

INTD0112

Introduction to Linguistics

Lecture #11
Oct 14th, 2009

Comments on HW 2

- Scores are lower than on HW 1 (average is 74, compared to 79 on HW1).
- Most problems were with transcription, particularly with aspiration, devoicing, and nasalization. Also, some problems had to do with recognizing vowels, which is not uncommon.

Would you please stop that racket?

[wʊd ju p^hli:z stɒp ðæt ɪæktɪʔ]

I haven't seen my brother for ages.

[aj hævnt si:n maj brʌðəɪ fəɪ ejdʒəz]

Narrow phonetic transcription features

- For future transcription exercises, here is a list of the narrow phonetic features that you need to know and mark:
 - Aspiration for voiceless stops: [t^h]
 - (Optional) Non-release for stops: [t̚]
 - Syllabicity for nasals and liquids: [ŋ]
 - Devoicing for liquids and glides: [ɹ̥]
 - Nasalization for vowels: [ū]
 - Lengthening for vowels: [u:]

Comments on HW 2

- Also notice the following:
 - Only voiceless stops, (that is, [p, t, k]), in English undergo aspiration.
 - Vowels become nasalized only before nasals, that is, before [m, n, ŋ].
 - Schwa never occurs in a stressed syllable:
brother [brʌðəɪ] abrupt [əbrʌp̚t̚]

Comments on HW 2

- Prepositions/articles/pronouns/conjunctions/auxiliaries, typically undergo vowel reduction (as well as some other forms of reduction):
 - “for” [fɔ:ɪ] → [fəɪ]
 - “of” [ɒv] → [əv]
 - “them” [ðem] → [ðəm]
- Follow this link for a list: <http://ell.phil.tu-chemnitz.de/phon/connect/weakForms.html>

Comments on HW 2

- /e/ and /o/ will always have glides after them in English. So, in narrow phonetic transcription, they appear as [ej] and [ow].
- Vowel reduction is not the same as vowel deletion.

Comments on HW 2

- Please make sure you print out any homework/exam from the **.PDF** file, and not the .doc file. College computers do not have the SIL font installed on them, and all these symbols will appear as Σ , Θ , etc., within the .doc file.
- Also notice that online tests are open book assignments.
- Also, when you send me your homework/exam by e-mail, make sure you append your full name to the file name (e.g., hw2_noam_chomsky).
- Read the questions carefully and answer each part of the question.
- Please do skip lines, or use 1.5/double spacing for transcription questions so I can write comments.

Back to Morphology

The puzzle of the “undoable”

- How would a morphological tree of “undoable” look like?

Morphology problems

- Turkish.
- Michoacan Aztec.
- Cebuano.

Today’s agenda

- Processes of word formation: How do we add words to the lexicon of our language? (Chapter 4)
- Morphological typology: How do languages differ morphologically? (Chapter 11, pp. 255-65)

Processes of word-formation (enriching the Lexicon)

Processes of word-formation

- There are systematic word-formation processes that take place across human languages.
- Depending on the language, some of these processes may or may not be available. But the result is the same: New words are always created and added to the dictionary of the language.

Derivation

- The most productive process of word formation in a language is the use of *derivational* morphemes to form new words from already existing forms, as we discussed last week:
govern → *government* → *governmental* → *non-governmental*

Word coinage

- Word coinage happens when a name of a product acquires a general meaning and gets used to refer to anything that has the same function of the original product:
kleenex, kodak, nylon, Dacron

Conversion: Have you folks been *menued* yet?

- **Conversion** (aka **zero derivation**) is the extension of the use of one word from its original grammatical category to another category as well.
- For example, the word *must* is a verb (e.g. “You must attend classes regularly”), but it can also be used as a noun as in “Class attendance is a *must*”.
- Same applies to “vacation”, a noun that can also be used as a verb, and “major”, an adjective that can be used as a noun and a verb.

Borrowing

- New words also enter a language through borrowing from other languages. English, for example, borrowed a lot of French words as a result of the Norman invasion which took place in 1066, and that’s why the English lexicon has a Latinate flavor to it, even though English did not descend from Latin. [LINK](#)
- Here are some examples of foreign words that found their way into English:

<i>leak, yacht</i>	(from Dutch)
<i>barbecue, cockroach</i>	(from Spanish)
<i>piano, concerto</i>	(from Italian)

Loan translations

- Related to borrowings are *loan translations*, where a new word or expression is created via translation of a foreign term, rather than actual borrowing of the term in the language, e.g.,
marriage of convenience (from French *mariage de convenance*)
perros calientes (from English *hot dogs*)

Compounding

- New words are also created through the common process of compounding, i.e. combining two or more words together to form a new complex word. Here are some examples of compounding:

post + card → postcard

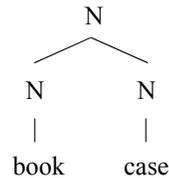
post + office → post office

book + case → bookcase

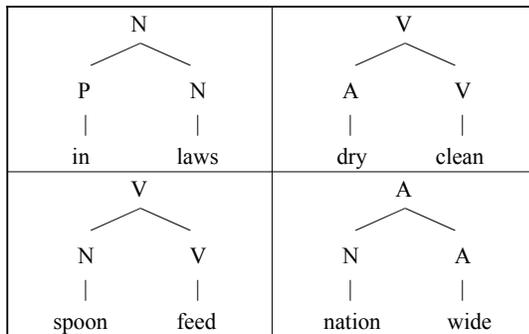
sister + in + law → sister-in-law

Compounding

- Like word structure, the internal structure of a compound can be represented using trees:

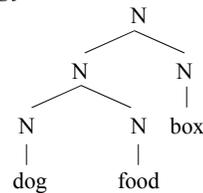


Structure of compounds



Structure of compounds

- We can also use trees to represent the internal structure of cases of multiple compounding such as *dog food box*:



Properties of English compounds

- Stress placement:
 - 'greenhouse vs. green 'house*
 - 'blackboard vs. black 'board*
- Modification by “very”:
 - We live next to a very green house.
 - *We live next to a very greenhouse.
- Inflectional morphemes are added to the compound as a whole:
 - drop kick → drop kicked, *dropped kick
 - bear hunter → bear hunters, *bears hunter

Endocentric vs. exocentric compounds

- Semantically, compounds can be divided into two types:
 - Endocentric compounds**, which denote a subtype of the concept denoted by the rightmost component of the compound, e.g.,
 - dog food* is a type of food
 - sky blue* is a type of blue
 - In **exocentric compounds**, by contrast, the meaning of the compound does not follow from the meanings of its parts, e.g.,
 - redneck* is not a type of neck
 - redhead* is not a type of head.

Endocentric vs. exocentric compounds

- Observe the plurals:

Singular		Plural
club foot	→	
Bigfoot	→	
policeman	→	
Walkman	→	

Acronyms

- Acronyms are words created from the initial letters of several words. Typical examples are NATO, FBI, CIA, UN, UNICEF, FAQ, WYSIWYG, *radar*, *laser*.
- Sometimes acronyms are actually created first to match a word that already exists in the language, e.g., MADD (Mothers against Drunk Drivers).

Back-formation

- Back-formation of words results when a word is formed from another word by taking off what looks like a typical affix in the language.
- For example, one of the very productive derivational morphemes in English is *-er*, which may be added to a verb to create a noun meaning “a person who performs the action of the verb”, e.g. *teacher*, *writer*.

Back-formation

- Sometimes, however, the reverse happens: A noun ending with an *-er* enters the language first and then a verb is “back-formed” from it by taking off the “*er*”.
- This was the case with the verb *edit*, which entered English as a back-formation from *editor*.
- Same applies to the pairs *television-televise*, *self-destruction-self-destruct*, *donation-donate*.

Clipping

- Another process of word-formation is clipping, which is the shortening of a longer word. Clipping in English gave rise to words such as *fax* from *facsimile*, *gym* from *gymnasium*, and *lab* from *laboratory*.

Blending

- Blending is another way of combining two words to form a new word. The difference between blending and compounding, however, is that in blending only parts of the words, not the whole words, are combined. Here’s a couple of examples:
smoke + fog → smog
motor + hotel → motel
information + commercial → infomercial

Eponyms

- Eponyms are words derived from proper names, e.g., “sandwich” from the Earl of Sandwich; “lynch” after William Lynch.

Morphological typology

How do languages differ in their word structure?

Synthesis: How many morphemes does your language have per word?

- One aspect of morphological variation has to do with *synthesis*: Some languages may choose to “stack” morphemes on top of one another within words; others may elect to use at most one morpheme per word, and many others will fall somewhere between these two extremes.
- Let us start by comparing Yay to Oneida (examples cited in Whaley 1997:127):

Synthesis: How many morphemes does your language have per word?

Yay:

- a. mi ran tua ŋwa lew
not see CLASS snake CMPLT
“He did not see the snake.”

Oneida:

- b. yo-nuhs-a-tho:lé:
3NEUT.PAT-room-epenthetic-be.cold.STAT
“The room is cold.”

Morphological typology: Index of synthesis

- On the so-called *index of synthesis* for morphological typology (Comrie 1989), understood as a continuum, Yay is considered an *isolating* language, whereas Oneida would be closer to the *synthetic* end of the scale, with English closer to the Yay-end than to the Oneida-end:

Isolating <-x-----x-----x-->**Synthetic**
Yay English Oneida

Morphological typology: Index of synthesis

- Some languages take synthesis to the extreme, though, marking all grammatical relationships on the verb with extensive affixation, thereby creating *long and complex words* that would correspond to whole sentences in languages like English, as the case is in Tiwa (example from Whaley 1997:131):
men-mukhin-tuwi-ban
Dual-hat-buy-PAST
“You two bought a hat.”

How grammatical functions are realized?

- Another 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 | Japanese |
| | John- SU Mary- OB hit | |
| | “John hit Mary.” | |
| b. | Sak Uwári shako -núhwe’s | Mohawk |
| | Sak Uwari he/her-likes | |
| | “Sak likes Uwari.” | |
| c. | Sak Uwári ruwa -núhwe’s | Mohawk |
| | Sak Uwari she/him-likes | |
| | “Uwari likes Sak.” | |

Case and agreement systems (aka alignment systems)

Case and agreement systems: Japanese

- Consider the following sentence from Japanese, for example:
John-**ga** Mary-**ni** hon-**o** yatta
John-**SU** Mary-**IOB** book-**DOB** gave
“John gave Mary a book.”
- So, what do we notice here?
- Nouns inflect for *case*: subjects appear with *nominative* case; direct objects appear with *accusative* case; and indirect objects appear with *dative* case.

Case and agreement systems: 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.”

Case and agreement systems: 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”):

Case and agreement systems: 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** tikissimanngilaq
book-CM hasn't come
“A book hasn't come yet.”
- What do we notice here?

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 “*absolute*,” 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 “*ergative-absolute*” languages.

Animacy, definiteness, gender and classifier systems

Animacy effects on agreement

- The animacy of a nominal may have effects on the morphology and syntax of a language.
- For example, in Tangut (Tibeto-Burman: extinct), verb agreement operates according to the following hierarchy:

1st person > 2nd person > other

ni tin nga in ldiə thi-**nga** ku that tsɪ viəthri-**na**
2s if 1s ACC indeed chase-1 then 3s also chase-2
“If indeed you are chasing me, then chase her too.”

Animacy effects on word order

- Also, word order can be sensitive to animacy in some languages. For example, in Sesotho (Bantu), more animate NP objects have to precede less animate NP objects:
 - a. ke-phehétesé ngoaná lijó
1s-cooked child food
“I cooked the child food.”
 - b. *ke-phehétesé lijó ngoaná
1s-cooked food child
Intended meaning: “I cooked food to the child.”

Animacy effects on Case

- Animacy may also affect case marking. In Malayalam (Dravidian) animate objects take accusative case, but inanimate objects take nominative.
 - a. awal awane kantu
she-nom him-acc saw
“She saw him”
 - b. awal pustakan kantu
she-nom book-nom saw
“She saw the book.”

Definiteness: Swahili agreement

- a. Juma a-na-*wa*-penda watoto (agreement "wa" with animate object)
 Juma he-likes-them children
 "Juma likes children./Juma likes the children."
- b. Juma a-li-*li*-kamata gitara (agreement "li" with inanimate, definite object)
 Juma he-grabbed-it guitar
 "Juma grabbed the guitar."
- c. Juma a-li-kamata gitara (no agreement with indefinite, inanimate object)
 Juma he-grabbed guitar
 "Juma grabbed a guitar."

Definiteness: Hebrew *et-* marking

- Hebrew shows a similar effect with regard to *et-* marking:
 - a. ha-ish koteb dahar
 the-man write word
 "The man is writing a word."
 - b. ha-ish shomer **et**-ha-torah
 the-man observe def-the-law
 "The man is observing the law."

Gender

- Languages may show gender marking on nouns and pronouns, as in many Indo-European languages.
- But some languages also show verb agreement in gender as well, e.g., Russian:
babuška čitala (= Grandmother was reading.)
čelovek čital (= The man was reading.)

Classifier systems

- Some languages, notably the Bantu family, utilize a classifier system whereby each noun is assigned to a class and as such takes certain morphology in the singular and plural. Verbs and adjectives will also show classifier agreement.
- A list of classifiers in Swahili is given on the next slide.

Class number	Prefix	Typical meaning
1	<i>m-, mw-, mbi-</i>	singular: persons
2	<i>wi-, w-</i>	plural: persons (a plural counterpart of class 1)
3	<i>m-, mw-, mbi-</i>	singular: plants
4	<i>mi-, mv-</i>	plural: plants (a plural counterpart of class 3)
5	<i>ji-, ji-, Ō-</i>	singular: fruits
6	<i>ma-, m-</i>	plural: fruits (a plural counterpart of class 5, 9, 11, seldom 1)
7	<i>ki-, ki-</i>	singular: things
8	<i>vi-, vi-</i>	plural: things (a plural counterpart of class 7)
9	<i>ni-, ni-, m-, Ō-</i>	singular: animals, things
10	<i>ni-, ni-, m-, Ō-</i>	plural: animals, things (a plural counterpart of class 9 and 11)
11	<i>ni-, w-, mbi-</i>	singular: no clear semantics
15	<i>ku-, ku-</i>	verbal nouns
16	<i>pa-</i>	locative meanings: close to something
17	<i>ku-</i>	indefinite locative or directive meaning
18	<i>mu-, m-</i>	locative meanings: inside something

Next class agenda

- Morphology: Verbal categories.
- Introduction to Syntax: Chapter 5.

Abbreviations used on the slides

- CLASS = classifier
- CMLT = complete
- NEUT = neuter
- PAT = patient
- STAT = stative
- SU = subject marker; DOB = direct object marker; IOB = indirect object marker
- REAL = realis; IRR = irrealis
- CM = case marker

References

- Baker, M. 2001. *The atoms of language*. New York: Basic Books.
- Comrie, Bernard. 1989. *Language universals and linguistic typology*. 2nd edition. Chicago: University of Chicago.
- Whaley, L. 1997. *Introduction to typology: The unity and diversity of language*. Sage Publications.