Word order variation in interrogative sentences in Northwest Sahaptin texts

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Introduction

- We analyze word order variation in Sahaptin interrogative sentences.
 - We focus on interrogative sentences that were produced in Northwest Sahaptin oral narratives collected in 1926–1930 (Jacobs 1929, 1934, 1937).
- In modern varieties of Sahaptin, an interrogative pronoun obligatorily occurs first in interrogative sentences (e.g. Jansen 2010, Rigsby and Rude 1996).
- This pattern predominates among old Northwest Sahaptin interrogative sentences, but we show that speakers also produced sentences in which the interrogative pronoun occurs sentence-internally.
 - The obligatory use of sentence-initial pronouns appears to be **innovative**.

Background on Sahaptin

Sahaptin and the Sahaptian language family

- Sahaptin (a.k.a. Ičiškíin/Ichishkíin) is spoken along the Columbia River and its tributaries in s. Washington, n. Oregon, and w. Idaho.
- We focus on NW Sahaptin dialects: Kittitas, Klickitat, and Upper Cowlitz.

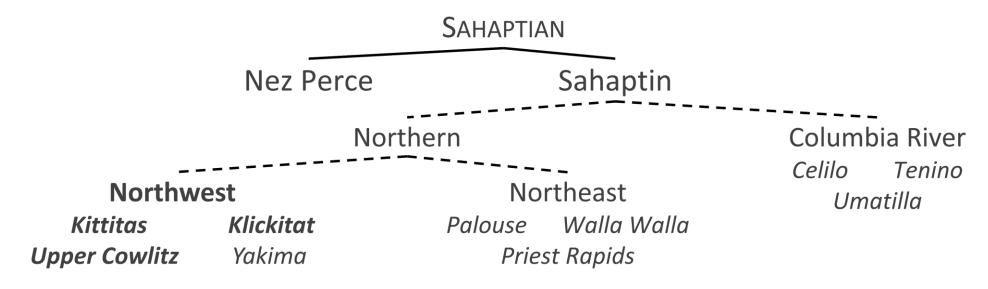


Figure 1. Sahaptian language family tree, adapted from Rigsby and Rude (1996) and Rude (2014).

- Word order in Sahaptin is generally flexible.
 - Discourse/Pragmatic pressures determine the order of most word-sized units in a phrase or sentence (Jansen 2010:4, Rigsby and Rude 1996:673).
 - For example, the following sentences are semantically equivalent:
 - 1) Wawúkiya iwá nčí.
 - 2) Wawúkiya nčí iwá.
 - 3) lwá nčí wawúkiya.
 - 4) lwá wawúkiya nčí.
 - 5) Nčí iwá wawúkiya.
 - 6) Nčí wawúkiya iwá.

1) Wawúkiya iwá nčí.
wawúkiya i-wá nčí
elk 3sG-be big
'The elk is big'.
(Umatilla; Kern and Geary 2021)

- However, certain linguistic elements follow rigid word order restrictions.
- When a clause contains a 1st or 2nd person core argument, a "second-position" pronominal enclitic attaches to the first word in the clause (Jansen 2010:78–87, Rigsby and Rude 1996:674–675, Rude 2014:12):
 - 7) Awnash anáwisha.

 aw=nash anáwi-sha

 now=1sg be.hungry-IMPV

 'Now I am hungry.'

 (Yakima; Jansen 2010:81)

- 8) Qwłtipnam wáta. qwłtip=nam wá-ta strong=2sg be-FUT 'You should be strong.' (Umatilla; Rude 2014:194)
- Second-position enclitics can attach to non-sentence-initial words when the sentence consists of multiple clauses.

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- When a clause contains a 1st or 2nd person core argument, a "second-position" pronominal enclitic attaches to the first word in the clause...
- In contrast, 3rd person core arguments are expressed by **verbal prefixes**, and so their position within the clause is **flexible** (e.g. Jansen 2010:75–77):
 - 9) Iwinana áyat.
 i-wina-na áyat
 3SG-go-PST woman
 'The woman went.'
 (Yakima; Jansen 2010:76)

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10) Wiyatkan iwinana.
wiyat-kan i-wina-na
far.away-ALL 3SG-go-PST
'She/He went far away.'
(Yakima; Jansen 2010:176)
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- For studying word order, second-position enclitics (pronominals, modals) provide a useful diagnostic for identifying the order of words in a clause: The word to which a second-position enclitic attaches must be the first word in its clause, and everything after that is non-clause-initial.

- However, certain linguistic elements follow rigid word order restrictions.
- An interrogative pronoun must occur first in interrogative sentences (Jansen 2010:199, Rigsby and Rude 1996:683–684):
 - This is true of polar questions (11) and content questions (12):

```
11)Mish aw ipanátishamsh?

mish aw i-panáti-shamsh

Y/N now 3sG-climb-IMPV.CSL
'Are [the salmon] coming upriver?'

(Yakima; Jansen 2010:77)

12)Tun íkw'ak iwá?

tun íkw'ak i-wá

what that 3sG-be
'What is that?'

(Yakima; Jansen 2010:201)
```

- However, certain linguistic elements follow rigid word order restrictions.
- An interrogative pronoun must occur first in interrogative sentences (Jansen 2010:199, Rigsby and Rude 1996:683–684):
 - When an interrogative sentence contains a 1st or 2nd person core argument, the second-position pronominal attaches to the interrogative pronoun:

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13) Mishnam wá skuuliłá?
mish=nam wá skuuliłá

Y/N=2sG be student
'Are you a student?'
(Yakima; Jansen 2010:199)
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14) Túyaynam wínasha?

túyay=nam wína-sha

why=2sG go-IMPV

'Why are you going?'

(Yakima; Jansen 2010:201)
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- However, certain linguistic elements follow rigid word order restrictions.
- An interrogative pronoun must occur first in interrogative sentences......
- Interrogative pronouns can occur outside of sentence-initial position as indefinite pronouns (e.g. Jansen 2010:209–210, Rigsby and Rude 1996:682–684):
 - 15)Čáwnam mún áwa¾awita šína. čáw=nam mún á-a¾awi-ta šína NEG=2SG when 3OBJ-beg-FUT who.OBJ 'You should never beg from anyone.' (Umatilla; Rude 2014:294)
 - Sentence (15) is NOT interpreted as a question in contemporary Umatilla.

Interim summary

- Word order is flexible in contemporary Sahaptin except in that:
 - Interrogative pronouns must occur first in interrogative sentences.
 - Second-position enclitics (1st/2nd person pronominals, modals) must attach to the first word in a clause (i.e. the interrogative pronoun in interrogative sentences).
- Was this always the case? Did older varieties permit greater flexibility?
 - In older varieties of Northern Sahaptin, Jacobs (1931:270) writes that an interrogative pronoun "usually" precedes the verb which precedes any nominal arguments; nominals can precede the verb for emphasis.
- We survey word order in interrogative sentences in Northwest Sahaptin oral narratives that were collected in 1926–1930 (Jacobs 1929, 1934, 1937)......

Survey of interrogative sentences in NW Sahaptin texts

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• We surveyed **95** Northwest Sahaptin texts (Jacobs 1929, 1934, 1937) that were produced by **7** speakers of Kittitas (N=1), Klickitat (N=1), and Upper Cowlitz Sahaptin (N=5) for all interrogative sentences.

Table 1. Summary of Jacobs' consultants' language backgrounds and text contributions.

Initials	Age	# Texts	Language background notes
JH	elderly	49	Klickitat. Also speaks Chinuk Wawa (a.k.a. Chinook Jargon).
SE-II	~35	13	Upper Cowlitz. Also speaks English. Son of SE-I and ME.
SE-I	~70–80	12	Upper Cowlitz. Native Yakima speaker, retelling Salish narratives.
ME	>60	7	Upper Cowlitz. Native speaker of the Cowlitz dialect of Coast Salish, translating Salish narratives into Upper Cowlitz Sahaptin.
JY	elderly	10	Upper Cowlitz. Uses some Yakima features.
DC	~60	3	Kittitas. Also speaks several Coast Salish dialects.
LC	>60	1	Upper Cowlitz. Speaks fairly pure Upper Cowlitz dialect.

Survey of interrogative sentences in NW Sahaptin texts

- We surveyed **95** Northwest Sahaptin texts (Jacobs 1929, 1934, 1937) that were produced by **7** speakers of Kittitas (N=1), Klickitat (N=1), and Upper Cowlitz Sahaptin (N=5) for all interrogative sentences.
- We found 442 analyzable Northwest Sahaptin interrogative sentences.
 - We also found 29 interrogative sentences that lack an interrogative pronoun and 14 that consist only of the interrogative pronoun (and any enclitics), which we do not analyze (they cannot exhibit variation in order of the interrogative pronoun).
- We tagged each sentence based on whether the interrogative pronoun occurs sentence-initially ("canonical" order) or not ("non-canonical").
 - We ignored vocatives/interjections, which occur outside of the clause.

Results: Canonical word order dominates

- Most of the interrogative sentences in these Northwest Sahaptin texts (Jacobs 1929, 1934, 1937) exhibit the canonical word order (N=375/442, 84.8%).
 - All sentences produced by 4 speakers exhibited the canonical order (N=86).
- This includes sentences that use a range of interrogative pronouns as well as with or without a second-position pronominal enclitic:¹
 - 16) Šín iwá miyáwɨx?

 šín i-wá miyáwɨx

 who 3sg-be chief

 'Who is the headman?'

 (UC; Jacobs 1934:141, 1937:125)

17) Míšnam íči wiyáninҳa?
míš=nam íči wiyánin-ҳа
how=2sG here walk.around-нав
'How [are you] traveling about here?'
(UC; Jacobs 1934:100, 1937:89)

We present Northwest Sahaptin language data using Americanist orthography (cf. Rude 2014). We obtained glosses from Jacobs' (1931) grammar and by comparing cognates in Yakima (Beavert and Hargus 2009).

- Three speakers produced 67 sentences with non-canonical word orders where the interrogative pronoun occurred sentence-internally (15.2%).
 - For all three speakers, non-canonical orders comprised **less than half** of their interrogative sentences (JH *N*=62/199, 31.2%; SE-II *N*=2/95, 2.1%; SE-I *N*=3/62, 4.8%).
- In 10 sentences, the pronoun immediately follows a "connective" word:
 - 18) Ku tún iwá kpɨnk kwaalyáy?

 ku tún i-wá kpɨnk kwaalyáy

 and what 3sg-be that Dangerous. Being 'But what is this Dangerous Being?'

 (UC; Jacobs 1934:129, 1937:114)

- Three speakers produced 67 sentences with non-canonical word orders where the interrogative pronoun occurred sentence-internally (15.2%).
- In **51** sentences, a second-position enclitic occurs on the preceding word:

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19) Áwnaš tún wáta?

áw=naš tún wá-ta

now=1sG what be-FUT

'Now what shall I become?'

(Klickitat; Jacobs 1934:86, 1937:77)

20) Kumaš mɨná

ku=maš m

and=2sG w

'Where are yo

(UC; Jacobs 193
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20) Kumaš mɨnán wá pápma? ku=maš mɨnán wá páp-ma and=2sg where be daughter-PL 'Where are your daughters?' (UC; Jacobs 1934:267, 1937:232)

21) Áwnaš míš ámita kuš áwiyatnata? áw=naš míš á-mi-ta kuš á-iyatna-ta now=1sG what 3obj-do-fut thus 3obj-kill-fut 'What can I do to kill it?' (UC; Jacobs 1934:128, 1937:112)

- Three speakers produced 67 sentences with non-canonical word orders where the interrogative pronoun occurred sentence-internally (15.2%).
- In 6 sentences (produced by JH), multiple words precede the int. pronoun:

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22)Áwnam ímča míš pxwíša?

áw=nam ím-ča míš pxwí-ša

now=2sG 2sG-also how think-IMPV

'How do you feel about it?' (Klickitat; Jacobs 1934:9, 1937:7)
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23)Áw watáy qwsim pinxi míš ipxwíša? áw watáy qwsim pinxi míš i-pxwí-ša now weasel mischievous 3sG-too what 3sG-think-IMPV 'Now what can the rascal weasel be thinking of again?' (KI; Jacobs 1934:23, 1937:19)

- Three speakers produced 67 sentences with non-canonical word orders where the interrogative pronoun occurred sentence-internally (15.2%).
- In 6 sentences (produced by JH), multiple words precede the int. pronoun:
 - In sentence (24), two words precede the interrogative pronoun. Curiously, the second-position enclitic =nam attaches to the second of these words:
 - 24) Íkuš kunam táy ímɨk txánašana tkwiinat? íkuš ku=nam táy ímɨk txána-ša-na tkwiinat thus and=2sg why 2sg occur-IMPV-PST chinook.salmon 'Why have you become a chinook salmon like that?' (Klickitat; Jacobs 1934:68, 1937:61)

- Three speakers produced 67 sentences with non-canonical word orders where the interrogative pronoun occurred sentence-internally (15.2%).
- In 6 sentences (produced by JH), multiple words precede the int. pronoun:
 - In sentence (25), the second-position enclitic =nan occurs twice: Once before and once attached to the interrogative pronoun:

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25) K<sup>w</sup>inik áwnan míškiniknan áwinpanita ílk<sup>w</sup>is?

k<sup>w</sup>inik áw=nan míškinik=nan á-winpani-ta ílk<sup>w</sup>is

there now=1PL how=1PL 3OBJ-get.from-FUT fire

'Now how shall we get their fire?'

(Klickitat; Jacobs 1929:176, 180)
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Interim summary

- Most interrogative sentences in the Northwest Sahaptin texts that Jacobs collected (1929, 1934, 1937) exhibit the canonical word order.
- A small subset of interrogative sentences exhibit non-canonical orders where the interrogative pronoun is non-sentence-initial.
 - In most such sentences, the interrogative pronoun occurs after a secondposition enclitic (which reliably indicates the first word in the clause).
- In sum, old Sahaptin varieties exhibit greater word order flexibility in interrogative sentences than modern grammars recognize.
 - Yet only 3 speakers produced non-canonical word orders, and all 3 used the canonical order much more frequently than non-canonical orders......

What is the significance of the use of non-canonical word orders in these texts?

Discussion: Legitimacy of non-canonical orders

- That multiple speakers of multiple dialects used interrogative sentences with non-canonical orders suggests that this may represent a legitimate question-formation strategy in older varieties of Sahaptin.
 - All 3 appear to have been native Sahaptin speakers who were raised in Sahaptin-speaking environments. Jacobs notes that JH and SE-II spoke especially pure forms of Klickitat and Upper Cowlitz Sahaptin, respectively (1929:242–243, 1934:126).
 - Thus, there appears to be no reason to doubt the quality of the language they produced.
- These 3 shared more than 75% of the texts that Jacobs collected, which may explain why they alone are attested as having used such orders.
 - It seems likely that the other speakers would have at least heard such word orders in the speech of others. For example, ME was married to SE-I and was the mother of SE-II, so she may have encountered non-canonical word orders in their speech.

Discussion: Possible origins in language contact

- Is it possible that external factors, namely language contact, influenced these speakers' use of non-canonical word orders?
- Both SE-I and SE-II were familiar with the Cowlitz dialect of Coast Salish:
 - ME was a native speaker of the Cowlitz dialect of Coast Salish, and SE-I/SE-II were intimately familiar were her Coast Salish speech (Jacobs 1934:102, 126).
 - Some question particles occur in non-sentence-initial position in Coast Salish (e.g. Rowicka 2006), so perhaps they could have adopted such orders from CS...
- BUT language contact cannot explain JH's use of non-canonical orders:
 - JH had little interest in non-Klickitat languages and cultures (Jacobs 1929:242).

Discussion: Preference for canonical word order

- Although some alternative word orders were used in NW Sahaptin, the most common order used the interrogative pronoun sentence-initially.
- This order is now obligatory in modern Sahaptin dialects, suggesting that word order in interrogative sentences has become less flexible.
- This shift corresponds with widespread language attrition and a shift to Sahaptin-English bilingualism among Sahaptin communities, but it does NOT appear that English word order could have influenced this shift:
 - 6/7 speakers appear to have lacked English language proficiency, so the preference for this order likely predates any English influence on Sahaptin.
 - SE-II was fluent in English and served as Jacobs' consultant for many of these texts.

Summary

- Although the position of interrogative pronouns is fixed in interrogative sentences in modern Sahaptin varieties, older varieties permit a wider range of word orders where the pronoun occurs sentence-internally.
 - Yet even in older documentation, there is a **strong preference** for word orders where the interrogative pronoun occurs **sentence-initially**.
- Oral narratives and conversational speech often contain a wider range of language structures than are obtained via traditional elicitation methods and than may be taught in formal language classrooms.
 - The canonical word order should be the focus of new pedagogical materials (e.g. Kern and Geary 2021), but in that learners could encounter alternate word orders in older texts, pedagogical materials may address such variation.

, K^wałanáwašamataš!

Thank you all!

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