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Grambank & Language Documentation: Zhwadi and Its Features¹

Jessie Sams (soon to be Peterson)

[Grambank](#), an online database cataloging 195 linguistic features for over 2,000 languages, was released earlier this year. At first, I approached it the same way I approached other linguistic resources (e.g. [WALS Online](#), [World Lexicon of Grammaticalization](#)): as a tool for understanding distribution of linguistic features, correlations among features, and ways languages use those features. And Grambank is indeed an excellent resource to add to a conlanger’s “toolbox” because it isolates key linguistic features of languages, provides descriptions with examples, and presents the features as *yes/no* questions for the most part (only a handful diverge from that pattern).

There is a great deal of overlap between WALS Online and Grambank: the Max Planck Institute for Evolutionary Anthropology supports both publications, and many scholars contributed to both resources. Both strive to show feature distribution of language features—not just to show how many languages have a particular feature but also to show where those languages are spoken.

WALS Online breaks features into chapters, where each feature is described with examples before a quantitative breakdown and associated map are provided (you need to click on “Go to map” to see it). Each chapter ends with a summary of findings to indicate whether the feature appears to be geographically situated and what other findings are related to that particular feature. A sampling of chapter titles includes:

Chapter 65: Perfective/Imperfective Aspect

Chapter 66: The Past Tense

Chapter 67: The Future Tense

Chapter 68: The Perfect

There are 152 chapters in total that cover areas of phonology, morphosyntax, and semantics.

Grambank focuses on morphosyntax and provides the distribution of features without closing commentary. The goal is not to say whether there are patterns within the distribution of features but to simply show what features occur based on published

¹ This version is current as of June 2023.

linguistic descriptions of languages. These are the features that directly overlap with the sampling of WALS chapters:

- GB082: Is there overt morphological marking of present tense on verbs?
- GB083: Is there overt morphological marking on the verb dedicated to past tense?
- GB084: Is there overt morphological marking on the verb dedicated to future tense?
- GB086: Is a morphological distinction between perfective and imperfective aspect available on verbs?

Languages are coded as either having the feature (an answer of “yes” is coded as 1), not having the feature (an answer of “no” is coded as 0), or “not known” (coded as ?). The “not known” response indicates that no published grammars specifically mention the feature or have examples that demonstrate the feature (whether or not the feature was in focus).

The number of languages surveyed is much greater in Grambank. Looking specifically at the feature isolating the future tense in languages, WALS Online includes 222 languages in the sampling while Grambank includes 2,402 entries (with only 129 marked as “not known”).

Below is the map shown on WALS Online for the future tense:

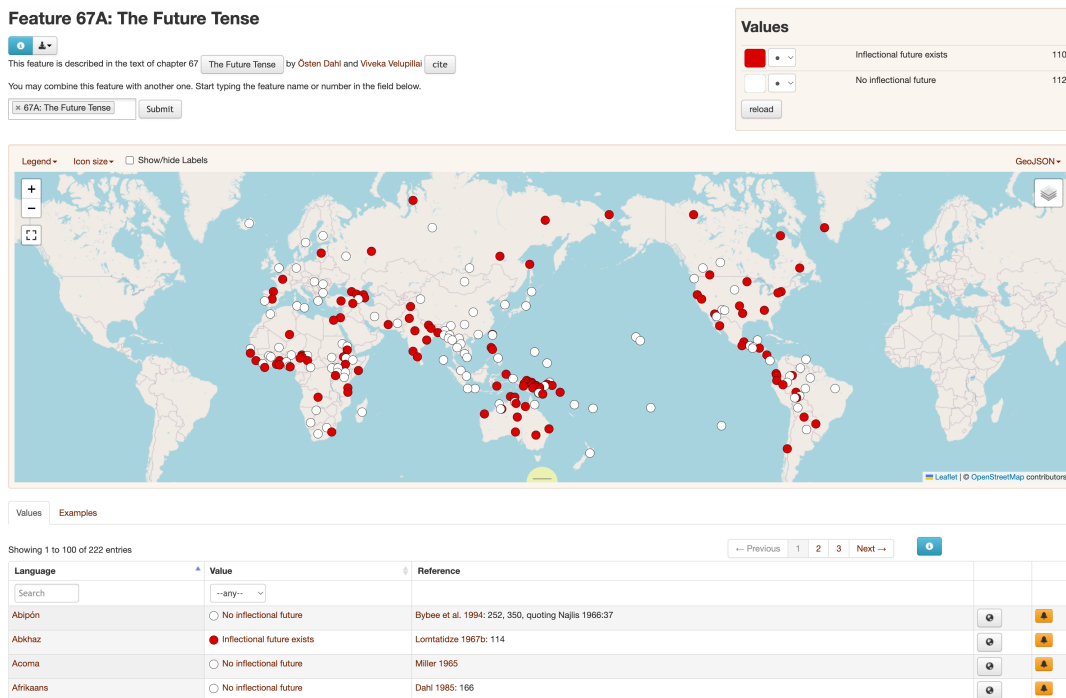


Image 1. WALS map for future tense

Underneath the map is the list of languages in the sampling with a reference list to indicate where the information came from for that language (very helpful if you want to find out more about the language!).

Here is the map for the same feature on Grambank:

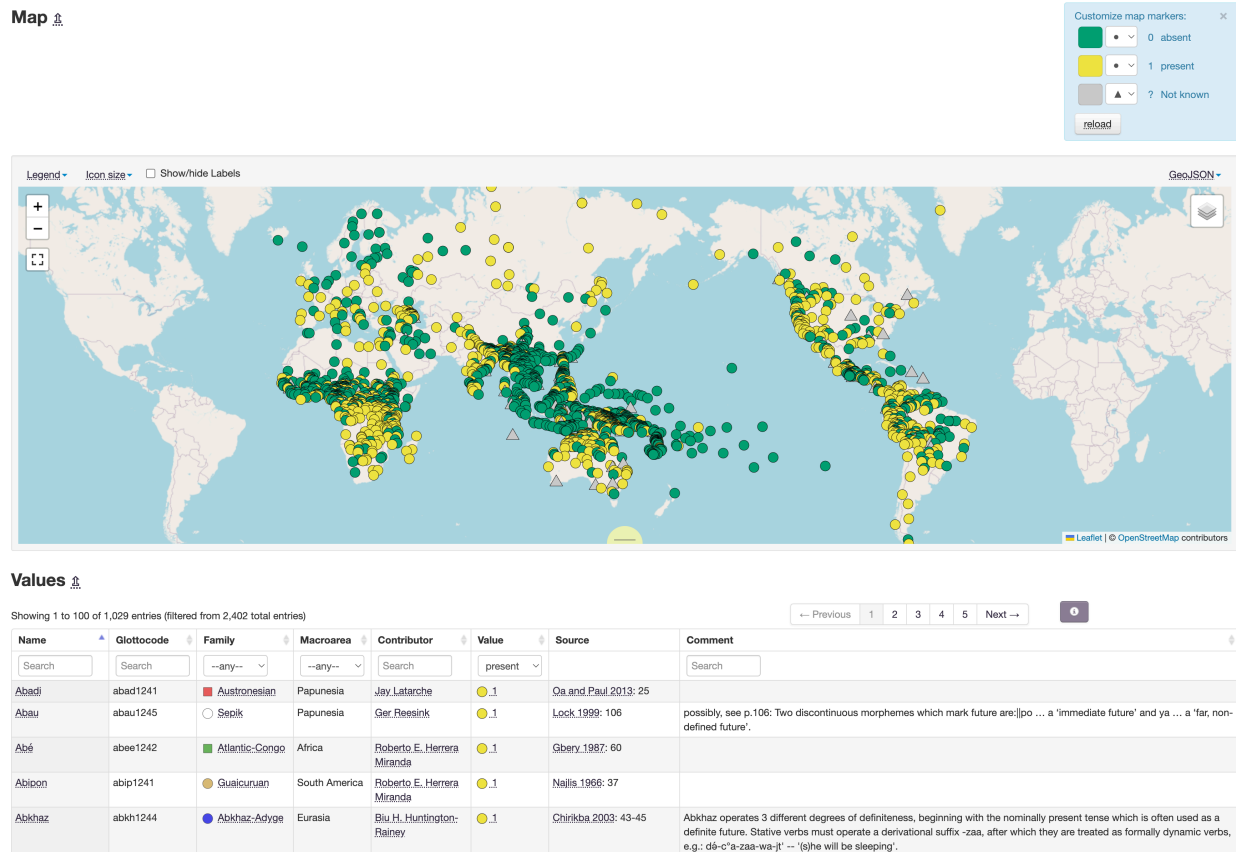


Image 2. Grambank map for future tense

Like in WALS, there is a list of languages underneath the map that includes the language names and sources. However, an added bonus is the “comment” section, where some contributors provide more specific information, including examples of the feature in the language. The comment section is what specifically inspired me for the project that is really the focus of this article.

First, though, I’m going to present a minor tangent to highlight another feature of Grambank: you can have the map show you a cross-section of two features to identify possible correlations. For instance, combining the future tense with the past tense provides this new feature-dependency map:

F-Dependency Is there overt morphological marking on the verb dedicated to past tense? → Is there overt morphological marking on the verb dedicated to future tense?

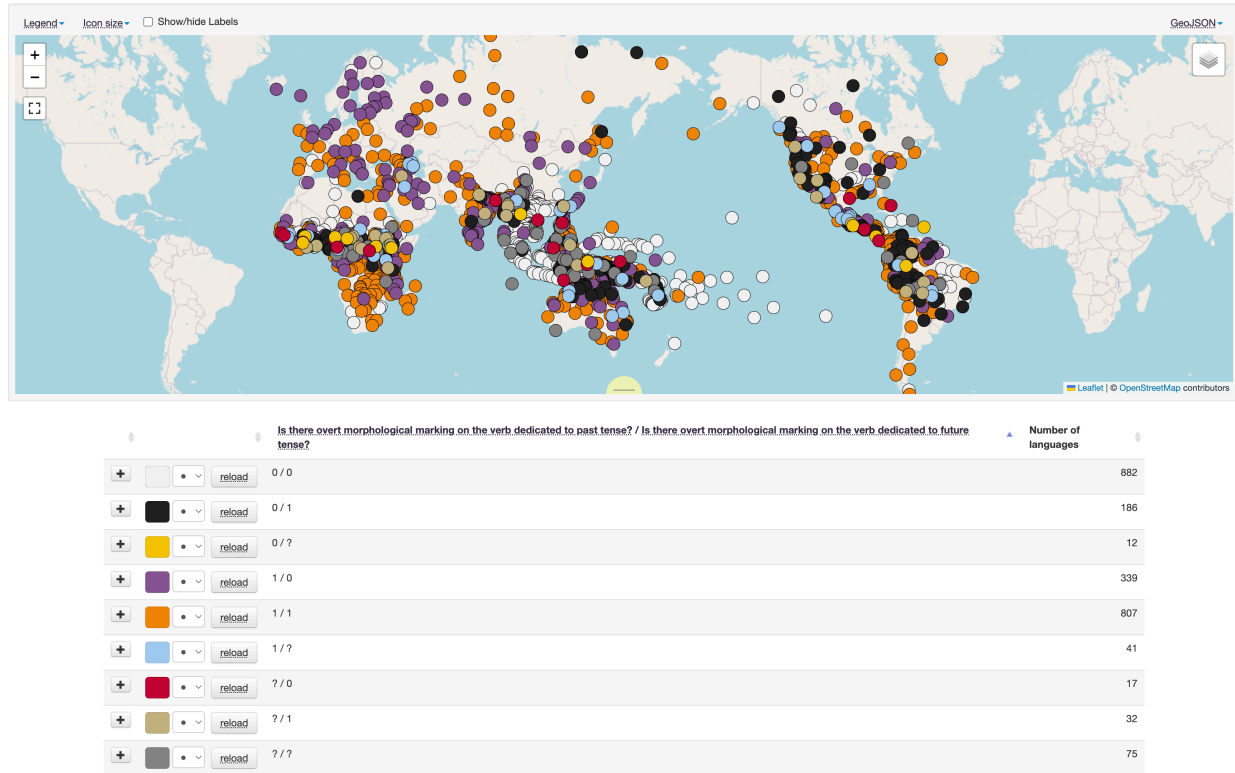


Image 3. Grambank dependency map for future and past tenses

The dots are coded to show all possible combinations of the two features, and this shows that it is common for languages to not mark either tense (the 0/0 results) or to mark both tenses (the 1/1 results), and that it is more common for languages to mark the past tense but not the future (the 1/0 results) than it is for languages to mark the future but not the past (the 0/1 results).

At the same time I was exploring more of Grambank, I was working on an outline for two different podcast episodes for LangTime Studio: one for a trivia game where I quizzed LangTime Studio co-host David Peterson on features of languages based on information in Grambank, and a second where David and I discussed methods of language documentation—specifically the features conlangers can and should include in their written grammars to make the information more accessible and user-friendly. As I was writing out notes for both episodes, I realized just how valuable that comment section was underneath the maps. I further saw how marking the features as either being present or absent made comparing languages and understanding how they work a little easier.

That led me to the idea of actually using Grambank’s feature list as a method for language documentation. Because the list provides a consistent set of features, comparing information across languages is much easier. For conlangers sharing work with other conlangers, that means finding a key piece of information is easier because you can go directly to that feature listing. Furthermore, having a set list of features means conlangers who struggle to provide write-ups of their conlangs don’t have to fret about ways to present the information—they can just focus on answering the questions. (Mind you, for those of us who enjoy writing up full descriptions of our languages, this method is not meant to replace those written grammars. Instead, it is meant to supplement it, especially as a shareable document for others to more quickly identify the features that occur in the language and how they work.)

To that end, I created a shareable [Google Sheet](#) with six columns. The first column is a link directly to the related Grambank feature description (which is especially important for understanding what the feature targets). The second column is the feature question, copied directly from Grambank (i.e. I have not changed or modified any of the wording used).

The third and fourth columns are organizational features that I added because I noticed that the features list is not necessarily in an order that would be helpful for identifying groups of information, such as finding all the features relevant for articles and their use in the language. I categorized each feature as belonging to one of three major categories found cross-linguistically: noun, verb, or clause. And then I further categorized each feature as belonging to a more specific subcategory of information, with 20 subcategories represented, such as article, negation, or relative clause. For example, there are eight features that focus on articles and their use in the language, and each of those features are, in turn, categorized in the noun category since they are relevant to nouns. These columns allow you to sort the sheet to, for example, show all the article features together (they appear in multiple places in the original order of the Grambank list).

The fifth column provides dropdown menus for answering the question. Again, most features are *yes/no* questions, so the dropdown menus provide three options: yes, no, and not sure. The “not sure” response indicates it is a feature you haven’t yet figured out for your language. Finally, the last column is perhaps the most important. It provides a space for you to describe the feature and provide examples of how it works in your language. That’s the information other conlangers really want to see: they want to know how you implemented a particular feature (or the strategy you chose in its absence).

Another feature of the sheet is that I added a second page with instructions for using the sheet. To access the instructions, look at the tabs across the bottom of the screen and click on “Instructions.” The sheet is a view-only document, so you will need to copy or download it to use for yourself. When you do, you can make all sorts of customizations to it, including changing the colors, fonts, category and subcategory labels, and column sizes.

As an example, I have started a document for my conlang [Zhwadi](#). It is a work in progress, and there are many features coded as “not sure” for the time being since I haven’t quite sussed those out yet. But it provides an example of how you can use the sheet to document your own language. (Or to document a natlang or begin a new conlang!)

The final half of this article is a PDF of Zhwadi’s feature list as it currently stands.² As I enter more information and make more decisions about the language, I will continue updating this article (hence, the note on its current version at the bottom of the first page).

In the meantime, happy documenting!

² The internal cell-to-cell links do not work in the PDF version. For the more interactive version with all links active, you need to go to the Zhwadi Google Sheet linked in the previous paragraph.

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB020	Are there definite or specific articles?	Noun	Article	No	Zhwadi lacks definite and indefinite articles, so sentence like <i>Pela liryám abazil</i> can be translated with indefinite articles, definite articles, or a mix of both: “The/A person collected (the) wildflowers.”
GB021	Do indefinite nominals commonly have indefinite articles?	Noun	Article	No	See example in Feature 020 .
GB022	Are there pronominal articles?	Noun	Article	Yes	The demonstrative determiner attaches as a prefixed clitic to the noun (or to a modifier preceding the noun). <ul style="list-style-type: none"> • <i>gyav-ani</i> “that sky” • <i>gyav-ara ani</i> “that dark sky” See Feature 025 for more examples.
GB023	Are there postnominal articles?	Noun	Article	No	The only articles in Zhwadi are demonstrative determiners, and they precede the noun.
GB024	What is the order of numeral and noun in the NP?	Noun	Numeral	Not sure	It will probably be Num-Noun.
GB025	What is the order of adnominal demonstrative and noun?	Noun	Demonstrative	Dem-N	The demonstrative determiners attach as a prefixed clitic, and their forms depend on the initial sound of the word they attach to. Each demonstrative determiner has a vowel-final form (used when occurring with a stem beginning with a consonant) and consonant-final form (used when occurring with a stem beginning with a vowel). <ul style="list-style-type: none"> • <i>ko-dunī</i> “this moss” / <i>kol-anjé</i> “this bee” • <i>gya-zhelu</i> “that (visible) ivy” / <i>gyav-obi</i> “that (visible) mud” • <i>akla-yazhī</i> “that (non-visible) lightning” / <i>aklav-itu</i> “that (non-visible) mouse”
GB026	Can adnominal property words occur discontinuously?	Noun	Property Word	No	Modifiers typically precede their noun, but they can also appear directly after the noun in an inflected form that indicates the class of the noun being modified. <ul style="list-style-type: none"> • <i>gwava ipa ~ ipa igwava</i> “smooth ice” • <i>rakye sarā ~ sarā tarakye</i> “rough leaf” Nominal modifiers can only occur before their nouns: <i>chāra sarā</i> “green leaf” <i>uki chal</i> “light hair” (or “white hair”) <p>Regardless of whether they appear before or after the noun, they cannot appear discontinuously.</p>
GB027	Are nominal conjunction and comitative expressed by different elements?	Noun	Case/Flag	Not sure	I think I want to have different strategies for these, especially when more than two nouns are being joined.
GB028	Is there a distinction between inclusive and exclusive?	Noun	Pronoun	Yes	Inclusive “we” is <i>loa</i> (or <i>lo(w)</i> - in its dependent form), and exclusive “we” is <i>wa</i> (or <i>w(a)</i> - in its dependent form).

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB030	Is there a gender distinction in independent 3rd person pronouns?	Noun	Pronoun	Yes	Zhwadi has eleven noun classes, and each noun class has a distinct third-person pronoun form, presented here in singular and plural forms: <ul style="list-style-type: none"> • animate class a ~ vya • dirt class me ~ mevo • stone class ka ~ kavo • grass class ta ~ taku • down class lu ~ luvo • water class she ~ shi • ice class i ~ ipi • fire class zu ~ zwi • sky class ni ~ ni • day class ro ~ roi/rozhe • night class je ~ jei/jezhe
GB031	Is there a dual or unit augmented form (in addition to plural or augmented) for all person categories in the pronoun system?	Noun	Pronoun	No	Zhwadi does not have any dual forms for either pronouns or nouns.
GB035	Are there three or more distance contrasts in the demonstratives?	Noun	Demonstrative	Yes	Zhwadi demonstratives demonstrate a three-way distinction based on distance and visibility. The form of the demonstrative shifts if it is an adnominal modifier or an independent pronoun. Below, both forms are provided. The modifier form is a clitic that attaches either directly to the head noun or to a prenominal modifier. (See Feature 022 for more examples.) <ul style="list-style-type: none"> • proximal (to speaker and/or addressee): ko(l)- / ekó • distal and visible (to speaker and/or addressee): gya(v)- / ogyá • distal and not visible (to any participants in the conversation): akla(v)- / vaktá
GB036	Do demonstratives show an elevation distinction?	Noun	Demonstrative	No	There are no elevation distinctions in demonstratives.
GB037	Do demonstratives show a visible-nonvisible distinction?	Noun	Demonstrative	Yes	See Feature 035 for more information.
GB038	Are there demonstrative classifiers?	Noun	Demonstrative	No	Demonstratives do not feature any differences based on the semantic properties of the head noun.
GB039	Is there nonphonological allomorphy of noun number markers?	Noun	Number	Yes	Singular nouns are unmarked, and there are five different plural suffixes, which are not dependent on any phonological features of the stem. Which plural suffix is used with a noun is partially semantically determined, though some nouns are less predictable in which suffix they co-occur with: <ul style="list-style-type: none"> • -(y)á typically only occurs with animate nouns (more specifically, animate nouns capable of volitionally forming groups) (e.g. "sisters") • (v)ó is often used nouns that are found in mounds or can be put into mounds (e.g. "acorns") • kú is the most common and generic plural suffix, occurring with many nouns • -í occurs with nouns that tend to grow to fill a space rather than having individual referents (e.g. "water", as in a great deal of water) • -zhé typically only occurs with temporal nouns or events (e.g. "days")
GB041	Are there several nouns (more than three) which are suppletive for number?	Noun	Number	Not sure	So far, there are no nouns that are suppletive for number.

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB042	Is there productive overt morphological singular marking on nouns?	Noun	Number	No	The singular forms of nouns are unmarked.
GB043	Is there productive morphological dual marking on nouns?	Noun	Number	No	Zhwadi does not have a dual marker for nouns.
GB044	Is there productive morphological plural marking on nouns?	Noun	Number	Yes	See Feature 039 for more information.
GB046	Is there an associative plural marker for nouns?	Noun	Number	Not sure	This is a cool feature, but I'm not sure it will fit as a marker on the noun in my current vision of the noun system as a whole.
GB047	Is there a productive morphological pattern for deriving an action/state noun from a verb?	Noun	Formation	Not sure	Having noun classes means I can turn any verb into a noun in some shape or form. I haven't yet decided if one class marker will be used as the basic (i.e. most generic) derivation.
GB048	Is there a productive morphological pattern for deriving an agent noun from a verb?	Noun	Formation	Yes	The animate noun class marker a(v)- can be used to create an agent noun from a verb, though its meaning is dependent on the verb in question (e.g. it will not always be a generic agent interpretation but may have a specific meaning). For instance: <ul style="list-style-type: none"> • generic agent interpretation: ke "to paint" > aké "painter, artist" • specific interpretation: onī "to howl" > avonī "coyote"
GB049	Is there a productive morphological pattern for deriving an object noun from a verb?	Noun	Formation	Not sure	
GB051	Is there a gender/noun class system where sex is a factor in class assignment?	Noun	Class	No	See Feature 053 for more information.
GB052	Is there a gender/nounclass system where shape is a factor in class assignment?	Noun	Class	No	See Feature 053 for more information.
GB053	Is there a gender/noun class system where animacy is a factor in class assignment?	Noun	Class	Yes	<p>One of the noun classes in Zhwadi is the animate class, so animacy is a factor. Inanimate nouns, though, are further classified into 10 different classes based primarily on texture and touch features. For instance, the grass class of nouns includes nouns that are solid but malleable—they can bend without breaking. The root eza means "body" and is an animate noun. Built off that root are the nouns kreza "trunk (of a tree)" (stone class) and cheza "stalk (of a plant)" (grass class).</p> <p>The classes can also refer to locations (both spatially and temporally) where the noun is typically found. For instance, aké is "bird" (animate class), and its derivatives include shaké "duck" (water class), raké "hummingbird" (day class), and dimaké "owl" (night class).</p> <p>These classes are more easily applied to concrete nouns, and abstract nouns occur in classes that are metaphorically attached to those qualities. The root zhwa means "soul, heart (in a metaphorical sense)" and belongs to the animate class. Built off that root are the nouns zuzhwá "love" (fire class), anzhwá "joy, joyfulness" (sky class), and rozhwa "happiness" (day class).</p>
GB054	Is there a gender/noun class system where plant status is a factor in class assignment?	Noun	Class	No	See Feature 053 for more information.
GB057	Are there numeral classifiers?	Noun	Numeral	Not sure	I'm more likely to incorporate this if I choose a N-Num order (it would end up reflecting postnominal modifiers in that respect). Otherwise, I probably won't include this feature.
GB058	Are there possessive classifiers?	Noun	Possession	No	See Feature 059 for more information.

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB059	Is the adnominal possessive construction different for alienable and inalienable nouns?	Noun	Possession	Yes	Zhwadi distinguishes between alienable and inalienable possessions. Inalienable possession is marked by placing the possessor before the possessed noun without marking the possessor noun for the genitive case (it is treated as a modifier). Alienable possession is marked with the genitive case. <ul style="list-style-type: none"> • Inalienable possession: <i>pela un</i> "a person's nose" • Alienable possession: <i>pelto lugī</i> "a person's bag"
GB065	What is the pragmatically unmarked order of adnominal possessor noun and possessed noun?	Noun	Possession	Possessor-Possessed	Whether it's inalienable or alienable possession, the order of constituents is the possessor followed by the possessed. See Feature 059 for more information.
GB068	Do core adjectives (defined semantically as property concepts such as value, shape, age, dimension) act like verbs in predicative position?	Clause	Core Adjective	No	Zhwadi has a class of core adjectives that are a class of their own, such as <i>pirka</i> "tall" and <i>tanchi</i> "short." In predicative positions, they appear unmarked before the verb. <ul style="list-style-type: none"> • <i>Swo pirka tozhá.</i> "The tree is tall." • <i>Swo pirka tagī.</i> "The tree appears to be tall."
GB069	Do core adjectives (defined semantically as property concepts such as value, shape, age, dimension) used attributively require the same morphological treatment as verbs?	Clause	Core Adjective	Yes	When attributive adjectives appear before the noun they modify, they are unmarked and so are not treated in the same way verbs are. However, when they follow the noun they modify, they take the same prefix that marks a subject index on verbs to agree with the noun being modified: <ul style="list-style-type: none"> • <i>pirka swo</i> "tall tree" • <i>swo tabirka</i> "tall tree"
GB070	Are there morphological cases for non-pronominal core arguments (i.e. S/A/P)?	Noun	Case/Flag	Yes	Case suffixes are a later development in Zhwadi (coming from postpositions that eventually reduced and attached to the noun), so they are much more regular than other inflectional markings and are applied to both nouns and pronouns. There are five cases in Zhwadi, which is a nominative-accusative aligned language: <ul style="list-style-type: none"> • nominative (unmarked form) • accusative <i>-(a)m</i> • genitive <i>-to</i> • dative/locative <i>-za/-ez</i> • instrumental <i>-jo</i> <p>NB: The dative and locative cases came from two different postpositions that, when reduced, were phonologically so similar that they merged.</p>
GB071	Are there morphological cases for pronominal core arguments (i.e. S/A/P)?	Noun	Case/Flag	Yes	See Feature 070 for more information.
GB072	Are there morphological cases for oblique non-pronominal NPs (i.e. not S/A/P)?	Noun	Case/Flag	Yes	See Feature 070 for more information.
GB073	Are there morphological cases for independent oblique personal pronominal arguments (i.e. not S/A/P)?	Noun	Case/Flag	Yes	See Feature 070 for more information.
GB074	Are there prepositions?	Clause	Order	No	See Feature 074 for more information.

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB075	Are there postpositions?	Clause	Order	Yes	Zhwadi is a postpositional language, and the nouns co-occurring with postpositions typically occur in either the accusative or dative/locative case. When used with a pronoun, the form is further reduced so the pronoun appears as a prefix on the postposition without any case marking. <ul style="list-style-type: none"> • jemam mas "during the night" • jemas "during it (night class)" • avazhyám le "with butterflies" • vyale "with them (animate class)"
GB079	Do verbs have prefixes/proclitics, other than those that only mark A, S or P (do include portmanteau: A & S + TAM)?	Verb	TAM	No	Prefixes on verbs only mark A (subject).
GB080	Do verbs have suffixes/enclitics, other than those that only mark A, S or P (do include portmanteau: A & S + TAM)?	Verb	TAM	Yes	Suffixes on verbs include the infinitive marker -(i)l , future tense -ún , and negator -za .
GB081	Is there productive infixation in verbs?	Verb	TAM	No	Zhwadi does not feature any infixation.
GB082	Is there overt morphological marking of present tense on verbs?	Verb	TAM	No	See Feature 084 for more information.
GB083	Is there overt morphological marking on the verb dedicated to past tense?	Verb	TAM	No	See Feature 084 for more information.
GB084	Is there overt morphological marking on the verb dedicated to future tense?	Verb	TAM	Yes	Zhwadi's verbs have a future-nonfuture distinction in tense marking. Unmarked forms of the verb are used for both present and past tenses while future forms are marked with the suffix -ún (the vowel sometimes appears in different forms, depending on the phonological form of the stem): <ul style="list-style-type: none"> • fir "harvest/harvested" ~ firún "will harvest" • tizhó "swing/swinged" ~ tizhón "will swing" • zaví "leap/leapt" ~ zavyún "will leap" • pyaka "jump/jumped" ~ pyakón "will jump"
GB086	Is a morphological distinction between perfective and imperfective aspect available on verbs?	Verb	TAM	No	Zhwadi has a perfective auxiliary. See Feature 120 for more information.
GB089	Can the S argument be indexed by a suffix/enclitic on the verb in the simple main clause?	Verb	Index	No	See Feature 090 for more information.
GB090	Can the S argument be indexed by a prefix/proclitic on the verb in the simple main clause?	Verb	Index	Yes	Zhwadi verbs take an indexing prefix to agree with the S/A argument. As a nominative-accusative language, it does not distinguish between the S and A arguments. The prefixes indicate the class of the S/A argument. For instance, "it grew" might occur as meyuni (dirt class), kuyuni (stone class), or royuni (day class).
GB091	Can the A argument be indexed by a suffix/enclitic on the verb in the simple main clause?	Verb	Index	No	See Feature 090 for more information.
GB092	Can the A argument be indexed by a prefix/proclitic on the verb in the simple main clause?	Verb	Index	Yes	Zhwadi has a series of indexing prefixes to agree with the S/A argument. See Feature 090 for more information.
GB093	Can the P argument be indexed by a suffix/enclitic on the verb in the simple main clause?	Verb	Index	No	See Feature 090 for more information.
GB094	Can the P argument be indexed by a prefix/proclitic on the verb in the simple main clause?	Verb	Index	No	See Feature 090 for more information.

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB095	Are variations in marking strategies of core participants based on TAM distinctions?	Noun	Case/Flag	No	Core participants are marked with the same case suffixes (where applicable) regardless of TAM distinctions.
GB096	Are variations in marking strategies of core participants based on verb classes?	Noun	Case/Flag	No	Core participants are marked with the same case suffixes (where applicable) regardless of verb type.
GB098	Are variations in marking strategies of core participants based on person distinctions?	Noun	Case/Flag	No	While Zhwadi has pronominal forms to indicate person (with first-, second-, and third-person distinctions), the suffixes indicating case do not alter according to person. Those markers are the same.
GB099	Can verb stems alter according to the person of a core participant?	Verb	Index	Not sure	
GB103	Is there a benefactive applicative marker on the verb (including indexing)?	Verb	Index	Not sure	
GB104	Is there an instrumental applicative marker on the verb (including indexing)?	Verb	Index	Not sure	
GB105	Can the recipient in a ditransitive construction be marked like the monotransitive patient?	Clause	Construction	Not sure	
GB107	Can standard negation be marked by an affix, clitic or modification of the verb?	Verb	Negation	Yes	Verbal negation appears as the suffix -za on the verb (or the auxiliary verb in some cases).
GB108	Is there directional or locative morphological marking on verbs?	Verb	Formation	Not sure	
GB109	Is there verb suppletion for participant number?	Verb	Index	Not sure	
GB110	Is there verb suppletion for tense or aspect?	Verb	TAM	Not sure	
GB111	Are there conjugation classes?	Verb	Verb Type	No	Zhwadi verbs demonstrate the same conjugation patterns.
GB113	Are there verbal affixes or clitics that turn intransitive verbs into transitive ones?	Verb	Formation	Not sure	
GB114	Is there a phonologically bound reflexive marker on the verb?	Verb	Index	Not sure	
GB115	Is there a phonologically bound reciprocal marker on the verb?	Verb	Index	Not sure	
GB116	Do verbs classify the shape, size or consistency of absolutive arguments by means of incorporated nouns, verbal affixes or suppletive verb stems?	Verb	Index	No	Absolutive arguments are not indexed on or otherwise incorporated into the verb form.
GB117	Is there a copula for predicate nominals?	Verb	Verb Type	Yes	Zhwadi has four different copular verb forms used with predicate nominals: <ul style="list-style-type: none"> • shā "to be" (generic copula) • kī "to seem, to appear" • gya "to be (short-term or temporary state of being)" • rozhi "to be (long-term or more permanent state of being)"
GB118	Are there serial verb constructions?	Verb	Construction	Not sure	
GB119	Can mood be marked by an inflecting word ("auxiliary verb")?	Verb	TAM	Not sure	

Grambank Feature	Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB120 Can aspect be marked by an inflecting word ("auxiliary verb")?	Verb	TAM	Yes	The perfective auxiliary, <i>vi</i> , in Zhwadi is primarily used in storytelling and narrations, though it can also be used in other circumstances to disambiguate a present/past interpretation. <ul style="list-style-type: none"> • <i>tizhó vil</i> "to have swung" • <i>pyaka avi</i> "she jumped" • <i>zavi leviza</i> "you didn't leap" • <i>firza lovi</i> "we didn't harvest"
GB121 Can tense be marked by an inflecting word ("auxiliary verb")?	Verb	TAM	No	Tense is marked as a suffix on the verb. See Feature 084 for more information.
GB122 Is verb compounding a regular process?	Verb	Formation	Not sure	
GB123 Are there verb-adjunct (aka light-verb) constructions?	Verb	Construction	Not sure	
GB124 Is incorporation of nouns into verbs a productive intransitivizing process?	Verb	Formation	Not sure	
GB126 Is there an existential verb?	Verb	Verb Type	Not sure	
GB127 Are different posture verbs used obligatorily depending on an inanimate locatum's shape or position (e.g. 'to lie' vs. 'to stand')?	Verb	Verb Type	Not sure	
GB129 Is there a notably small number, i.e. about 100 or less, of verb roots in the language?	Verb	Verb Type	Not sure	
GB130 What is the pragmatically unmarked order of S and V in intransitive clauses?	Clause	Order	SV	Zhwadi is an SOV language, and that constituent order is followed in pragmatically unmarked instances regardless of transitivity of the verb or status of the clause.
GB131 Is a pragmatically unmarked constituent order verb-initial for transitive clauses?	Clause	Order	No	See Feature 130 for more information.
GB132 Is a pragmatically unmarked constituent order verb-medial for transitive clauses?	Clause	Order	No	See Feature 130 for more information.
GB133 Is a pragmatically unmarked constituent order verb-final for transitive clauses?	Clause	Order	Yes	See Feature 130 for more information.
GB134 Is the order of constituents the same in main and subordinate clauses?	Clause	Order	Yes	See Feature 130 for more information.
GB135 Do clausal objects usually occur in the same position as nominal objects?	Clause	Order	Not sure	
GB136 Is the order of core argument (i.e. S/A/P) constituents fixed?	Clause	Order	Not sure	For pragmatic purposes, Zhwadi could allow for alternate orders (since arguments and oblique constituents will be marked for their roles).
GB137 Can standard negation be marked clause-finally?	Clause	Negation	Not sure	
GB138 Can standard negation be marked clause-initially?	Clause	Negation	Not sure	
GB139 Is there a difference between imperative (prohibitive) and declarative negation constructions?	Clause	Negation	Not sure	
GB140 Is verbal predication marked by the same negator as all of the following types of predication: locational, existential and nominal?	Clause	Negation	Not sure	
GB146 Is there a morpho-syntactic distinction between predicates expressing controlled versus uncontrolled events or states?	Verb	Construction	Not sure	

	Grambank Feature	Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB147	Is there a morphological passive marked on the lexical verb?	Verb	(Anti)Passive	Not sure	
GB148	Is there a morphological antipassive marked on the lexical verb?	Verb	(Anti)Passive	Not sure	
GB149	Is there a morphologically marked inverse on verbs?	Verb	(Anti)Passive	Not sure	
GB150	Is there clause chaining?	Clause	Construction	Not sure	
GB151	Is there an overt verb marker dedicated to signalling coreference on noncoreference between the subject of one clause and an argument of an adjacent clause ("switch reference")?	Clause	Construction	Not sure	
GB152	Is there a morphologically marked distinction between simultaneous and sequential clauses?	Clause	Construction	Not sure	
GB155	Are causatives formed by affixes or clitics on verbs?	Clause	Construction	Yes	Causatives can be formed with the prefix da(f)- , as in datavi "to inspire" ("cause-ignite") and davida "to create" ("cause-exist").
GB156	Is there a causative construction involving an element that is unmistakably grammaticalized from a verb for 'to say'?	Clause	Construction	Not sure	
GB158	Are verbs reduplicated?	Verb	Formation	Not sure	
GB159	Are nouns reduplicated?	Noun	Formation	Not sure	
GB160	Are elements apart from verbs or nouns reduplicated?	Clause	Formation	Not sure	
GB165	Is there productive morphological trial marking on nouns?	Noun	Number	No	Nouns only have singular and plural forms.
GB166	Is there productive morphological paucal marking on nouns?	Noun	Number	No	Any paucal marking is carried by a modifier rather than as a bound unit on the noun.
GB167	Is there a logophoric pronoun?	Noun	Pronoun	Not sure	
GB170	Can an adnominal property word agree with the noun in gender/noun class?	Noun	Property Word	Yes	When adjectives (i.e. not nouns) are used as postnominal modifiers, they agree with the noun in class. See Feature 026 for examples.
GB171	Can an adnominal demonstrative agree with the noun in gender/noun class?	Noun	Demonstrative	No	Adnominal demonstratives attach as prefixed clitics to the noun and do not reflect the noun's class. See Feature 025 for examples.
GB172	Can an article agree with the noun in gender/noun class?	Noun	Article	No	Zhwadi lacks articles. See Feature 020 for more information.
GB177	Can the verb carry a marker of animacy of argument, unrelated to any gender/noun class of the argument visible in the NP domain?	Verb	Index	No	While animacy is one of the index possibilities on verbs, the verb index reflects the noun class of the argument. If the subject of the verb belongs to the animate noun class, the animate prefix marker occurs with the verb. If the subject belongs to the grass class, the grass prefix marker is used. (That remains the case for all eleven noun classes.)
GB184	Can an adnominal property word agree with the noun in number?	Noun	Property Word	No	Modifiers are not marked for plurality to agree with the noun in number. For instance, compare zuki avāzhi "butterfly" and zuki avazhá "butterflies." In fact, when the modifier is a noun itself, it can be marked with number to create a meaningful distinction in some instances (not all): sarā swo "leafy tree (i.e. a deciduous tree)" can be contrasted with saravó swo "leafy tree (i.e. a tree with many leaves on it)".
GB185	Can an adnominal demonstrative agree with the noun in number?	Noun	Demonstrative	No	Adnominal demonstratives attach as prefixed clitics to the noun and do not reflect the noun's number. For instance, compare kol-anjé "this bee" and kol-andiyá "these bees."

	Grambank Feature	Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB186	Can an article agree with the noun in number?	Noun	Article	No	Zhwadi lacks articles. See Feature 020 for more information.
GB187	Is there any productive diminutive marking on the noun (exclude marking by system of nominal classification only)?	Noun	Formation	Not sure	
GB188	Is there any productive augmentative marking on the noun (exclude marking by system of nominal classification only)?	Noun	Formation	Not sure	
GB192	Is there a gender system where a noun's phonological properties are a factor in class assignment?	Noun	Class	Not sure	Probably not since I have so far made class assignments based on semantics. It may be an option for abstract nouns that defy categorization, but I think I'd prefer to stick with finding the closest semantic match.
GB193	What is the order of adnominal property word and noun?	Noun	Property Word	ANM - N	Most adnominal modifiers appear before the noun. See Feature 026 for more information.
GB196	Is there a male/female distinction in 2nd person independent pronouns?	Noun	Pronoun	No	Zhwadi does not mark gender/sex distinctions.
GB197	Is there a male/female distinction in 1st person independent pronouns?	Noun	Pronoun	No	Zhwadi does not mark gender/sex distinctions.
GB198	Can an adnominal numeral agree with the noun in gender/noun class?	Noun	Numeral	Not sure	
GB203	What is the order of the adnominal collective universal quantifier ('all') and the noun?	Noun	Article	Not sure	
GB204	Do collective ('all') and distributive ('every') universal quantifiers differ in their forms or their syntactic positions?	Noun	Article	Not sure	
GB250	Can predicative possession be expressed with a transitive 'habeo' verb?	Clause	Possession	Not sure	
GB252	Can predicative possession be expressed with an S-like possessum and a locative-coded possessor?	Clause	Possession	Not sure	
GB253	Can predicative possession be expressed with an S-like possessum and a dative-coded possessor?	Clause	Possession	Not sure	
GB254	Can predicative possession be expressed with an S-like possessum and a possessor that is coded like an adnominal possessor?	Clause	Possession	Not sure	
GB256	Can predicative possession be expressed with an S-like possessor and a possessum that is coded like a comitative argument?	Clause	Possession	Not sure	
GB257	Can polar interrogation be marked by intonation only?	Clause	Interrogative	Not sure	
GB260	Can polar interrogation be indicated by a special word order?	Clause	Interrogative	Not sure	
GB262	Is there a clause-initial polar interrogative particle?	Clause	Interrogative	Not sure	
GB263	Is there a clause-final polar interrogative particle?	Clause	Interrogative	Not sure	
GB264	Is there a polar interrogative particle that most commonly occurs neither clause-initially nor clause-finally?	Clause	Interrogative	Not sure	
GB265	Is there a comparative construction that includes a form that elsewhere means 'surpass, exceed'?	Clause	Construction	Not sure	

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB266	Is there a comparative construction that employs a marker of the standard which elsewhere has a locational meaning?	Clause	Construction	Not sure	
GB270	Can comparatives be expressed using two conjoined clauses?	Clause	Construction	Not sure	
GB273	Is there a comparative construction with a standard marker that elsewhere has neither a locational meaning nor a 'surpass/exceed' meaning?	Clause	Construction	Not sure	
GB275	Is there a bound comparative degree marker on the property word in a comparative construction?	Clause	Construction	Not sure	
GB276	Is there a non-bound comparative degree marker modifying the property word in a comparative construction?	Clause	Construction	Not sure	
GB285	Can polar interrogation be marked by a question particle and verbal morphology?	Clause	Interrogative	Not sure	
GB286	Can polar interrogation be indicated by overt verbal morphology only?	Clause	Interrogative	Not sure	
GB291	Can polar interrogation be marked by tone?	Clause	Interrogative	Not sure	
GB296	Is there a phonologically or morphosyntactically definable class of ideophones that includes ideophones depicting imagery beyond sound?	Clause	Formation	Not sure	
GB297	Can polar interrogation be indicated by a V-not-V construction?	Clause	Interrogative	Not sure	
GB298	Can standard negation be marked by an inflecting word ("auxiliary verb")?	Clause	Negation	Not sure	
GB299	Can standard negation be marked by a non-inflecting word ("auxiliary particle")?	Clause	Negation	Not sure	
GB300	Does the verb for 'give' have suppletive verb forms?	Verb	Verb Type	No	The verb <i>heza</i> "to give" does not have suppletive forms.
GB301	Is there an inclusory construction?	Noun	Formation	Not sure	
GB302	Is there a phonologically free passive marker ("particle" or "auxiliary")?	Clause	(Anti)Passive	Not sure	
GB303	Is there a phonologically free antipassive marker ("particle" or "auxiliary")?	Clause	(Anti)Passive	Not sure	
GB304	Can the agent be expressed overtly in a passive clause?	Clause	(Anti)Passive	Not sure	
GB305	Is there a phonologically independent reflexive pronoun?	Noun	Pronoun	Not sure	
GB306	Is there a phonologically independent non-bipartite reciprocal pronoun?	Noun	Pronoun	Not sure	
GB309	Are there multiple past or multiple future tenses, distinguishing distance from Time of Reference?	Verb	TAM	No	Zhwadi does not distinguish distance from time of reference on the verb (context, adverbs, and other added information can distinguish that where necessary). See Feature 084 for examples of the future-nonfuture distinction.
GB312	Is there overt morphological marking on the verb dedicated to mood?	Verb	TAM	Not sure	

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB313	Are there special adnominal possessive pronouns that are not formed by an otherwise regular process?	Noun	Pronoun	Not sure	
GB314	Can augmentative meaning be expressed productively by a shift of gender/noun class?	Noun	Class	Not sure	Probably not since the semantics of the noun classes don't lend themselves to diminutive/augmentative readings.
GB315	Can diminutive meaning be expressed productively by a shift of gender/noun class?	Noun	Class	Not sure	Probably not since the semantics of the noun classes don't lend themselves to diminutive/augmentative readings.
GB316	Is singular number regularly marked in the noun phrase by a dedicated phonologically free element?	Noun	Number	No	Singular nouns in Zhwadi are unmarked forms, while plural forms occur with one of five plural suffixes. See Feature 039 for more information and examples.
GB317	Is dual number regularly marked in the noun phrase by a dedicated phonologically free element?	Noun	Number	No	Plural forms occur with one of five plural suffixes, and plurality does not distinguish dual or trial number. See Feature 039 for more information and examples.
GB318	Is plural number regularly marked in the noun phrase by a dedicated phonologically free element?	Noun	Number	No	Plural forms occur with one of five plural suffixes. See Feature 039 for more information and examples.
GB319	Is trial number regularly marked in the noun phrase by a dedicated phonologically free element?	Noun	Number	No	Plural forms occur with one of five plural suffixes, and plurality does not distinguish dual or trial number. See Feature 039 for more information and examples.
GB320	Is paucal number regularly marked in the noun phrase by a dedicated phonologically free element?	Noun	Number	Not sure	
GB321	Is there a large class of nouns whose gender/noun class is not phonologically or semantically predictable?	Noun	Class	No	While some class assignments in Zhwadi may be more unpredictable or idiosyncratic (e.g. abstract nouns), they are all classified into one of 11 classes with some basic tendencies to match the noun to the class's basic semantic features. See Feature 053 for examples.
GB322	Is there grammatical marking of direct evidence (perceived with the senses)?	Verb	Formation	Not sure	
GB323	Is there grammatical marking of indirect evidence (hearsay, inference, etc.)?	Verb	Formation	Not sure	
GB324	Is there an interrogative verb for content interrogatives (who?, what?, etc.)?	Clause	Interrogative	Not sure	
GB325	Is there a count/mass distinction in interrogative quantifiers?	Clause	Interrogative	Not sure	
GB326	Do (nominal) content interrogatives normally or frequently occur in situ?	Clause	Interrogative	Not sure	

Grambank Feature	Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB327 Can the relative clause follow the noun?	Clause	Relative Clause	Yes	<p>A relative clause directly follows the noun in most instances. Relative clauses require the relativizer <i>kori</i> at the beginning of the clause, and then the relative clause structure follows the typical SOV pattern found in main clauses. In the examples below, the noun being modified is underlined, and the relative clause is in square brackets.</p> <ul style="list-style-type: none"> • <i>Pela [kori shokikūm bera avi] chamazdam varín.</i> "The person [who cut sticks] weaves a blanket." • <i>Pela chamazdam [kori ta ubera] arín aví.</i> "The person wove the blanket that I cut." <p>Like main clauses, relative clauses can omit the independent subject pronoun. Speakers can choose to include the independent pronouns, as in these modified examples:</p> <ul style="list-style-type: none"> • <i>Pela [kori a shokikūm bera avi] chamazdam varín.</i> "The person [who cut sticks] weaves a blanket." • <i>Pela chamazdam [kori wo ta ubera] arín aví.</i> "The person wove the blanket that I cut."
GB328 Can the relative clause precede the noun?	Clause	Relative Clause	No	Relative clauses do not appear before the noun they modify in Zhwadi.
GB329 Are there internally-headed relative clauses?	Clause	Relative Clause	No	The relative clause is treated syntactically distinct from the main clause structure, so there are no internally-headed relative clause structures.
GB330 Are there correlative relative clauses?	Clause	Relative Clause	No	There is no anaphoric pronoun in the main clause, so Zhwadi does not have any correlative relative clause structures.
GB331 Are there non-adjacent relative clauses?	Clause	Relative Clause	Yes	<p>While relative clauses most typically follow the noun they modify, they can occur after the verb of the main clause. This typically occurs when a speaker wishes to add information as an afterthought or when the relative clause is especially heavy. The two examples provided in Feature 327 can be reworded as the following:</p> <ul style="list-style-type: none"> • <i>Pela chamazdam varín [kori (a) shokikūm bera avi].</i> "The person [who cut sticks] weaves a blanket." • <i>Pela chamazdam arín aví [kori (wo) ta ubera].</i> "The person wove the blanket that I cut." <p>As with the previous examples, the independent subject pronouns are optional, so they are indicated in parentheses in these examples.</p>
GB333 Is there a decimal numeral system?	Noun	Numeral	No	Zhwadi is a base-12 language. While multiples of 12 are important for counting higher numbers, multiples of ten are not.
GB334 Is there synchronic evidence for any element of a quinary numeral system?	Noun	Numeral	No	No numbers are formed based on a root of five.
GB335 Is there synchronic evidence for any element of a vigesimal numeral system?	Noun	Numeral	No	No numbers are formed based on a root of twenty.
GB336 Is there a body-part tallying system?	Noun	Numeral	No	No numbers refer to body parts.
GB400 Are all person categories neutralized in some voice, tense, aspect, mood and/or negation?	Verb	TAM	Not sure	
GB401 Is there a class of patient-labile verbs?	Verb	Verb Type	Not sure	
GB402 Does the verb for 'see' have suppletive verb forms?	Verb	Verb Type	Not sure	

Grambank Feature		Basic Category	Subcategory	Y/N	Conlang Description and Example(s)
GB403	Does the verb for 'come' have suppletive verb forms?	Verb	Verb Type	Not sure	
GB408	Is there any accusative alignment of flagging?	Noun	Case/Flag	Yes	S and P arguments are flagged differently: the S argument is unmarked while the P argument occurs with the suffix -(a)m .
GB409	Is there any ergative alignment of flagging?	Noun	Case/Flag	No	S and A arguments are flagged the same (i.e. they are unmarked).
GB410	Is there any neutral alignment of flagging?	Noun	Case/Flag	Not sure	
GB415	Is there a politeness distinction in 2nd person forms?	Noun	Pronoun	Not sure	
GB421	Is there a preposed complementizer in complements of verbs of thinking and/or knowing?	Clause	Construction	Not sure	
GB422	Is there a postposed complementizer in complements of verbs of thinking and/or knowing?	Clause	Construction	Not sure	
GB430	Can adnominal possession be marked by a prefix on the possessor?	Noun	Possession	No	See Feature 059 for more information.
GB431	Can adnominal possession be marked by a prefix on the possessed noun?	Noun	Possession	No	See Feature 059 for more information.
GB432	Can adnominal possession be marked by a suffix on the possessor?	Noun	Possession	Yes	While inalienable possession does not occur with any suffixes, alienable possession is marked with the genitive suffix on the possessor. See Feature 059 for examples.
GB433	Can adnominal possession be marked by a suffix on the possessed noun?	Noun	Possession	No	See Feature 059 for more information.
GB519	Can mood be marked by a non-inflecting word ("auxiliary particle")?	Verb	TAM	Not sure	
GB520	Can aspect be marked by a non-inflecting word ("auxiliary particle")?	Verb	TAM	Not sure	
GB521	Can tense be marked by a non-inflecting word ("auxiliary particle")?	Verb	TAM	No	Tense is marked by an overt suffix on the verb form. See Feature 084 for more information.
GB522	Can the S or A argument be omitted from a pragmatically unmarked clause when the referent is inferable from context ("pro-drop" or "null anaphora")?	Clause	Construction	Yes	The S/A arguments can be omitted. When the S/A argument is a pronoun, it is typically omitted. <ul style="list-style-type: none"> • Tivi achún. "The child is sewing." / "The child sewed." • A achún. "He/she is sewing." / "He/she sewed." • Achún. "He/she is sewing." / "He/she sewed."