INTERACTION OF NEGATION AND MODALITY IN KANIEN'KÉHA



KATYA MORGUNOVA katya.morgunova@mail.mcgill.ca McGill University



Introduction

- Negation in Kanien'kéha is bipartite; it obligatorily involves the particle iah and negative prefix te-/th- on the verb.
- In the Iroquoinist literature (Koenig & Michelson 2020), negation is reported to be incompatible with factual and future modal prefixes. To express negative statements for these forms, negative version of predicates with different TAM markers are used.
- (1) a.*iah th-wa'-w-atawen-'
 - NEG NEG-FACT-FZ.SG.A-swim-PFV
 - Int.: 'She didn't swim.'
 - b.iah te-io-atawen
 - NEG NEG-FZ.SG.P-swim.PERF
 - 'She didn't swim.'

Empirical contribution

- I present the data that shows that this generalization is not accurate.
- · Instead, I argue that negation is incompatible with factual forms with past perfective interpretation and future.

- (2) a.*iah th-en-w-atá:wen-'
 - NEG NEG-FUT-FZ.SG.A-swim-PFV
 - Int.: 'She won't swim.'
 - b.iah th-a-w-atá:wen-'
 - NEG NEG-OPT-FZ.SG.A-swim-PFV 'She won't swim.'

Theoretical contribution

- I show that this incompatability must arise semantically, rather than morphologically.
- This incompatability could stem from the semantics of certainty associated with both past perfective and future forms.

BACKGROUND

- Kanien'kéha verbs generally exhibit a three-way aspectual contrast:
- (3) a.wa'-ra-rast-'
 - FACT-M.SG-draw-PFV 'He drew.'
- b.ra-rast-ha' M.SG-draw-IPFV 'He draws.'
- c. ro-rast-on M.SG.P-draw-PERF 'He draws.'
- Unlike inperfective and perfect aspects, perfective requires the presence of one of the modal prefixes: factual, future or habitual.
- (4) a.*ra-rast-e'
 - M.SG.A-draw-PFV
 - Int.: 'He draws.'
 - b.wa'-ra-rast-e'
 - FACT-M.SG.A-draw-PFV
 - 'He drew it.'

- FUT-M.SG.A-draw-PFV
- 'He will draw it.'
- d.a-ra-rast-e'
 - OPT-M.SG.A-draw-PFV
 - 'He should draw it.'

AGAINST MORPHOLOGICAL INCOMPATIBILITY

- The prefix *th* is also used in **contrastive** contexts without *iah*.
- (5) kheh thi-io-kare'tsher-a-hnin-on ne Jessica just NEG-FZ.SG.P-cookie-LK-buy-PERF NE Jessica (Without thinking) 'Jessica just bought cookies.'
- Crucially, both factual and future prefixes are compatibe with the negative prefixes when used in contrastive contexts.
- (6) a.kheh th-wa'-ha-atawen-' just NEG-FACT-M.SG-swim-PFV
- b.kheh th-en-ha-atawen-'
- 'He just swam.'
- just NEG-FUT-M.SG-swim-PFV 'He will just swim.'

Generalisation 1.

Negative morphology is in principle compatible with factual and future prefixes. They do not compete for the same slot.

ACKNOWLEDGEMENTS

Niawenhkó:wa to Akwiratékha' Martin, Katerí Deer, Konwaronhiá:wi Helen Norton and Mary Onwá:ri Tekahawáhkwen McDonald for sharing your knowledge of Kanien'kéha with me.

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NEGATION AND FACTUAL FORMS

- · Factual modal prefix is generally only compatible with the perfective aspect. However, with purposive verbs, it can also be used on the forms marked with intentive aspect (see Michelson & Doxtator 2002; Lukaniec 2018; Woodbury 2018)
- Intentive forms are often homophonous with punctual forms and are typically recognized by their ongoing interpretation.
- (7) a.wa'-k-atorat-h-e' FACT-1SG.A-hunt-PURP-INT 'I am going to hunt.'
 - b. iah th-wa'-k-atorat-h-e' 'I am not going to hunt.'
- (8) a.wa'-k-atorat-h-a' FACT-1SG.A-hunt-PURP-PFV 'I went hunting.'
 - b. *iah th-wa'-k-atorat-h-a' NEG NEG-FACT-1SG.A-hunt-PURP-PFV Int.: 'I did not go hunting.'
- · However, in some cases, intentive is morphologically distinct from punctual, as shown in (7)-(8)
- Crucially, it is possible to negate NEG NEG-FACT-1SG.A-hunt-PURP-INT factual-intentive forms (7b), but not factual-punctual forms (8b).
 - · Note that neither past tense interpretation nor perfective aspect of (8) cannot individually cause incompatability with negation (cf. with (1b) and (2b) accordingly).

Generalisation 2.

Negation is incompatible specifically with factual-punctual forms with past perfective interpretation.

NEGATION AND FUTURE FORMS

Generalisation 3.

Future is incompatible with negation regardless of the form's aspect.

- (9) a.*iah th-en-ke-khonnii-hse-ke' (10) a.*Iah th-en-wak-atshokw-en NEG NEG-FUT-1SG.A-cook-IPFV-CONT
 - 'I will always cook.'
 - b.iah th-a-ke-khonnii-**hse**-ke' NEG NEG-OPT-1SG.A-cook-IPFV-CONT
 - 'I won't cook again.'
- NEG NEG-FUT-1SG.P-smoke-PERF
- Int.: 'I won't be smoking.'
- b.Iah th-a-wak-atshokw-en NEG NEG-OPT-1SG.P-smoke-PERF 'I won't be smoking.'

NEGATION AND SCOPE

- Across languages, we find modals that behave as PPIs and obligatorily scope over negation (Iatridou & Zeijlstra 2013).
- If modal prefixes only exhibit one scope relative to negation, it could narrow down possible reasons for the ungrammaticality of (1a) and (2a).
- However, we find that optative exhibit both scopes relative to negation.
- (11) iah th-a-ra-tori-'
 - NEG NEG-OPT-M.SG.A-drive-PERF
 - 1. 'He won't drive.'
 - 2. 'He shouldn't drive'
 - 3. 'He doesn't have to drive.'

DISCUSSION

Takeaway.

Negation is semantically incompatible with certain forms in Kanien'kéha. This is not expected under the assumption that it is a simple logical truth-conditional operator ¬.

- · Which semantic property of motivates this incompatability?
- · Both future and factual forms are reportedly associated with high degree of certainty.
 - "The factual [...] mode describes an event that is considered an established fact." (Michelson & Price 2011, p. 56)
 - "The future mode is used [...] to convey a high degree of probability with regard to its occurrence." (Michelson & Price 2011, p. 58)
- If "certainty" is presupposed, it would necessarily contradict the negative