SPEECH COMMUNICATION 6.541J-24.968J-HST710J Spring 2004

Problem Set 7

Assigned: 04/13/04 Due: 04/22/04

Problem 1

Listed below is a set of verbs, together with the past tense and the 3rd person singular for each verb. State the rule or rules that are needed to derive (a) the pronunciation of the past tense from the stem verb, and (b) the pronunciation of the 3rd person singular from the stem verb. The rules should be stated in terms of the features of the segments. (Assume that [voice] is a feature for obstruent consonants.) Simplicity is desirable, i.e., use a minimum set of rules.

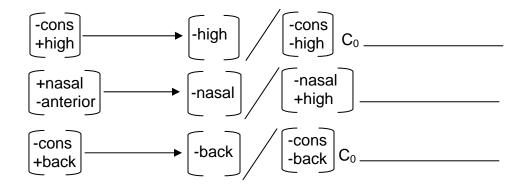
<u>past tense</u>	<u>3rd person singular</u>
wanted	wants
passed	passes
preached	preaches
played	plays
laughed	laughs
breathed	breathes
rinsed	rinses
raided	raids
lagged	lags
wished	wishes
pleased	pleases
	wanted passed preached played laughed breathed rinsed raided lagged wished

Problem 2

The following forms (given as phonetic transcriptions) occur in the language Chamorro. The base form is given in the left column in each case, and the modification of this form when it is preceded by various morphemes is given at the right.

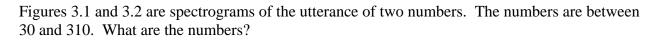
preceding morpheme					
gumə	'house'	i	gimə	'the house'	
Tomu	'knee'	i	temu	'the knee'	
Lahi	'male'	i	læhi	'the male'	
tunu	'to know'	en	tinu	'you know'	
hulu	'up'	sæn	hilu	'upward'	
otdut	'ant'	mi	etdut	'lots of ants'	
oksu	'hill'	gi	eksu	'at the hill'	
lagu	'north'	sæn	lægu	'toward the north'	

Which, if any, of the following rules applies to these alternations?



Note: Example of how to read this notation: The first line says: A [+high] vowel becomes [-high] just in case it occurs following a [-high] vowel, with any number of consonants (including none) intervening.

Problem 3



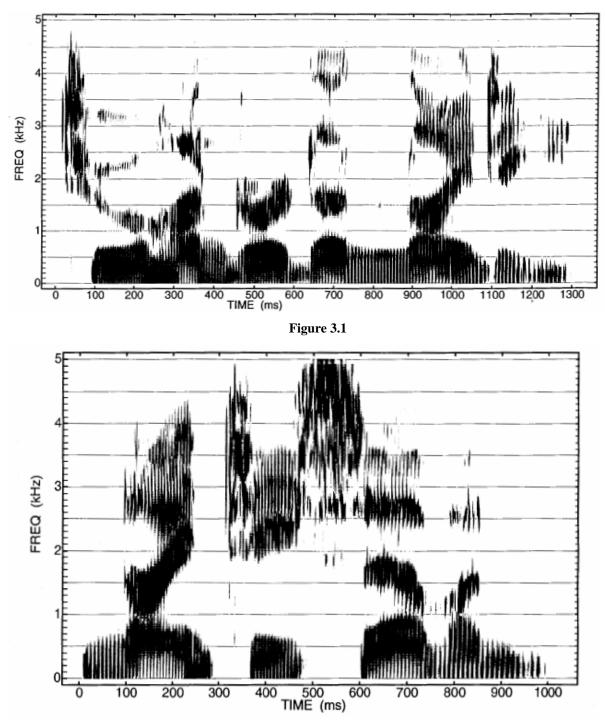


Figure 3.2