SUPPLEMENTARY MATERIALS FOR **BHASA**

INDONESIAN MINIMAL PAIRS

This document serves as a supplement to the paper "BHASA: A Holistic Southeast Asian Linguistic and Cultural Evaluation Suite for Large Language Models" and the handcrafted data that comes with it. It contains a single pair of examples (grammatical and ungrammatical) for each category (and important subcategories) of minimal pairs in the Indonesian LINDSEA dataset.

Each grammatical sentence is glossed with 4 or 5 lines: (1) The original sentence, (2) the sentence with morphemic boundaries shown, (3) linguistic glossing, (4) the literal meaning of the sentence (where relevant), and (5) the intended meaning of the sentence. We only provide the original sentence for ungrammatical sentences since it is sometimes not feasible to provide a meaning for a sentence that is not well-formed, and morphemic boundaries can be inferred from the grammatical sentence given the minimal differences between them. Note that the term 'ungrammatical' is used to indicate that the sentence is incorrect in the context of the linguistic phenomenon being studied (since there may be some cases where the sentence is not, strictly speaking, ungrammatical). Comments have been provided where necessary to further clarify the intent behind the category/subcategory.

BHASA - Indonesian Minimal Pairs

Category	Subcategory	Grammatical Sentence	Ungrammatical Sentence	Comments
Men- with clefted sentences		Jendela itulah yang Tono rusak Jendela itu-lah yang Tono rusak window DEM-LAH REL Tono destroy That window is the one that Tono destroyed.'	Jendela itulah yang Tono merusak	Men- is ungrammatical on verb when object is clefted
Men-with control verbs mau and coba	Coba	Rumah itu Tono coba beli Rumah itu Tono coba beli house DEM Tono try buy Lita: That house, Tono tried to buy, Tono tried to buy that house.	Rumah itu Tono coba membeli	Men- is ungrammatical on main verb in object voice construction
	Маи	Uang itu Tono mau tabung Uang itu Tono mau tabung noney DEM Tono want save Li.: "That money, Tono wants to save." Tono wants to save that money."	Uang itu Tono mau menabung	Men- is ungrammatical on main verb in object voice construction
Men- with dirinya/dirimu subjects		Dirimu kamu ubah Dirimu kamu ubah SEIF 28G 28G change 'You yourself change.'	Dirimu kamu mengubah	Men- is ungrammatical with dirinya/dirimu subjects
Men- with objects subject to Left Branch Condition	WH-in-situ	Tono mencari mobilnya siapa? Tono men-cari mobil-anya siapa? Tono MEN-searte cara—POSS who LitTono searches for whose car?' Whose car did Tono search for?'	Tono cari mobilnya siapa?	Only grammatical with Men- on verb
	WH-movement from island	Siapa yang Tono baca bukunya? Siapa yang Tono baca buku-nya? who COMP Tono read book=POSS Jir.:Whose did Tono read book of?' Whose book did Tono read?	Siapa yang Tono membaca bukunya?	Ungrammatical with Men- on verb
Adjective Reduplication		Salah satu dari tas-tas kecil itu punya saya? Salah,satu dari tas-tas kecil itu punya saya? one of from bag-RED small DEM HAVE 1SG One of those small baga is mine.	Salah satu dari tas-tas kecil-kecil itu punya saya	Adjective cannot be reduplicated in this context
Noun Reduplication (Endocentric Compounds)		Buku-buku sejarah itu punya saya Buku-buku sejarah itu punya saya Bok-RED history DEM HAVE ISG 'Those history books are mine.'	Buku sejarah-sejarah itu punya saya	Only the head of the compound can be reduplicated
Noun Reduplication (Plurals)		Komputer-komputer canggh itu punya saya Komputer-komputer cangghi itu punya saya computer-RED advanced DEM HAVE 1SG 'Those advanced computers are mine.'	Komputer canggih-canggih itu punya saya	Only the noun can be reduplicated
Benefactive constructions without untuk		Tono menuliskan Trin puisi cinta Tono men-tulis-kan Trin puisi cinta Tono MEN-write-KAN Trin poem love Tono wrote Trin love poems.'	Tono menuliskan puisi cinta Tini	Untuk can be left out but word order is no longer as flexible
Dative constructions without kepada		Tono memberikan Tini uang Tono men-berikan Tini uang Tono MEN-give-KAN Tini money 'Tono gave Tini money.'	Tono memberikan uang Tini	Kepada can be left out but word order is no longer as flexible
Preposition stranding		Di mana Tono pergi makan malam hari ini? Di mana Tono pergi makan mahan hari ini? at where Tono go eat night day DEM 'Where did Tono go to eat dimer today?'	Mana Tono pergi makan malam hari ini di?	Prepositional stranding is ungrammatical in Indonesian
Correlative conjunctions		Walaupun Tono malas, tapi dia pintar Walaupun Tono malas, tapi dia pintar veen.though Tono lazy, but 38G smart Even though Tono is lazy, be is smart.	Walaupun Tono malas, dia pintar	In formal Indonesian, the correlative conjunction must be present in both clauses
Complementizers (bahwalkalau)	Ungrammatical with bahwa	Siapa yang Tono katakan membeli sebuah mobil baru kemarin? Siapa yang Tono kata-kan men-beli sebuah mobil baru kemarin? who COMP Tono say-KAN MEN-buy CL car new yesterday Who did Tono say bought a new ear yesterday?	Siapa yang Tono katakan bahwa membeli sebuah mobil baru kemarin?	Complementizer bahwa cannot be inserted
	Ungrammatical with kalau	Siapa yang Tono sangkal membeli sebuah mobil baru kemarin? Siapa yang Tono sangkal men-beli sebuah mobil baru kemarin? who COMP Tono deny MEN-buy CL car new yesterday	Siapa yang Tono sangkal kalau membeli sebuah mobil baru kemarin?	Complementizer kalau cannot be inserted

BHASA - Indonesian Minimal Pairs

	- <i>il-kan</i> suffix	Grammatical with -i	Tono akhirnya dapat mengenali pelaku pencurian itu Tono fahirnya dapat men-kenali pelaku pen-curi-an itu? Tono fanally can MEN-recognize-I cuptir PEN-sreal-AN DEM Tono can finally recognize the culprir of the theft.	Tono akhirnya dapat mengenalkan pelaku pencurian itu	
		Grammatical with -kan	Tono berupaya untuk mengobatkan Tini pada dokter itu Tono berupaya untuk men-obat-kan Tini pada dokter itu Tono BER-effort for MEN-medicine-KAN Tini to doctor DEM Lit.: Tono made an effort to cure Tini to that doctor.' Tono made an effort to cure Tini by sending her to the doctor.'	Tono berupaya untuk mengobati Tini pada dokter itu	
	Verb + -kah		Behum datangkah Tono sejak kemarin sore? Behum datang-kah Tono sejak kemarin sore? not.yer cone-Q Tono since yesterday afternoon Lit.: Hasn't Tono come yet since yesterday afternoon? 'Hasn't Tono been here since yesterday afternoon?'	Belum datang Tono sejak kemarin sore?	Question particle -kah must be affixed to verb in yes/no questions
Argument Structure	Dirimu sendiri with dia + Dirinya sendiri with kamu		Drimu sendiri harus kamu ajukan sebagai calon ketua kelas Drimu sendiri harus kamu ajukan sebagai calon ketua kelas SEJE-28G SEJF marg 28G submit as candidate head class 'You must volunteer yourself as class prefect.'	Dirimu sendiri harus dia ajukan sebagai calon ketua kelas	Person feature mismatched in ungrammatical sentence
	Dirinu sendiri with/without kamu + Dirinya sendiri with/without dia		Dirimu sendiri perlu kamu perbaiki Dirimu sendiri perlu kamu per-baiki Dirimu sendiri perlu kamu per-baiki Dirimu sendiri perlu kamu per-baiki Lit.: You need to fix yourseli: 'You need to get it together.'	Dirimu sendiri perlu perbaiki	Pronoun with matching person feature must be present
	Dirimu with dia + Dirinya with kamu		Drimu belum kanna ajarkan untuk berjuang Drimu belum kanna ajarkan untuk berjuang SEIF.25G notyet 25G teach-KAN for BER-struggle You have not yet learned to fight for yourself.	Dirimu belum dia ajarkan untuk berjuang	Person feature mismatched in ungrammatical sentence
	Dirimu with/without kamu + Dirinya with/without dia	,	Dirimu mesti kamu serahkan ke polisi Dirimu mesti kamu serahkan ke polisi SERIF-28G must 28G surrender-KAN to police 'You must surrender yourself to the police.'	Dirimu mesti serahkan ke polisi	Pronoun with matching person feature must be present
	Modals in Active Voice		Tono akan mem-beli buku di toko buku Tono akan men-beli buku di toko buku Tono will MEN-buy book to store book Tono will buy books from the bookstore.'	Akan Tono membeli buku di toko buku	Modal must immediately precede verb
	Modals in Object Voice	With-kan on verb	Kue bolu-nya masih Tono panggangkan buat Tini Kue-bolu-nya masih Tono panggang-kan buat Tini spongac-ake-NYA still Tono bake-KAN for Tini Lit.: Those sponge cakes, Tono still bakes for Tini.' Tono still bakes those sponge cakes for Tini.'	Kue bolunya Tono masih panggangkan buat Tini	Modal cannot be between verb and subject
		Without -kan on verb	Tasnya masih Tono bawa ke sekolah Tas-nya masih Tono bawa ke sekolah bag-NYA still Tono carry to school Lita: 'That bag, Tono still carries to school.' Tono still carries that bag to school.'	Tasnya Tono masih bawa ke sekolah	Modal cannot be between verb and subject
	Temporal nouns + -lah	,	Dua hari lagilah Tono akan menyewa bus untuk pergi ke Semarang bua hari lagilah Tono akan mersewa bus untuk pergi ke Semarang two day move-LAH Tono will MEN-rent bus for go to Semarang Two days later, Tono will rent a bus to go to Semarang.	Tono akan menyewa bus untuk pergi ke Semarang dua hari lagilah	Constituent suffixed with -lah must be fronted
	Di-VP topicalization with $=nya$		Ditamparnya Tono dengan tangannya Di-tampar-nya Tono dengan tangan-nya Di-sanpar-nya Tono dengan tangan-nya Di-sap-NYA Tono with hand-NYA Lit.: Tono was slapped with his/her hand.' Tono was slapped by someone's hand.	Ditampar Tono dengan tangannya	
	Ada	With =nya	Ada lutung di dapur Tono Ada lutung di dapur Tono (OP leafmonley in kirder Tono There is a leaf monkey in Tono's kirden	Ada lutungnya di dapur Tono	Cannot have definiteness marked by = nya with ada preceding subject
		With itu	Lawar itu ada di rumah Tono Lawar itu ada di rumah Tono Hawar DEM COP in house Tono The lawar is in Tono's house.'	Lawar ada di rumah Tono	Must have definiteness marked by <i>itu</i> with subject preceding <i>ada</i>

BHASA - Indonesian Minimal Pairs

Asymmetry between animates and inanimates in passive voice		Rumahnya kehujanan batu dari bukit Rumah=nya ke-hujan-an batu dari bukit house=NYA KE-han-AN ston fem hill Lit: 'The house was rained on with stones from the hill.' 'A landslide from the hill descended upon the house.'	Rumahnya kehujanan oleh batu dari bukit	Oleh is ungrammatical in passive constructions with inanimate agents
No <i>oleh</i> in passive voice		Tono dibelikan Tini kue lapis Surabaya Tono di-beli-kan Tini kue lapis Surabaya Tono Di-buy-KNO Tini cake layer Surabaya Liz. Tono was bought (by Tini a Surabaya layer cake.) Tono was bought a Surabaya layer cake by Tini.	Tono dibelikan kue lapis Surabaya Tini	Oleh can be left out but word order is no longer as flexible
<i>Oleh-</i> stranding in	No additional argument	Oleh Tono, Tini dimarahi Oleh Tono, Tini demarahi Oleh Tono, Tini demarahi Lit.: By Tono, Tini was angered. 'Tini was angered by Tono.'	Tono, Tini dimarahi oleh	Oleh cannot be stranded
passive voice	With additional argument	Oleh Tono, Tini dibuatkan kopi Oleh Tono, Tini di-buat-kan kopi by Tono Tini di-buake-KAN kopi Lix.: By Tono, Tini was made a coffee. 'Tini was made a coffee by Tono.'	Tono, Tini dibuatkan kopi oleh	Oleh cannot be stranded
Demonstratives on objects in object voice		Promosi itu Tono perlu dapatkan Promosi itu Tono perlu dapatkan promotion DEM Tono need ger-KAN Lir: That promotion, Tono need ser-KaN 'Tono needs to get that promotion.'	Promosi Tono perlu dapatkan	Must have definiteness marked by itu
Possessive =nya	,	Tono memakan rendang daging sapinya Tini di dapur Tono mer-makan rendang daging sapi-nya Tini di dapur Tono MEN-cat rendang meat cow=NYA Tini in kitchen Tono cats Tini's beef rendang in the kitchen.	Tono memakan rendang daging sapi Tini di dapur	
Word order in benefactive constructions	,	Tono memasakkan rendang untuk Tini Tono mer-masakkan rendang untuk Tini Tono MEN-cook-KAN rendang for Tini "Tono cooked rendang for Tini."	Tono memasakkan untuk Tini rendang	
	With -kan on verb	Tehnya Tono buatkan buat Tini Teh-nya Tono buat-kan buat Tini tea=NYA Tono de/AN for Tini Lit.: The tea, Tono made for Tini, Tono made the tea for Tini,	Tehnya buat Tini Tono buatkan	
word order in object voice	Without -kan on verb	Botolnya Tono isi di dapur Tini Botol=nya Tono isi di dapur Tini bottle=NYA Tono ili ni kitchen Tini Lix: 'The bottle, Tono filled in Tini's kitchen.' 'Tono filled the bottle in Tini's kitchen.'	Botolnya di dapur Tini Tono isi	
Verb phrase ellipsis	Aspect mismatch	Tono sudah pergi, tapi Tini belum Tono sudah pergi, tapi Tini belum Tono ahrady go, but Tini not yet Lir: Tono has already gone, but Tini not yet.' 'Tono has already left, but Tini has not left yet.'	Tono sudah pergi, tapi Tini masih	
	Word order	Tono sechang tidur dan Tini juga masih Tono codrag tidur dan Tini juga masih Tono CONT sleep and Tini also still Lix. Tono is sleeping and Tini also still.' Tono is sleeping and Tini is also still sleeping,'	Tono masih tidur dan Tini juga sedang	
WH-movement with Left Branch Condition		Siapa yang Tono cuci bajunya? Siapa yang Tono cuci baju=nya? Who COMP Tono wash clotnes=POSS Lit.: Whose did Tono wash clothes of? Whose clothes did Tono wash?	Siapa yang Tono cuci baju?	Must have =nya with WH-movement
WH-movement with adjunct and	Adjunct islands	Tono pulang setelah siapa menelepon dia? Tono pulang setelah siapa menelepon dia? Tono return after who MEN-pione 38G 'Tono returned after who called him?'	Siapa yang Tono pulang setelah menelepon dia?	No WH-movement out of adjunct island possible
coordinate islands	Coordinate islands	Guru itu menghukum Tono dan siapa di sekolah minggu kemarin? Guru itu mer-bukum Tono dan siapa di sekolah minggu kemarin? teadere DEM MEN-punish Tono and who in school week yesterday 'That teacher punished Tono and who in school last week?'	Siapa yang guru itu menghukum Tono dan di sekolah minggu kemarin?	No WH-movement out of coordinate island possible

	Object relatives and demonstratives	Mobil yang Tono tumpangi itu cepat sekali Mobil yang Tono tumpangi itu cepat sekali car REL Tono ride-I Dibl fast very The car that Tono was riding in was very fast.	Mobil itu yang Tono tumpangi cepat sekali	Demonstrative itu cannot be inserted into the landing site of object in object relatives
	Subject relatives and demonstratives	Wanita yang melarikan diri dari penjara itu seram sekali Wanita yang merlarikan diri dari penjara itu seram sekali woman REL MRN-run-KAN self from prison DEM seary very The woman who escaped from prison is very seary.	Wanita yang itu melarikan diri dari penjara itu seram sekali	Demonstrative itu cannot be inserted in the base position of subject in subject relative
	Topicalization with Left Branch Condition	This yang Tono tenni ibunya Thi yang Tono tenni: ibu-nya Trii COMP Tono meet-I mother-NYA Thii is the one whose mother Tono met.'	Tini yang Tono temui ibu	Must have = mya with topicalization
NPIs and Negation	NPI licensing in-situ	Tono tidak sakit karena apa-apa Tono tidak sakit karena apa-apa Tono NEG sick because what-RED Tono was not sick because of anything.'	Tono sakit karena apa-apa	NPI must be licensed by c-commanding negation
	NPI licensing with movement	Tono tidak tahu ape-apa Tono tidak tahu ape-apa Tono NEG know what-RED Tono does not know anything.'	Apa-apa yang Tono tidak tahu	NPI cannot be moved

Table 1: Examples of minimal pairs for each category with explanations