

Class 12: More issues in process application: multisite optionality

0. Business

- Want to talk about Pohnpeian? (Thanks for the larger fonts!)
- Feedback on feedback
- **Kie: start recording**

1. Warm-up: Correspondence quiz

	saif	MAX-C	UNIFORMITY (DON'T FUSE)	MAX-V	ONSET
a.	sa.if				
b.	sa.i				
c.	sef				

Zoom
poll

- ? Which candidate violates MAX-C?
- ? Which candidate violates UNIFORMITY (DON'T FUSE)?
- ? Which candidate violates MAX-V?

? If we decided that any of the questions should be answered D, now fix the tableau so that there is enough information to answer.

Overview: What kinds of variation do we expect when there are multiple places/ways for an *optional* process to apply to a single form?

Cases taken from Kaplan 2011, Riggle & Wilson 2005, Vaux 2008. See those papers for various approaches to multi-site optionality.

2. Warao: global optionality

- Language isolate of Venezuela, Guyana, and Suriname
- 28,000 speakers (Herrman 2002).
- 2015 movie, *Dauna. Lo que lleva el rio (Gone with the River)*, was in Spanish and Warao



¹aldianews.com/articles/culture/film-television/two-oscar-entries-latin-america-center-indigenous-stories-languages

- Data from Osborn 1966.
- Little raw data, but Osborn is very definite about the generalization:

“/p/ has allophones [p b]. The voiced allophone [b] is heard more frequently than the voiceless [p] in most words. In every word, except for a few words noted below, alternation between [b] and [p] is presumably possible, since many alternations of this order have been heard. Thus in /paro+parera/ *weak*, both the initial and medial phoneme /p/ is heard as [b] generally, and as [p] infrequently. In words like the one cited, with two or more occurrences of /p/, **the allophones are consistently [b] or [p] for each utterance of the word.** If the first occurrence of /p/ in the word is [b], the following occurrence(s) will be [b]. If the first occurrence is [p], the following occurrence(s) will be [p]. The following are examples of words with two occurrences of /p/: poto+poto *soft*, apaupute *he will put them*, kapa+kapa *kind of banana.*” (p. 109)
- I.e., [paro-parera] ~ [baro-barera], but not *[paro-barera] or *[baro-parera].
- Also, for a non-reduplicative case, [hapisapa] ~ [habisaba] ‘other side’

? How might we try to capture this variation in OT? SPE?

/hapisapa/

p → b

hapisapa				
<i>a</i> hapisapa				
<i>b</i> hapisaba				
<i>c</i> habisapa				
<i>d</i> habisaba				



3. Another global case, from Kaplan 2012

- Eastern Andalusian metaphony (vowel harmony).
 - Variety of Spanish spoken in Southern Spain
- Word-final /s/ laxifies preceding V, then usually deletes

(on the face of it, that looks like counterbleeding, but Kaplan cites Jiménez & Lloret's analysis as reassociation of [spread glottis] from /s/ to V.)

spelling (assume reflects underlying /s/)		pronunciation	
<i>mes</i>		mé	'month'
<i>tos</i>		tó	'cough'
<i>mis</i>		mí	'my (pl.)'
<i>tus</i>		tó	'your (pl.)'

- Laxness spreads to preceding stressed V, if non-high:

<i>lejos</i>	lého	'far'
<i>tesis</i>	tési	'thesis'
- If other Vs intervene, they participate too, all-or-none:

<i>treboles</i>	tréβole ~ tréβole	'clovers'
<i>cómetelos</i>	kómetelo ~ kómetelo	'eat them (for you)!'
- Similarly, non-high Vs before the stress can laxify, all-or-none:

<i>cotillones</i>	kotizóne ~ kotizóne	'cotillions'
<i>monederos</i>	moneðéno ~ moneðéno	'purses'
- Finally, the pretonic Vs lax only if the post-tonic ones do:

<i>recógelos</i>	rekóhelo ~ rekóhelo ~ rekóhelo	'pick them'
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4. Local optionality—also hard to find good cases (besides French; see below)

- Vaux reports, for English *marketability*: (but see Derrick & Gick 2014: if you look at the phonetics, there’s a lot more to this):

[₁maɪkətʰəˈbɪlətʰi] ~ [₁maɪkərəˈbɪləri] ~ [₁maɪkətʰəˈbɪləri] ~ [₁maɪkərəˈbɪlətʰi]

- Can any of our ideas for SPE+variation get this? OT+variation ideas?

/₁maɪkətəˈbɪləti/

t → r / V (ɪ) — $\begin{bmatrix} V \\ \text{—stress} \end{bmatrix}$



	₁ maɪkətəˈbɪləti				
☞ a	₁ maɪkətʰəˈbɪlətʰi				
☞ b	₁ maɪkərəˈbɪləri				
☞ c	₁ maɪkətʰəˈbɪləri				
☞ d	₁ maɪkərəˈbɪlətʰi				

5. Vata: iterative optionality

- *Ethnologue* classifies as variety of Lakota Dida
- Kru (and therefore Niger-Congo) language of southern Côte d’Ivoire with 98,8000 speakers.
- Sorry, no good pictures ☹
- Data taken from Kaplan 2009; originally from Kaye 1982.

- The language has ATR harmony: [+ATR]: [i,u,e,o,ʌ] [-ATR]: [ɪ, ɔ, ε, ə, a]
- [+ATR] optionally spreads to the final syllable of a preceding word:
 /ò nɪ sáká pì/ → ò nɪ sáká pì ~ ò nɪ sáká pì ‘he didn’t cook rice’
 - - - - + → - - - - + ~ - - - + +

- If all the words are monosyllabic, this is potentially self-feeding. There are various options, all possible...

/ò ká zā pī/ → ò ká zā pī ~ ò ká zā pī ~ ò ká zā pī ~ ò ká zā pī ‘he will cook food’
 - - - + → - - - + ~ - - + + ~ - + + + ~ + + + +

? Can we get this one?

/- - - +/

[-ATR] → [+ATR] / __ # [+ATR]

----+				
<i>a</i> ----+				
<i>b</i> --++				
<i>c</i> -+++				
<i>d</i> ++++				

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6. Hypercorrection in Dominican Spanish: unique-target optionality

- Data from Bradley 2006. See also Núñez-Cedeño 1994, Bullock & Toribio 2010.
- /s/ typically absent in a syllable coda:

<i>Popular Dominican Spanish</i>	<i>Conservative Spanish</i>	
se.co	se.co	‘dry’
ca.so	ca.so	‘case’
e.tú.pi.do	es.tú.pi.do	‘stupid’
do	dos	‘two’ (p. 3)



- Hypercorrection can insert a coda [s]:²

<i>Hypercorrected</i>	<i>Conservative</i>	
in.vis.tado	in.vi.ta.do	‘guest’
co.mos	co.mo	‘like’
e.tús.pi.do	es.tú.pi.do	‘stupid’
de.des	des.de	‘since’ (p. 4)



- And there can be variation of where the [s] is inserted:

<i>Hypercorrected</i>	<i>Conservative</i>
as.bo.ga.do ~ a.bos.ga.do ~ a.bo.gasdo ~ a.bo.ga.dos	a.bo.ga.do ‘lawyer’ (p. 4)

- But, apparently there can only be one inserted s:³ *as.bo.ga.dos, etc.
- This claim is not really documented or discussed in the literature. Bradley cites personal communication with Núñez-Cedeño, the main describer of the phenomenon.

? Any ideas, for each theory?

² though not before an otherwise intervocalic tap or trill, which would be phonotactically illegal, and not if it would create a closed penult in a word with antepenultimate stress.

³ See p. 24 for discussion of an apparent counterexample given by Harris.

7. Optionality and self-bleeding: French schwa-deletion

Indo-European language from France and surroundings with 67.8 million speakers worldwide.

- There's a big literature on this; Dell 1970 is a good place to start, and next I'd recommend Kaplan 2016 and Bayles, Kaplan & Kaplan 2016.
- /ə/ optionally deletes, except when it would create a bad consonant cluster.

/suvəniʁ/	→	[suvəniʁ] ~ [suvniʁ]	'to remember'
/pasəʁa/	→	[pasəʁa] ~ [pasʁa]	'will pass'
/paʁvəniʁ/	→	[paʁvəniʁ] *[paʁvniʁ]	'to reach' ([ʁv] bad coda, [vn] bad onset)
/sufləʁa/	→	[sufləʁa] *[sufləʁa]	'will blow' ([VflʁV] unsyllabifiable)
/ãʁi dəvə paʁtiʁ/	→	[ãʁi dəvə paʁtiʁ] ~ [ãʁi dve paʁtiʁ]	'Henri had to go'
/ʒak dəvə paʁtiʁ/	→	[ʒak dəvə paʁtiʁ] *[ʒak dve paʁtiʁ]	'Jacques had to go' (*[kdv])

? What does basic SPE predict for this form (pretend the rule is obligatory): /ty dəvəne/ 'you were becoming'

? Actual result is (supposedly) [ty dəvəne] ~ [ty dvəne]⁴ ~ [ty dəvne], but *[ty dvne]—discuss.



8. If time—Anderson 1974's solution

- Find all segments eligible for the rule and circle them.
- For each circled segment, underline the smallest environment that lets the segment meet the rule's structural description.
- If the rule is optional, you may uncircle some of the eligible segments and de-underline their environments.
- If any circled segment is contained in some other circled segment's underlined environment, uncircle (and de-underline the environments of) as few segments as possible to get rid of these overlaps.
- Now apply the rule simultaneously to the remaining circled segments.

(Of course, circling and underlining themselves have no theoretical status—this is just a convenient way to say “identify targets and environments”)

⁴ Some speakers have said they don't like this one...

- ? What does Anderson's proposal predict for French /ty vudre kə sə kə lə bədo/⁵ 'you would like that what the beadle...?'

/ty vudre kə sə kə lə bədo/

- ? Does Anderson's proposal help with the non-optional cases we saw Klamath? Kikuyu?

- Recall Klamath: In /...q̣lq.../, deglottalization self-bleeds: [...q̣lq ...]
- Recall Southern Kikuyu: In /nekakaakeroma/, spirantization of /k/ when next consonant is a voiceless stop self-counterbleeds: [ney̠yaakeroma]

Next time: Process interaction—beyond (counter){f,bl}eeding

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⁵ I got this from an online appendix to David Odden's *Introducing Phonology* (2005: Cambridge UP): www.ling.ohio-state.edu/~odden/IntroducingPhonology/Theory%20Discussion.html

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