

# LINGUISTICS 105:

## Morphology



October 1, 2012:  
Basic allomorphy and morphological practice

# Administrations

- **For Today:** *Language Files*, ch. 4
- Sections start tomorrow – go to them!
- **For Monday:**
  - Perlmutter (1988): The Split Morphology Hypothesis: Evidence from Yiddish
  - HW 1 – Esperanto

# Can't Get Enough Matt?

- Right after the course, I am giving a talk at a conference in Brussels (Belgium).
- S-Circle: Fridays, 4:30pm - ??, Location varies.
  - Papers in {syntax, semantics}
- My paper: *Person-Case Interaction Effects in Semitic and the Role of Morphology in Syntax*.
- Short version: why you gotta se lo when you wanna le lo, except in Arabic and Maltese.
  - \*Le lo dio a mi hermano —————> Se lo dio a mi hermano  
“He gave it to my brother”
- Friday 30 November 2012, Location TBA



# Interlinear Glossing

*Schema:*

(#)                      Source data in IPA  
Morpheme-by-morpheme gloss  
“Translation”

(1)    θɪs    ɪz    æn    ɪŋɡlɪʃ    ɡlɔs-t    sɛntɪnz.  
      this is an English gloss-PAST sentence  
      “This is an English glossed sentence.”

# Interlinear Glossing, II

(2)    nou    me            gusta    nađa    la            espinaka.  
      NEG 1.SG.DAT like.3.SG nothing the.FEM spinach  
      “I don’t like spinach at all.”

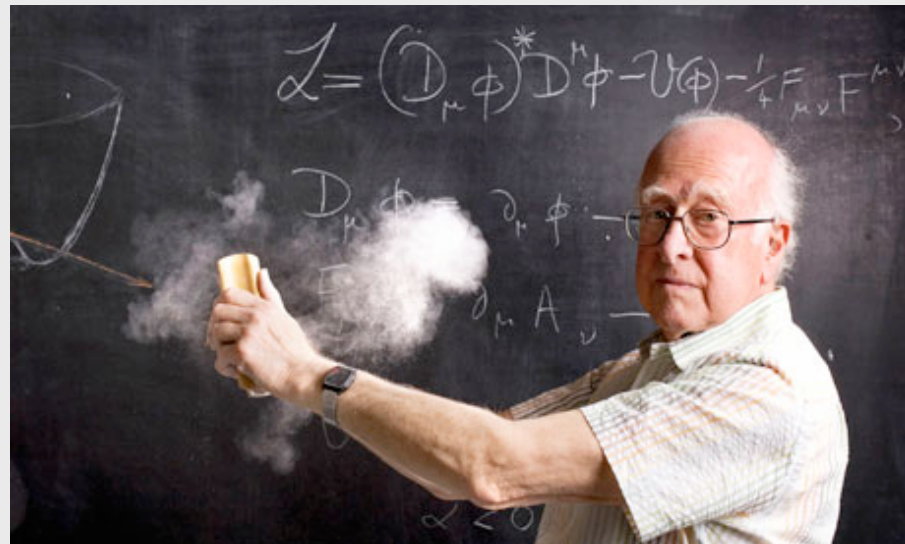
(3)    al-muħaabaraat    yi-hraq-uun            baant<sup>f</sup>aaluun=ii  
      the-secret.police 3.SG-burn.PRES-PL pants=1.SG.POSS  
      “The secret police are burning my pants.”

# Interlinear Glossing, III

- *Always provide interlinear glosses for languages other than the language the paper is in (i.e., English).*
- Some glossing connectives:
  - - morpheme boundary  
/boɪ-z/    /pɹʊd-ɪʃ-nɛss/
  - = clitic boundary (later this month)  
/kʊd=ɪnt/    /aɪtʃɛr=z/
  - . logical boundary not in example text  
/muħaabaraat/    /la/  
secret.police    DEF.FEM
- Leipzig Glossing Rules

# Morphemes

Easier to find than the Higgs Boson



# Proving A Morpheme Exists

- MORPHEME =<sub>def</sub> the smallest unit of indivisible sound and meaning in a given language.
- But morphemes aren't givens; we must *prove* that positing one helps us understand a language.
- Morphemes are ABSTRACT elements posited by the analyst.
- Concrete version of a morpheme: MORPH.
- This relationship should sound familiar:

MORPH:MORPHEME :: PHONE:PHONEME

- Process for finding a morpheme:
  1. ISOLATE recurring morphs and recurring meaning.
  2. MATCH recurring morphs to recurring meanings.



# Practice: Find the Morphemes, I

List all morphs and morphemes:

- (1) I parked the airboat.
- (2) We parked the airboats.
- (3) I park the airboat.
- (4) He parks the airboats.
- (5) She parked the airboat.
- (6) She parks the airboats.
- (7) We park the airboat.
- (8) He parked the airboat.

# Practice, II

(Lu)ganda [-TONE] (Bantu; Uganda)

(1) tulilaba kitabo

“we will see a book”

(2) tuligula katabo

“we will buy a little book”

(3) baalaba bitabo

“they saw books”

(4) tulilaba butabo

“we will see little books”

(5) balilaba kitabo

“they will see a book”

(6) tulilaba bitabo

“we will see books”

(7) baligula bitabo

“they will buy books”

(8) baligula bitabo

“they bought a little book”

# Answers, Luganda

Nouns
-tabo “book”

Tense Marking	
-li- FUTURE	-a- PAST

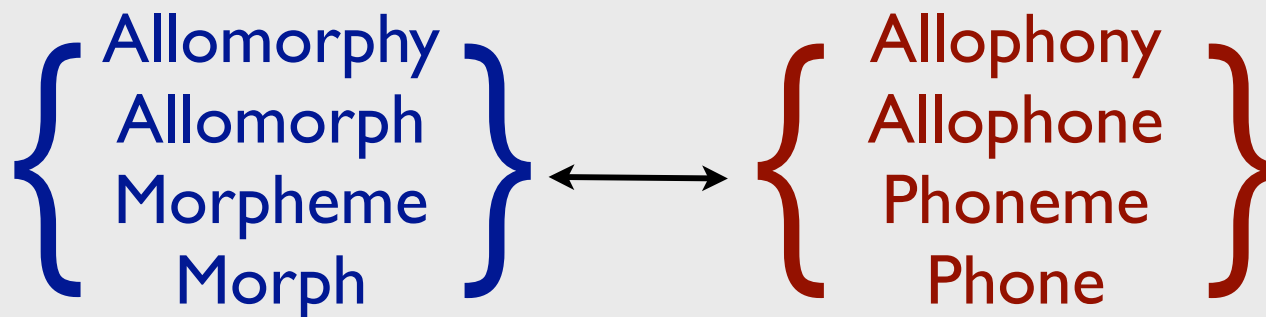
Pronominal Agreement	
tu- “we”	ba- “they”

Verbs	
-laba “see”	-gula “buy”

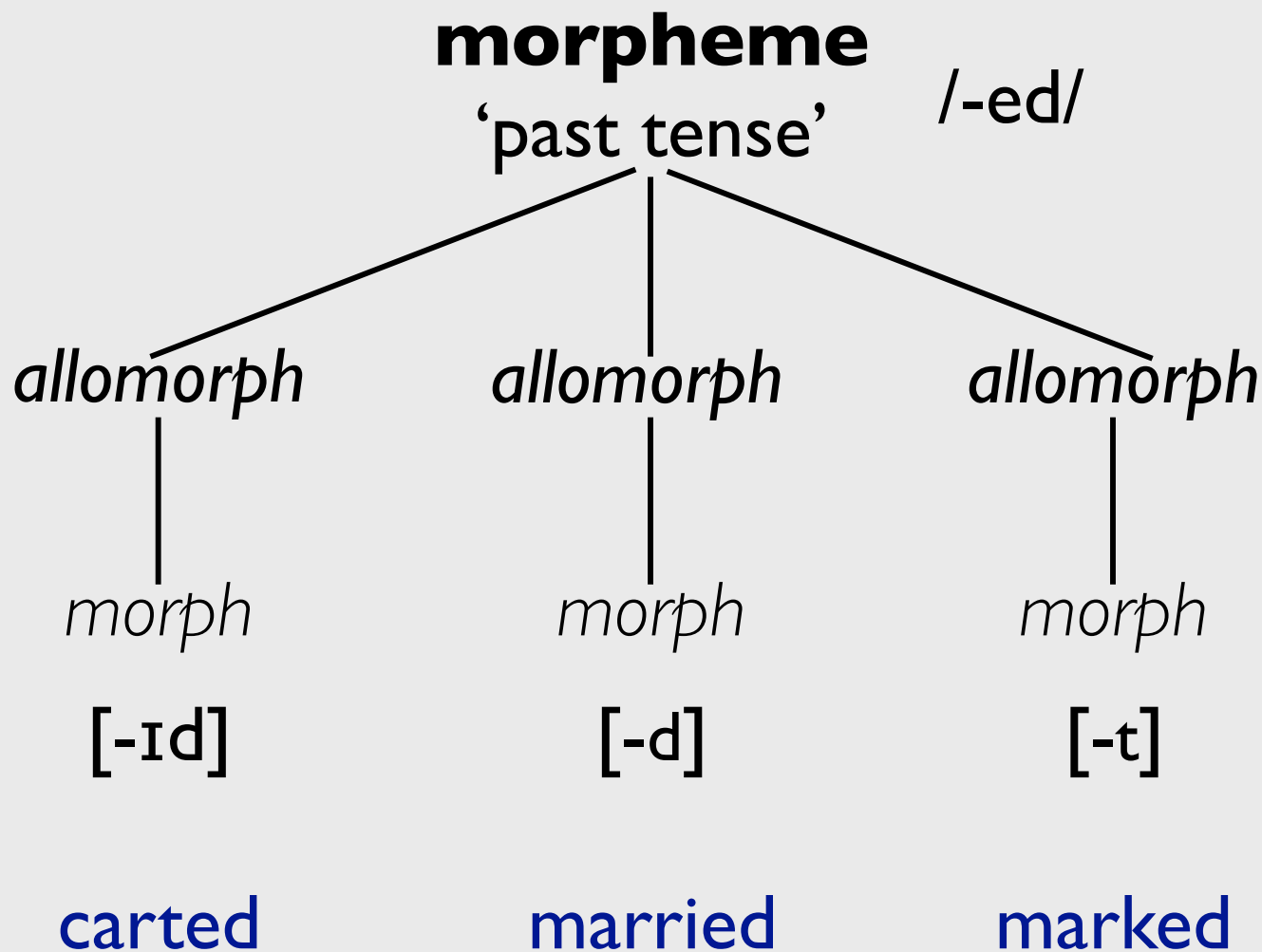
Noun Class	SG	PL
Normal Size	ki-	bi-
Small Size	ka-	bu-

# Allomorphy

- The parallels between phonology and morphology don't stop there!
- Morphemes also have ALLOMORPHS =<sub>def</sub> different morphs of the same morpheme conditioned by some *regular* rule.



# A Simple Example



# Allomorphy, II

- There are three main kinds of allomorphy, *based upon what the regular condition is* that determines allomorph selection.
- Proper vocab: \_\_\_\_\_ CONDITIONED ALLOMORPHY
  - **PHONOLOGICALLY**: allomorph selection conditioned by surrounding phones (only!).
  - **GRAMMATICALLY**: allomorph selection conditioned by surrounding morphs.
    - Also sometimes called **CONTEXTUAL ALLOMORPHY**.

# Phonologically Conditioned Allomorphy

The condition is *phonological only*.

## Korean Nominative Suffix

ALLOMORPH	ENV.	EXAMPLE	GLOSS
-i	/C__	pap-i	“rice”
-ka	/V__	ai-ka	“child”

## English Plural Marker

ALLOMORPH	ENV.	EXAMPLE	
-s	/[-voi]__	stacks	
-z	/[+voi,-cont]__	birds	
-IZ	/[+cont]__	bushes	(Embick, 2001)

# Grammatically Conditioned Allomorphy

The condition is *the presence of a grammatical element*.

**Question:** What governs the choice of the following English past tense allomorphs?

PRESENT	PAST	ALLOMORPH
walk	walked	[-t]
kiss	kissed	[-t]
grasp	grasped	[-t]
weep	wept	[-t] + V?
sweep	swept	[-t] + V?
shake	shook	V?
take	took	V?

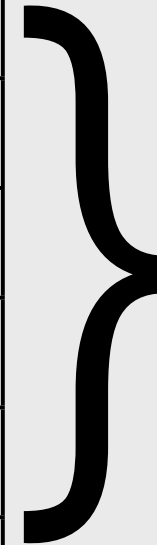


# Mixed Cases

- Not always the case that a given instance of allomorphy is totally analyzable as grammatically conditioned or phonologically conditioned.
- In this case, we're looking for the *best description of the empirical situation*.
- *Usually*, this involves positing some allomorphs which are grammatically conditioned and others which are phonologically conditioned.
- However, judicious use of phonological rules might make it possible to treat all the allomorphs as grammatically conditioned.

# English Plurals, Redux

SINGULAR	PLURAL	ALLOMORPH
airstream	airstreams	[-z]
dad	dads	[-z]
airboat	airboats	[-s]
bank	banks	[-s]
press	presses	[-IZ]
crèche	crèches	[-IZ]
ox	oxen	[-ɛn]
goose	geese	V?
alumnus	alumni	[-aɪ] + deletion
octopus	octopodes	[-oʊdeɪs] + del.



Phonologically  
Conditioned



Grammatically  
Conditioned

# Morphology and Syntax: Timing

- So far, we have not discussed the relationship between all this morphology and the syntax you already know.
- **Tell me:** how did you deal with morphology in your syntax class?
  - Form rules are a good way to relate syntactic structure to morphological form which is determined *by* syntactic structure.
- Another answer to the English plurals problem is based on this observation:
  - *Idea:* make *all* the allomorphy grammatically conditioned, and deal with the s/z/Is in the phonology.

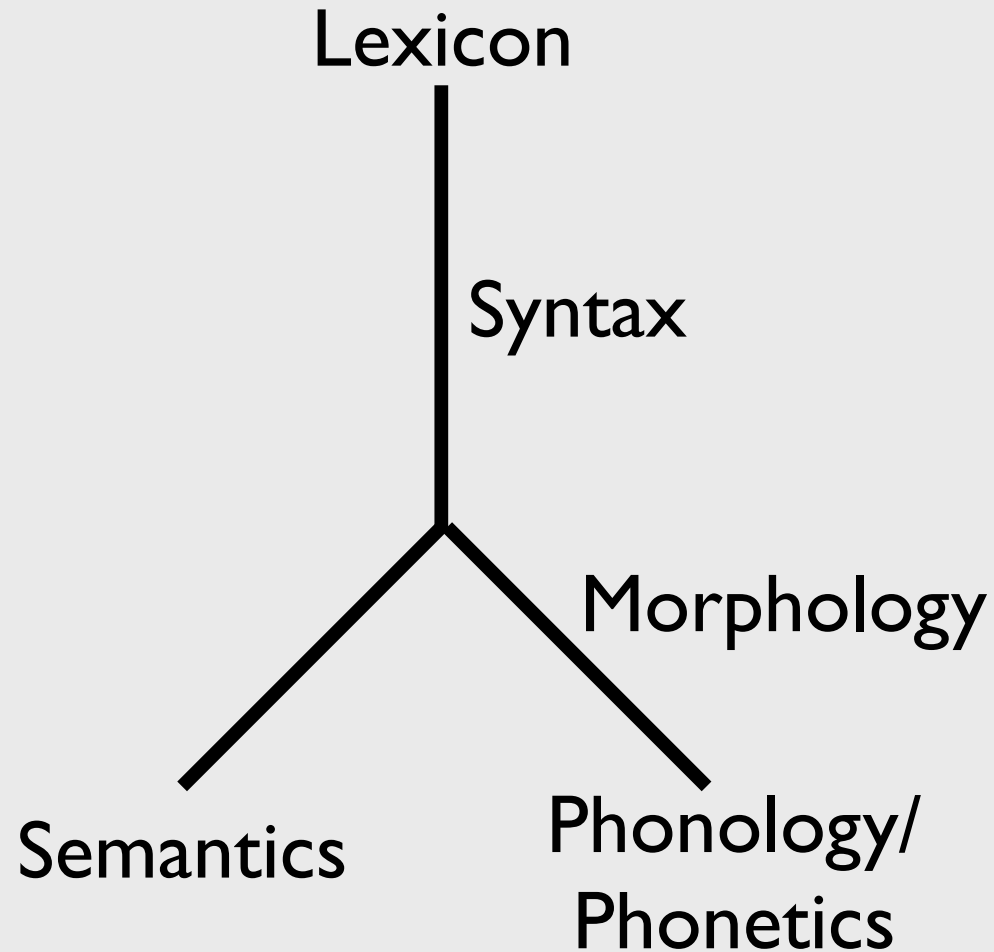
# A Modular Solution

ALLOMORPH	CONDITION
[-z/-s/-ɪz]	airstream, airboat, crèche, ...
[-en]	ox, child, ...
[-aɪ]	alumnus, ...
[-∅]	goose, fish, ...
[-oʊdeɪs]	octopus, ...

/-z/ → [-voice]/[-voice]\_\_\_\_

/-z/ → [+cont]/[+cont]\_\_\_\_

# The Y-Model



# For Wednesday

- GO TO SECTION.
- Finish *Language Files* ch. 4 if you have not already.
- Begin looking at HW 1.