

Enjoy!!

A list of root and its underlying representation

sg	underlying representation
daar	daar
gees	gees
laf	laf
lug	lug
naag	naag
tib	tib
sab	sab
bad	bad
d <sup>h</sup> ʒid	d <sup>h</sup> ʒid
feed <sub>ɬ</sub>	feed <sub>ɬ</sub>
ʕiir	ʕiir
ʔul	ʔul
bil	bil
meel	meel
kaliil	kaliil
najl	najl
sun	sum
laan	laam
sin	sim
dan	dan
daan	daan
saan	saan
nirig	nirg
gaβad <sub>ɬ</sub>	gab <sub>ɬ</sub>
hoyol	hogl
bayal	bagl
wahar	wahar
irbad	irbad
kefed	kefed
d <sup>h</sup> ʒilin	d <sup>h</sup> ʒilin

bohol	bohol
jirid	jird
ʔaajad	ʔaajad
gaʕan	gaʕm
ʔinan	ʔinan

suɣaj	sug
kaβaj	kab
siðaj	sid
dilaj	dil
ganaj	gan
tumaj	tum
argaj	arg
gudbaj	gudb
qoslaj	qosl
hadlaj	hadl

suffix	underlying representation	Notes	Notes
-ta	-ta	sg.def	
-[d/d]a	-ta	sg.def	
-ʃa	-ta	sg.def	
-o	-o	pl	
-Vɣo	-o	pl	V represents vowel
-Vβo	-o	pl	
-Vðo	-o	pl	
-Vzo	-o	pl	
-aj	-aj	3sg.masc	
-taj	-taj	3sg.fem	
-ʃaj	-taj	3sg.fem	
-daj	-taj	3sg.fem	
-naj	-naj	1pl.past	
-laj	-naj	1pl.past	

How to run the program:

foma -l somali.foma

You will see all the test cases results too. Top 20 are from Underlying to Surface (one to one mapping) and everything else are from Surface to Underlying (More than 20 since we have one to many mapping)

List of test cases

Underlying --> Surface

apply down gaṣmta

apply down laamta

apply down laamo

apply down simo

apply down dʿʒid

apply down bagl

apply down jirdta

apply down kefedta

apply down boholta

apply down baʿalta

apply down naago

apply down ʔulta

apply down hadaltaj

apply down sabo

apply down feedo

apply down gabḏta

apply down sugaj

apply down sidtaj

apply down irbadta

apply down qosoltaj

Surface --> Underlying

apply up gaṣanta

apply up laanta

apply up laamo

apply up simo

apply up dʿʒid

apply up baʿal

apply up jirida

apply up kefedta

apply up bohofa

apply up baʿafa

apply up naaʿo

apply up ʔufa

apply up haḏafaj

apply up saḃo

apply up feezo  
apply up gaβaḏa  
apply up suḡaj  
apply up sidaḡ  
apply up irbada  
apply up qosoḡaj