Phonology Assignment #6

Andrew Zito

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1 Part 1

Spirantization:
[-syl -cont -strid -nas]([-syl -cont -strid -nas]) → [-syl +cont]([-syl +cont]) / V__V

Nasal Place Reduction:
[-syl +nas] → [-syl +nas +cor +ant] / __$

Coronal Cluster Simplification:
[-syl +cor] → ∅ / [-syl +cor]__

2 Part 2

Morpheme	Underlying Representation
SINGULAR	⊘
SING. DEFINITE	ta
PLURAL	o
house	daːr
side	geːs
leg	lug
woman	naːg
pestle	tib
outcast	sab
sea	bad
person	ʔid
rib	feː d
stick	ul
month	bil
branch	laːn
riverbank	daːn
poison	sun
affair	dan
hide	saːn
hip	sin
baby female camel	nirg
girl	gabd
arm	gaʔn
downpour	hogl
mule	bagl
female kid	waɲiar
pan	kefed
female dwarf	ʔilin
hole	bohol

3 Part 3

1) The correct rule ordering is CVE followed by CCS. The environment for CVE is VCCC (or VCC#). If we were to perform CCS first, it would destroy that environment. For example, with a word like 'girl,' this is what would happen if we did CCS first:

Input (UR + other rules)	gaβd	gaβdta	gabdo
CCS	–	gaβda	–
CVE	gaβad	–	–
SR	gaβad	gaβda	gabdo

This is the wrong SR for the singular definite form. Doing CCS first 'bled' CVE – it destroyed the environment of three consonants in a row that is required for CVE to operate on that form. Compare that to if we use the correct ordering:

Input	gaβd	gaβdta	gabdo
CVE	gaβad	gaβadta	–
CCS	–	gaβada	–
SR	gaβad	gaβada	gabdo

This time, the environment needed by CVE is preserved, and we get the correct SR. Because CCS does not destroy the environment of CVE until after we have performed CVE, this rule relationship is called 'counterbleeding.'

2) The correct rule ordering is Spirantization followed by CCS. Performing CCS first would 'feed' the environment for Spirantization (namely a stop between two vowels). However, in our data, we don't want that to happen. Observe what happens to a word like *bada* if we put CCS first:

Input	bad	badta	bado
CCS	–	bada	–
Spir.	–	baða	baðo
SR	bad	baða	baðo

Again, the singular definite form has the wrong SR. We do not observe Spirantization operating on that form in our data – the actual SR is *bada*. Here is the correct rule ordering, in which CCS 'counterfeeds' Spirantization by creating the environment for it *after* it has already applied:

Input	bad	badta	bado
Spir.	–	–	baðo
CCS	–	bada	–
SR	bad	bada	baðo

3) The correct rule ordering is CVE followed by Spirantization. CVE 'feeds' Spirantization by creating the environment for it to apply. If we put Spirantization first, it would not be able to apply because its environment would not exist. Here is the correct rule ordering demonstrated with the word *hogl*:

Input	hogl	hoglta	hoglo
CVE	hogol	hogolta	–
Spir.	hoɣol	hoɣolta	–
SR	hoɣol	hoɣolta	hoglo

4 Part 4

UR	lug	lugo	feːd	feːdta	feːdo	sum	sumo	gabd	gabdta	gabdo
CVE	–	–	–	–	–	–	–	gabad	gabadta	–
Spir.	–	luɣo	–	–	feːzo	–	–	gaβad	gaβadta	–
CCS	–	–	–	feːda	–	–	–	–	gaβada	–
Nas.	–	–	–	–	–	sun	–	–	–	–
SR	lug	luɣo	feːd	feːda	feːzo	sun	sumo	gaβad	gaβada	gabdo