

Kharia Morphology

Due Tuesday 4/12 in class

Kharia is a Munda language of India. This problem is devoted to some of the verbal morphology of Kharia. The problem is taken from a linguistics workbook by Winifred Lehmann and Soveig Pflueger.

a. Write the rules of derivational morphology, using the format developed in class.

b-i. Analyze the inflectional system using the Extended Word and Paradigm framework of Anderson (1982). Where there seems to be a choice in treating variable form in an affix morphologically or phonologically, do it morphologically (since that's the pedagogical point here). You will have to invent your own feature system to describe the relationships among the tenses.

b-ii. In your answer to b-1, provide Andersonian derivations for a small number of forms. Select your examples carefully so that they illustrate and validate your analysis.

Hints and Suggestions

- Do not assume that glosses are necessarily fully accurate.
- Explain fully how your analysis works, giving suitable examples and derivations; i.e. don't just give a batch of rules and assert that they work. It usually helps to *interleave* rules, sample derivations, and discussion, rather than presenting each in a separate place.
- The data are given three times: (i) as given in the original problem set order, roughly in order of increasing complexity; (ii) in alphabetical order; (iii) in backwards alphabetical order (which lets the *final* segment count the most in the ordering, followed by the penultimate segment, and so on). Try looking at all three lists.

Data: First Presentation

gilte	he beats	gilpid̄zte	he beats and breaks
giltem	you beat	ɲogud̄em	you will eat and drink
giltɲ	I beat	gilgilte	he beats and beats
ɲogtem	you eat	ud̄ud̄og	he drank and drank
ɲogtɲ	I eat	gilsik ^h og	he had beaten
ud̄te	he drinks	gilsik ^h ob	you had beaten
ud̄tɲ	I drink	ɲogsik ^h od̄z̄	I had eaten
pid̄zte	he breaks	ud̄sik ^h ob	you had drunk
pid̄z̄tem	you break	pid̄z̄sik ^h og	he had broken
gile	he will beat	obgilte	he causes to beat
gilem	you will beat	obud̄tem	you cause to drink
ɲogem	you will eat	ogpid̄z̄tɲ	I cause to break
ud̄e	he will drink	obɲogtem	you feed
pid̄z̄ɲ	I will break	obɲoge	he will feed
gilɲ	I will beat	obgilog	he caused to beat
gilog	he beat	obud̄sig	he has caused to drink
ɲogog	he ate	obgilsigtem	you have been causing to beat
pid̄z̄ob	you broke	ogpid̄z̄sigɲ	I will have caused to break
ud̄od̄z̄	I drank	obgilsik ^h og	he had caused to beat
gilob	you beat	obgilgod̄te	he causes to beat up
gilod̄z̄	I beat	obgilgod̄tɲ	I cause to beat up
ɲogsig	he has eaten	obgilgod̄tem	you cause to beat up
ɲogsigd̄em	you have eaten	obud̄god̄te	he causes to drink up
ɲogsigd̄ɲ	I have eaten	obɲoggod̄te	he causes to eat up
gilsig	he has beaten	ogpid̄z̄god̄tem	you cause to smash
ud̄sigd̄ɲ	I have drunk	gilogpid̄zte	he beats and causes to break
pid̄z̄sigd̄em	you have broken	obgilgod̄e	he will cause to beat up
ud̄sigte	he has been drinking	obgilgod̄og	he caused to beat up
ud̄sigtem	you have been drinking	obɲoggod̄ob	you caused to eat up
ud̄sigtɲ	I have been drinking	obgilgod̄sig	he has caused to beat up
gilsigtem	you have been beating	obgilgod̄sigte	he has been causing to beat up
ɲogsigtɲ	I have been eating	obgilgod̄sige	he will have caused to beat up
gilsige	he will have beaten	obgilgod̄sik ^h og	he had caused to beat up
gilsigɲ	I will have beaten	ogpid̄z̄god̄sigd̄ɲ	I have caused to break up
ɲogsigem	you will have eaten	obud̄god̄sigtem	you have been causing to drink up
ud̄sigɲ	I will have drunk	obɲoggod̄sigɲ	I will have caused to eat up
pid̄z̄sigem	you will have beaten	obgilgod̄sik ^h ob	you had caused to beat up

Data again: Alphabetized

gile	he will beat	obnoggoḁob	you caused to eat up
gilem	you will beat	obnoggoḁsigɨɲ	I will have caused to eat up
gilgilte	he beats and beats	obnoggoḁte	he causes to eat up
gilɨɲ	I will beat	obnogtem	you feed
gilob	you beat	ogpid̄ʒgoḁsigɨɲ	I have caused to break up
gilod̄ʒ	I beat	ogpid̄ʒgoḁtem	you cause to smash
gilog	he beat	ogpid̄ʒsigɨɲ	I will have caused to break
gilogpid̄ʒte	he beats and causes to break	ogpid̄ʒtɨɲ	I cause to break
gilpid̄ʒte	he beats and breaks	pid̄ʒɨɲ	I will break
gilsig	he has beaten	pid̄ʒob	you broke
gilsige	he will have beaten	pid̄ʒsigem	you will have beaten
gilsigɨɲ	I will have beaten	pid̄ʒsigɨɲ	you have broken
gilsigtem	you have been beating	pid̄ʒsik ^h og	he had broken
gilsik ^h ob	you had beaten	pid̄ʒte	he breaks
gilsik ^h og	he had beaten	pid̄ʒtem	you break
gilte	he beats	uḁe	he will drink
giltem	you beat	uḁod̄ʒ	I drank
giltɨɲ	I beat	uḁsigɨɲ	I will have drunk
obgilgoḁe	he will cause to beat up	uḁsigte	he has been drinking
obgilgoḁog	he caused to beat up	uḁsigtem	you have been drinking
obgilgoḁsig	he has caused to beat up	uḁsigtɨɲ	I have been drinking
obgilgoḁsigte	he will have caused to beat up	uḁsigɨɲ	I have drunk
obgilgoḁsigte	he has been causing to beat up	uḁsik ^h ob	you had drunk
obgilgoḁsik ^h ob	you had caused to beat up	uḁte	he drinks
obgilgoḁsik ^h og	he had caused to beat up	uḁtɨɲ	I drink
obgilgoḁte	he causes to beat up	uḁuḁog	he drank and drank
obgilgoḁtem	you cause to beat up	ɲogem	you will eat
obgilgoḁtɨɲ	I cause to beat up	ɲogog	he ate
obgilog	he caused to beat	ɲogsig	he has eaten
obgilsigtem	you have been causing to beat	ɲogsigem	you will have eaten
obgilsik ^h og	he had caused to beat	ɲogsigtɨɲ	I have been eating
obgilte	he causes to beat	ɲogsigɨɲ	you have eaten
obuḁgoḁsigtem	you have been causing to drink up	ɲogsigɨɲ	I have eaten
obuḁgoḁte	he causes to drink up	ɲogsik ^h od̄ʒ	I had eaten
obuḁsig	he has caused to drink	ɲogtem	you eat
obuḁtem	you cause to drink	ɲogtɨɲ	I eat
obɲoge	he will feed	ɲogud̄em	you will eat and drink

Data again: reverse-alphabetized

obnoggodob	you caused to eat up	nogsigdem	you have eaten
obgilgodsik ^h o b	you had caused to beat up	pidzsigdem	you have broken
udsik ^h ob	you had drunk	nogudem	you will eat and drink
gilsik ^h ob	you had beaten	nogsigem	you will have eaten
gilob	you beat	pidzsigem	you will have beaten
pidzob	you broke	nogem	you will eat
obgilgode	he will causeto beat up	gilem	you will beat
ude	he will drink	obgilgodtem	you cause to beat up
obgilgodsize	he will have caused to beat up	ogpidzgodtem	you cause to smash
gilsige	he will have beaten	obudtem	you cause to drink
obnoge	he will feed	obudgodsigtem	you have been causing to drink up
gile	he will beat	udsigtem	you have been drinking
obudgodte	he causes to drinkup	gilsigtem	you have been beating
obnoggodte	he causes to eat up	obgilsigtem	you have been causing to beat
obgilgodte	he causes to beat up	nogtem	you eat
udte	he drinks	obnogtem	you feed
obgilgodsigte	he has been causing to beat up	giltem	you beat
udsigte	he has been drinking	pidztem	you break
gilte	he beats	ogpidzgodsigdijn	I have caused to break up
obgilte	he causes to beat	udsigdijn	I have drunk
gilgilte	he beats and beats	nogsigdijn	I have eaten
pidzte	he breaks	obnoggodsigijn	I will have caused to eat up
gilogpidzte	he beats and causes to break	udsigijn	I will havedrunk
gilpidzte	he beats and breaks	gilsigijn	I will have beaten
obgilgodsig	he has caused to beat up	ogpidzsigijn	I will have caused to break
obudsig	he has caused to drink	gilijn	I will beat
nogsig	he has eaten	obgilgodtij	I cause to beat up
gilsig	he has beaten	udtij	I drink
obgilgodog	he caused to beat up	udsigtij	I have been drinking
ududog	he drank and drank	nogsigtij	I have been eating
nogog	he ate	nogtij	I eat
obgilgodsik ^h o g	he had caused to beat up	giltij	I beat
gilsik ^h og	he had beaten	ogpidztij	I cause to break
obgilsik ^h og	he had caused to beat	pidzij	I will break
pidz ^h sik ^h og	he had broken	udodz	I drank
gilog	he beat	nogsik ^h odz	I had eaten
obgilog	he caused to beat	gilodz	I beat