LINGUISTICS 321 *Phonology*

LECTURE #1

Review: Part I. Phonological Processes (Supplement, Part 1)

A. ASSIMILATION

The influence of one segment upon another so that the sounds become more alike or identical.

1. Consonant assimilates vowel features

Brazilian Portuguese:

given
godmother
modern
united
guard
money
hatred
green
truth
big

Palatalization of the alveolar stop before [i].

Russian:

stol	table	stol ^j e	Loc.Sg.
vkus	taste (N)	vkus ^j en	tasty
dar	gift	dar ^j it	to give
dom	house	dom ^j isko	cottage
bomba	bomb	bomb ^j it	to bomb

Palatalization of consonants before front vowels.

Nupe (a West African language):

eg^ji *child* eg^wu *mud* eg^je *beer* eg^wo *grass*

Palatalization of consonants before front vowels; labialization before rounded vowels.

2. Vowel assimilates consonant features

Russian:

εtat this (Masc.)

sest pole

era era

zest gesture

jel^j fir-tree

jes^jt^j there is

dv^jer^j door

d^jen^j day

The vowel $[\varepsilon]$ is *raised* before palatalized consonants.

English:

see [i] seen [i]

cat [x] can't [x]

Nasalization: the vowels are nasalized when adjacent to a nasal consonant in the same syllable.

Chatino (spoken in Mexico):

tijé?	lime	tịhí	hard
kinó	sandal	kisú	avocado
suwí	clean	sų?wá	you send
la?á	side	ta [?] á	fiesta
ngutá	seed	kutá	you will give
kít	fire	kitá	you will wait

Unstressed vowels become *voiceless* between voiceless consonants.

3. Consonant assimilates consonant features

English:

emphasis invisible independent infant input imbalance uncle inconceivable

The nasal consonant becomes *homorganic* with the following consonant.

Yoruba (spoken in West Africa):

ba	hide	mba	is hiding
fɔ	break		is breaking
tε	spread		is spreading
sun	sleep	nsun	is sleeping
kɔ	write		is writing
wa	come	ŋwa	is coming

The nasal consonant becomes *homorganic* with the following consonant.

English:

cups	[s]	cubs	[z]
raced	[t]	raised	[d]
back <u>s</u>	[s]	bags	[z]
backed	[t]	bagged	[d]

The endings for the Plural, the third person singular and the past tense agree in voicing with the preceding consonant.

4. Vowel assimilates vowel features

Hungarian:

Dat.

kert	garden	kertnek
fal	wall	falnak
ember	man	embernek
vi:z	water	vi:znek
kønv	book	kønvnek
astal	table	astalnak

Vowel Harmony: the vowel in the suffix agrees in backness with the stem vowel.

Turkish:

di∫	tooth	di∫im	my tooth
ev	house	evim	my house
gönül	heart	gönülüm	my heart
göz	eye	gözüm	my eye
ba∫	head	ba∫ i m	my head
kol	arm	kolum	my arm

Vowel Harmony: the vowel in the suffix agrees in backness and roundness with the stem vowel.

Past Part

Icelandic:

Infinitive

IIIIIIIIIVC	r ast r art.	
taka draga	tekin dregin	take drag
vaksa	veksin ekin	grow drive
aka vaða	veðin	wade
gefa vega	gefin vegin	give lift
vega	vegiii	ııjı

Umlaut: back vowels are fronted before certain suffixes containing a front vowel.

German:

Gast	guest	Gäste	guests
Rat	advice	Räte	advices
Jahr	year	järlich	annual
gut	good	gütig	kind
Not	need	nötig	necessary

Umlaut: back vowels are fronted before certain suffixes containing a front vowel.

Old English:

foot/feet goose/geese mouse/mice

Umlaut was productive in Old English.

Assimilation may be:

- (i) progressive (left-to-right) e.g., plot [] cry []
- (ii) regressive (right-to-left e.g., bean [i]

Vowel Harmony: A type of progressive assimilation, in which the first vowel in a sequence constitutes the conditioning factor for subsequent vowels.

Umlaut: Change in the quality of a vowel due to the anticipated influence of a subsequent vowel.

B. DISSIMILATION

Dissimilation is a phonological process in which two segments become less similar to each other.

Slovak:

Masc. Fem. Neuter

cruel kruti: kruta: krute: slovenske: slovenski: slovenska: Slovak l^ju:ti l^ju:ta l^ju:te merciless zat^jati: zat^jata: zat^jate: stubborn druhi: druha: druhe: other tata:rski tata:rska tata:rske **Tartar** ri:3i ri:ʒa ri:ze genuine

Dissimilation in vowel length: Explain!

Latin → English

peregrinus pilgrim purpur purple

Dissimilation – a sequence of [r] sounds becomes a sequence of [l] and [r].

English:

fifth $[f\theta s] \rightarrow [fts]$

Dissimilation: a sequence of three fricatives becomes fricative/stop/fricative.

C. DELETIONS AND INSERTIONS: Syllable Structure Processes

They result in a simpler syllable or, the preferred syllable structure: CV

1. Deletions

Tibetan:

ten one **d**zugdzig eleven four dzubsi. fourteen ∫ibdzu forty nine dzurgu nineteen gubazu ninety five ď̄zuŋa fifteen ηabdzu fifty

Word-initial consonant clusters are simplified by deleting the first consonant.

French:

petit ami [pətit ami] petit tabloux [pəti tablo] nos amis [noz ami] nos tableaux [no tablo]

A word-final consonant is dropped if the following word begins with a consonant.

le garçon [lə garsõ] l'ami [lami] la fille [la fij] l'arbre [larbr]

The vowel of the definite article is deleted if the following word starts with a vowel.

2. Insertions (=epenthesis)

Hypothetical language:

Gen.Sg.

dubok	dubokut	glass
sanut	sanutut	$\bar{b}oy$
depe	depet	flower
soldi	soldit	place
kopis	kopisut	hat
siru	sirut	toy
wokub	wokubut	sun

The vowel [u] is inserted to break up a consonant cluster.

Hanunoo (spoken in the Philippines):

[?] upat	four	[?] upati	make it four
[?] unum	six	[?] unumi	make it six
[?] usa	one	[?] usahi	make it one
tulu	three	tuluhi	make it three

The consonant [h] is inserted to break up a vowel cluster.

Latin:

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patris father (Gen.) pater (Nom.)
agri field (Gen.) ager (Nom.)
libri book (Gen.) liber (Nom.)
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The vowel [e] is inserted to break up word-final consonant clusters.

English:

central, centre cyclic, cycle

A schwa is inserted to break up word-final consonant clusters.

D. LENITIONS (=weakening) and FORTITIONS (=strengthening)

1. Lenitions

Southeast Ambrym (a Malayo-Polynesian language):

Poss	So	3
1 033	.ഗള	

hil	hilin	hair
vaŋ	vaŋen	belly
luh	luhon	tooth
asou	asoun	wife
he	hen	land

Apocope: deletion of the word-final vowel.

Saami (a Finno-Ugric language):

Loc. /-st/

miäccest miäcc forest koadest koad tent

Apocope: deletion of the word-final vowel.

Hypothetical language:

Plural

serati	sertimt	wall
varude	vardemt	cloth
filatu	filtumt	key
gete	getemt	cherry
fuka	fukamt	name
sipeto	siptomt	knee

Syncope: a word-internal vowel is deleted.

Latin \rightarrow French

populus peuple *people* tabula table *table*

Syncope: a word-internal vowel is deleted.

English:

chocolate, nursery, etc.

Syncope: a word-internal vowel is deleted.

Apocope:	The loss of a final unstressed vowel weak position!
Syncope:	A vowel is deleted word-internally when it occupies a
	weak position (=unstressed).

Maltese:

Sg.3.	P1.3.
55.5.	11.5.

kien	kienu	was
sa:m	saːmu	fasted
die?	die?u	tasted
za:r	zaːru	visited
bies	biesu	kissed
mes	messu	touched
d zar	dzarru	carry
sen	sennu	sharpen
hak	hakku	scratch
∫a?	∫a ^{??} u	crack

Consonant weakening: long consonant become short word-finally – weak position!

2. Fortitions

Hypothetical language:

Acc.

leimanid	man
e ^l latad	tree
leiruhid	bread
o ^l gitud	foot
loudalid	chair
loubutad	bug
	e ^l latad ^l eiruhid o ^l gitud ^l oudalid

Diphthongization: first-syllabic stressed vowels diphthongize.

Latin → Italian bona buona *good* (Fem.) nova nuova *new* (Fem.)

Diphthongization: the short vowel in Latin becomes a diphthong in Italian.

Diphthongization: Stressed vowels and tense vowels are strong vowels; they frequently diphthongize – *fortition* (strengthening process).

E. COALESCENCE

Two adjacent segments are replaced by a single one which shares features of the two original ones.

1. Consonant coalescence

Korean:

nak fall hwa flower nak wa
fallen flower
kup bend hita (Caus.) kup ita
to bend
noh to lay ta (verb ending) not a
to lay eggs

When a stop and [h] are adjacent, they are replaced by an aspirated stop.

2. Vowel coalesce

Latin → Spanish

aidificium → edificio building
causa → cosa thing
paupere → pobre poor

ai, au become [e] and [o] -- the resulting vowel has the same value for backness and roundness as the original high vowel.

3. Coalescence of vowel and consonant

French:

[plɛnə] full (Fem.) [plɛ̃] (Masc.) [tɔnalite] tonality [tõ] tone

A vowel and a nasal consonant becomes a nasal vowel when the consonant is word-final.

F. METATHESIS

Two segments may interchange.

Hebrew:

kabel to acceptlehit-kabelto be acceptedpater to firelehit-paterto resignsames to use forlehis-tamesto usesader to arrangelehis-taderto arrange oneself

Metathesis: s and t interchange when adjacent.

Hypothetical language:

semre *hut* sermes difni *bed* dinfis kabru *cup* karbus vepto *box* vetpos

Metathesis: Word-internal consonants interchange.
