

Assignment #4 Due: in class, Oct 7, 2008

This data set was put together by Kie Zuraw (UCLA) who was examining data from Richardson (1885)¹

Directions

- Account for the alternations in the verb paradigms below. This involves deciding on...
 - underlying forms for all the roots and affixes
 - rules
 - ordering of the rules
- Write up your analysis in prose form (like a short paper). Don't turn in your notes or scratchwork.
- For each rule, describe in prose what it does (in addition to writing it out in rule notation) and give it a brief, mnemonic name (e.g., "Rounding Harmony"). In your discussion and derivations, refer to the rule by its name, not by a number or abbreviation—this is much easier on the reader.
- The row numbers in the data below are for your convenience when you have group discussions. When talking about a form in your writeup, please write it out in full—don't just refer to a form by its row number or gloss.
- You can use [+stress] in writing your stress rule.
- Representative forms that you should be sure your analysis accounts for are in **bold**. (In future it will be up to you to notice the crucial types of form.) It's a good idea to do derivations for all those forms to make sure your solution works. But don't include all those derivations in your writeup—include whatever derivations are necessary to illustrate your solution.
- You don't have to account for why there are gaps in some of the paradigms.

¹Richardson, J. (1885). A New Malagasy-English Dictionary. Antananarivo: London Missionary Society.

- There are some rules here that call on rather unusual combinations of features. Therefore, you can use IPA symbols (instead of features) in your rules that affect consonants. Your rules that affect vowels should use features.
- Treat superscript consonants as belonging to the adjacent consonant. Thus, [ʰdʳ] is a single consonant. Don't worry about the feature values of such consonants—you will probably want to use IPA symbols in any rules that affect those consonants anyway.
- The order in which the data are presented is meant to be helpful. Try coming up with a solution for the first row, then modifying it once you run into a row that behaves differently, etc. For the first few rows, I recommend that you tackle stress in the roots and imperatives first, then consider stress in the passives. Then look for other alternations. Your write-up doesn't have to follow that order, though it can if you like.
- Remember the basics: each morpheme (whether root or affix) has a single, unchanging underlying representation, and the same rules apply in the same order in all derivations!

Notes

- Zuraw simplified the data by giving only roots and suffixes, omitting all prefixes. Don't try these forms on your next trip to Madagascar.
- In many dialects of Malagasy some of the vowels (and all of the [h]s) are deleted in normal speech, so if you hear Malagasy it might not sound much like the transcriptions.
- Acute accent marks main stress. (Secondary stress not marked.)
- Not all words in Malagasy start with [b]—Zuraw just relied heavily on that part of the dictionary!

Data

	<i>noun or adj.</i>	<i>passive1</i>	<i>passive2</i>	<i>passive imperative</i>	<i>active imperative</i>	<i>gloss of root</i>
1.	bábu	babúana	babúina	babúi	babúa	plunder
2.	bá ^ʰ gu	ba ^ʰ gúana	ba ^ʰ gúina	ba ^ʰ gúi	ba ^ʰ gúa	plait
3.	béku	bekúana	bekúina	bekúi	bekúa	foreign words
4.	bé ^ʰ gu	be ^ʰ gúana		be ^ʰ gúi	be ^ʰ gúa	curvature
5.	búdu	budúana		budúi	budúa	childish

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	<i>noun or adj.</i>	<i>passive1</i>	<i>passive2</i>	<i>passive imperative</i>	<i>active imperative</i>	<i>gloss of root</i>
6.	búhu		buhúina	buhúi		carry on back
7.	búri	buríana		burú	buría	shorn
8.	buláli	bulalíana		bulalíu	bulalía	slip
9.	bulídi	bulidíana		bulidíu	bulidía	concealment
10.	bú ^ɰ gu	bu ^ɰ gúana	bu ^ɰ gúina	bu ^ɰ gúi	bu ^ɰ gúa	nest
11.	bári	baríana	barína	baríu	baría	brilliant
12.	burúsi	burusíana	burusína	burusíu	burusía	brush
13.	báda	badána		badáu	badá	barren
14.	bá ^ɰ ga	ba ^ɰ gána	ba ^ɰ gáina	ba ^ɰ gáu	ba ^ɰ gá	gappy
15.	baréra	barerána		bareráu	barerá	freely flowing
16.	báta	batána	batáina	batáu	batá	lift
17.	béda	bedána		bedáu	bedá	seize
18.	béna	benána	benáina	benáu	bená	lift
19.	béta	betána	betáina	betáu	betá	lift
20.	bíka	bikána	bikáina	bikáu	biká	shape
21.	búba	bubána	bubáina	bubáu	bubá	cheap
22.	búda	budána	budáina	budáu	budá	soft
23.	búka	bukána	bukáina	bukáu	buká	exhausted
24.	bulíla	bulilána		buliláu	bulilá	evasion
25.	buréra	burerána	bureráina	bureráu	burerá	weak
26.	báka	bakána	bakáina	bakáu	baká	branching
27.	bála	balána		baláu	balá	ball
28.	báhana	bahánana		bahánu	bahána	straddle
29.	bá ⁿ zina	ba ⁿ zínana	ba ⁿ zínina	ba ⁿ zínu	ba ⁿ zína	stare
30.	búbana	bubánana	bubánina	bubánu	bubána	calumny
31.	bú ^{nt} sina	bu ^{nt} sínana	bu^{nt}sínina	bu ^{nt} sínu	bu ^{nt} sína	swollen
32.	burídana	buridánana		buridánu	buridána	going off in haste
33.	búruna	burúnana	burúnina	burúni	burúna	tapped out
34.	dúna	dúnana	dúnina	dúni	<i>dúna</i>	strike
35.	rúna	rúnana		rúni	<i>rúna</i>	leaning
36.	fúna	fúnana		fúni	<i>fúna</i>	
37.	vúna	vúnana		vúni	vúna	knot
38.	tána	tánana		tánu	<i>tána</i>	

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<i>noun or adj.</i>	<i>passive1</i>	<i>passive2</i>	<i>passive imperative</i>	<i>active imperative</i>	<i>gloss of root</i>
(There are many exceptions to the generalizations illustrated below, but treat the data as representative)					
39. bábuka	babúhana		babúhi	babúha	prostration
40. badiáka	badiáhana	badiáhina	badiáhu	badiáha	badly done
41. balíaka	baliáhana		baliáhu	baliáha	big-eyed
42. bébaka	bebáhana		bebáhu	bebáha	repentance
43. bélaka	beláhana		beláhu	beláha	full-faced
44. gúka	gúhana	gúhina	gúhi	gúha	guzzling
45. búhaka	buháfana	buháfina		buháfa	fastened
46. áluka	alúfana		alúfi	alúfa	shelter
47. lélaka	leláfana	leláfina	leláfu	leláfa	licking
48. véluna	velúmana	velúmina	velúmi	velúma	alive
49. á ⁿ d ^r ana	a ⁿ d ^r amana		a ⁿ d ^r ámu	a ⁿ d ^r áma	attempt
50. léna	lémana		lému	léma	moist
51. búhit^ra	buhírana	buhírina	buhíru	buhíra	convex
52. bulásit ^r a	bulasírana	bulasírina	bulasíru	bulasíra	slip
53. súrat^ra	surátana			suráta	writing
54. ávut ^r a	avútana		avúti	avúta	ransom
55. púrit ^r a	purítana	purítina	purítu	puríta	cramped
56. lumánu	lumanúsana	lumanúsina	lumanúsi	lumanúsa	swimming
57. kíkí	kikísana		kikísu	kikísa	gnawing
58. vúlu	vulúsana	vulúsina	vulúsi	vulúsa	hair, feathers
59. búhi	buhízana		buhízu	buhíza	inflated
60. fúí	fuízana	fuízina	fuízu	fuíza	hatched
61. válu	valúzana		valúzi	valúza	repentance
62. dí	dízana		dízu	díza	wild
63. fí	fízana		fízu	fíza	delicious
64. pí	pízana	pízina	pízu	píza	twinkle

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<i>noun or adj.</i>	<i>passive1</i>	<i>passive2</i>	<i>passive imperative</i>	<i>active imperative</i>	<i>gloss of root</i>
65. lálu	lalúvana		lalúvi	lalúva	gone
66. lá	lávana	lávina	lávú	láva	refusal
67. nía	niávana		niávú	niáva	resolve
68. lú	lúvana	lúvina	lúvi	lúva	rotten
(It is a coincidence caused by the part of the dictionary Zuraw was looking through that most of the remaining words begin with a vowel. It is not a coincidence that most of them have [e] in the first syllable, but you don't have to account for that fact.)					
69. bédi	bedésana	bedésina	bedésu	bedésa	tattle
70. réni		renésina	renésu	renésa	perceived
71. édika	edéhana		edéhu	edéha	conceited
					walking
72. télina	telémana	telémina	telému	teléma	pleasant
73. éfika	eféhana	eféhina	eféhu	eféha	shaking
74. éfit ^r a	eférana		eféru	eféra	separation
75. éli	elézana	elézina	elézu	eléza	scatter
76. véli	velézana	velézina	velézu	veléza	blow
77. é ^m bit ^r a	e ^m bérana	e ^m bérina	e ^m béru	e ^m béra	prevented
78. é ⁿ d ^r ika	e ⁿ d ^r éhana	e ⁿ d ^r éhina	e ⁿ d ^r éhu	e ⁿ d ^r éha	feature
79. é ⁿ d ^r ina	e ⁿ d ^r énana		e ⁿ d ^r énu	e ⁿ d ^r éna	lemur/clown
80. táⁿd^rina	taⁿd^rémana		ta ⁿ d ^r ému	ta ⁿ d ^r éma	remembered
81. téti	tetézana	tetézina	tetézu	tetéza	bridge
82. bédi	bedéna		bedéu	bedé	tattle
83. é ^l gi	e ^l géna		e ^l géu	e ^l gé	praise
84. éri	eréna		eréu	eré	conceal
85. éti	eténa		etéu	eté	narrow

- The passive imperative of #22 [budáu] has a variant [budái], but you can ignore that.
- Forms in italics (#34 - #36, #37) don't really exist, but pretend they do.