

## Allophone/phoneme Problems

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#### Muher (Semitic, spoken in Ethiopia)

la?	'surpass!'	ní?il	'uproot!'
k'ifif	'cut!'	lì?imu	'pick it!'
jìlə?mu	'he picks'	k'utt'a	'anger'
k'əmba	'chatter!'	k'al	'voice, word'
k'inəbbam	'he nicked'	fa?əm	'he scraped'
k'əmk'im	'sip alcohol!'	jìlək'mu	'he picks'
fì?ər	'be fat!'	məsk'əl	'cross'
jìnə?lu	'he uproots'	jəlk'əm	'let him pick'
tət'ənk'ə?	'be careful!'	k'una	'only one'
buk'e	'plant shoot'	bənk'e	'in what?'
ərk'iʃʃ'a	'kick'	bu?e	'plant shoot'
fìk'ər	'be fat!'	nìk'il	'uproot!'
lak'	'surpass!'	lìk'imu	'pick it!'
tət'ənk'ək'	'be careful!'	sank'a	'wooden door'
jìnək'lu	'he uproots'	fak'əm	'he scraped'

(data from Rose fieldnotes)

Analyze the distribution of [k'] and [?]

Determine their allophonic/phonemic status.

Give evidence to support your answer. Remember to include a rule/rules showing the environment if there are allophones.

### Ejaghem (Ekoid Bantu spoken in Nigeria and Cameroon)

a.	abən	'he broke'	i.	mbən	'I broke'
b.	aβən	'he danced'	j.	mbən	'I danced'
c.	abε	'he escaped'	k.	mbε	'I escaped'
d.	aβε	'he planted'	l.	mbε	'I planted'
e.	adi	'he ate'	m.	ndi	'I ate'
f.	ari	'he cried'	n.	ndi	'I cried'
g.	adaŋ	'he tried'	o.	ndaŋ	'I tried'
h.	araŋ	'he touched'	p.	ndaŋ	'I touched'

Determine the distribution of the sounds [b, β] and [d, r].

Are they allophones of the same phoneme or of different phonemes?

What phonological processes are occurring with the 'I Xed' forms?

## Tohono O'odham (Uto-Aztecán, spoken in Arizona)

a.	dʒihsk	'aunt'	n.	dɔ?a?k	'mountain'
b.	ʃu:lɪ	'corner'	o.	ʃuwa?gɪ	'clouds'
c.	wahʃum	'drown'	p.	taht	'foot'
d.	dʒuwuhkoh	'cut hair'	q.	?ahida?k	'year'
e.	tənɔm	'be thirsty'	r.	huhtahpsptʃu	'make it 5'
f.	hudʒwli	'self'	s.	ʃihkpən	'work'
g.	stahtənɔm:ah	'thirsty times'	t.	?i:də	'this'
h.	mudwudam	'runner'	u.	təhntɔ	'degenerate'
i.	tədsid	'frighten'	w.	ʃwəpəsid	'brand'
j.	gahtwɪ	'to shoot'	x.	ʃuhfʃɪ	'name'
k.	gu?wudtə	'get big'	y.	dʒumalɪ	'low'
l.	tobidk	'White Clay'	z.	wa?dʒiwih	'swim'
m.	spadmahkam	'lazy one'	aa.	dʒu:?w	'rabbits'

Identify the distribution of the set of sounds [t d] compared to [ʃ dʒ].

Are they allophones of the same phoneme or different phonemes? What is the evidence?

Draw a phoneme/allophone diagram to illustrate the distribution