Assignment #4: Hakha Lai and process application

Due Oct. 28

Data from Hyman & VanBik¹

Directions

- Develop a <u>rule-based analysis</u> to account for the alternations in **tone**.
 - You can incorporate constraints as blockers or triggerers of rules if you like, or not—your choice.
- Discuss issues of *rule application* if there are any cases where your rule's structural description matches more than one part of the form that the rule's trying to apply to.
 - Does the rule apply simultaneously to all potential targets?
 - Left-to-right or right-to-left?
- If there are cases where a rule is applicable to its own output, discuss what happens
 - Does the rule apply iteratively or not?
- If any of your rules are actually rule schemata (containing abbreviatory conventions), and there are cases where more that one of the rules into which some schema expands could apply to a form, discuss what happens.
 - Do all the subrules apply simultaneously, or is there ordering?
 - If there's ordering, what's the order, and is it disjunctive or conjunctive?
- Make sure to **show all steps** in every derivation (e.g., show each iteration of a rule as a separate step).
- Depending on how you formulate your rules, you might not actually run into all of these issues—but I suspect/hope you'll run into at least some.
- <u>Don't develop a full OT analysis. But</u>, take two instances of the issues above and **discuss** how they would fare under an OT analysis.
 - For example, if one of your rules applies iteratively you could give a tableau for a relevant form to show that this is inevitable in the OT analysis.
 - Or, if one of your rules applies non-iteratively you could give a failed tableau for a relevant form to show that this *can't* be captured straightforwardly in an OT analysis. (If you have any ideas about how to capture it non-straightforwardly, go for it.)

Notes and tips

- The data in 1-50 contain all the information you need to formulate your rules and determine the underlying representations, so start there.
 - Then, 51-63 illustrate how those rules *apply* in more-complicated situations.
- The data here are restricted to "smooth" syllables (with one exception—see next point), which are syllables that have a long vowel or end in a sonorant consonant
 - Smooth syllables can bear only three tones in this language: low (à), rising (ǎ), and falling (â).
- The only non-smooth syllable shown is the morpheme *ka* 'my', which is toneless (its pitch is determined by its environment). You don't need to analyze this morpheme's (lack of) tone.
- You can use the features [high start] and [high finish], and treat them as properties of vowels:

vowel with low tone	à	[-hi start]	[-hi finish]
vowel with rising tone	ă	[–hi start]	[+hi finish]
vowel with falling tone	â	[+hi start]	[–hi finish]

¹ I can give you the bibliographic information after the assignment is due.

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Data		2
1. kâr	n	'our'
2. hm		'wound'
	hmâ:	'my wound'
4. zû:		'beer'
5. ka		'my beer'
6. lûŋ	1	'heart'
-	lûŋ	'my heart'
8. lâw	V	'field'
9. ka	lâw	'my field'
10. tlâ:	n	'mountain'
11. ka	tlâ:ŋ	'my mountain'
12. râ:l	1	'enemy'
13. ka	râ:l	'my enemy'
14. kê:		ʻleg'
15. ka		'my leg'
16. ?ô:		'voice'
17. ka	?ŏ:	'my voice'
18. hrô	òm	'throat'
19. ka	hrŏm	'my throat'
20. tsâl		'forehead'
21. ka		'my forehead'
22. kô:		'friend'
23. ka		'my friend'
24. thlá		'grave'
25. ka		'my grave'
26. tsâ:		'time'
27. ka		'my time'
28. zân		'night'
29. ka		'my night'
30. sà:		'animal'
31. ka		'my animal'
32. hnì		'skirt'
33. ka		'my skirt'
34. ràŋ	,	'horse'
35. ka	•	'my horse'
36. kàl		'kidney'
37. ka		'my kidney'
38. kò:		'corn'
39. ka		'my corn'
40. bòr		'bunch'
41. ka	bòːr	'my bunch'

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'my mountain beer'
'my mountain time'
'my mountain animal'
'my grave beer'
'my grave time'
'my grave animal'
'my corn beer'
'my corn time'
'my corn animal'
'my friend's horse'
'my friend's night horse'
'friend's night time'
'my friend's night time'
'my friend's night-time horse'
'night time'
'friend's throat'
'our mountain beer'
'enemy field time'
(prob. was supposed to be 'enemy field wound')
'my night-time friend'
'friend's wound'
'my friend's wound'
'my friend's leg wound'