{\mathbf{V}}$	\rightarrow	pica-dora _N	
		<u></u>	'mince'		'meat grinder'	
	action noun	Russian	otkry-ť v	\rightarrow	otkry-tie _N	
			'discover'		'discovery'	
II.	Deadjectival nouns (A	$A \rightarrow N$)				
	quality noun	Japanese	atarasi- i_A	\rightarrow	atarasi-sa $_{ m N}$	
			'new'		'newness'	
	person noun	Russian	umn-yj _A	\rightarrow		
			'smart, cleve	er'	'clever guy'	
III.	Denominal nouns (N	\rightarrow N)				
	diminutive noun	Spanish	gat-o	\rightarrow	gat-it-o	
			'cat'		'little cat'	
	augmentative noun	Russian	borod-a	\rightarrow	borod-išča	
			'beard'		'huge beard'	
	status noun	English	child	\rightarrow	child-hood	
	inhabitant noun	Arabic	Miṣr	\rightarrow	miṣr-iyyu	
			'Egypt'		'Egyptian'	
	female noun	German	König	\rightarrow	König-in	
			'king'		'queen'	

Derived verbs

How do we form verbs?

Derived verbs are less common than derived nouns

I.	Deverbal verbs $(V \rightarrow V)$					
	causative verb	Korean	cwuk-	\rightarrow	cwuk-i-	
	(see Section 11.1.4)		'die'		'kill'	
	applicative verb	German	laden	\rightarrow	be-laden	
	(see Section 11.1.5)		'load'		'load onto'	
	anticausative verb	Swedish	öppna	\rightarrow	öppna-s	
	(see Section 11.1.2)		'open (tr.)'		'open (intr.)'	
	desiderative verb	Greenlandic	sini-	\rightarrow	sini-kkuma-	
			'sleep'		'want to sleep'	
	repetitive verb	English	write	\rightarrow	re-write	
	reversive verb	Swahili	chom-a	\rightarrow	chom-o-a	
			'stick in'		'pull out'	
II.	Denominal verbs (N	\rightarrow V)				
	'act like N'	Spanish	pirat-a	\rightarrow	pirat-ear	
			'pirate'		'pirate'	
	'put into N'	English	$bottle_{\mathbf{N}}$	\rightarrow	bottlev	
	'cover with N'	Russian	sol'	\rightarrow	sol-it'	
			'salt'		'salt'	
III.	Deadjectival verbs (A	$V \to V$				
	factitive	Russian	čern-yj	\rightarrow	čern-iť	
			'black'		'make black'	
	inchoative	Spanish	verde	\rightarrow	verde-ar	
		1	'green'		'become green'	

Derived adjectives

How do we form adjectives?

Derived adjectives are even less common than derived verbs.

I.	Deverbal adjectives $(V \rightarrow A)$					
	facilitative	Basque	jan	\rightarrow	jan-garri	
			'eat'		'edible'	
	agentive	Spanish	habla-r	\rightarrow	habla-dor	
			'talk'		'talkative'	
II.	Denominal adjective	es $(N \rightarrow A)$				
	relational	Russian	korol'	\rightarrow	korol-evskij	
	(= 'related to N')		'king'		'royal'	
	proprietive	Ponapean	pihl	\rightarrow	pil-en	
	(= 'having N')		'water'		'watery'	
	privative	Russian	vod-a	\rightarrow	bez-vod-nyj	
	(= 'lacking N')		'water'		'waterless'	
	material	German	Kupfer	\rightarrow	kupfer-n	
			'copper'		'made of copper'	
III.	Deadjectival adjectiv	$\operatorname{ves}(A \to A)$				
	attenuative	Tzutujil	kaq	\rightarrow	kaq-koj	
			'red'		'reddish'	
	intensive	Turkish	yeni	\rightarrow	yep-yeni	
			'new'		'brand new'	
	negative	German	schön	\rightarrow	un-schön	
			'beautiful'		'ugly'	

I will see you on Thursday 5/3: what can we do in the meanwhile?

review the lecture slides

do reading from the textbook

 the guidelines for assignment #2 (Midpoint development of the paper) are ready for you to see

STAY SAFE