GALICE ATHAPASKAN: A GRAMMATICAL SKETCH

HARRY HOIJER

University of California, Los Angeles

- 1. Introduction
- 2. Phonology
- 3. Morpheme classes
- 4. Possessives
- 5. Noun bases
- **6.** Verb forms
- 7. Postpositions and pronominal prefixes
- 8. Object pronoun prefixes
- 9. Verb classes
- 10. Subject pronoun prefixes
- 11. Verb paradigms

1. Galice Athapaskan was spoken in southwestern Oregon on Galice Creek, a branch of the upper Rogue River. The language is now extinct; the last known speaker, Hoxie Simmons, died a few years ago. Our record of Galice comes mainly from a large body of texts (as yet unpublished) collected by Melville Jacobs in 1933-34. With characteristic kindness, Jacobs gave me access to these texts and in 1956, I spent about two months with Hoxie Simmons and added to the corpus a good deal of lexical and grammatical data. The present sketch is based on materials from Jacobs' texts and on the additional materials collected by me in 1956.

Galice belongs to the Pacific division of the Athapaskan stock. Within that group, Galice is a member of the Oregon division.¹

2. Galice has the following stops: voiceless lenis b, d, g, g^w, and ?; voiceless fortis (with slight aspiration) t, k, and k^w; and glottalized t', k', and k'^w. The one bilabial is b; d, t, and t' are apico-alveolars; g, k, and k', velars; g^w, k^w, and k'^w, labialized velars; and ? is faucal.

¹ Harry Hoijer, Athapaskan Languages of the Pacific Coast, in Culture in History, ed. by Stanley Diamond (New York, Columbia University Press, 1960).

All the stops occur as stem initials, and all except t' may begin a prefix. Only d, g, and may terminate a stem. In this position d, g, and tend to be unreleased.

There are six affricates: voiceless lenis dz and dž, voiceless fortis tš, and glottalized ts', tš', and t'ł. All occur as stem initials but only ts', tš, and tš' may begin a prefix. None are found as stem finals.

Nasal stops, both voiced, are m (bilabial) and n (alveolar). Both occur as stem and prefix initials but only n is found as a stem final.

Galice has one spirant, faucal h; three sibilants, alveolar s and z, and blade-alveolar š; and two laterals, spiranted alveolar ł and voiced alveolar l. All of these consonants occur as prefix initials, all except z and h as stem initials, and all except z as stem finals.

Glides: voiceless bilabial W, voiced bilabial w, and voiced palatal y. All occur as stem and prefix initials; none occur in the stem-final position.

There are a number of consonant clusters; in all of these, one member is the glottal stop. The cluster 'w is the only one to begin a stem; the rest, m', n', 's, 's, and 'l occur only as stem finals.

Vowels: high front i [I] except in clusters where it is [i]), mid-front e ([ɛ] in all positions), low central or back a (the variation appears to be free), and high back rounded o (lowered [u] except in clusters where it is more like a raised [o]).

Vowel clusters: ii, ee, aa, oo, ei, ea, ai, ao, and oi. The identical clusters (ii, ee, aa, oo) are pronounced as long vowels; /ee/, however, varies freely between [ɛɛ] and [ɛi], the latter quite distinct phonetically from the cluster [ɛi]. In the remaining clusters the vowels have approximately equal sonority.

Nasalization may accompany all vowels and identical vowel clusters except e and ee.

Other vowel clusters are apparently never accompanied by nasalization.

3. The morphemes of Galice fall into four major classes: stems, prefixes, postpositions, and enclitics. Stems generally begin with a consonant (there are a few with vocalic initials) and may terminate in a vowel, a consonant, or a consonant cluster. The stem syllabic is a single vowel or a cluster of two vowels. Following is a sampling of the more common stem shapes

?ee grave, ?ag fog, ban? flies (insects), -dadee hate (someone), -bade? house, -bai? stomach, -?aa?l chew (perfective stem), -?oodee brother's son, -baage? wife of deceased brother. Some exceptional stem types are represented by -?waa lie log-like, šdal wood rat, -daai² eye, and -dast'e? body.

Prefixes are of two varieties: derivational prefixes and grammatical prefixes. The former variety, when combined with a stem, makes up a word base. Thus, the verb base da- ... -?aš, -?aa, -?ał bring a round object back contains the derivational prefix daback and the stem -?aš, -?aa, -?ał handle a round object.³ Nearly all derivational prefixes have the shapes cv: e.g., ts'e- (take it) out.

Grammatical prefixes (e.g. prefixes denoting pronouns, number, aspect, etc.) are fewer in number than derivationals but exhibit a greater variety of shapes. Illustrations will be found in the discussions to follow.

Postpositions always occur in combination with a pronominal prefix which functions as the goal of the postposition. Examples b-aa- for his benefit, š-gan- (talk) about me, ša-l- in company with me, bi-ts'an?-to, toward him. Enclitics have shapes very

² In sequences of three vowels, as in this example, the last vowel is syllabic; thus, daa-i (the hyphen separates syllables).

³ Bases frequently have more than one stem allomorph. In the examples cited here and elsewhere, the first allomorph (of verb bases) is used in the imperfective paradigm, the second in the perfective, and the third in the progressive.

like those of stems: -tee, future tense, -k'eh like, similar to, -ade? if.

Words in Galice may consist of a single free base or of a base combined with one or more grammatical prefixes. Postpositions and enclitics may be regarded as semi-words—that is, as forms, like the articles and prepositions of English that rarely or never occur independently but nearly always in combination with another (and free) form. At the opposite extreme are compounds: forms made up of two or more words combined (often in an altered shape) into a single unit.

There are three major word classes in Galice: nouns, verbs, and particles. Nouns are subject to only one inflection, the possessive. Verbs are inflected for person and number only (neuter verbs) or for person, number, and aspect (active and passive verbs). Particles—which include forms that function as adverbs, adjectives, numerals, and connectives—are not inflected at all.

4. The possessive of the noun is formed by adding a pronoun prefix to the noun base: laade? salmon basket, š-laade? my salmon basket. The prefixes of the possessive paradigm are given in Table I.

Examples are:

š-: š-ts'eh my sinew; š-aasee my cousin; š-ijsas my nose.

n-,d-: n-ts'eh your sinew; d-aasee your cousin; n-iisas your nose.

wa-, b-, m-: wa-ts'eh his sinew; b-aasee his cousin; m-iisas his nose. 'His' in these examples means 'his, her, or its'. In some nouns, the 3rd. p. prefix wa- alternates with a zero prefix and the shape of the base is altered: wa-gaane? or gwaane? his arm, wa-ganyo? or gwanyo? his claw, wa-kaak'ai? or kwaak'ai? his rib, wa-ke? or kwe? his foot, his tracks, wa-k'eeyoo or k'weeyoo his brother-in-law, wa-ah or 'wah his wife. The altered bases also occur in the 3rd. p. pl. together with the prefix: e.g., hoo-gwaane? their arm.

doo-, daw-, naw-: doo-ts'eh our, your, sinew; daw-aasee our, your, cousin; nawijsas our, your, nose.

_				_
т	A	BI	L H.	- 1

Person	Stems beginning with:			
Person	Consonant	Oral vowel	Nasal vowel	
Sg. 1	š-	š-	š-	
Sg. 2	n-	d-	n-	
Sg. 3	wa-	b-	m-	
Pl. 1, 2	doo-	daw-	haw-	
Pl. 3	hoo-	hoob-	hoom-	
Indef. A	tš'a-			
Indef. B	Wa-			
Recip.	ł-			

hoo-, hoob-, hoom-: hoo-ts'eh their sinew; hoob-aasee their cousin; hoom-jisas their nose.

tš'a- is apparently an indefinite pronoun that refers to some animal or to animals in general: tš'a-de? (animals') horns, tš'a-ni? a deerhead mask used in ceremonies (literally: some [animal's] face), tš'a-geese? eggs (implicitly of animals), tš'a-ke? (animal's) foot, tracks of (animals), tš'a-wa? body hair (of animals), tš'a-sa?ł liver (of animals), tš'asan? meat, especially venison (literally: [animals'] flesh), tš'a-saa brains (of an animal).

Wa- is also an indefinite pronoun but one that appears to refer to humans: Wa-ta? someone's father, Wa-dast'e? someone's body, Wa-ke? someone's foot, tracks (cf. tš'a-ke?, Wa-saane? someone's excrement, above), Wa-saa someone's brains (cf. tš'a-saa, above).

1-: 1-k'eeyoo each other's brother-in-law.

5. Noun bases may consist of a single stem morpheme (simple bases), an apparent, but unanalyzable, sequence of morphemes (complex bases), a verb form or verbal phrase (nominalized verbs), and compounds. The four types are briefly illustrated below.

Simple nouns: ban? flies (insects), bah enemy or hostile warriors, dał blood, too water (in nature), river, t'aas cottonwood tree, goo worm, maggot, kai winter, year. A number of simple nouns appear only in the possessive; the base is not a free form: -ii?ee son,

-?ah wife, -bai? stomach, -da? mouth, -ni? face. Nearly all the noun bases in this category denote kin terms or body parts (of men, animals, and plants).

Complex nouns: in these the last syllable is assumed to be a stem. Some complex nouns, however, may represent nominalized verbs (the form no longer used as a verb) or compounds made up of stems no longer used independently. Examples are: dzišł?ee sweat house, hadal?aa warrior, kašdabaa morning, dalbai knife, t'aamiš hat, taaldaš Galice Indians, daštšoh grouse, desdei man, tšanti? flint. Complex nouns denoting kin terms and body parts appear only in the possessive: -dast'e? body, -desade? husband, -kast'ei? lungs.

Nominalized verbs: only a few of these are found in my data. Examples are: tš'aniłdaš round dance (= he dances the round dance), šeekee taa?al?a? ceremonial bathing of a newborn child (= he puts a child in the water), taadnil soup or mush, especially acorn mush (= [a soup] is made), daaWadkaa war (= fighting goes on). In some nominalized verbs, there is a relative enclitic: tšabaayo yalts'oosa humming bird (tšabaayo flowers: yalts'oos he sucks them; -a, relative one who).

Compounds are combinations of two (rarely, three) noun bases of any of the categories already described. Examples are: man?-da? smoke hole (= house [its] mouth), nan?dei-si?, place (in the east ?) where all peoples originated (= earth [its] head), t'lohdadei Umpqua Indians (= grass people), łeeadnii-dadei, tribal name (łeeadnii where waters flow together [a nominalized verb] plus dadei people).

The bases of many nouns (mainly the simple nouns) have two shapes, one used in the absolute form, the other in the possessive. The alternations are not predictable. Examples are: man? house, š-bade? my house; st'e? blanket, š-ast'e? my blanket; ts'ad money, š-ts'ade? my money; šan song, wašade? his song.

Number is not ordinarily marked in the noun. A few nouns, all of which are kin terms, have a plural, marked by the enclitics -yoo or -kee: š-aasee my cousin, š-aasee-yoo my cousins; bii'ee his son, b-ii'ee-kee his sons; š-k'eeyoo my brother-in-law, š-k'eeyoo-yoo my brothers-in-law.

6. A Galice verb form is made up of a stem preceded by one or more grammatical prefixes and zero, one or more derivational prefixes. The order of the prefixes relative to the stem is as follows.

Positions 1 and 2 are filled, if at all, by a pronoun prefix plus a postposition; neither occurs without the other.

Position 3 is filled, if at all, by one or more derivational prefixes.

Position 4 is filled only in the third person plural, which is formed by adding hi- (or ha-) to the third singular.

Position 5 may, in intransitive verbs, be filled by the pronominal ho-, which refers to a place or time. In transitive verbs, an object pronoun prefix apparently fills this position. Since there are no verbs in the corpus which include both ho- and an object pronoun, the order of these relative to each other cannot be determined.

Position 6 is filled, if at all, by a derivational prefix. A verb base may have no derivational prefixes, one or more in position 3, one in position 6, or one each in positions 3 and 6.

Position 7 is filled by an aspectival prefix. If the position is not filled, the verb form belongs to the zero-imperfective.

Position 8 is filled by a subject pronoun prefix, other than the ho- of position 5. If position 8 is not filled, the verb form is in the third person singular or plural.

Position 9 is filled by one of the classifiers l-, l-, or d-. Verbs lacking a prefix in this position belong to the zero-class.

Position 10 is filled by a stem allomorph.

7. Postpositions always occur in combination with a pronominal prefix, although, as noted in Table II, the prefix may be a zero morph. It is also evident from Table

TABLE II

Person	A	В	С	D
Sg. 1 Sg. 2 Sg. 3 Sg. 3a Pl. 1, 2 Pl. 3 Pl. 3a Reflexive Reciprocal	š- n- zero zero doo- hoo- hoo- da- ł-	ša- da- ba- ya- dawa- hooba- hoo-ya ła-	š- d- b- y- daw- hoo-b-	š- n- m- y- naw- hoo-m-
Indefinite	_		tš'	_

II that most of these prefixes are like those employed with nouns and those (discussed in 8) that appear in position 5 of the verb.

Each of the pronominal prefixes listed in Table II has two or more allomorphs. The allomorphs listed in column A occur before postpositions that have the shape cv or cvc, those in column B before the postposition l- in company with, those in column C before postpositions that have the shape v or vv, and those in column D before postpositions that are made up of nasalized vowels. Where a dash occurs, there is no evidence of the prefix concerned occurring in the indicated position.

Examples are:

Sg. 1: š-tš'an?-yasšił he shouted at (toward) me, ša-ł-Waldad he told a story to me, š-aa-lał he dreams about me, š-aa-lał you dream about me.

Sg. 2: n-tš'an?-yasšił he shouted at you, da-ł-Waldad he told a story to you, d-aa-šlał I dream about you, n-ęę-lsi? he is related to you.

Sg. 3 is used when the subject of the verb is other than third person, sg. 3a when the subject of the verb is also third person. Under condition A, this distinction is not maintained: tš'an-daadašyaš I go in to him, tš'an?-danijyaš you go in to him, tš'an?-daadaš he goes in to him.

Under condition B: ba-ł-Wašdad I told a story to him, ya-ł-Waldad he told a story to him.

Conditions C, D: b-aa-šlał *I dream about him*, m-aa-lał *you dream about him*, y-aa-lał

he dreams about him; b-aa-sašlał I have dreamed about him, m-aa-sii-lał you have dreamed about him (m- by reason of the nasalized vowel of the following prefix), y-aa-s-lał he has dreamed about him.

Pl. 1, 2: doo-tš'an?-yasiššił I shouted at you (pl.), doo-tš'an?-yasiįšił you shouted at us, dawa-ł-Waldad he told a story to us, you (pl.), daw-aa-lał he dreams about us, you (pl.), naw-aa-lał you dream about us.

Pl. 3, 3a: These prefixes are obviously combinations of hoo-, plural, and the sg. 3, 3a prefixes: hoo-ts'an?-daadašyas I go in to them, hoo-tš'an?-daadaš he goes in to them; hoo-ba-ł-Wašdad I tell a story to them, hoo-ya-ł-Waldad he told a story to them; hoo-b-aa-šlał I dream about them, hoo-y-aa-lał he dreams about them, hoo-m-aalał you dream about them, hoo-y-ee-lsi? he is related to them.

Reflexive: here we find the prefix only under condition A: da-tš'an?-dadaat'aa he talks to himself.

Reciprocal: found only under conditions A and B: l-gaa-ts'odnii they give help to each other, la-l-Waldad they tell stories to each other.

Indefinite: found only under condition C: tš'-aa-sašlał *I dream about someone*.

8. The object prefixes are listed in Table III; it will be noted that they differ in shape depending on what morphemes follow and/or precede them. There are four possible positions: A, before a prefix consisting of a

TABLE III
OBJECT PRONOUN PREFIXES

Position:	A	В	С	D
Sg. 1 Sg. 2 Sg. 3 Sg. 3a Pl. 1, 2 Reflexive Reciprocal	ša- da- zero ya- dawa- da- ła-	š- n- zero zero/i- doo-	š- d- zero y- daw- di-/d- ł-	ši- zero naw- di-
Indefinite	tš'a-	tš'a-	tš'-	tš'i-, tš'ą-

consonant alone, or before a stem initial consonant; B, before a prefix cv-, or between two prefixes cv-; C, before a prefix beginning with an oral vowel; D, before a prefix beginning with a nasal vowel, or one which consists of nasality alone.

Examples are:

Sg. 1 (prefixes are separated from each other and the stem by hyphens): de-ša-l-?ii he sees me, ša-l-tal he kicks me, te-ša-?aš he leaves me, ti-š-gii-?aa he has left me, daa-š-o?o-l-bee you (pl.) bathe me, daa-ši-l-bee you bathe me (the nasalization of ši- is the mark of the sg. 2 subject prefix; see 10).

Sg. 2: da-\frac{1}{2}-ta\frac{1}{2} he kicks you, de-da-\frac{1}{2}\frac{1}{2}\frac{1}{2} he sees you, te-da-\frac{1}{2}a\frac{1}{2} he leaves you, ti-n-gij-\frac{1}{2}a\frac{1}{2} he has left you, daa-d-i-l-bee we bathe you.

Sg. 3: When the subject of the verb is other than third person, the third person object is unmarked: de-š-ł-?ii I see him, ni-ł-?ii you see him, di-i-l-?ii we see him, d-o?o-l-?ii you (pl.) see him.

Sg. 3a (Prefixes for the third person object when the subject is also third person): ya-ł-tał he kicks him, de-ya-ł-'ji he sees him. Under condition B, the 3a prefix is zero when it begins the verb and is followed by a prefix of position 6: ta-ł-bas he rolls it. When, however, the 3a prefix is preceded by a prefix of position 3 and followed by a cv- prefix, the 3a prefix is i-: na-i-ni-l-'a' he has brought him back, ha-i-te-s-laa he has begun to win it. The 3a prefix is y- when followed by a vowel: ti-y-ij-'aa he has left him.

Pl. 1, 2 are expressed by the same morpheme. dawa-š-tał *I kick you* (*pl.*), deedawa-ł-'ii he looks at us, you (*pl.*), daa-doo-s-i-l-be' we have bathed you (*pl.*), te-daw-i-t'aš we leave you (*pl.*), te-naw-ii-'aa he has left us, you (*pl.*).

Reflexive: nii-da-š-l-t'as *I cut myself*, nii-di-l-t'as *you cut yourself*, nii-di-i-l-t'as *we cut ourselves*, nii-d-o^oo-l-t'as *you* (*pl.*) *cut yourselves*.

Reciprocal: kaa-la-l-yiš they ambush each other, kaa-l-i-l-yiš we ambush each other.

Indefinite: tš'a-š-?ał *I chew something*, tš'a-?ał he chews something, tš'a-da-gaš he

puts some burden down, tš'-i-t'ał we chew something. When tš'a- precedes the nasalization that marks the second person singular, it alters to tš'i-: tš'i-?ał you chew things. Before a nasalized vowel tš'a- becomes tš'a-: tš'aa-i-beł he has trapped something (the lengthening of the vowel of tš'a- is explained in 11).

9. Verbs are grouped into four classes which are named as follows: zero-class (no prefix in position 9), 1-class (1- or 1- in position 9), d-class (d- in position 9), and 1-class (l- in position 9). Examples follow:

Zero-class (all examples are cited in the sg. 3rd of the imperfective paradigm): daa-gwa?s he crawls around, ta-bas it rolls, yaa-ya-?aš he picks it (a round object) up, daa-ya-gee he carries it (a burden) around.

1-class (l- occurs in the first and second persons pl., l- in all other persons): daš-l-bad I boil it, ni-l-bad you boil it, da-l-bad he boils it, ha-da-l-bad they boil it, but, d-i-l-bad we boil it and d-o?o-l-bad you (pl.) boil it. Some l-class verbs are transitives derived from zero-class intransitives: cf. ta-bas it rolls and ta-l-bas he rolls it; da-man it is full and da-l-man he fills it. However, not all transitives have the l-classifier and some l-class verbs are intransitive: ha-de-l-ts'e? they sit, ya-ya-l-gas they fly away, da?-de-l-ka? it is cloudy.

d-class: da-d-nii he makes a noise, daa-da-d-gaš he peers in, ta-d-nii he drinks it, da-i-da-d-gaš he carries it (a burden) back. All passives derived from zero-class transitives have the d- classifier: cf. k'we-ya-sad he breaks it with k'we-d-sad it is being broken and taa-ya-nił he makes an (acorn) soup with taa-d-nił an (acorn) soup is made. It is clear, however, from the examples cited above that d-class verbs may also be both transitive and intransitive.

l-class verbs: daa-da-l-niš he works, yaa-l-t'am? he jumps, ya-l-kad he swallows it. All passives derived from l-class transitives have the l-classifier: cf. da-i-l-man he fills it and da-l-man it is being filled; tš'a-s-l-yol he has

blown things away and tš'a-s-l-yol things have been blow away. As the preceding examples demonstrate, however, l-class verbs, like d-class verbs, may also be intransitive and transitive.

10. There are four subject pronoun prefixes in position 8: one each for the first and second persons singular and plural. The third person is unmarked. These prefixes, together with the third person plural (marked in position 4) and the impersonal (marked in position 5) are listed and illustrated below.

Sg. 1, š- in all occurrences: taa-š-baš *I* wade, da-š-ł-bad *I* boil it, ta-š-d-naa *I* drink it, ts'e-š-l-dad *I* run outside.

Sg. 2 is marked by nasalization of the vowel of the preceding prefix. In the case of some prefixes, the consonant and vowel may also be altered. Examples are: taa-baš you wade, ni-l-bad you boil it (ni- < da- plus nasalization), ta-d-naa you drink it, ts'i-l-dad you run outside (ts'i- < ts'e- plus nasalization).

Sg. 3, unmarked: taa-baš he wades, da-l-bad he boils it, ta-d-naa he drinks it, ts'e-l-dad he runs outside.

Pl. 1, id- (in zero-class verbs), i- (in ł-, d-, and l- class verbs): ta-id-baš we wade, d-i-l-bad we boil it, ta-i-d-naa we drink it, ts'-i-l-dad we run outside.

Pl. 2, o?o- (when preceded by any aspectival prefix or by a prefix of position 6), ?a-, ?e-, and ?o- (when preceded, respectively, by position 3 prefixes that end with the vowels a, e, and o): d-o?o-yan you (pl.) sing, taa-?a-baš you (pl.) wade, ts'e-?e-l-dad you (pl.) run outside, do-?o-l-dad you (pl.) run against someone.

Pl. 3, like the sg. 3, is unmarked in position 8. It has, however, a prefix ha- (for intransitive verbs) and hii- (for transitive verbs). This prefix appears in position 4: see-ha-dał they (pl.) go up (over a ridge), hii-da-ł-bad they boil it.

The impersonal prefix ho- (position 5):

ho-s-l- $^{?}i^{?}$ it becomes daylight, ho-sal (weather) is hot (ho < ho- plus ni- of position 6).

11. There are seven verb paradigms in Galice: zero-imperfective, [?]a- imperfective, n- imperfective, n- perfective, g- perfective, s- perfective, and progressive. No verb base is conjugated in all seven. Active and passive verb bases are conjugated in three paradigms: one of the three imperfectives, one of the three perfectives, and the progressive. The choice of imperfective and perfective paradigms is in part governed by the derivational prefixes present in the verb base but is unpredictable for verb bases that include no derivational prefixes. Neuter verb bases are conjugated in only one paradigm: this may be the zero-imperfective or one of the three perfective paradigms, but the choice is in general unpredictable.

The zero-imperfective has no marker in position 8 and is employed only for verb bases that contain at least one derivational prefix. Examples, verb base ts'e-...-l-dad run outside: sg. 1. ts'e-š-l-dad, sg. 2. ts'i-l-dad, sg. 3. ts'e-l-dad, pl. 1. ts'-i-l-dad, pl. 2. ts'e-?e-l-dad.

The ?a- imperfective has the prefix ?a-, i-, or ?- in position 8. It is employed when the verb base lacks derivational prefixes. Example, verb base -seh cry, weep: sg. 1. ?a-š-seh, sg. 2. ?i-seh, sg. 3. ?a-seh, pl. 1. ?-id-seh, pl. 2. ?-o?o-seh. In transitive verb bases the ?a- imperfective prefix, in verb forms requiring an object pronoun prefix, is replaced by the pronominal prefix. Example, verb base -yaa eat (it): sg. 1. ?a-š-yaa, sg. 2. ?i-yaa, pl. 1. ?-id-yaa, pl. 2. ?-o?o-yaa (in all the preceding forms, the 3rd p. pronoun object is zero; see §8), sg. 3, ya-yaa (with pronoun object prefix ya-).

The n- imperfective has the prefix da-, ni-, or d- in position 8, and is employed only when the verb base has at least one derivational prefix. Example, verb base tš'oo-... -tah shoot at (a target): sg. 1. tš'oo-da-š-tah, sg. 2. tš'oo-ni-tah, sg. 3. tš'oo-da-tah, pl. 1. tš'oo-d-id-tah, pl. 2. tš'oo-d-oootah.

The n- perfective has the prefix di-, ni-, ni-, or d- in position 8. Example, verb base doo- (or noo-) ... -l- ?a? put (a round object) down: sg. 1. doo-di-š-l-?a?, sg. 2. noo-ni-l-?a?, sg. 3. no-i-ni-l-?a?, pl. 1. doo-d-i-l-?a?, pl. 2. doo-d-o?o-l-?a?.

The g- perfective, when the base contains no derivational prefixes, has the prefix gi-, gi- or g-. Example, verb base -ł-baš shake (it): sg. 1. gi-š-ł-baš, sg. 2. gi-ł-baš, sg. 3. gi-ł-baš, pl. 1. g-i-l-baš, pl. 2. g-o?o-l-baš.

When the base has a derivational prefix, the prefix for the g-perfective is reduced to i-, i-, or zero, and the vowel of the derivational prefix is lengthened. Example, verb base da-...-bad crouch down: sg. 1. daa-išbad (cf. sg. 1. ipf. da-š-bad), sg. 2. daa-įbad, sg. 3. daa-i-bad, pl. 1. daa-id-bad, pl. 2. daa-?a-bad. (The only sign of the gpf. in pl. 1. and 2 is the lengthening of the vowel of the derivational prefix; cf. pl. 1. ipf. d-id-bad and pl. 2. ipf. d-o^oo-bad). If, in a transitive verb form, an object pronoun prefix occurs, the g- perfective prefix assumes its full shape; e.g., cf. daa-iš-l-man? I have filled it up with da-i-gj-lman? he has filled it up.

The s- perfective, when the verb base lacks derivational prefixes, has the prefix sa-, si-, or s-. Example, verb base -tii (one or a few) are lying (down): sg. 1. sa-š-tii, sg. 2. si-tii, sg. 3. s-tii, pl. 1. s-id-tii; pl. 2. s-o?o-tii.

When the verb base has one or more derivational prefixes, the s- perfective prefix may be as noted above or more often, have the shapes zi-, s-, or z-. Example, verb base O-aa-...-l-dao? forget about (it) (O = any object pronoun of position 1): sg.. 1 b-aa-sa-š-l-dao?, sg. 2. m-aa-si-l-dao?, sg. 3. y-aa-s-l-dao?, pl. 1. b-aa-s-i-l-dao?, pl. 2. b-aa-s-o?o-l-dao?. Verb base naa-...-dah arise, get up: sg. 1. naa-zi-š-dah, naa-zi-dah, sg. 3. naa-s-dah, pl. 1. naa-z-id-dah, pl. 2. naa-z-o?o-dah.

The progressive, when the verb base lacks a derivational prefix, has the prefix ga-,

gi-, or g-. Example, verb base -yił grow: sg. 1. ga-š-yił, sg. 2. gi-yił, sg. 3. ga-yił, pl. 1. g-id-yił, pl. 2. g-o²o-yił.

When the verb base has a derivational prefix, the progressive prefix reduces to a-,

i-, or zero, and the vowel of the derivational prefix is lengthened. Example, verb base da- (or na-) ... -dał return, come back: sg. 1. daa-a-š-dał, sg. 2. naa-i-dał, sg. 3. daa-a-dał, pl. 1. daa-id-dał, pl. 2. daa-?a-dał.