

Assignment #2: rules with constraints

based on Week 2's material

due Friday, Oct. 14 in hard copy to Kie's mailbox in Campbell 3125 (office closes at 5 PM)

Background and notes

- The data here are partial Korean verb paradigms, from Park 2012.
- The transcriptions stop several rules short of the actual pronunciations, so most of these words actually sound fairly different.

Instructions and tips

- Account for the data by proposing...
 - underlying forms for the roots and affixes
 - phonological rules
 - **constraints** that could be at work as triggers or blockers, which may allow you to simplify your rules
 - orderings of the rules, where necessary
- Write up your solution in prose
 - This doesn't mean what you turn in has to be long!
 - But it does mean that it should be comprehensible to someone who doesn't know anything about Korean and doesn't have this document.
 - Incorporate derivations of representative forms into the text as necessary to illustrate your analysis, and explain what they are supposed to show. Don't just give one giant table of derivations for the reader to puzzle through.
 - It's a good habit to give each rule a name rather than a number.
 - The example numbering is for your convenience when you meet to discuss the assignment. Don't use the numbers in your write-up (that is, don't make me go look up the item in this document!).
 - Make sure you **discuss how your constraints work**: which are triggers and which blockers? Are there cases where you have to prioritize rules, or prioritize constraints? Places where you have to add in some extra assumptions to get thing to work?

Tips/hints

- The double lines in the table group together roots that behave similarly
- I tried to arrange the affixes from easiest on the left to hardest on the right, so you might want to attack them in that order.
- You'll need one rule that picks out a set of vowels not easily described using features. You can just use { } and list the IPA symbols. For other rules, use features as much as possible.
- Don't forget that a root or affix has the **same underlying form every time**, and that each form is subject to the **same rules**, in the **same order**.
- Don't seek out additional Korean verb data; it will only make things harder. I carefully selected these items to avoid certain complications.

	dictionary form	'and V'	declarative I present	imp. III pres.	modifier pres.	mod. past	mod. future	gloss
1.	tʃʌkta	tʃʌkko	tʃʌkʌ	tʃʌkʌla	tʃʌknɪn	tʃʌkɪn	tʃʌkɪl	write
2.	mitta	mitko	mitʌ	mitʌla	mitnɪn	mitɪn	mitɪl	believe
3.	sumta	sumko	sumʌ	sumʌla	sumnɪn	sumɪn	sumɪl	hide
4.	sinta	sinko	sinʌ	sinʌla	sinnɪn	sinɪn	sinɪl	wear
5.	itʃta	itʃko	itʃʌ	itʃʌla	itʃnɪn	itʃɪn	itʃɪl	forget
6.	namta	namko	nama	namala	namnɪn	namɪn	namɪl	remain
7.	tatta	tatko	tata	tatala	tatnɪn	tatɪn	tatɪl	close
8.	makta	makko	maka	makala	maknɪn	makɪn	makɪl	block
9.	nænohta	nænohko	nænoha	nænohala	nænohnɪn	nænohɪn	nænohɪl	put out
10.	sʌta	sʌko	sʌ	sʌla	sʌnɪn	sʌn	sʌl	stand
11.	k ^h jʌta	k ^h jʌko	k ^h jʌ	k ^h jʌla	k ^h jʌnɪn	k ^h jʌn	k ^h jʌl	turn on
12.	kʌnnʌta	kʌnnʌko	kʌnnʌ	kʌnnʌla	kʌnnʌnɪn	kʌnnʌn	kʌnnʌl	cross
13.	kata	kako	ka	kala	kanɪn	kan	kal	go
14.	sata	sako	sa	sala	sanɪn	san	sal	buy
15.	t ^h ata	t ^h ako	t ^h a	t ^h ala	t ^h anɪn	t ^h an	t ^h al	ride
16.	ota	oko	wa	wala	onɪn	on	ol	come
17.	pota	poko	pwa	pwala	ponɪn	pon	pol	see
18.	pæuta	pæuko	pæwʌ	pæwʌla	pæunɪn	pæun	pæul	learn
19.	pakkuta	pakkuko	pakkwʌ	pakkwʌla	pakkunɪn	pakkun	pakkul	change
20.	tʃuta	tʃuko	tʃwʌ	tʃwʌla	tʃunɪn	tʃun	tʃul	give
21.	nanuta	nanuko	nanwʌ	nanwʌla	nanunɪn	nanun	nanul	divide
22.	seuta	seuko	sewʌ	sewʌla	seunɪn	seun	seul	stand

23.	ssita	ssiko	ssʌ	ssʌla	ssin̩n̩	ssin	ssil	write
24.	essita	essiko	ɛssʌ	ɛssʌla	ɛssin̩n̩	ɛssin	ɛssil	try
25.	k ^h ita	k ^h iko	k ^h ʌ	k ^h ʌla	k ^h in̩n̩	k ^h in	k ^h il	grow
26.	ttita	ttiko	ttʌ	ttʌla	ttin̩n̩	ttin	ttil	float
27.	akkita	akkiko	akkjʌ	akkjʌla	akkin̩n̩	akkin	akkil	save
28.	allita	alliko	alljʌ	alljʌla	allin̩n̩	allin	allil	let know
29.	pita	piko	pjʌ	pjʌla	pin̩n̩	pin	pil	be empty
30.	nupta	nupko	nuwʌ	nuwʌla	nupn̩n̩	nuun	nuul	lie
31.	kupta	kupko	kuwʌ	kuwʌla	kupn̩n̩	kuun	kuul	roast
32.	topta	topko	towa	towala	topn̩n̩	toun	toul	help
33.	ʈʂista	ʈʂisko	ʈʂiʌ	ʈʂiʌla	ʈʂisn̩n̩	ʈʂin̩	ʈʂiil	make
34.	pusta	pusko	puʌ	puʌla	pusn̩n̩	puin̩	puil	stick
35.	ista	isko	iʌ	iʌla	isn̩n̩	in̩	iil	connect
36.	kʌlta	kʌlko	kʌlʌ	kʌlʌla	kʌn̩n̩	kʌn	kʌl	hang
37.	milta	milko	milʌ	milʌla	min̩n̩	min	mil	push
38.	ulta	ulko	uʌ	uʌla	un̩n̩	un	ul	cry
39.	tʰilta	tʰilko	tʰiʌ	tʰiʌla	tʰin̩n̩	tʰin	tʰil	raise
40.	salta	salko	sala	salala	san̩n̩	san	sal	live
41.	alta	alko	ala	alala	an̩n̩	an	al	know
42.	tolta	tolko	tola	tolala	ton̩n̩	ton	tol	turn
43.	molta	molko	mola	molala	mon̩n̩	mon	mol	steer

References

Park, Kyubyong. 2012. *500 Basic Korean Verbs: The Only Comprehensive Guide to Conjugation and Usage*. with companion CD. Tuttle Publishing.