Variation in TA theme signs

46th Algonquian Conference

Mohegan Reservation 25 October 2014

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Introduction

• Four TA theme signs of Proto-Algonquian (Classification from Bloomfield 1946, 1962; modified by Goddard 1979b)

	PA	Shawnee	Ojibwe	Cree	Delaware
Theme 1	*-a·	-a·	-a·	-a·	-a·
Theme 2	*-ekw	-ekw	-igw	-ikw	-əkw
Theme 3	*-i	-i	-i	-i	-i·
Theme 4	*- e θ	-el~eh	-in~ih	-it~is	-əl

- Patterning varies across paradigms and across languages
- This talk: summarize the patterns, identify diachronic tendencies, work towards an understanding.

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Plan

- 1. Theme signs and hierarchies
- 2. Independent order
- 3. Conjunct order
- 4. Inanimate actor forms

(Not discussing unspecified actor ("passive") forms.)

Theme signs and hierarchies

Identity of the TA theme signs

Various identities proposed/assumed for TA theme signs

Full direct-						
inverse system						
-ekw	INV					
-a·	DIR					
-eθ	LOC INV					
-i	LOC DIR					

Symmetrical split system							
-ekw INV							
-a·	DIR						
- e θ	2 0BJ						
-i	10BJ						

Asymmetrical split system								
-ekw INV								
-a·	ЗОВЈ							
-eθ	2 0BJ							
-i	10BJ							

Wolfart 1973

Doesn't work in conjunct: Hockett 1992, Macaulay 2009

Hockett 1966

Rhodes 1994, Brittain 1999, Oxford 2014

Theme sign selection rule

- The asymmetrical split system allows the simplest expression of the theme sign rule.
- *-ekw INV

 *-a· 30BJ

 *-eθ 20BJ

 *-i 10BJ
- Assuming the hierarchy $\{1, 2\} > 3 > 3'$, the theme sign is:
 - Inverse *-ekw when object outranks subject (3'-3, 3-1)
 - Object agreement elsewhere
 - when subject outranks object (e.g. 1–3, *-a· 3OBJ)
 - when subject and object not ranked (e.g. 1–2, *-eθ 20BJ)
- Where does variation come from? Proposal:
 - No variation in the content of the theme signs.
 - No variation in the theme sign selection rule.
 - Variation results from variation in the hierarchy.

Hierarchies

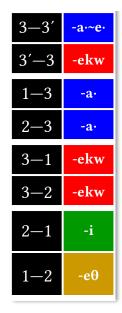
"The Algonquian person hierarchy 2 > 1 > 3 is ... at best an oversimplification and at worst an urban legend." (Zúñiga 2006:127)

- Really, different morphemes are governed by different hierarchies (Zúñiga 2008; Macaulay 2009)
 - Inverse *-ekw in the independent order: $\{1, 2\} > 3 > 3'$
 - Person prefix: 2 > 1
 - Central agreement suffix: 1p > 2p
- Ties into view of hierarchies as an epiphenomenon
 - But still important to get the description right!
- Today: hierarchy for the inverse theme sign *-ekw
 - Varies both within and across languages

2 Theme signs in the TA Independent

Proto-Algonquian TA Independent pattern

- Inverse theme sign *-ekw in two contexts:
 OBV-PROX and nonparticipant-participant
- PA indep't inverse hierarchy: $\{1, 2\} > 3 > 3'$

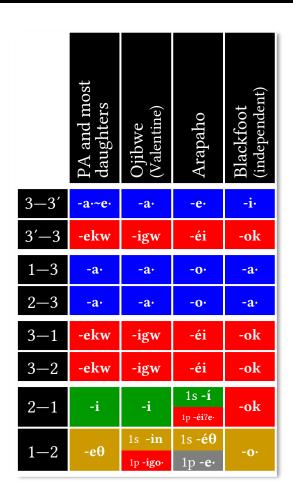


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Pan-Algonquian TA Independent patterns

	PA	Shawnee	Miami-Illinois	Meskwaki, Kickapoo	Menominee	Cree	Ojibwe (Bloomfield)	Ojibwe (Valentine)	Delaware	Massachusett	Maliseet- Passamaquoddy	Penobscot	Cheyenne	Arapaho	Blackfoot (independent)	Blackfoot (conjunctive)
3-3'	-a·~e·	-a·	-е•	-е•	-æ∙	-е•	-a·	-a·	-a·~e·	-ã·~a∙	-a	-α	-0	-e·	-i∙	-a·
3'-3	-ekw	-ekw	-ekw	-ekw	-ekw	-ikw	-ikw	-igw	-əkw	-əkw	-kw	-əkw	-ae	-éi	-ok	-yi
1—3	-a·	-a·	-a·	-a·	-a·	-a·	-a·	-a·	-a·	-ã·	-a	-α	-0	-0.	-a·	-a·
2—3	-a·	-a·	-a·	-a·	-a·	-a·	-a·	-a·	-a·	-ã·	-a	-α	-0	-0.	-a·	-a·
3—1	-ekw	-ekw	-ekw	-ekw	-ekw	-ikw	-ikw	-igw	-əkw	-əkw	-kw	-əkw	-ae	-éi	-ok	-yi
3-2	-ekw	-ekw	-ekw	-ekw	-ekw	-ikw	-ikw	-igw	-əkw	-əkw	-kw	-əkw	-ae	-éi	-ok	-yi
2—1	-i	-i	-i	-i	-e	-i	-i	-i	-i∙	-ə~i·	-i	-i	-e	1s -í 1p -éi?e·	-ok	-ok
1—2	-eθ	-el	-el	-en	-en	-it	-in	1s -in 1p -igo·	-əl	-ən~əš	-əl	-əl	-at	1s -éθ 1p -e ·	-0.	-0.

All changes involve "you-and-me" forms

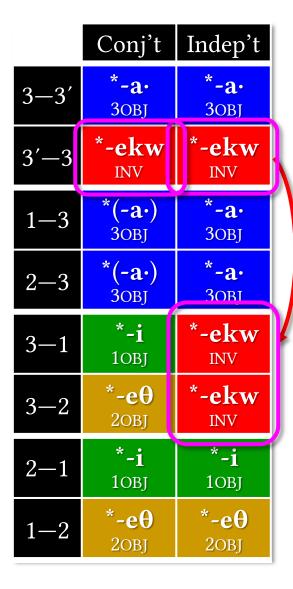


- PA Indep't inverse hierarchy: $\{1, 2\} > 3 > 3'$
- Blackfoot 2–1 forms > inverse
 - Blackfoot hierarchy: 1 > 2 > 3 > 3'
- Arapaho 2–1p form > inverse
 - Arapaho hierarchy: $1p > \{1s, 2\} > 3 > 3'$
 - A step toward the Blackfoot hierarchy
- Ojibwe dialects **1p–2** form > "inverse"
 - Actually replaced by X−2 form; passive theme sign -igo· (Valentine 1994:226-7)
 - If reanalyzed as allomorph of inverse -igw,
 Ojibwe hierarchy: {1s, 2} > 1p > 3 > 3'
 - A step toward the 2 > 1 > 3 > 3' hierarchy

3 Theme signs in the TA Conjunct

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Proto-Algonquian TA Conjunct pattern



- Pattern differs from independent
- Two contexts for inverse theme sign in independent: 3'-3 and 3-{1, 2}
 - Independent hierarchy: $\{1, 2\} > 3 > 3'$
- Only one context in conjunct: 3′-3
 - Conjunct inverse hierarchy: 3 > 3'
 - − 3′−3 inverse, elsewhere object agr't
- Independent order was innovated in Pre-PA (Goddard 1967, 2007; Proulx 1982)
 - First of many extensions of *-ekw

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Pan-Algonquian TA Conjunct patterns

	PA	Miami-Illinois	Shawnee	Meskwaki, Kickapoo	Menominee	Moose Cree	Ojibwe (Bloomfield)	Ojibwe (Manitoulin)	Maliseet- Passamaquoddy	Penobscot	Mi'gmaq (Proulx)	Plains Cree	Ojibwe (Parry Island)	Mi'gmaq (Listuguj)	Cheyenne	Delaware	Arapaho	Massachusett	Ojibwe (optional at Parry Island)	Blackfoot (subjunctive)
3—3′	-a∙	-a∙	-a·	-a·	-a∙	-a·	-a·	-a·	-a	-α	-a	-a·	-a·	-a	-0	-a∙	-0.	-ã∙	-a·	-a·
3'-3	-ekw	-ekw	-ekw	-ekw	-ekw	-ikw	-ikw	-igw	-kw	-əkw	-kw	-ikw	-igw	-gw	-ae	-əkw	-éi	-əkw	-igw	-otsi
1-3	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a)	(-α)	(-a)	(-a·)	(-a∙)	(-a)	(-o)	(-a·)	1s (-o·) 1p -e·	(-ã·)	(-a·)	-a·
2—3	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a·)	(-a)	(-α)	(-a)	(-a·)	(-a∙)	(-a)	(-o)	(-a·)	(-o·)	(-ã·)	(-a·)	-a·
3-1	-i	-i	-i	-i	-е	-i	-i	-i	-i	-i	-i	1s -i 1p -ikw	1s - i 1p - igw	1s - i 1p - ugsi	1s -a?é 1p -ae	1s -i· 1p -əkw	3p-1s - í 3s-1s - éi 3-1p - ei ? e ·	-əkw	-igw	-otsi
3-2	-еθ	-el	-el	-en	-en	-it	-in	-in	-əl	-əs	-ul	2s -is 2p -ikw	2s -ih 2p -igw	2s -əs 2p -ugsi	2s -at 2p -ae	-əkw	-éi	-əkw	-igw	-otsi
2—1	-i	-i	-i	-i	-e	-i	-i	-i	-i	-i	-i	-i		-i	-e	-ә	1s -í 1p -éi ? e ·	-i∙	-i	-ok
1—2	-eθ	-el	-el	-en	-en	-it	-in	1s -in 1p -igo ·	-əl	-əl	-ul	-it	1s -in 1p -igo ·	-ul	-at	-əl	1s -éθ 1p -e ·	-ən	1s -in 1p -igo·	-Ø

- You-and-me changes are the same as in the independent.
- The big story: inverse extended to **mixed forms** $(3-\{1,2\})$

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Extensions in mixed forms

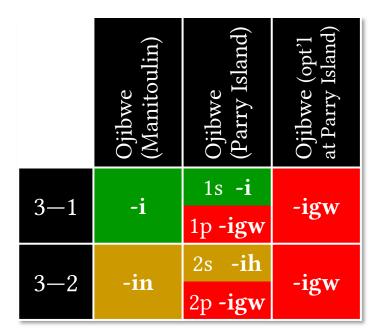
	PA	Type A	Type B	Type C
3—3′	-a·	-a·	-a·	-a·
3'-3	-ekw	-ekw	-ekw	-ekw
1—3	(-a·)	(-a·)	(-a·)	(-a·)
2—3	(-a·)	(-a·)	(-a·)	(-a·)
3—1	-i	1s -i 1p -ekw	1s -i 1p -ekw	-ekw
3-2	-eθ	2s -eθ 2p -ekw	-ekw	-ekw
2—1	-i	-i	-i	-i
1—2	-eθ	-eθ	-eθ	-eθ

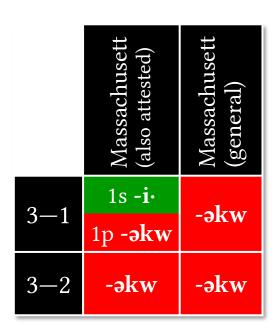
- PA conjunct hierarchy: 3 > 3'
- A: *-ekw \rightarrow 1p/2p objects
 - Plains Cree, Parry Island Ojibwe,
 Listuguj Mi'gmaq, Cheyenne
 - $-\{1p, 2p\} > 3 > 3'$
- B: *-ekw \rightarrow 1p/2p, 2s objects
 - Delaware, (Arapaho)
 - $-\{1p, 2\} > 3 > 3'$
- C: *-ekw \rightarrow all 1/2 objects
 - Massachusett, Blackfoot,
 optional in Parry Island Ojibwe
 - $-\{1, 2\} > 3 > 3'$ (= Independent)

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Order of extensions

- An implicit ordering, sometimes actually attested:
 - Parry Island Ojibwe: -igw universally extended to plural objects and optionally to singular objects (Valentine 2001:295)
 - Massachusett: -əkw for all 1/2 objects, but a non-inverse 1s object form is also attested (Goddard & Bragdon 1988:555-6)

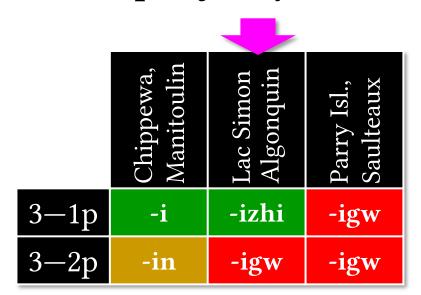




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More Ojibwe plural-object forms

- Above: inverse extended to plural obj before singular obj
- But even more granularity: Lac Simon Algonquin extends
 *-ekw to 2p obj only, not to all plural-object forms.



• (Data from Valentine 1994: 347, 350; 2001: 295; 10BJ theme sign *-i replaced by -izhi in this dialect)

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Gradient inverse extension in conjunct mixed forms

Extend *ekw to	Hierarchy	Languages/dialects
n/a	3 > 3'	PA
2p objects	$\{2p\} > 3 > 3'$	Lac Simon Algonquin
2p 1p objects	$\{1p, 2p\} > 3 > 3'$	Plains Cree, Parry Island Ojibwe, Listuguj Mi'gmaq, Cheyenne
2p 1p 2s objects	$\{1p, \frac{2}{2}\} > 3 > 3'$	Delaware, (Arapaho)
2p 1p 2s 1s objects (=Independent)	{1, 2} > 3 > 3'	Massachusett, Blackfoot, Parry Island Ojibwe (optional)

- Extend to plural before singular; extend to 2 before 1
- No attested system contradicts this gradient (?)
 - Explanation: markedness? frequency? feature structure?
- End result is simpler system (same hierarchy in Ind & Conj), but path via more complexity (adding **number** to hierarchy)

TA inanimate actor forms

Inanimate actor forms in PA

• PA pattern differed in the independent and conjunct:

Independent

Co	re TA	Inan Actor				
3—1	*-ekw	0-1	*-ekw			
3-2	*-ekw	0-2	*-ekw			
3'-3	*-ekw	0—3 0—3'	*-ekw			

$$\{1, 2\} > 3 > 3' > 0$$

Conjunct

Co	re TA	Inan Actor				
3—1	* -i 10BJ	0-1	*-i 10BJ			
3-2	*- eθ 20BJ	0-2	*-еӨ 20ВЈ			
3'-3	*-ekw	0-3 0-3'	*-ekw			

(no ranking between 0 and 1/2)

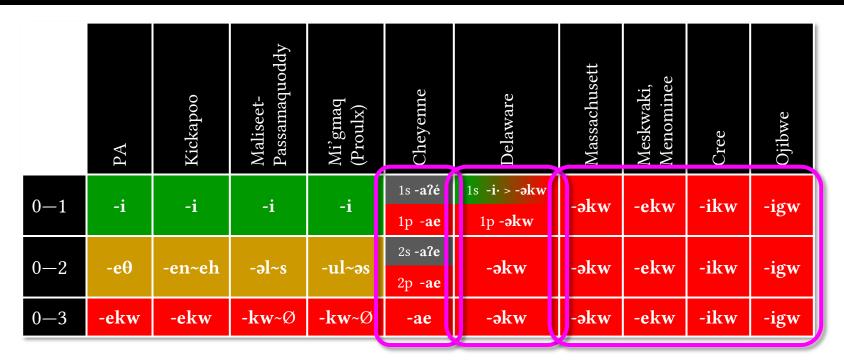
Independent inanimate actor forms

• $\{1, 2\} > 3 > 3' > 0$ stable across the family

	PA	Shawnee	Meskwaki, Kickapoo	Menominee	Cree	Ojibwe	Delaware	Massachusett	Maliseet- Passamaquoddy	Penobscot	Cheyenne
0—1	-ekw	-ekw	-ekw	-ekw	-ikw	-igw	-əkw	-əkw	-kw	-əkw	-ae
0-2	-ekw	-ekw	-ekw	-ekw	-ikw	-igw	-əkw	-əkw	-kw	-əkw	-ae
0-3	-ekw	-ekw	-ekw	-ekw	-ikw	-igw	-əkw	-əkw	-kw	-əkw	
0—3′	-ekw		-ekw	-ekw		-igw					-ae

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Conjunct inanimate actor forms



- PA pattern retained in Kickapoo, Mal-Pqy, and Mi'gmaq
- Elsewhere extension of the inverse, familiar gradient:
 - Plural objects in Cheyenne
 - All but 1s objects in earlier Delaware
 - All forms in the remaining languages

Another asymmetry in the extension of the inverse

- PA: same theme sign pattern in inan-actor and core TA
- Some languages: inan-actor **fully inverse**, core TA **partially**

PA Conjunct

Core	e TA	Inan Actor				
3-1	-i	0-1	-i			
3-2	-еθ	0-2	-eθ			
3'-3	-ekw	0-3	-ekw			

Plains Cree Conjunct

Core TA		Inan Actor	
3-1	1s -i 1p -ikw	0-1	-ikw
3-2	2s -is 2p -ikw	0-2	-ikw
3'-3	-ikw	0-3	-ikw

Delaware Conjunct

Core TA		Inan Actor	
3—1	1s -i∙ 1p -əkw	0—1	-əkw
3-2	-əkw	0-2	-əkw
3'-3	-əkw	0-3	-əkw

- Indicates two steps in the analogical extension of the inverse (Dahlstrom 1989; Valentine 2001:278):
 - 1. Independent inan-actor to conjunct inan-actor
 - − 2. Conjunct inan-actor to core conjunct
- Inan-actor forms are the "leak" between indep't and conjunct

Conclusions: Change in TA theme signs

- Change always involves **extending the inverse**.
- Two directions of extension are attested
- Extension to you-and-me forms (less common)
 - Ranking 1st and 2nd person with respect to each other
- Extension in the **conjunct** (common). Generalizations:
 - Inanimate-actor forms before animate-actor forms
 - Plural-object forms before singular-object forms
 - 2nd-person object forms before 1st-person object forms
 - Adding 2p/1p/2s/1s to the hierarchy
 - Explanation: markedness, frequency, structure?

Thank you!

• And thanks to David Pentland and Conor Quinn for helpful discussion.

Appendices

(References downloadable at http://home.cc.umanitoba.ca/~oxfordwr/)

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Other recent work on TA theme signs

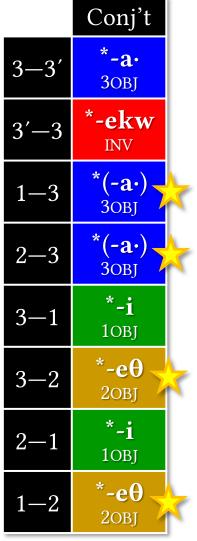
- Jacques, Guillaume, and Anton Antonov. 2014. The directionality of analogical change in direct/inverse systems. Manuscript (under review).
- Examine changes in TA conjunct theme signs in Plains Cree, Ojibwe, Listuguj Mi'gmaq, and Arapaho as part of a bigger project on analogical change in direct/inverse systems.
- Conclusions:
 - Analogy operates from non-local inverse forms (3'-3) to all inverse forms
 - Analogy affects plural forms before singular forms
 - Analogy affects inverse forms before direct forms
- Good discussion, but limited number of languages and no consideration of independent forms or inanimate actor forms.

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Allomorphy of direct theme sign, TA Independent

• Direct/30BJ theme sign *-a· has the allomorph *-e· when followed by the umlaut-triggering absolute formative *-w (Goddard 2007).

Allomorphy of TA Conjunct theme signs



- Direct/30BJ theme sign *-a· $\rightarrow \emptyset$ / +V
 - *-a· can be restored by adding a following consonant-initial suffix (e.g. Rhodes 1976:176-7;
 Goddard 2006:189; Quinn 2006: 259-60; Costa 2003:342).
 - Delaware examples (Goddard 1979b:184-5)
 - $mi \cdot l \cdot \emptyset$ -ak 'I give it to him/her' give-DIR-1s3s
 - $mi \cdot l a \cdot w ak$ 'I do not give it to him/her' give-DIR-NEG-1s3s
- 2OBJ *-eθ splits into two allomorphs due to special sound laws for consonant clusters:
 - $1s-2s *-e\theta a \cdot n > M-I -e a \cdot n$, Cree $-i t a \cdot n$
 - $3s-2s *-e\theta k > M-I -ehk$, Cree -isk

PA conjunct inverse hierarchy

- Conjunct inverse hierarchy: 3 > 3'
- 3'-3 inverse, elsewhere object agreement
- Why not $\{1, 2, 3\} > 3'$?
- Correctly captures that **3**—**1**, **3**—**2** aren't inverse
 - object agreement
- But incorrectly predicts 3'-1, 3'-2 to be inverse
 - object agreement
- 3' is outranked **only by 3**. Not by 1 or 2.
 - Hierarchy 3 > 3′, just a partial ranking of persons