Tlapanec-Mangue

Søren Wichmann

MPI-EVA

Evidence for Tlapanec as Otomanguean

- Rensch (1977) presented some Tlapanec-OM cognates
- Suárez' "Elementos gramaticales otomangues en tlapaneco" (1986) usually considered the decisive proof of an OM affiliation of Tlapanec
- Kaufman (1987-88ms) has many reconstructions of grammatical morphemes with Tlapanec reflexes [ms not inspected for the present talk]

Best evidence from Suárez (1986)

	na- IPFV	ša¹ NEG.POT	ni- PFV	a- IMP	wa PASS	a: ¹ INTERR	ši COND	ma INSTR	ru-/ro-/ra- CLASS	ma-, mi- POT	ga¹-, gi¹-, gu¹- POT	ta¹-, ti¹- tu¹- PFV.NEG	ma-, mi- ADJ	ITER by vowel lengthening	ANIM by vowel changes	suppletive patterns	
Chinantec	1	1	1				1					1		1	1	1	8
Zapotec	1					1		1			1						4
Trique						1	1		1				1				4
Mazahua	1					1		1									3
Chiapaneco									1	1		1					3
Cuicatec			1								1						2
Mixtec			1						1								2
Amuzgo						1	1										2
Otomí						1		1									2
Matlatzinca		1															1
Ixcatec				1													1
Popoloca					1												1
Chatino						1											1
Mazatec									1								1
Chichimeco													1				1

The grammatical elements of Suárez (1986)
 point to Chinantec as the closest subgroup,
 although Suárez himself did not commit
 himself to any particular subgrouping
 scenario.

- Rensch ("Classification of the Otomanguean languages and the position of Tlapanec", 1977) discussed possible phonological innovations shared between Tlapanec and other OM languages:
 - with Mixtecan, Chiapanec-Mangue, Zapotecan,
 Chinantecan: merger of **nt and **ns
 - with Chiapanec-Mangue and Zapotecan: merger of **i and **e
 - with Zapotecan: **Vh > *V?V/__#
 - with Chiapanec-Mangue: **ny > *r (some other groups have **ny > *I
 - with Chiapanec-Mangue, Otopamean, Isthmus Zapotec: **kw > p

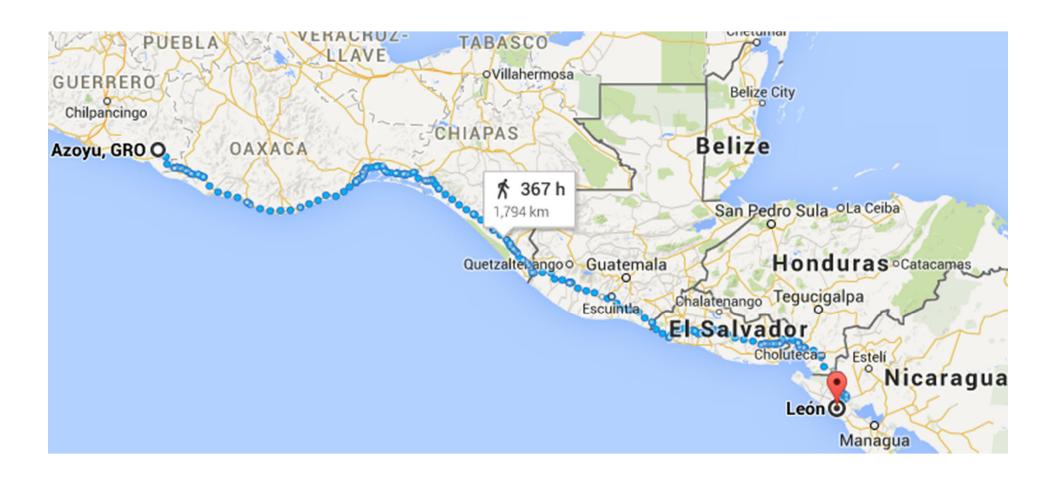
- Rensch (1997:95) concludes that "Tlapanec is most like Proto Zapotecan, especially Zapotec, from the standpoint of both structural innovations and phonetic shifts. Proto Chiapanec-Mague and Proto Mixtecan seem to be removed from Tlapanec by successive degrees of separation but still are significantly more like Tlapanec than are the other groups within Otomanguean".
- Note that Kaufman (1989ms) classifies Zapotecan as Eastern OM and Tlapanec as Western OM, which is not compatible with the findings of Rensch.

- In "New perspective on comparative Otomanguean phonology" (ms, 1983), Kaufman regards Tlapanec as a separate OM branch, but in "Early OtoManguean homelands and cultures" (ms, 2006) it is placed together with Chiapanec-Mangue "primarily on the basis of grammatical data".
- Swadesh (1959:18) also had a "mangue-tlapaneco" subgroup (with a time depth of 41 centuries)
- Campbell (1997:158) reiterates the Swadesh-Kaufman position
- None of these works provides any supporting evidence

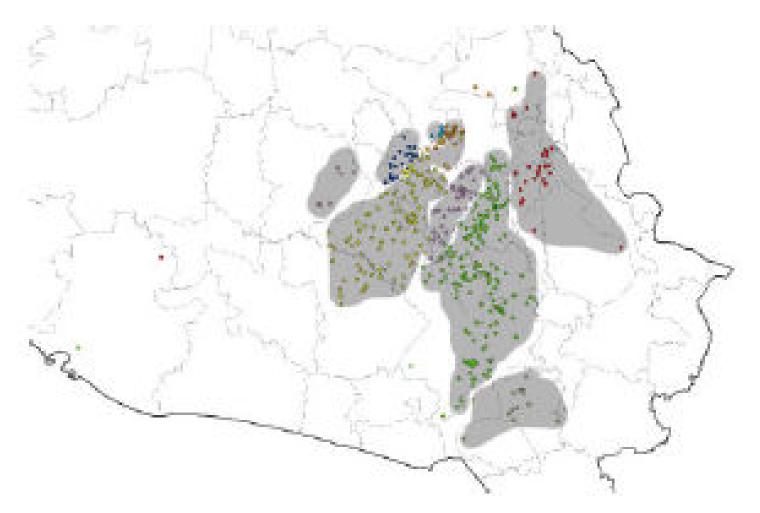
- Probably best to regard the issue as unresolved.
 Closest neighbors could be
 - Chiapanec-Mangue (Kaufman, Swadesh)
 - Chinantec (Suárez' evidence)
 - Zapotecan (Rensch)
- But there may also be other possibilities suggesting themselves from more recently available descriptive materials
- In this talk I will have nothing further to say about Chiapanec-Mangue!



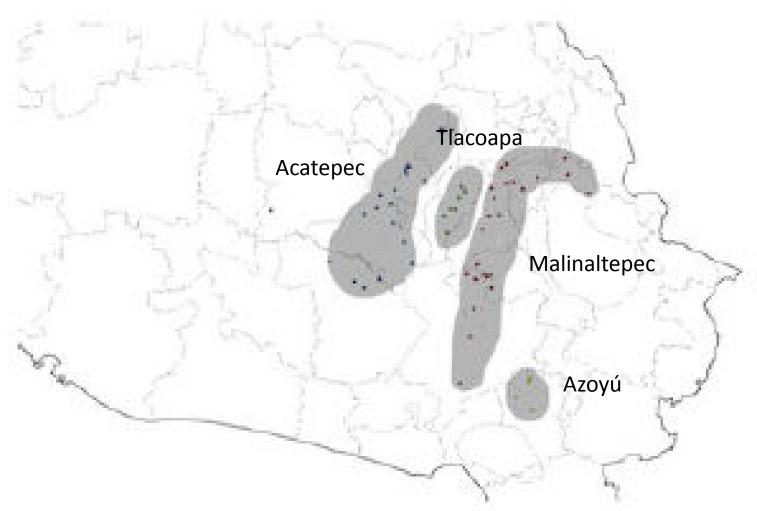
Tlapanec in Guerrero and Subtiaba in Nicaragua



Distance between Azoyú and León

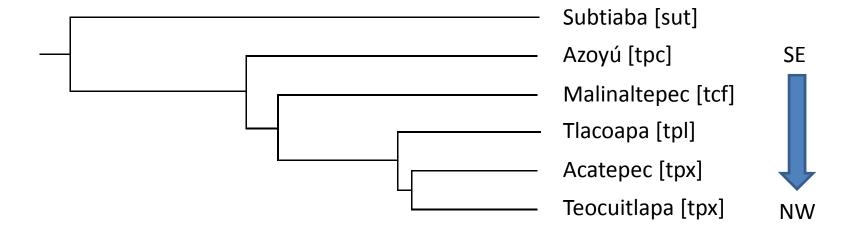


Tlapanec varieties in Guerrero according to INALI (2008)

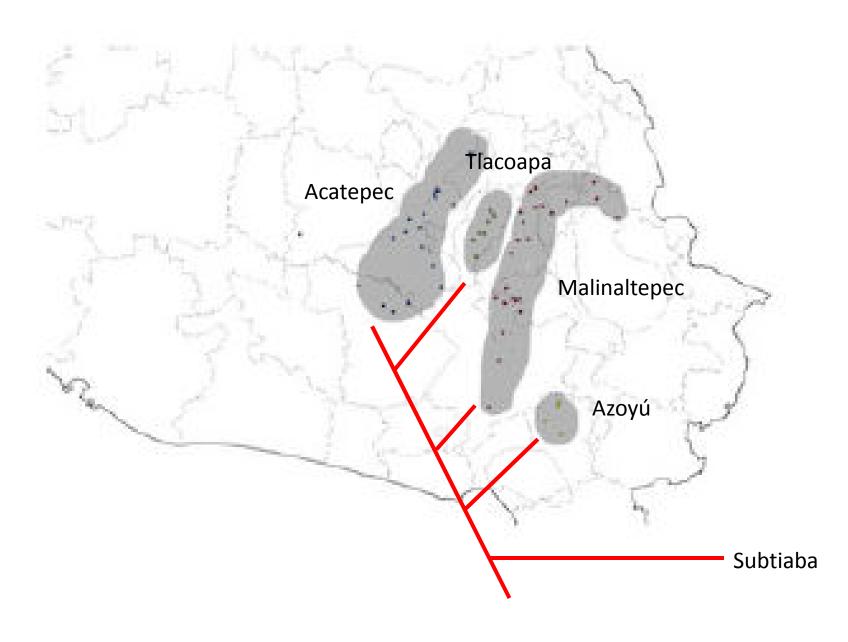


Tlapanec varieties in Guerrero according to Lewis (2009)

varieties recognized by Ethnologue: Subtiaba [sut], Azoyú [tpc], Malinaltepec [tcf], Acatepec [tpx], Tlacoapa [tpl]



ASJP classification based on average Levenshtein distances between 40-item word lists (same configuration obtains when using the method of Jäger 2013)



- Normalized Levenshtein distance between the two most distant ISO-code languages, [sut] (Subtiaba) and [tpx] (Acatepec, Teocuitlapa): 72.19% LDND → 1821 years before present (using the method of Holman et al 2011)
- More comparative information will follow in my chapter; some comparative materials available in Marlett (ed.), The Me'phaa Grammar Files (http://www-01.sil.org/mexico/workpapers/WP013i-Me%27phaaGrammarFiles.htm)

Structural overview based on Azoyú variety (Me'pá)

PHONOLOGY

- Phonological inventory and some notes
 MORPHOLOGY / MORPHOSYNTAX
- Nominal inflection (possession)
- Verbal inflection
 - aspect-polarity
 - agentivity
 - given-new
 - case
- Valency
- Iterative
- Omniverbity



Phonology (Azoyú)

```
č [ʧ]
                                  k
                 ts
                                                                u
         d
                 j [ʤ]
                                                       е
                                                                0
mb [mb] nd [nd] nj [ndz] ng [ng]
                                                            a
                                         h
                 š [∫]
         S
m
         n
                                  ŋ
                                                 V (nasalization)
         r
                                                tones:
                 y [j]
                                                   H (á), M (a), L (à)
W
                                                   HM (â), ML (â), MH (ǎ), LM (ǎ)
```

Frequent cluster types: hC, sC, xC, (h)Tr (T = stop), pw, tsw, hkw, hky

Syllable: (((C)C)C)V(±nas)(?)

Nasalization spreads left through /?, h, w, y/, e.g. yahų? 'I am' nasalized throughout

Differences with Malinaltepec

- Mal. claimed to have all possible combinations of tones (Suárez 1983:45), whereas I have only recorded four contour tones in Azoyú
- Mal. claimed to have a vowel length distinction, whereas I have only recorded phonetically long vowels with contour tones in Azoyú

Comparisons

meaning	Malinaltepec	Azoyú
grano	ska ^H	ska ^M
miel	ya: ^H	ya? ^{ML}
bolsa	le ^M ka ^{HM}	no correspondance
ropa	štį: ^{HM}	štį ^{HM}
su (de ellos) petate	a ^M gų: ^{HL}	a ^L gų ^{MH}
ardilla	ya: ^{MH}	tu ^M štu ^M ya? ^{ML}
palabra	a ^L hŋga: ^{ML}	a ^M hŋga ^{HM}
les pregunté	ni ^L ra ^L šį: ^{LM}	no correspondance
me caí	ni ^L gu ^L hų: ^{LH}	niŋga ^M hį ^{ML}

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su (de ellos) petate	a ^M gų: ^{HL}	a ^L gų ^{MH}
ardilla	ya:MH	tu ^M štu ^M ya ^{?ML}
palabra	a ^L hŋga: ^{ML}	a ^M hŋga ^{HM}
les pregunté	ni ^L ra ^L šį: ^{LM}	no correspondance
me caí	ni ^L gu ^L hų: ^{LH}	niŋga ^M hį ^{ML}

Loss of some glottal stops in Malinaltepec "compensated for" by raised tones?

Notes on phonology

- /e/ and /o/ rare and look like historical innovations
- tones relevant for the last two syllables only (except in some compounds)
- consonant harmony involving nasalization:
 na-mbeyé? 's/he cries' vs. a-ta-biyà? 'cry!'
- segmental sandhi rampant:

```
mogó ngwâ idû iya? \rightarrow mogó ngwidiya? they.will.go where its.eye water 'they will go to the well'
```

Nominal inflection (possession)

(based on Wichmann 2006)

person	Segments	Tonal paradigm 1	Tonal paradigm 2	Tonal paradigm 3
1sg	-u?/-o?	M	L	L
2sg	-a?	НМ	ML	Н
3sg.new	-u/-o	НМ	ML	Н
3sg.given	-u/-o	Н	Н	Н
1PL-2PL	-a?	M	L	L
3PL.NEW	-ų	LM	LM	ML
3PL.GIVEN	-ų	MH	MH	LM

Examples of forms taking the different paradigms

Paradigm 1		Paradigm 2	Paradigm 3		
<i>bùhká</i> 'money'	L.H	i?di 'blood'	M.M	dí?ì 'flower'	H.L
pàtsi? 'boulder'	L.M	<i>šwahį</i> 'town'	M.L	sŋgà 'penis'	L
nàndî 'tobacco'	L.HM	smba 'dirt'	M		
šndu 'egg'	M	šnà? 'feather'	L		
<i>št</i> į̇̃ 'clothes'	НМ	yâ? 'honey'	ML		

Let's posit floating tones for the monosyllabic forms

Paradigm 1		Paradigm 2	Paradigm 3		
<i>bùhká</i> 'money'	L.H	i?di 'blood'	M.M	dí?ì 'flower'	H.L
pàtsi? 'boulder'	L.M	<i>šwahį̇</i> 'town'	M.L	^H sŋgà 'penis'	H.L
nàndî 'tobacco'	L.HM	Msmba 'dirt'	M.M		
Lšndu 'egg'	L.M	[™] šnà? 'feather'	M.L		
^L štį̇̃ 'clothes'	L.HM	Myâ? 'honey'	M.ML		

Now the paradigm of choice becomes predictable from the tone of the penultimate syllable and the underlying shape of a single tonal paradigm for the suffixes can be worked out

A possession class distinction

(based on Wichmann 1996a)

• An morpheme — i appears before the person markers in some forms but not in others, e.g.

hmìda 'huipil'

gà?a 'foam'

čá?gwą̂ 'star'

à?bù 'locust'

hmèdo? 'my huipil'

gò?o 'my foam'

čá?g-y-ų? 'my star'

a?b-y-ù? 'my locust'

-i signals membership in a class of 'extended animate' items

- All living creatures: aʔgù 'woman', šabù 'man', mìštų 'cat', štilá 'chicken', etc.
- Heavenly bodies: čá?gwą̂ 'star', ahkà? 'sun'
- Spanish loanwords: mèsa 'table' kurrá 'corral' àšu 'garlic', etc.
- Some bodyparts and -products: nìhtu 'sinew', yà?du 'milk', gàhtsu 'brain', nanù? 'natural parting of hair, anal musculature'
- Some plants and natural products: mugù 'cotton', rambù 'tomato', ganù? 'corn on the cob', drubù 'chayote', idu 'salt'
- A few others: štatsǫ́ 'blanket', šigù 'house pole', tsínu 'metate', yaʔdų̂ 'soup'

Verbal inflection: aspect-polarity

(based on Wichmann 2006)

Affirmative Negative

Imperfective na- (ma-)tsì-

Perfective ni- (ma-)kà-

Potential ma- (ma-)šà-

realis vs. irrealis; the latter marked by a floating tone

Verbal inflection: given-new

(based on Wichmann 2007)

NEW unmarked, GIVEN marked by tones and additionally for some verbs by a suffix -i

iʔgiʔ ngwâ gòʔô hwá sits.3sg.new where house.3g.new Juan 'Juan sits in his house'

iká i?gí? ngwâ gò?ó he.given sits.3sg.given where house.3sg.given 'he sits in his (own) house'

iká i?gí? ngwâ gò?ô he.given sits.3sg.given where house.3sg.new 'he sits in his (someone else's) house'

Agentivity

(based on Wichmann 1996b)

	Agentive	Patientive
1sg, 3sg	(unmarked)	(unmarked)
2sg	ta- (t-, nda-, nd-, r-)	(unmarked)
PL	U-	(unmarked)

NB: Agentivity does not affect grammatical relations, the markers are simply tags saying 'this action is performed/effected/instigated by the actor' (cf. the typology of Mithun 1991)

Examples

(3sg.given, IPFV used as citation form)

 Agentive: verbs of manipulative action, communication, transactions, conscious mental action, bodily motion, etc.

```
na?bá 's/he is moving it'
na?jú 's/he is listening'
naŋgohwé 's/he is selling it'
na?ké 's/he is coming (to non-base)'
nandohté 's/he is spitting'
narùmbă? 's/he is working as a day-laborer'
```

Examples

(3sg.given, IPFV used as citation form)

Patientive:

```
na?kwayý? 's/he is eating supper'
nakušpé 's/he is sucking (it)'
na?ná 's/he is drinking (it)'
nandó 's/he wants (it)'
nàyó? 's/he needs (it)'
na?ŋgó 's/he endures (it)'
nandaí 's/he stinks'
najú 's/he is happy'
na?ú 's/he is getting drunk'
nakugaší 's/he is drowning'
nahyú 's/he is waking up'
```

Examples

(3sg.given, IPFV used as citation form)

Ambivalent:

nanohngó 's/he crosses over (it)'
naʔtàgiŋáʔ 's/he is burping'
napatumá 's/he is leaning up against (it)'
nanguʔú 's/he feels at home'
nahmayóʔ 's/he is swimming'
nakwáhkyŏ 's/he is thinking/worrying'
naromŏʔ 's/he is eating soup'
nanembŏ 's/he believes (in it)'

Case marking

(based on Wichmann 2005, 2009)

	Ergative	Absolutive	Pegative	Dative
1sg	-Ø	-ų?	-u ~ -o	-u?~-o?
2 SG	-Ø	-į? / -ą?	-a / -i	-a?
3sg.new	-Ø	-i / -a	-u ~ -o	-u ~ -o
1PL-2PL	-Ø	-ą?	-a / -i	-a?
3PL.NEW	-Ø	-į	-a / -i	-ų

Suffixal paradigms of monopersonal verbs

Semantics of case marking

MACRO-ROLE	ACTOR	UNDERGOER
E(/A)FFECTEDNESS		
HIGH	ERGATIVE	ABSOLUTIVE
LOW	PEGATIVE	DATIVE

Back to the possessive paradigm

person	Segments	Tonal paradigm 1	Tonal paradigm 2	Tonal paradigm 3
1sg	-u?/-o?	M	L	L
2sg	-a?	НМ	ML	Н
3sg.new	-u/-o	НМ	ML	Н
3sg.given	-u/-o	Н	Н	Н
1PL-2PL	-a?	M	L	L
3PL.NEW	-ų	LM	LM	ML
3PL.GIVEN	-ų	MH	MH	LM

Back to the possessive paradigm

person	Segments
1sg	-u?/-o?
2sg	-a?
3sg.new	-u/-o
3sg.given	-u/-o
1PL-2PL	-a?
3PL.NEW	-ų
3PL.GIVEN	-ų

The possessive paradigm is the Dative

person	Segments	Possession	Monopersonal verb	Recipient of dipersonal verb
1sg	-u?/-o?	hmèd <mark>o?</mark> 'my huipil'	nač <mark>ò?</mark> 'I'm in a hurry'	nire?yo?' 'they (GIVEN) answer me'
2sg	-a?	hmèd <mark>â?</mark> 'your huipil'	nač <mark>á?</mark> 'you're in a h.'	nire?y <mark>@?</mark> 'they (G) answer you'
3sg.new	-u/-o	hmed <mark>ó</mark> 'her/his huipil'	nàč <mark>ó</mark> 's/he's in a h.'	nire?yq̃ 'they (G) answer him/her (GIVEN)'
3sg.given	-u/-o	mèdô 'her/his huipil'	nàč <mark>ó</mark> 's/he's in a h.'	nire?yq̃ 'they (G) answer him/her (NEW)'
1PL-2PL	-a?	hmèd <mark>a?</mark> =lò? 'our (EXCL) huipil'	nač <mark>à?</mark> =lò? 'we're (EXCL)'	nire?yq̈?=lò=ri 'they (GIVEN) answer us (EXCL)
3pl.new	- <i>ų</i>	hmèd <mark>ٽ</mark> 'their huipil'	nač <mark>ų</mark> 'they're i. a. h.'	nire?y <a>ṽ 'they (GIVEN) answer them (NEW)
3pl.GIVEN	-ų	hmèd <mark>ٽ</mark> 'their huipil'	nač <mark>ų̂</mark> 'they're i. a. h.'	nire?yû/ 'they (GIVEN) answer them (GIVEN)

A split ergative pattern where the undergoer (recipient) is normally indexed except when there is a third person singular recipient, in which case the actor is indexed

person	Recipient of dipersonal verb			
1sg	nire?yo?' 'they (GIVEN) answer me'	Dative		Dativo
2sg	nire?y <mark>@?</mark> 'they (G) answer you'			Dative
3sg.new	nire?yq̃ 'they (G) answer him/her (GIVEN)'			Dative's mirror-image ='Pegative'
3sg.given	nire?yq̃ 'they (G) answer him/her (NEW)'			
1PL-2PL	nire?yq̈?=lò=ri 'they (GIVEN) answer us (EXCL)		١	
3PL.NEW	nire?yvvvy (GIVEN) answer them (NEW) nire?yvvvvvv (GIVEN) answer them (GIVEN)			Dative
3PL.GIVEN				

Monopersonal verbs

Dipersonal verbs

Person	Abso- lutive	Dative	Pegative	Undergoer	Absolutive	Dative /Pegative
1sg	-ũ?	-u?/-o?	-u / -o	1sg	-ũ?	-u? / -o?
2sg	-ã? / -ĩ?	-a?	-a / -i	2sg	-ã? / -ĩ?	-a?
3sg	-a / -i	-u / -o	-u / -o	1-3sG 2-3sG 3-3sG 1/2pL-3sG 3pL-3sG		-u / -o -a / -i -u / -o -a / -i -a / -i
1PL-2PL	-ã?	-a?	-a / -i	1PL-2PL	-ã?	-a?
3PL	-ĩ	-ũ	-a / -i	3PL	-ĩ	-u

Valency

(based on Wichmann 2010)

- Valency, not transitivity, important
- Valency defined as the number of animate participants indexed on the predicate—from zero to three

Examples: 0-valent

ni-ngahtâ? jamà

PFV-fall banana

'The banana fell.'

Examples: 1-valent

šabù ra ni-ŋgah-á man TOP PFV-fall.to.side-3sg.GIVEN.ABS 'As for the man, he fell to the side.'

baš-ó nude.3sg.given.dat 'S/he is nude.'

Examples: 1-valent

ni-hkam-é štį̃
PFV-hang.up-3sG.GIVEN.ERG clothes
'S/he hung up the clothes.'

ni-šiáh-ų̀? mba iyì?
PFV-send-1sg.peg a paper
'I sent a letter.'

Examples: 2-valent

ni-guhprà?-á
PFV-kick-3sg.GIVEN>3sg.ABS
'S/he kicked him/her.'

ni-ra?n-ú
PFV-meet-3sg.GIVEN.PEG>3sg
'S/he met him/her.'

ni-tsahm-ú (iyì?)
PFV-show-3sg.given.peg>3sg (paper)
'S/he showed it/the paper to him/her.'

Examples: 2-valent & 3-valent

mà-šn-ú FUT-give-3sg.g.peg>3sg 'S/he will give it to him/her.'

 $m\grave{a}-\check{s}n-y-\acute{u}$ $nenj-\grave{o}?$ FUT-give-ANIM.THEME-3SG.G.PEG>3SG AUX-1SG.POSS 'S/he will give me to him/her.'

Summary examples

```
ma-šnate?y-ę
FUT-lend-3sg.given.erg
'she (ERG) will lend it'
ma-šnate?y-ģ
FUT-lend-3sg.GIVEN>3sg.ABS
'she will lend him (ABS)'
ma-šnate?y-ó
FUT-lend-3sg.GIVEN.PEG>3sg
'she (PEG) will lend it to him'
ma-šnate?y-ó
                                      nendz-ò?
FUT-lend(-an)-3sg.GIVEN.PEG>3sg
                                      AUX-1SG.DAT
'she (PEG) will lend me to him'
```

Psych verbs: one participant with two case roles!

na-mahk-ò? kay-ó hwá IPFV-admire-1sg.dat AUX-1sg.peg>3sg.given Juan

di natsi-ų yų̃?

SUB be.beautiful-3sg.dat very

aʔg-y-ŏ di-ʔy-áʔ

woman-cl-3sg.given.poss pfv-find-3sg.given.g>3sg.abs

'I admire Juan for having found a very beautiful wife.'

The iterative

- Highly productive and very frequent in texts
- Formed by changing tones and adding a glottal stop plus $=r\hat{i} \sim =l\hat{i}$ (3sg/pl.given) or (optionally) $=l\hat{a}$ (1sg, 2sg)
- If the non-iterative assigns pegative the corresponding iterative normally assigns ergative, presumably motivated by the added intensity of the action; absolutive, dative, and ergative normally don't change

Semantic framework

simultaneous

non-simultaneous

action profiled

distributive

take up doing again

landmark profiled

part-whole

do it to the same thing twice, return to the same state

Semantic framework

simultaneous

non-simultaneous

action profiled

distributive

take up doing again

e.g., sprinkle in

e.g., eat supper again

different places

(next day)

landmark profiled

part-whole

do it to the same

thing twice

e.g., rot completely

e.g., reheat coffee

Semantic framework

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do it to the same

thing twice

e.g., reheat coffee

with motion verbs:

BASE

The iterative with motion verbs

nehké nihká?rì

's/he went' 's/he left for good'

ne?ké ni?ká?rì

's/he came' 's/he came to stay'

niŋgané niŋganú?rì

's/he arrived there (non-base)' 's/he arrived there (base)

nikané nikanú?rì

'she arrived here (non-base)' 'she arrived here (base)'

Omniverbity

 Not omnipredicativity; nouns do not function as predicates, a copular is needed:

```
ikŭ? šabù yah-ų?
I man be.1sg.dat
'I am a man'
* ikŭ? šabù
```

But elements widely inflected as verbs

Examples

- Paradigm for nominal possession same as the verbal Dative markers
- Element meaning 'with' inflects as verb, appearing either as zero-valent, hmä 'with (something)' or 2-valent, e.g. hmå 's/he with him/her'
- Auxiliary element for introducing animate themes in 3-valent constructions based on a verb meaning 'to impersonate'

Examples

- The element nomò 'because' is really the zerovalent (inanimate) frame for a verb meaning 'to be worth', which can also inflect for animates, as a 1-valent verb
- Pronouns ikų̃? 'l', iką̃? 'you', iká 's/he', etc.
 really consist of a an element ikV plus
 absolutive inflection; in the zero-valent frame
 we get ìki 'there', so ikV means something like
 'to be there'

Examples

 Numerals also inflect for zero-valent (inanimate) vs. 1-valent (animate), e.g. mba 'one', mbaų'? 'I am alone'; so mba really means 'it is one / alone'

References

- Campbell, Lyle. 1997. American Indian Languages. The Historical Linguistics of Native America. New York/Oxford: Oxford University Press.
- Holman, Eric W., Cecil H. Brown, Søren Wichmann, André Müller, Viveka Velupillai, Harald Hammarström, Sebastian Sauppe, Hagen Jung, Dik Bakker, Pamela Brown, Oleg Belyaev, Matthias Urban, Robert Mailhammer, Johann-Mattis List, and Dmitry Egorov. 2011. Automated dating of the world's language families based on lexical similarity. *Current Anthropology* 52.6: 841-875.
- INALI (Instituto Nacional de Lenguas Indígenas). 2008. Catálogo de las lenguas indígenas nacionales: Variantes lingüísticas de México con sus autodenominaciones y referencias geoestadísticas. Diario Oficial 14 enero: Primera Sección: 31-78, Segunda Sección: 1-96, Tercera Sección: 1-112.
- Jäger, Gerhard. 2013. Phylogenetic inference from word lists using weighted alignment with empirically determined weights. *Language Dynamics and Change* 3(2), 245-291.
- Lewis, M. Paul (ed.), 2009. *Ethnologue: Languages of the World*, Sixteenth edition. Dallas, Texas: SIL International. Online version: http://www.ethnologue.com/16.
- Kaufman, Terrence. 1983. New Perspectives on Comparative Otomangean Phonology. Unpublished manuscript in possession of the author.

- Kaufman, Terrence. 1987-88. Otomangean Tense/Aspect/Mood, Voice, and Nominalization Markers. Unpublished manuscript in possession of the author.
- Kaufman, Terrence. 1989. Early OtoMangue homelands and cultures: some premature hypotheses. *University of Pittsburgh Working Papers in Linguistics* 1:91-136 (1990).
- Rensch, Calvin. 1977. Classification of the Otomanguean languages and the position of Tlapanec. In: Two Studies in Middle American Comparative Linguistics, 53-108. Arlington: SIL and University of Texas at Arlington Press.
- Suárez, Jorge. 1983. La lengua tlapaneca de Malinaltepec. México, D.F.: Universidad Nacional Autónoma de México.
- Suárez, Jorge. 1986. Elementos gramaticales otomangues en tlapaneco. In: Benjamin Elson (ed.), Language in Global Perspective: Papers in Honor or the Fiftieth Anniversary of the SIL, 1935-1985, 267-284. Dallas: SIL.
- Swadesh, Morris. 1959. Mapas de clasificación lingüística de México y las Americas. México,
 D.F.: Universidad Nacional Autónoma de México.
- Wichmann, Søren. 1992. A semantic framework for the Azoyú Tlapanec Iterative. *Acta Linguistica Hafniensia* 25: 125-142.
- Wichmann, Søren. 1996a. *Description and Typology of Some Grammatical Categories in Azoyú Tlapanec*. Partly unpublished Ph.D. dissertation, University of Copenhagen.

- Wichmann, Søren. 1996b. The degrammaticalization of agentivity in Tlapanec. In: Elisabeth Engberg-Pedersen, Michael Fortescue, Peter Harder, Lars Heltoft and Lisbeth Falster Jakobsen (eds.), Content, Expression and Structure: Studies in Danish Functional Grammar. Studies in Languages Companion Series, pp. 343-360. Amsterdam/ Philadelphia: John Benjamins.
- Wichmann, Søren. 2005. Tlapanec cases. In: Beam de Azcona, Rosemary and Mary Paster (eds.), Conference on Otomanguean and Oaxacan Languages, March 19-21, 2004, University of California at Berkeley. Report 13, Survey of California and Other Indian Languages, pp. 133-145.
- Wichmann, Søren. 2006. Sandhi tonal interno en la morfología verbal tlapaneca. In Ortiz Ciscomani, Rosa María (ed.), Memorias del VIII Encuentro Internacional de Lingüística en el Noroeste, vol. 2, pp. 337-55. Hermosillo: Editorial UniSon.
- Wichmann, Søren. 2007. The reference-tracking system of Tlapanec: between obviation and switch reference. *Studies in Language* 31.4: 801-827.
- Wichmann, Søren. 2009. Case relations in a head-marking language: verb-marked cases in Tlapanec. In: Malchukov, Andrej and Andrew Spencer (eds.), The Handbook of Case, 797-807.
 Oxford: Oxford University Press.
- Wichmann, Søren. 2010. Ditransitive constructions in Tlapanec. In: Malchukov, Andrej, Martin Haspelmath, and Bernard Comrie (eds.), *Studies in Ditransitive Constructions: A Comparative Handbook*, 651-677. Berlin/New York: de Gruyter Mouton.