

The current backup can be downloaded (with instructions) from the usual location at <http://zelligharris.org/achumawi-db.html>

1. I received formal confirmation that my grant will be funded for three years by the NSF.
2. The most prominent change in the database this month is in the orthography, the way words are spelled. Here's the old way with the familiar · length mark:

Tí·q̄a·ti ckinánca. As a·wátca ckúuwí. Qa kwán sáph<sup>h</sup>·i·wáté ckwaná·yúmcí hamísq<sup>h</sup>ám. Qa cé·mul cktitítúwá·yíumá. Ckwátá·lá·tiwíní. Částíl mát·íkca ckwíntáwá·yá. ckwińím·á·cí q<sup>h</sup>ahé.

Here's the same text fragment in the new orthography, with doubled letters:

Tííq̄aati ckinánca. As aawátca ckúuwí. Qa kwán sápp<sup>h</sup>iiwáté ckwanááyúmcí hamísq<sup>h</sup>ám. Qa céémul cktitítúwááyíumá. Ckwátááláátiwíní. Částíl máttíkca ckwíntáwááyá. Ckwińímmááci q<sup>h</sup>ahé.

An important reason for this change was to improve legibility by making word boundaries more evident, because the · character looks too much like a space between words. (I am extremely grateful to Ken Zook of SIL for creating and running scripts to make this change.)

There is a small subset of words in which the · is used to mark a syllable boundary in t't or c·c, indicating that the first t or c is voiceless-released. Most of these are the initial t't that should be familiar to many of you from e.g. táq t'tánuwí qá pi? “What is this?” (We could replace these with a rule that whenever tt occurs at the beginning a word the first t is released, but it may be best to leave it this way for consistency.) I have also cleaned up places where I typed · (1 in our keyboard customization) instead of · (shift + .).

3. I've begun working out how verb root morphemes are combined to make verbs. I'm looking at how they fit in a verb stem template with three slots (Ri) Rv (Rm), with meanings roughly glossed as “by doing Ri do Rv while doing Rm”. We could say a root in slot Ri is instrumental, one in slot Rv is the main verb root, and one in slot Rm is an adverb of manner, direction, etc. Parentheses show that either or both slots Ri and Rm may be empty. Each of these roots is a single syllable. CVC roots seem only to occur in the Rv slot, but the CV roots can occur in more than one slot, and the meaning shifts within its semantic range depending on which slot the root in—and of course depending on the larger context. where both are empty, a CV root is usually (always?) in the Rv slot. Examples:

ca	grasp (cp. c “do”)	icaaǰááti ǰat ǰat icááci as wíc icááci	making a snowball compressing in hand(s) feeling like water	Ri Rv Rv
ca	in/through air	wacáápóóqi ílaacátýéimi sásiicáátúmíní	air is dusty shooting through it I jumped/ran up onto it	Ri Rv Rv
cé	see, appear	icééhaaǰi áw wíc icééci	being unable to find (haǰ tuci “disappear”) looking like wood	Ri Rv
çi	using foot, stand, upon, on top (cp. cíkkoǰ “foot”)	iciiǰááli tínásiçílamámé’ sááçiiimí wacaspútçíci tulúpçíci uulúççíci aaǰu	kicking unable to jump over it I fell wind/hand tore the top off (spút pluck out) sunset (lup come together, pile) Bald Mountain (luc clean)	Ri Ri Rv Rm Rm Rm
cu	thrust, flow, cross	icuuúáási icummi; acúmmá tááyíicumí	ironing (stretch wrinkles) flowing; river go across, wade across	Ri Rv Rm
çu	rise, lift, accompany (= “while lifting” with a motion root, hence, go along with)	icuumááǰi icúúci icuuúci wacaspútçúci tááyíicumí	getting dark, night arising rising up, arising flowing up, welling up wind/hand tore up by roots accompany thither	Ri Rv Rv/Rm? Rm Rm
çwa	biting	saçwaaǰísi	I break with teeth	Ri
çá	(cp. iicá teeth)	siniicáke íicí, sóóçá	I bite myself (n- iter., intnsv.) biting, I bite	Rv Rv
ǰi	heading, using head (cp. láǰ “head”)	tíǰiisááлами aǰíci tilááǰiimi	push in with head taking the lead head thither	Ri Rv Rv

ḥu	run, (wind) blow	tíhuulúúli	blow horn	Ri
		wạhuupóóqi	dusty wind blows	Ri
		tíhuumi	run; wind blows	Rv
		wáluchúúmí	he has a cold	Rm
		(luc “clean” is not in the Ri slot)		
ka	act collectively	wikasaykántiwi	herds cattle around	Ri
		tikáácúci	rash, measles, pimples, blister	Ri
		ís tikkááci	live among people	Rv
		lhímmaakáákumá	we burned up (all the wood)	Rm
la	make a line			
		tínásiçílamámé’	unable to jump over it	Rv
li	moving arm & hand (cp. íl “hand”)	tiliik <sup>h</sup> ááti	saw, cut by sawing	Ri
		sááliçhi	I stick it into water	Rv

There is a kind of iconicity to these, something like assembling components of a Chinese character, with meanings which then may be constrained to one of several possible readings or translations. I have identified many more roots, of course—lu, nu, p̣la, qus, su, ta, ṭe, ti, tu, ṭu, ma, p<sup>h</sup>u, ha, wa ...; this set will suffice to illustrate. Those constrained to Ri have Rv occurrences only before c “do” and with no preceding Ri or following Rm. Such constraints may be semantic rather than formal, with counterexamples to be found or invented in the future of language revitalization. If and when I’m confident I’ll distinguish the i and m subclasses of roots. For now these are all analyzed as Vroot—talk of instrumental prefixes and adverbial suffixes is inappropriate for something that can also be the verb root. There are in addition many Vroot morphemes (usually CVC) which apparently do not occur in the Ri and Rm slots, and some (e.g. ca “in air”) which occur in all three slots, taking part of their meaning from their template location.

Alternations of length and pitch, and aphaeresis as in çaḥ ~ çḥ “in water” and laq ~ lq “turning, reversing”, appear to arise from a set of stress contours in verbs that remain to be identified, with exceptions where morphemes have lexical low pitch. It remains uncertain whether vowels at margins of verb stems are part of the affixes, part of the stem, or a combination.

4. Something like a good news/bad news dichotomy, though it’s really all good: While I was changing the names of collections in the database to make their relative chronology more evident, I discovered many pages of notes from Lela Rhoads that I have not yet entered into the database. My work has

been much interrupted, more so when I was also working for BBN and Cisco full time. It appears that on returning from a more extended interruption I took up a different part of the work—perhaps transcribing a text or working on notes from another person—and never returned to finish the binder with her notes. I have an estimated 100 pages to work through (about 1/6 of that binder). That’s the challenging aspect. The delightful aspect is that it is as though I get to sit down with Grandma Lela again, and maybe I’ll discover answers to some of those questions that I’ve been wishing I had asked, and maybe did in fact ask her. So that’s really great. I have already confirmed that the word for tapeworm is *hiiwá*, which I had only from de Angulo (always imprecise). You will find new material beginning with the collection named LR 1972 30: 3/16, ending eventually in 1974.

5. What will be done with the data? (a) [I have written](#) how and why morphemic analysis is indispensable for linguists to reconstruct prehistory. With languages that work this way, comparing whole words very quickly becomes illusory. Linguistic theory and psycholinguistics will take longer to find the usefulness of these data, as the notion of a genetically determined universal human nature loses its dominance and is brought into better balance with the diverse ways in which the scaffold of language helps people organize their universe of perceptions. (b) Community initiatives to revitalize this language face familiar challenges of support, indigenous resources, and adaptation. Paul and Lisa will continue creating games and other activities engaging kids in using the language. We will organize instruction such as we had at NILI 2019, and develop on-line presentations—necessary not only in this time of pandemic but also because of the distances over which the people are dispersed. Connor and I will be helping to support fund-raising and proposal writing by the Indigenous Language Network (ILN). ILN has applied for funding to cultivate [language nests](#) in participants’ homes. We have no fluent speakers, but we hope to find ‘rememberers’, the elders of today who lived as children with their elders speaking the language. To reach out to them, Connor will work with ILN in Redding/Burney and with Paul and Lisa in Alturas to organize children and youth to record audio and video on their smartphones. Where do important things grow? How do you harvest them and process them? Can they regain songs, prayers, ceremony? They will naturally show their elders what they are learning in the language, and this may reawaken sleeping memories. And of course the kids will come back with new questions for the database. The database already has to tell us how to talk about things that did not exist more than a century ago when the people whose words are recorded in the database were children and youths. To use what we have, we must master how this language can assemble morphemes to create new words. We are in the position of Shakespeare, who introduced so many new words into English. He borrowed from Latin and Greek, but for us the indigenous *talisúwaci* of this language should be ample.