

Shaping Grammar: The Emergence of Grammatical Distinctions

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Fundamental Question

Why are languages the way they are?

Abstract genetic endowment:

design features universal to all humans?

Products of more general cognitive abilities

categorization, generalization, abstraction, routinization,
extension, economy, processing, learnability . . . ?

Other things?

Depends on what aspects of language
we're trying to explain.

And conversely,
our theoretical tools
determine in part what we try to explain.

Here

Consider some basic grammatical categories
with non-random geographical distributions

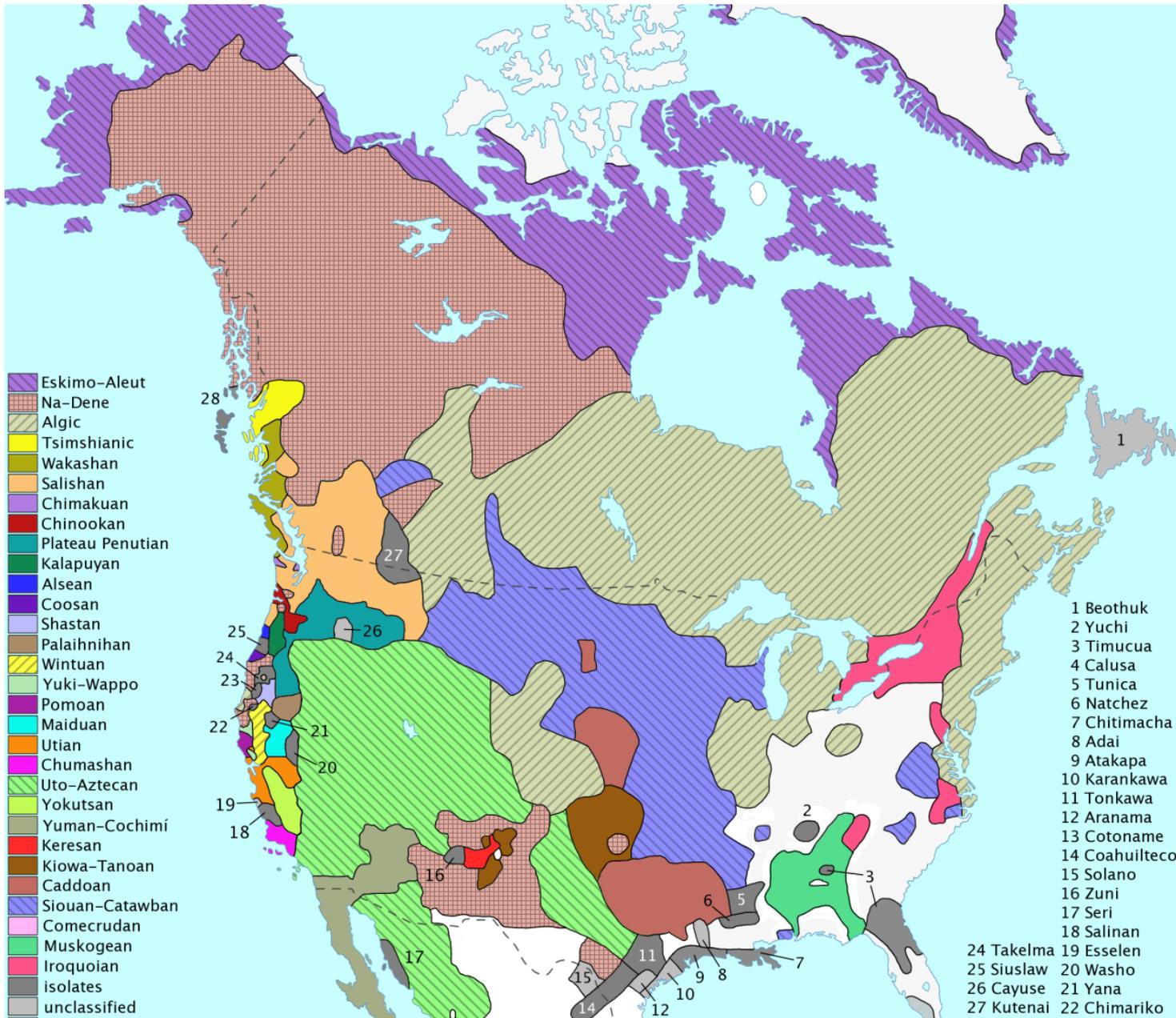
See the role of areality in shaping languages,
especially if we pull apart diachronic layers

1. Indigenous Languages of North America

How many languages?

Around 275 known

How many families in North America?
 ? ~ 57-58



Earlier estimates
 3, 6, 12,
 . . .

Some Strong Linguistic Areas

Northwest Coast

Southeast

California and adjacent areas



California Indigenous Languages

California Families and Isolates

Athabaskan

Tolowa

Hupa

Mattole

Eel River

Kato

Karok

Shasta

Chimariko

Klamath-Modoc

Yana

Palaihnihan

Achumawi

Atsugewi

Yuki-Wappo

Yuki

Wappo

Pomoan

Northeastern Pomo

Northern Pomo

Eastern Pomo

Central Pomo

Southeastern Pomo

Southern Pomo

Kashaya Pomo

Yokutsan

Palewyami

Buena Vista

Kings River

Gashowu

Valley Yokuts

Chumash

Obispeño

Purisimeño

Ineseño

Barbareño

Ventureño

Cruzeño

Uto-Aztecan

N. Paiute

Mono

Panamint

Kawaiisu

Chemehuevi

Tubatulabal

Serrano

Kitanimuk

Gabrieleño

Tataviam

Cahuilla

Cupeño

Luisseño

California Families and Isolates

Algic

Yurok

Wiyot

Wintuan

Wintu-Nomlak

Patwin

Maiduan

Maidu

Konkow

Nisenan

Washo

Esselen

Utian

Lake Miwok

Coast Miwok

Saclan

Plains Miwok

Northern Sierra Miwok

Southern Sierra Miwok

Karkin

Ramaytush

Chochenyo

Tamyen

Awaswas

Chalon

Mutsun, Rumsen

Salinan

Antoniaño

Micheleño

Yuman

Ipai

Tipai

Kumeyaay

Halchidhoma

Quechan

20 distinct genetic groups represented

Some part of large families
stretching widely across the continent

Uto-Aztecan, Algonquian, Athabaskan (Dene)

Some medium or small families
mainly in California

Utian (12 languages), Yuman (11), Pomoan (7), Chumashan (6), Shastan (4),
Maidun (4), Wintun (4), Yokutsan (3), Palaihnihan (2), Yuki-Wappo (2)

Some isolates:

Karuk, Chimariko, Yana, Washo, Esselen, Salinan



History of Classification in the West

By 1891

most North American families established: Powell

1903

Dixon, Kroeber noted structural resemblances
ascribed them to common typology

1913

Attributed them to deep genetic relationships:
Hokan and Penutian

“Hokan”

Original Hokan Hypothesis

Karuk, Chimariko, Yana, Shastan, Palaihnihan, Pomoan,
Esselen, Yuman

Subsequent Additions

Washo, Salinan, and Chumashan from California

Tonkawa, Karankawa, and Coahuilteco languages from Texas

Seri, Tequistlatecan, and Tlappanec from Mexico

Subtiaba from Nicaragua

Jicaque from Honduras

Original Hokan Proposal

Dixon, Roland and A.L. Kroeber 1913. *New Linguistic Families in California*.

AA n.s.15.4: 647-655.

5 presumed cognate sets

‘eye’, ‘tongue’, ‘water’, ‘stone’, ‘sleep’

Shared structural characteristics

absence of plural on most nouns

plural suffixes on verbs

pronominal affixes on verbs

instrumental verb prefixes

locational verb suffixes



Hokaan Hypotheses (and beyond)

Challenges

Remoteness of relationships:
like Indo-European or deeper

Sparse documentation of many languages,
many no longer spoken

Long histories of extensive contact

“Penutian”

Original hypothesis

Maidun, Wintun, Utian (Miwok-Costanoan), Yokuts
in California

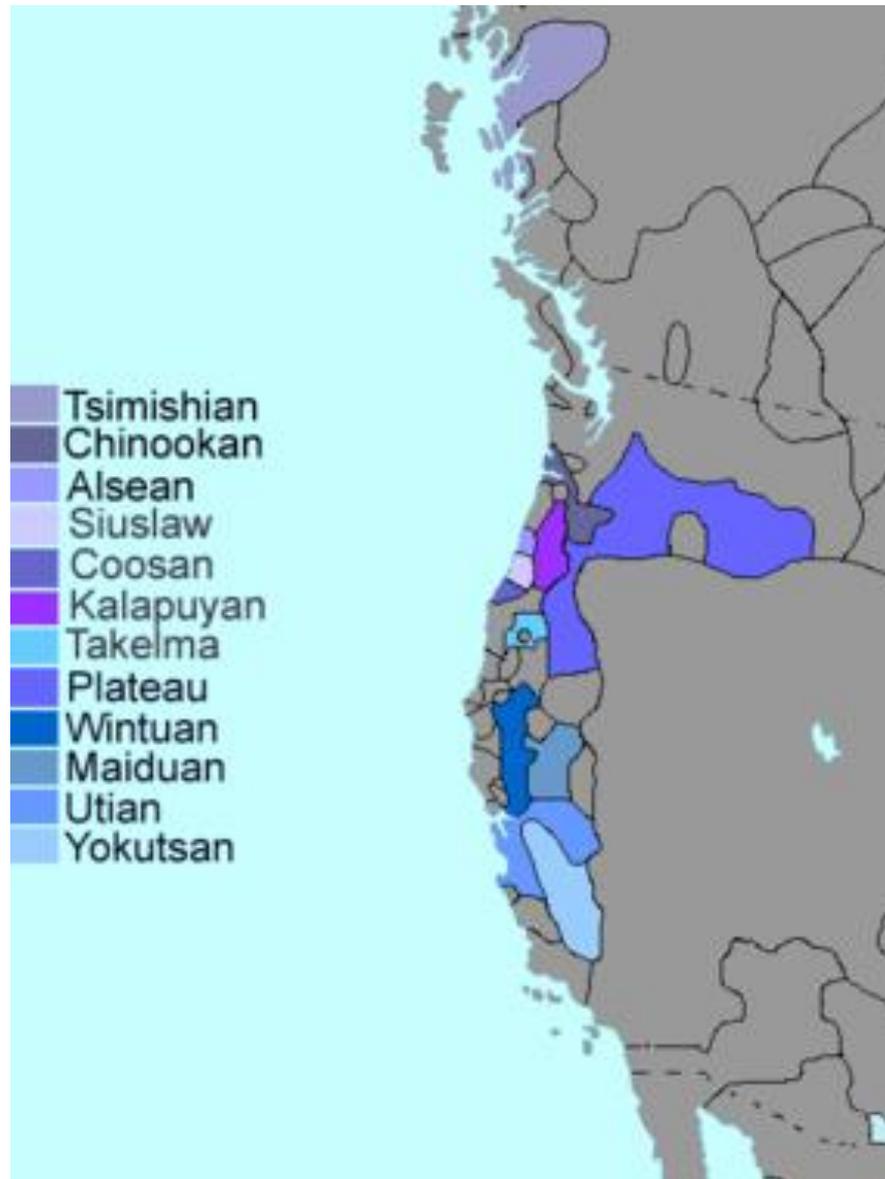
Then Takelma, Coos, Siuslaw, Alsea, Klamath-Modoc,
Cayuse-Molala, Sahaptian, Takelma, Kalapuya,
Chinookan in Oregon

Tsimshianic in British Columbia

Mixe-Zoquean, Huave in Mexico



Proposed Penutian (and beyond)



Families in Proposed Penutian

Original Evidence for Penutian

Dixon, Roland B. and A.L. Kroeber 1913. New linguistic families in California.
American Anthropologist, n.s 15.4: 647-655.

5 vocabulary items

‘bow’, ‘three’, ‘fire’, ‘liver’, ‘forehead’

‘bow’

Yokuts	<i>dayap, dalap</i>
Wintun	<i>kulul, kulsak</i>
Costanoan	<i>ława, šonok, tanuka</i>
Maidu	<i>pandak</i>
Miwok	<i>soloku, kono, tanuka</i>

Original Evidence for Penutian

Dixon, Roland B. and A.L. Kroeber 1913. New linguistic families in California.
American Anthropologist, n.s 15.4: 649-650.

‘There is available enough information on the **structure** of the five Penutian languages to prove their **genetic affinity** beyond a doubt even without recourse to lexical similarities

. . .

In the compass of the present notice, it is impossible to begin to enumerate the structural resemblances.

More Recent Proposals

Nichols 1999

Dunn, Terril, Reesink, Foley, & Levinson 2005

Structural features might inform us about deeper historical relationships than are accessible through the standard method of historical linguistics.

Hunley, Dunn, Lindström, Reesink, & Terrill 2008

They seem, at least in some cases,
more resistant to admixture than human genes.

Dunn M., Terrill A., Reesink G., Foley RA, Levinson S.C. 2005. Structural phylogenetics and the reconstruction of ancient language history. *Science* 309: 2072–2075.

Dunn M., Levinson S.C., Lindström E., Reesink G., Terrill A. 2008. Structural phylogeny in historical linguistics: Methodological explorations applied in island Melanesia. *Language* 84: 710–759.

Hunley K., Dunn M., Lindström E., Reesink G., Terrill A., et al. 2008. Genetic and linguistic coevolution in northern island Melanesia. *PLoS Genet* 4: e1000239.

Nichols J. 1999. *Linguistic Diversity in Space and Time*. University of Chicago Press.

Can language contact
affect not just lexicon (matter)
but also structure (pattern)?

Evolving Views

Thomason & Kaufman 1988: 14

‘Any linguistic feature can be transferred from any language to any other language.’

Important factors

language maintenance *vs* language shift

intensity of contact

Language Maintenance

Thomason & Kaufman 1988: 50

Casual contact, little bilingualism
only non-basic vocabulary borrowed

Intensive contact, much bilingualism, long period
much lexical borrowing,
moderate to heavy structural borrowing,
especially phonology and syntax

Language Shift

Thomason & Kaufman 1988: 50

Small shifting group

No effect on target language

Large shifting group

Moderate to heavy effect,
especially in phonology and syntax

Comparative stability of structural features

Cysouw, Albu, & Dress 2008: The Consistency with Overall Patterns

Dediu 2011: The Phylogenetic Rates of Evolution

Maslova 2002, 2004: Estimating Transition Probabilities

Parkvall 2008: Borrowability versus Genealogical Stability

Wichmann & Homan 2009: Stable Features Tend to “Stay in the Family”

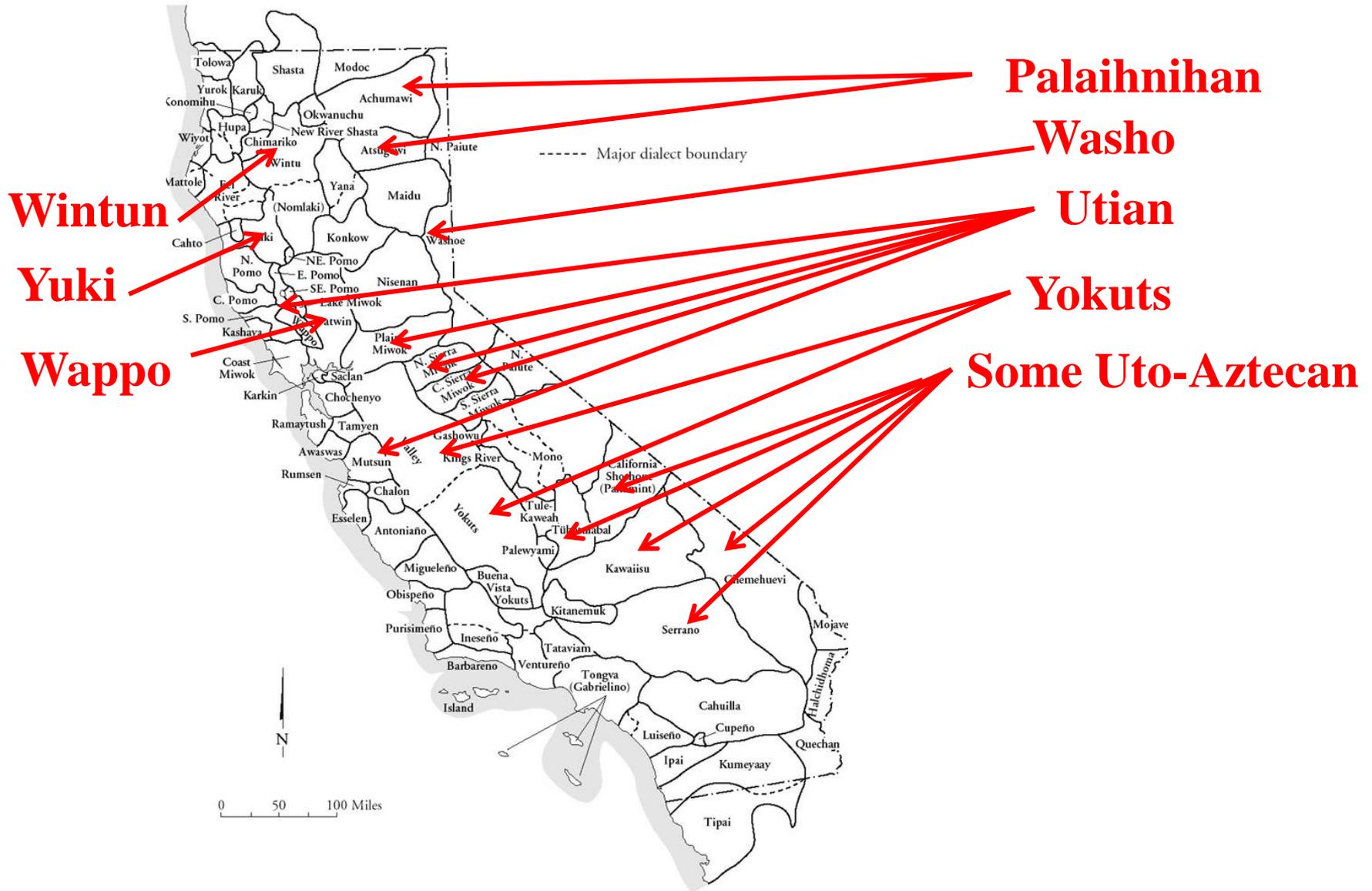
Dediu, Dan & Michael Cysouw 2013. **Some structural aspects of language are more stable than others:** A comparison of seven methods. PLOS. <http://dx.doi.org/10.1371/journal.pone.0055009>

2. Pronominal Categories I: Inclusive/Exclusive

‘you and I’ vs ‘he/she/they and I’

Areal Distribution

Pockets of unrelated languages
in Western California



Inclusive-Exclusive

Not along strict genealogical lines

Yuki but not possibly related Wappo

Numic branch of Uto-Aztecan

and just one outside of the branch: Tübatulabal
which is surrounded by Numic languages

Palaihnihan, Washo

but not other languages hypothesized as “Hokan”

Wintun, Utian, Yokuts

but not other languages hypothesized as “Penutian”

And

Forms can still be seen
to have been cobbled together
from other markers in the languages, in different ways.

(‘I’ + ‘you’, or ‘I’ + ‘two’ for inclusive, etc.)

Yawelmani Yokuts Personal Pronouns

SUBJECTS

	SG	DU	PL
1EXCL	<i>na'</i>	<i>na'ak'</i>	<i>na'an</i>
1INCL		<i>ma'ak'</i>	<i>may</i>
2	<i>ma'</i>	<i>mingin</i>	<i>ma'an</i>
3	<i>ama'</i>	<i>amingin</i>	<i>aman</i>

Objects

1EXCL	<i>nan</i>	<i>na:nkiwa</i>	<i>na:ninwa</i>
1INCL		<i>makwa</i>	<i>maywa</i>
2	<i>mam</i>	<i>ma:mikwa</i>	<i>ma:minwa</i>
3	<i>amam</i>	<i>ama:mikwa</i>	<i>ama:minwa</i>

Bilinguals

searching to express a distinction from one language
may have worked to replicate it in their other
using native forms.

3. Pronominal Category II: Dual Number



Wintun family

Key to Tribal Territories

Dual Pronominal Category



Yana family

Key to Tribal Territories

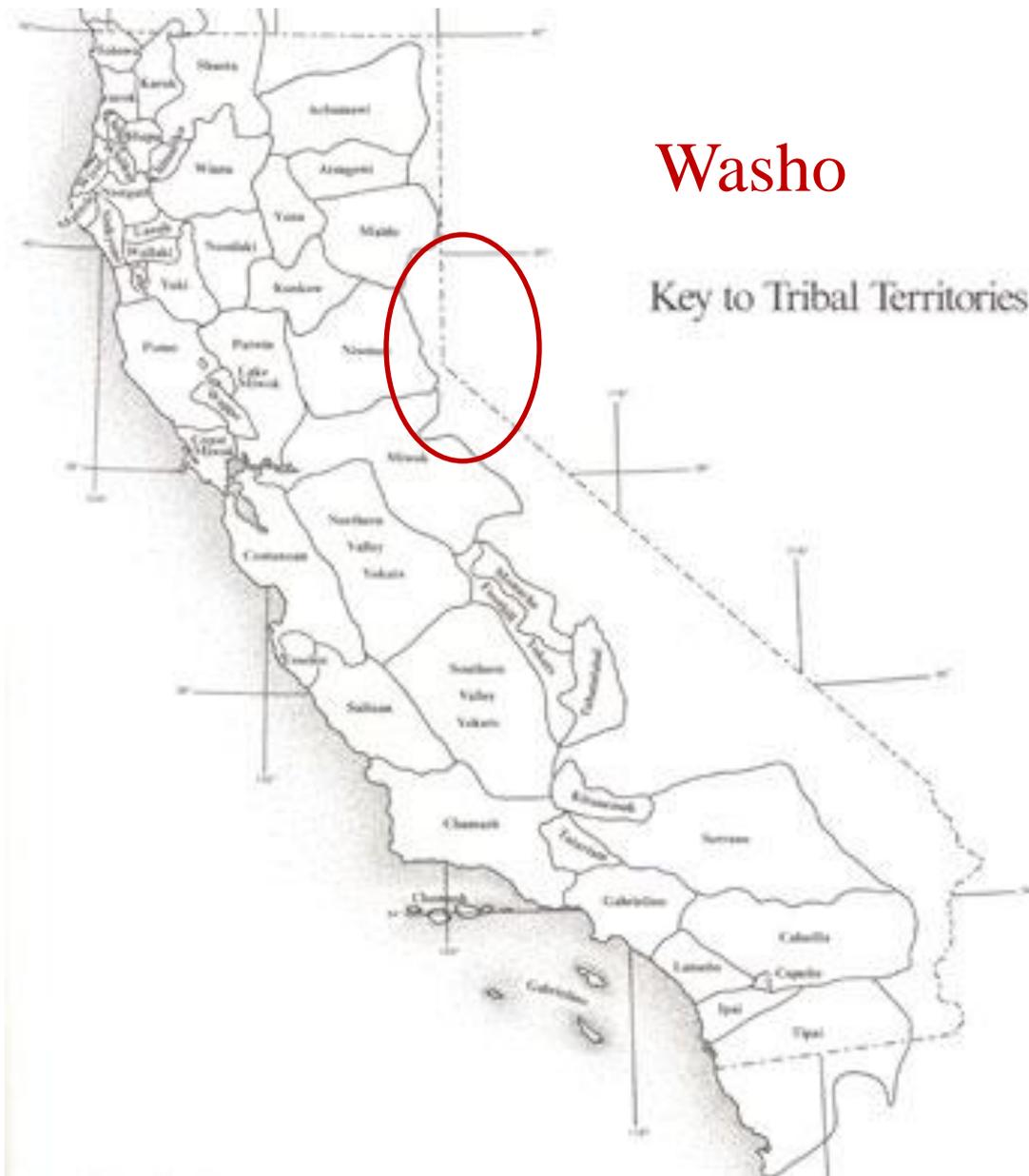
Dual Pronominal Category



Maidun family

Key to Tribal Territories

Dual Pronominal Category



Washo

Key to Tribal Territories

Dual Pronominal Category



Miwok

Key to Tribal Territories

Dual Pronominal Category

Uto-Aztecan family

Key to Tribal Territories



Dual Pronominal Category

Yokutsan family

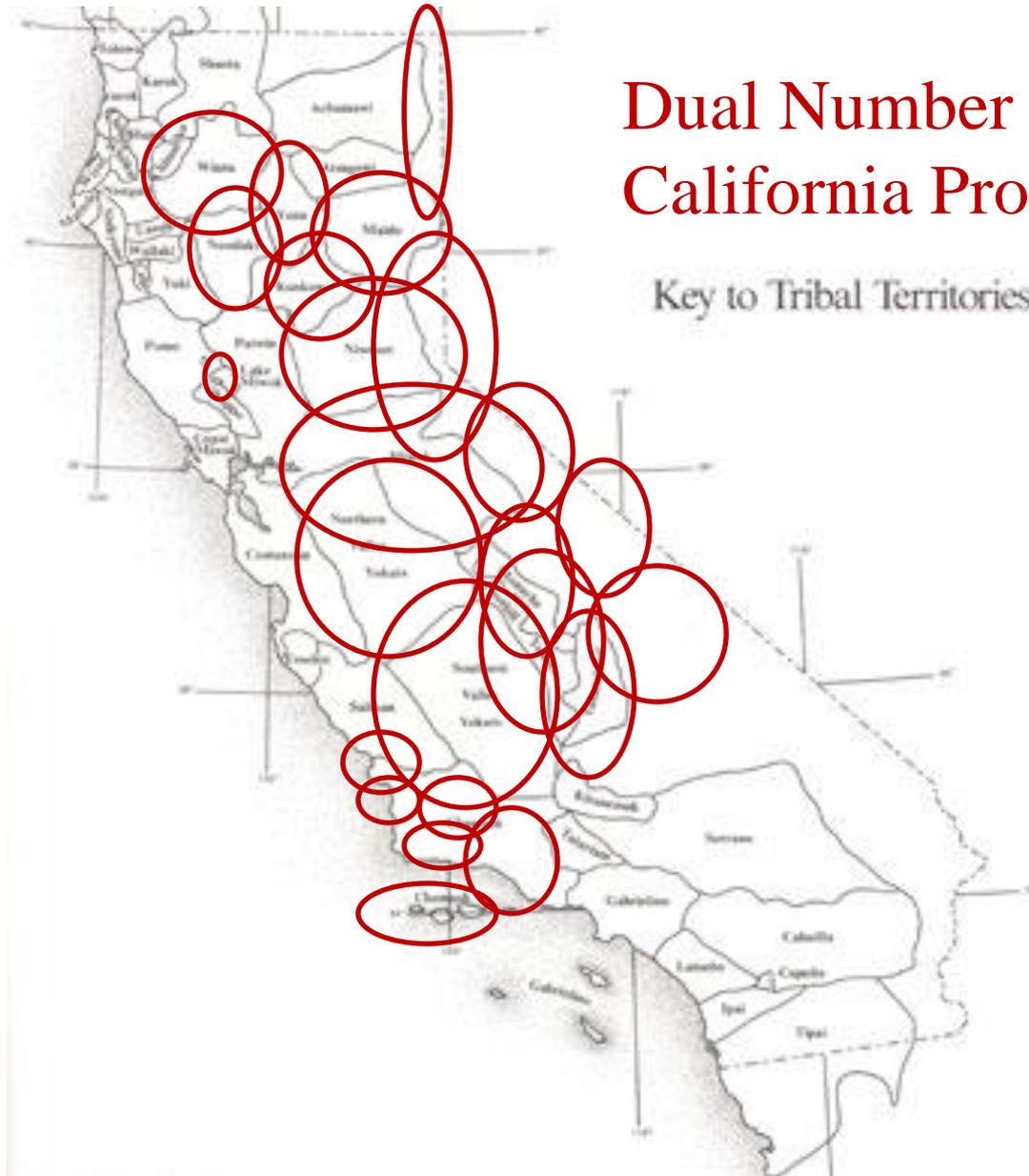
Key to Tribal Territories



Dual Pronominal Category

Dual Number in California Pronouns

Key to Tribal Territories



Dual Pronominal Category

Crosses Family Boundaries

Wintun

Yanan

Maidun

Washo

Utian

Yokutsan

Uto-Aztecan

Chumashan

Crosses Deepest Superstock Proposals

Putative “Hokan”

Yana, Washo

Putative “Penutian”

Wintun, Maidun, Utian, Yokutsan

But also Splits Hypothesized Stocks

Putative “Hokan”

Yes: Yana, Washo

No: Shasta, Karuk, Chimariko, Palaihnihan,
Pomoan, Salinan, Yuman

Putative “Penutian”

Yes: Wintun, Maidun, Yokutsan, Coos, Siuslaw

No: Klamath, Takelma (Oregon)

Splits Families

Utian (Miwok-Costanoan) Family

Yes: Miwok branch (mainly inland)

No: Costanoan branch (coast)

Splits Families

Uto-Aztecan Family

Yes: Central Numic branch, Hopi, Tubatulabal
Tubatulabal, Hopi neighbors but not most closely related
Tumpisa oblig on pro, opt on adj, dem, pres participles, derived nouns

Rudimentary: Western, Southern Numic branch
(morphemes for dual not cognate with Central Numic)

No: Other Uto-Aztecan languages

No: Proto-Uto-Aztecan

Ronald Langacker. 1977. *Studies in Uto-Aztecan Grammar, Volume 1, An Overview of Uto-Aztecan Grammar. SIL Publ in Linguistics.* Number 56. Dallas: SIL and U. of Texas at Arlington.

McLaughlin, John 2013. Central Numic Innovations in Dual Number Marking. Paper presented at the Linguistic Society of America Annual Meeting, Boston.

Present through geographic center

Absent around edges

Sources of some markers at outer boundaries
still identifiable:

Maidun ‘both’; Tumpisa ‘two’

So

Pronominal distinctions
have apparently been replicated.

Bilinguals accustomed to specifying
a certain distinction in one of their languages
are likely to try to replicate it in another
exploiting native devices in that one.

4. Alternative Third Persons

A number of North American languages
have two sets of third person pronouns
that do not distinguish gender.

(Algonquian, Athabaskan, Caddoan, Eskimo-Aleut families)

AND parts of California!

The distinctions vary and can be subtle.

4.1 Pomoan Family

Central Pomo



California Indigenous Languages



Central Pomo Territory

Near Hopland, California, with view of Clear Lake



Hopland, California



Central Pomo Hopland Band Singers

Central Pomo Pronouns

	AGENT	PATIENT	OBLIQUE
1SG	<i>ʔa:</i>	<i>to:</i>	<i>ʔk^he</i>
2SG	<i>ma</i>	<i>mto</i>	<i>mk^he</i>
3SG	<i>mu:l</i>	<i>mú:tu</i>	<i>mú:k^he</i>
3'SG	<i>tí:</i>	<i>tí:to</i>	<i>tí:k^he</i>
1PL	<i>ya</i>	<i>yal</i>	<i>yá:ʔk^he</i>
2PL	<i>máya</i>	<i>máyal</i>	<i>máya:ʔk^he</i>
3PL	<i>mú:tuya</i>	<i>mú:tuyal</i>	<i>mú:tuya:ʔk^he</i>
3'PL	<i>tíya</i>	<i>tíyal</i>	<i>tí:ya:ʔk^he</i>

Central Pomo Pronouns

	AGENT	PATIENT	OBLIQUE
1SG	<i>ʔa:</i>	<i>ʔo:</i>	<i>ʔk^he</i>
2SG	<i>ma</i>	<i>mʔo</i>	<i>mk^he</i>
<u>3SG</u>	<i>mu:l</i>	<i>mú:tu</i>	<i>mú:k^he</i>
<u>3'SG</u>	<i>ʔí:</i>	<i>ʔí:to</i>	<i>ʔí:k^he</i>
1PL	<i>ya</i>	<i>yal</i>	<i>yá:ʔk^he</i>
2PL	<i>máya</i>	<i>máyal</i>	<i>máya:ʔk^he</i>
<u>3PL</u>	<i>mú:ʔuya</i>	<i>mú:ʔuyal</i>	<i>mú:ʔuya:ʔk^he</i>
<u>3'PL</u>	<i>ʔíya</i>	<i>ʔíyal</i>	<i>ʔí:ya:ʔk^he</i>

What is the difference
between these two sets of 3rd persons?

3 *mu:l* and **3'** *ti:* etc.

Basic 3rd Person: *mu:l*

Frances Jack, speaker p.c.

Mú:tu *č'al* *yow* *dá:ʔduw*,

her home.to go want

‘(He) asked her if (she) wanted to go home,

mu:l *do:* *č^how* *híhduw*.

she QUOT no said

but she said “No”.

Mu:l developed from distal pronoun ‘that’.

Omitted when reference is clear.



Frances Jack,
speaker

Central Pomo Basic Possessor

Salome Alcantra, speaker p.c.

Yá:q' t^hín mú:tuya:k^he k'úči.
know not 3PL.POSS children

‘I don’t know their children.’

3rd Person: *ti*:: Coreference

Human (or personified) referents
co-referential with the subject of their clause

Central Pomo Co-referential Possessor

Florence Paoli, speaker p.c.

Mú:tuya ʔ=mu:l, tí:ya:k^het' čá:č' ló:hč'iw.
they COPULA=that 3'PL.POSS person help

‘They just help their own people.’

Subject controller need not be overt.

Florence Paoli, speaker p.c.

Tiya:k^het' *qanémač'* *yačól šk'e*
3'PL.POSS relative to only

táwhal *daqátaqya.*
work give.PERSONAL.EXPERIENCE

‘(They) only give jobs to their own relatives.’



Forence Paoli and Frances Jack
speakers

Overlapping Reference

Frances Jack, speaker p.c.

Dé:ʔwadan

lead.around.IMPFV

to:

1SG.PATIENT

ʔe

COPULA

‘(He) would lead me around

tíya:k^he

3’PL.POSS

ma: p^hwí:kawʔk^he.

land

see.CAUSATIVE.FUTURE

to show me their ranch.’

Not Basic Reflexives

Central Pomo morphological reflexive

čaq^háw ‘cut’

čaq^háč ‘cut oneself’

Not Emphatic Reflexives

Central Pomo emphatic *šʔún* ‘oneself’

Šʔún *q^hadímmaw* ‘we went after it ourselves’

Possession on Kinship Terms

Salome Alcantra, speaker p.c.

Mída čá:č' má:ta mú:k^het q'alá:w,
there man woman 3SG.POSS died

‘That man, his woman died,

míya: dáqa:del mu:l.
POSS wife that

his wife.’

‘woman’ = basic noun

‘wife’ = kinship term



Salome Alcantra,
speaker

Co-referential Possession on Kinship Term

Mú:tuya **ma**-t^hé-l sdó t'om.
they 3'POSS-mother-PAT breast nurse-MULT.AGT

‘They (puppies) were nursing on **their** mother’s breast.’

Beyond the Clause

Co-reference with a higher subject

Coreference with Higher Subject

Frances Jack, speaker p.c.

Mu:l

3SG.AGENT

šá:ṭ'a: 'duw

know.PFV

mu:l

3SG.AGENT

‘She knows

ʔa:

1SG.AGENT

tí:to

3'SG.PAT

ma: tétedan.

things tell.IMPFV

all the things I've been telling her.'

Coreference with Unexpressed Higher Subject

Frances Jack, speaker p.c.

Mé:n *tí:to* *mí:-ya-w* *ʔin*,
so 3'PAT tell-PASS-PFV when

‘When he was told,

mil *šmá:* *ʔt^hin*.
that to ear not

(he) didn't even listen.’

Coreference with Unexpressed Subject

Salome Alcantra, speaker p.c.

Mu:l, báya: ʔel, híhduw
that one man the said

‘That man said

k'ú:, tí:to hláw t'a: wá:n yá:q' t^hín ʔe mu:l,
child 3'PAT behind guess walking know not COP that
that (he) didn't know a child was walking behind him

tí:k^het' car ʔel, backupč'iwda mu:l.
3'POSS car the as backing up that
as he was backing up his car.’

Coreference on Kinship Term

Frances Jack, speaker p.c.

Ma-báyal

ʔi-w

3'POSS-husband.PAT

do-PFV

‘(She) did that to her husband

tí:to

dú-:ka-w

dá:-w

č^hów

ʔi-n.

3'PAT

see-CAUS-PFV

want-PFV

not.PFV

be-as

because she didn't want to let (them) see (him).’

Similar Distinctions described elsewhere in the world

Long-distance Reflexives

Latin, Icelandic, Faroese, Japanese, etc.

Some reflexive pronouns may take antecedents outside of their immediate clause.

Thráinsson 1976, Anderson 1982, Barnes 1984, Maling 1984,
Sigurðsson 1986, Sells 1987, etc.

Like Central Pomo examples just seen.

Logophoric Pronouns

Term coined by Hagège 1974

Classic definition: Clements 1975:141

‘Logophoric pronouns are used to refer to the person whose speech, thoughts, or feelings are reported or reflected in a given context.’

Logophoric pronouns in certain African languages

Hagège 1974, Clements 1975, Hyman and Comrie 1981, Frajzyngier 1985, Wieseemann 1986, Sells 1987, von Roncador 1992, Stirling 1993, Culy 1994, 1997, Dimmendal 2001, Curnow 2002, Güldemann 2003, 2008, Bond 2006, Bhat 2007, etc.

Nau 2006 for Finnish and Latvian dialects

Also like Central Pomo

Central Pomo *ti*: pronouns
frequent with higher verbs of speech

Higher Verb of Speech

Tí:k^het' *táw^hal* *t^hin* *ʔti*
3' SG.POSS work not but

'Not his job but

tí: *k^he* *q'dí:ckaw* *híhč'inba*
3' SG.AGT 1 SG.POSS good.CAUS.FUT.PFV saying.and

(he) said he would fix mine

čá yóba *q'dičkaw.*
house.come.and good.CAUS.PFV

and (he) came in and fixed it.'

Higher Verb of Speech

Mú:tuya *to:* *q^hadí:ʔč'i-w,*
3PL.AGENT 1SG.PATIENT invite-PFV

'They asked

ʔa: *do:* *tíyal* *č'a:l*
1SG.AGENT QUOT 3'PL.PATIENT with
me to come swimming

ʔa: *q^há* *qó:mač= 'k^he.*
1SG.AGENT water swim.PL-IRR
with **them.**'

Frequent Co-occurrence with Quotative *do*:

Frances Jack, speaker p.c.

Mi: do: ti: čó: 'duw dačét čanú 'el.
there QUOT 3'AGT keep catch word the
'That's the way she keeps, catches the words.'

With Quotative *do*:
even without verb of speaking
Kate Daniels, speaker p.c.

Béda *to:* *č'a:l* *qóyowhi*
here 1SG.PAT with come.PFV.and.SAME

'She's going to come and

do: *ti:* *ʔč^há:-w= 'k^he.*
QUOTATIVE 3'SG.AGT sit-PFV=IRR
stay with me.'

Same or Different?

Culy 1997

Distinct primary functions

Long distance reflexives:

Clausal coreference

Obligatory in domain (sentence)

Logophoric pronouns:

Indirect discourse marker

Optional in domain (discourse)

Common secondary function

Point of view

Overt Higher Verb of Speech or Quotative not obligatory in Central Pomo

‘I went with her and took my basket. I just took it. And then they went in. I sat in the car. I didn’t go in, because they had something to talk about. I sat in the car.

Then I said, “Take mine in too,” I said to the man, her husband. “Just find out how much they would give me for it.”

After awhile her husband came out and said (he) wanted to give me \$300 for it. So I said, “Well, I’ll keep it a little longer. After awhile I’ll get more. [Yeah.] Lots too. [They’ll pay more.] I’ll hold onto it a little longer. [Mhm.]. For a different price.

Anyway, we came back.’

No Higher Clause

Florence Paoli, speaker p.c.

Tí:to

3'SG.PAT

q^hadiway

buy

dá:ʔduw

want

‘He wanted to buy it

mída ʔe

there COP

mé:naw

so much

maná:č’.

pay

for the same price they mentioned there.’

No Overt Verb or Quotative: Kinship Terms

Frances Jack, speaker p.c.

Speaker had heard about the death of a man and ran into his widow.

‘I felt bad. I asked her,

“When are you going to bury him? You let me know.”

“He’s not going to have a funeral. I’m going to have him cremated.
I don’t want to let other people look at him.”

Mé:n *ʔin* *tí:*,
that be.as 3’SG.AGENT

‘That’s why she

ma-*báyal*, *mléy:kaw*.
3’POSS-husband.PATIENT burn.CAUS.PFV

cremated her husband.’

Actually no speech necessary at all.
Simply point of view

<i>ʔúda:w</i>	<i>qamát̚'</i>	<i>ʔá:ʔda</i>	<i>háyu.</i>
really	mad	feel.IMMEDIATE	dog

‘The dog is feeling pretty mad.’

<i><u>Tí:k^{he}</u></i>	<i>má:ʔa.man</i>	<i>ʔčí:yaw.</i>
3'SG.POSS	woman.particular	take.DEFOCUS

‘His woman was taken away.’

Central Pomo *ti*:

3rd person

from whose point of view situation is presented.

Would-be suitor looking in the mirror feeling sorry for himself after he had been turned away.

‘He (BASIC) felt pretty bad. (He) started to cry.

After he (EMPATHETIC) had groomed himself

after he (EMPATHETIC) had gone over there

he (EMPATHETIC) was spit out of there.’

ti:

Jesse Frank, speaker p.c.

Mu:l ʔída:w ba:sét' t'á:ʔduw.

3 really bad felt

‘He felt pretty bad.

Me:n c'íba mu:l ti: q'dí ʔbáyč'iw=da,
so then that 3'AGT good groomed self=and.then

After he had groomed himself,

ti: qóyow=da,
3'AGT there went=and.then

after he had gone there,

ti:to qa:p'hét' =wi be: mdí:yaw.
3'.PAT orally.spit=and.then away was led

he was spit out of there.’

So

Central Pomo *ti*: Pronouns

Coreference with subject of the clause

Coreference with subject of higher clause
(like cross-clause reflexives in Icelandic)

Coreference with subject of verbs of speech
(like logophoric pronouns of African languages
but not limited to verbs of speech or thought)

And more: Empathetic Pronouns

Person from whose point of view situation is presented

Empathy

Point of view, perspective

Kuno, Susumo. 1987. *Functional Syntax: Anaphora, Discourse, and Empathy*. Chicago: University of Chicago Press.

Daniel 2015

Culy 2001

long-distance reflexives in logophoric contexts
are a secondary extension of the reflexive function

Toldova 1999

Logophoricity is the primary function
and the reflexive function is its extension
in East Caucasian systems.

Daniel, Michael. 2015. Logophoric reference in Archi. *Journal of Pragmatics*
88: 202-219.

Daniel 2015

In Archi

the same material is the foundation of both
logophoric and reflexive contexts:
reflexives contain an additional intensifier.

Daniel 2015

Both logophoric and reflexive uses
of the Archi pronoun
are extensions of the core function of the pronoun
which is to mark the special pragmatic/discourse
role of its referent --
extensions that involve grammaticization
of the pronoun in specific contexts
as reflexives and logophoric.

5. The Neighbors



Pomoan, **Yuki**, **Wappo**, **Lake Miwok**

Yuki, Wappo, Lake Miwok Special 3rd Pronouns

Yuki	AGENT	PATIENT	OBL/POSS
SG	<i>kip</i>	<i>kip(a)</i>	<i>kipat</i>
PL	<i>kimo'osiya</i>	<i>kimosiyat</i>	

Wappo	SUBJECT=OBJECT	ALIEN.POSSESSOR
SG	<i>me</i>	<i>me-me?</i>
PL	<i>mesa</i>	<i>mesa-me?</i>

Lake Miwok	SUBJECT=POSSESSOR
SG	<i>hana-</i>
DU	<i>hanakoc-</i>
PL	<i>hanakon-</i>

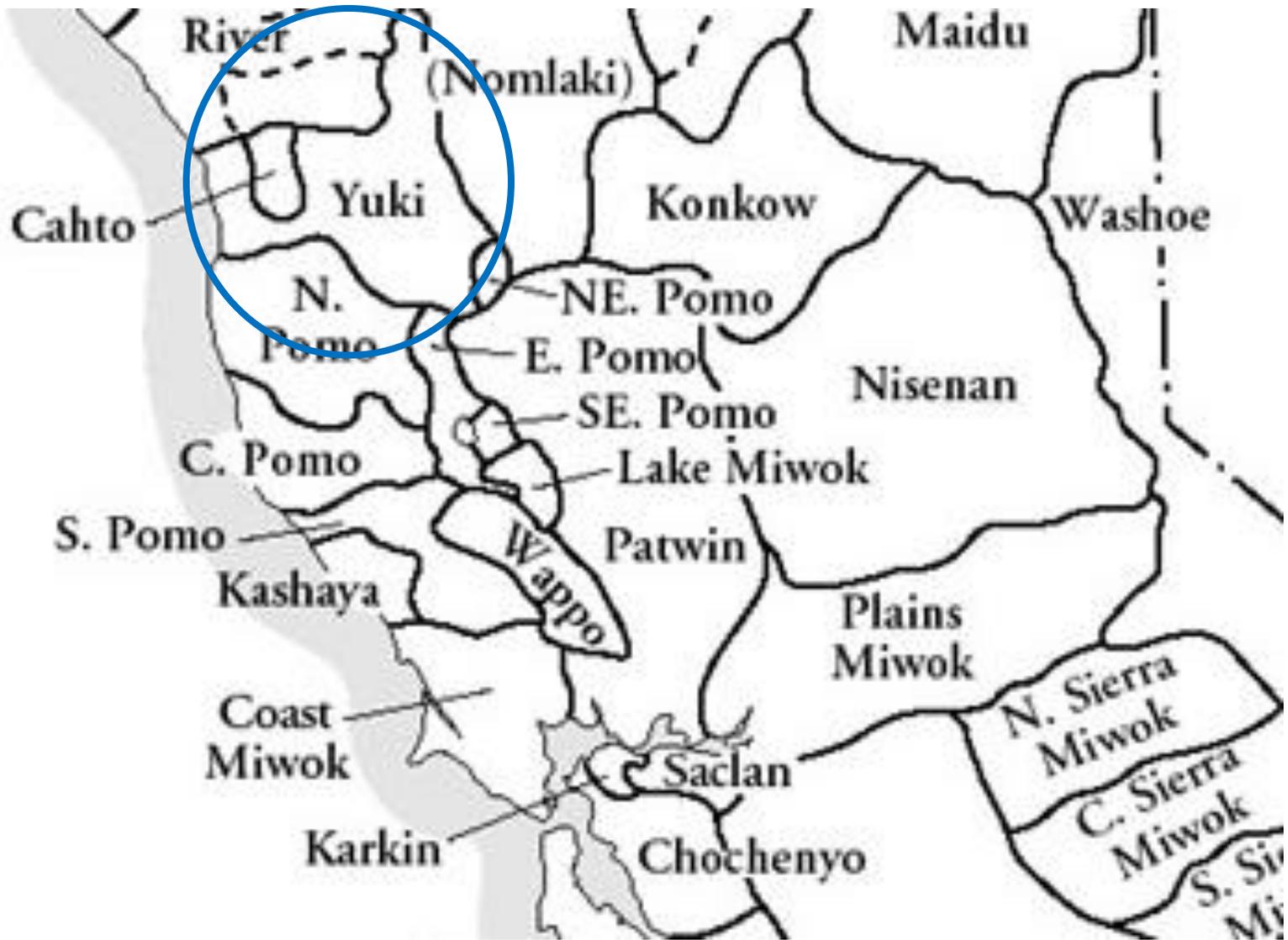
5.1 Yuki

Yuki

Immediately north of Pomoan

3 closely-related languages
or distantly-related dialects

Yuki Proper, Coast Yuki, Huchnom



Pomoan, **Yuki**, Wappo, Lake Miwok Areas



Yuki Homeland: Round Valley

Coreference within the Clause

Yuki Basic 3rd Person Possessor

Siniard 1967:7, cited in Balodis 2011:379

<u><i>Kiʔat</i></u>	<i>hqw</i>	<i>ʔi:</i>	<i>ča:ni=k.</i>
3SG.POSS	fish	1SG.PAT	give=DECL

‘He gave me his (someone else’s) fish’

Balodis, Uldis. 2016. *Yuki Grammar, with sketches of Huchnom and Coast Yuki*. University of California Publications in Linguistics 151. Berkeley: University of California.

Yuki Coreferential Possessor

Balodis 2011: 774, Origins 118

Sákiṭey

sá=kiṭ=?i

SAME=then=HEARSAY

háye

háye

now

kípát

kipat

3'SG.POSS

hápút[?]ey

haput=?i

rib=HEARSAY

‘And now his (own) rib

kípát

kipat

3'SG.POSS

múšp'a

musp=a

wife=PAT

k'ąk'ésimil.

k'ąk-s=mil

make-CAUS=FIN

(he) made come into existence as his (own) wife.’

Coreference beyond the Clause

Yuki Basic 3rd Person

Disjoint Reference with Higher Subject

<i>Sq</i>	<i>ki</i>	<i>mátlikit̚</i>	<u><i>kiʔa</i></u>	<i>hulkʔóʔa</i>	<i>kʔóli</i>
są	ki	matʔ-tl=kit̚	ki=a	hulkʔoʔi=a	kʔol
SAME	3PL.AGT	do-TR=then	3SG.PAT	Coyote=PAT	kill

‘And when they had done this to Coyote after (they) had killed him,

<i>sąkit̚ ʔey</i>	<i>kipąwwap</i>	<i>ko:lítimil.</i>
są=kit̚ =ʔi	kipąw=ap	koʔ-lit=mil
SAME=then=HRS	back=LAT	go-DIR=FIN

(they) went back.’



Ralph Moore, Yuki speaker

Philip M. Jones, Photographer, Phoebe Hearst Museum of Anthropology

Yuki Coreference with Higher Subject

“In the rock cracks the eyes shall enter,
with the tears and the brains they shall enter”

ʔimeymil **kípa** *k'o:lísi.*

ʔim=mil kipaꞤ k'ol-s

say=FINITE 3'SG.PAT kill-CAUSATIVE

(he) said while (they) killed **him**.'

Yuki Coreference in Adverbial Clause

<i>Se[?]éy</i>	<i>háye</i>	<i><u>kip</u></i>	<i>[?]á:mop</i>
si= [?] i	háye	kip	[?] ah-ma [?] =op
NEW=HRS	now/again	3'SG	seize-DIR=as

‘Then as (they) moved to seize him,

<i>lilkú:ti:[?]</i>	<i>pilqá:t</i>	<i>namtlnamlikí</i>	<i>[?]i:čí[?]qkmil</i>
lil-kut=i [?]	pilqat	nam-tl=namli=ki	[?] it-ak=mil
stone-start=in	sun	lay-TR=DEP=that	JXT-SML=FIN

(he) went near where he had laid the sun at the base of a rock.’

Yuki Coreference in Relative Clause

<i>Hulk'oʔi</i>	<u>kip</u>	<i>kíwsi</i>	<i>ʔey</i>	<i>k'anhaʔámilmil</i>
hulk'oʔi	kip	kiw-s=ʔi		k'anha-ʔamil=mil
Coyote	3'SG	ask-CAUS=HEARSAY		not.answer=FIN

‘(He) did not answer what Coyote was asking **him**.’

‘Taykómo instructed Coyote what to ordain for people everywhere.’

‘And thus he_i (Taykómo) had him_j (Coyote) instruct **his_j** (Coyote’s) wife to be good and stay at home and take good care of the children.’

<i>Simey[?]éy</i>	<u>kipat</u>	<i>músp’a</i>	<i>tat</i>	<i>šú[?]hinik</i>
si=mi= [?] i	kipat	musp=a	tat	šu [?] -h-nik
NEW=X=HRS	3’SG.DAT	woman=PATIENT	good	sit-DUR-NEC

‘**His_j** wife to be good and stay home

<i>tat</i>	<i>hálč</i>	<i>tatí:yaŋk</i>	<i>míhin(i)k</i>	<i>ʔey</i>
tat	halč	tat-y-am=k	mih-nik= [?] i	
good	children	good-PROG-X=DECL	be-NEC=HEARSAY	

to take good care of the children

<i>ʔim</i>	<i>nak’áhisimil</i>	<u>kipat</u>	<i>músp’a.</i>
ʔim	nak’oh-s=mil	kipat	musp=a
thus	teach-CAUS=FIN	3’SG.DAT	woman=PATIENT

(he_i) had (him_j) instruct **his_j** wife.’

5.2 Wappo



Pomoan, Yukian, **Wappo**, Lake Miwok Areas



Possible distant relative of Yuki,
but similarities may be due to contact

Co-reference within the Clause

Wappo Coreferential 3rd Person Forms within the clause

Mé-te-wélalo'-kwen

3'SG-toward-return-when

‘When **he** came back,

mé-*misi* *tó'ta'*.

3'SG.POSS-wife whipped

(he) whipped **his** wife.’

Wappo Coreferential 3rd Person beyond the clause

Mé-te-wélalo'-kwen

3'SG-toward-return-when

'When he came back,

mé-misi *tó'ta'*.

3'SG.POSS-wife whipped

(he) whipped his wife.'

Wappo Coreferential 3rd Person beyond the clause

Céphi *me*-cám:ta? háhta?

3SG.SUBJECT 3'SG-do say

‘He said he did it.’

Wappo Coreference in Coordinate Clauses

Wappo Coreference in Conjoined Clauses

Radin 1929:34

Cehéteski méce pat:a me-naṭ'óaki
he carried arrow and then 3'-arrived

‘He carried arrows and then he arrived.’

Čóhoki éwe me-k'ál:ta.
he came spear 3'-took

‘He came and he took (his) spear.’

Later 20th century: Laura Somersal,
one of the last fluent speakers,
bilingual in Southern Pomo

Co-reference not across coordinate conjunction
or sentence boundaries
thus more like Pomoan and Yuki

Wappo conjunction: Basic anaphoric pronoun

Laura Somersol, speaker

Cèl' cèṭa tòṃ' ʔòk'o:-t-i wéy'-ah-khi?
then there fawn child-INDEFINITE-NOM die.PL-PUN-FAC

‘There the deer children died

wèyh cè kèwa' cèko:ti ma-čú-khe?
then that next.day 3PL.SUBJECT in-burn-get

and the next day they were burned up.’



Laura Somersal,
Wappo speaker

5.3 Lake Miwok

Lake Miwok

Adjacent to Pomoan and Wappo

Utian family,
geographically separated from most relatives

Utian never considered related
to Pomoan, Yuki, or Wappo



Pomoan, Yukian, Wappo, **Lake Miwok** Areas



Clear Lake

Co-reference

only within the Clause

Lake Miwok Possessive Prefixes

Callaghan 1963:76

ʔiti-háju ʔúʔe ‘He sees his
(somebody else’s) dog.’

hana-háju ʔúʔe ‘He sees his own dog.’

Lake Miwok Basic and Co-referential Possessives

Callaghan 1978:70.151

Hín:at *ʔi-ʔá:ṭaw* *weno* *ʔiti-pápa-n.*
that.time-ALL he-says it.is.said 3SG.POSS-gf-NOM

‘Just then, his grandfather said something.

Hana-các:o *ʔí:lip.*

3’SG.POSS-grandson teases

(He) was teasing his grandson.’

Lake Miwok Complement Clause

No Coreferential Forms

ʔakal ne ʔolé:-nawa-ʔaye-n né:nut kela
then this Coyote-Old.Man-one-NOM knows already
‘Old Man Coyote already knew

ne hú:ya wulá:hinte-c ʔiti-các:o-n.
this beads steals-REL-ACC 3SG.POSS-grandchild-NOM
that his grandson had stolen the beads.’

Lake Miwok Relative Clause No Coreferential Forms

Hínti-c *koc*-ʔuᵛé:hintec

what-ACC 3DU-see-REL-ACC

‘Whatever they saw

má:-c ʔiᵛi *koc*-yóp:ut *mát* *súkuh*.

that-ACC 3SG.OBJ 3DU-feed-ALL there-ALL is.situated.

they fed him, whatever was there.’

6. Sequence of Developments?

Apparently

The development of an additional third person category was stimulated by contact.

But forms were not transferred.

Pomoan *ʔi/ma*- Yuki *kip*, Wappo *me*-, Lake Miwok *hana*-

Even the Yuki and Wappo forms differ
though the languages are possibly related

Yuki	AGENT	PATIENT	OBL/POSS
SG	<i>kip</i>	<i>kip(a)</i>	<i>kipat</i>
PL	<i>kimo'osiya</i>	<i>kimosiyat</i>	
Wappo	SUBJECT=OBJECT	ALIENABLE.POSSESSOR	
SG	<i>me</i>	<i>me-me?</i>	
PL	<i>mesa</i>	<i>mesa-me?</i>	

Possible Sources of Markers

within the languages

Yuki

similarity of *kip* etc. to distal demonstratives *ki?*
with increment *-p*

Wappo

similarity of *me* to reflexive *mai?*
(1st and 2nd person coreference shown with reflexive *mai?*)

Lake Miwok

Unclear source of form.

Relative languages outside of the area
do not distinguish this category at all.

Facilitating Circumstances

Third person pronouns
are not used for continuing topics
in any of these languages,
so rarer in any case.

Basic third persons
are actually demonstratives:
Central Pomo, Yuki, Wappo, Lake Miwok

Possession not specified as often
in these languages.

So less obligatory marking
to reanalyze.

Central Pomo

In spontaneous speech,
mention of body part possessors
is surprisingly rare.

Speakers add possessors
in English translations.

Body Parts without Possessors

Frances Jack, speaker, p.c.

Q^hamá mabó-w=wiya.

foot swell-PFV=PERSONAL.AFFECTEDNESS

‘**(My) foot** swelled up.’

ʔo ʔt^hál.

tooth hurt

‘**(My) tooth** hurts.’

No Possessors

Alice Elliott, speaker

Má:ta *ʔmí: ʔe* *t^hé=ya* *ʔul* *dóq'* *yó-hi*
woman there COP mother=TOP now meet go-and

‘The mother then goes to meet (**her**) **daughter** and

šá: *da-čé-hi* *čá-w* *de-w.*
arm palming-grab-and house in lead-PFV

grabs (**her**) **arm** and leads her in.

Béda *t^hana* *hná:m-aʔ-ya-w,* *t'áleya.*
here **hand** tie.around-IPFV.PL-PASS-PFV bead

Here beads are tied around (**her**) **hand**.’



Alice Elliott, speaker

No Possessors

Frances Jack, Florence Paoli, speakers, p.c.

T^haná *da-:sé:-c'-hi* *maʔá* *č^hú-m.*
hand palming-wash-SML-SAME food eat-IMPER

‘Wash (**your**) **hands** and come eat’

Šná: *ʔel* *čadó-:ʔw-an* *šk'e* *wá-:ʔw-ad-an-yan.*
head ART wear-around-IPFV only walk-around-IPFV-IPFV-SPEC

‘She always wore a bandana on (**her**) **head.**’

No Possessors

Frances Jack, speaker, p.c.

Háyu bá: p^hlí-p^hlič’.

dog **tail** RDP-wag

‘The dog’s wagging (**his**) **tail**.’

No Possessors

Frances Jack, speaker, p.c.

T^haná=wi št'úʔ-du-w ha-w m-čá-ṭaq-ʔči-w.
hand=with fill-IPFV-IPFV mouth-in PL-throw-PL.ACT-SML-PFV

‘He filled (**his**) **hand** and threw them into (**his**) **mouth**.’

(There was a bee sitting in one handful of berries,
and it stung him. For a long time he couldn't eat.)

Há ʔel mabów ʔó-m.
mouth the swollen wear-ESSIVE

‘(**His**) **mouth** was swollen.’

Possession of other objects
also often not specified

but added by speakers in English translations

Alienable Possessions without Possessors

Frances Jack, speaker, p.c.

Kápo:te ʔel šé-te:-bíy-ṭa-m-meʔ.

coat ART put.on-PL.ACT-SML-MULT.EV-MULT.AG-PL.IMPER

‘Put (**your**) **coats** on.’

Bal k'ú: ʔel lóq' ša-lól-č'i=ka

this child ART **thing** pulling-remove-SML=INFERENTIAL

‘The child apparently took (**her**) **clothes** off.’

Areal discourse pattern

Wappo

Possessors often not mentioned

Sawyer & Somersal 1977: 106.11

Cèl' te-hù?

then 3-head

‘Then his head

hèyma-h šu-kolo?-uh ma-wíl-ta?

packbasket-LOC bottom-flat-LOC in-put-PAST

she put down in the bottom of **(her) pack basket.**’

Yuki

Possessors often not mentioned

Balodis 2016: 126, 189

Sá̄=ʔi *kiʔ-mas* *hay=k* *p'oy-tl . . .*
SAME-HSY DST=DISTR net.sack=INESSIVE put-TR

‘And putting them into **(his) net sack, . . .**’

. . .

Sáʔi *kip=q̄t* *háy=ki* *k'o:-tl=ʔi . . .*
SAME=HSY 3'=BEN net.sack=IN be.in=TR

‘And putting it into **his net sack** [he took it off.]’

Transfer of Structure without Substance?

Northern California contact situation

Small communities, intermarriage

so competent early bilinguals

No obvious differences in prestige

among languages

But cultural tradition

of not mixing languages

Hypothesis

Trudgill, Dahl, Dale and Lupyan, etc.

Greater Complexity in small communities with dense social networks over long periods of time

Dahl, Östen. 2004. *The Growth and Maintenance of Linguistic Complexity*. Benjamins.

Dahl, Östen. 2017. Polysynthesis and complexity. *Oxford Handbook of Polysynthesis*. Michael Fortescue, Marianne Mithun, and Nicholas Evans, eds. 19-29. Oxford.

Dale, Rick and Gary Lupyan 2012. Understanding the origins of morphological diversity: the Linguistic Niche Hypothesis. *Advances in Complex Systems* 5.3-4:1-16.

Lupyan, Gary and Rick Dale 2010. Language structure is partly determined by social structure. *PloS one* 5.1.e.8559.

Trudgill, Peter 2011. *Sociolinguistic Typology: Social Determinants of Linguistic Complexity*. Oxford.

Trudgill, Peter 2017. The anthropological setting of polysynthesis. *Oxford Handbook of Polysynthesis*. Michael Fortescue, Marianne Mithun, and Nicholas Evans, eds. 186-202. Oxford.

Complexity Increase

with intense, longstanding bilingualism

Complexity Decrease

with substantial proportion of untutored adult learners

Comparative Functions

Proto-Pomoan

Empathetic Pronouns

Coreference within the clause with subject

Coreference across clauses with higher subject of any verb

Within indirect quotations without overt verb of saying

Yuki and Wappo

Coreference within the clause with subject

Coreference across clauses with higher subject of any verb

Lake Miwok

Coreference only within the clause with subject

The Empathetic Function

Only described

for Northern Pomo and Central Pomo

But these are the only two languages
for which much conversation has been recorded.

And the empathetic function without coreference
appears predominantly in conversation
to portray the point of view of another
participant.

Take-away

We can learn more

about why languages are the way they are
if we can disentangle how they take shape step by step,
stimulated by both internal and external forces.

The role of contact is becoming ever clearer
in shaping structure around the world.

But uncovering it will depend on good
documentation, including conversation.

