

Focus structures in Thompson Salish: (im)perfections in the syntax-semantics interface^{*}

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1. Introduction:

- *Goals of the Talk:*
 - i. Give an overview of focus-marking in Ntɛʔkepmxcin (Thompson Salish)
 - ii. Show how focus structure *syntax* splits the clause into focus *semantic* Background and Focus (eg. von Stechow 1990, Krifka 1992, 2006)
 - ⇒ perfect syntax – (focus) semantics interface!
 - iii. Show that when narrow focus falls inside a complex NP, syntactic constraints prevent a perfect interface with focus semantic structure, but are rescued by an optional phonological operation, rightward extraposition
 - ⇒ perfect phonology – (focus) semantics interface!

(0) a. $[[keʔtɛs]_{\text{FOCUS}} \overbrace{[t_i \text{ [k } \text{pún-m-} \emptyset\text{-s } t_x]_{\text{BACKGROUND}} \text{ [tk } \text{qemút-s}_i]_{\text{BACKGROUND}}}]_{\text{BACKGROUND}}$
 three t_i COMP find-TRANS-3OBJ-3SUBJ t_x LINK hat-her
 ‘What she looked for t_x was three hats.’

b. Focus/Background structure <F, B>: $\langle \lambda x. \text{she looked for } x \text{ hats, three} \rangle$

- *Structure of the talk:*
 - §2: Background on the language Ntɛʔkepmxcin (Thompson Salish)
 - §3: Structured Meaning Approach to Focus (von Stechow 1990, Krifka 1992, 2006)
 - §4: Focus marking in Ntɛʔkepmxcin: basic cases
 - §5: Narrow focus in complex NPs
 - §6: Conclusion

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2. Background: General Information on Nt̥eʔkepmxcin

- Nt̥eʔkepmxcin is one of 23 Salish languages, spoken in southwestern British Columbia, Canada. (For overviews, see Kinkade 1992, Kroeber 1999, Davis and Matthewson 2009)
It is highly endangered: No more than a few hundred elderly speakers remain.

- Grammatical properties: (see also Appendix for phonemic inventory and key to glosses)*

- word order*: predicate initial (typically: V S O Obl Adv), like all Salish languages, cf. (1ab); flexibility in post-predicative word order
- radical head-marking*: transitivity and argument agreement marked on verb/predicate

- (1) V 2CL S O Oblique
 n̥-t-Ø-és =xeʔ e=Bíll e=qəʔmín t=e=ʔescéqʷ te=ʔépl̥s.¹
 give-TRANS-3O-3S =DEM DET=Bill DET=elder OBL=DET=red LNK=apple
 ‘Bill gave the elder a red apple.’ [652i]

- (2) Aux 2CL V S O
 xʷúy̓ =xeʔ ník̥-Ø-Ø-es pro e=syíqm.
 FUT =DEM cut-TRANS-3OBJ-3SUBJ pro DET=grass
 ‘He’s going to cut the grass.’ [661e]

- predicate/argument flexibility*: any open class category can be the predicate, without a copula (e.g. bare NP predicates (3), and complex NP (4))
 (e.g. Kuipers 1968, Kinkade 1983, Jelinek & Demers 1994, Kroeber 1999, Koch & Matthewson 2009)

- (3) NP 2CL S
 sqáqxa =xeʔ e=Hermann
 dog =DEM DET=Hermann
 ‘Hermann is a dog.’

- the LINK particle *tk* / *te* / *t̥* marks predicate modification between NP and modifier(s)

- (4) NP S
 x̥zúm=xeʔ tk=spzú? e=sq̥éçə
 big=DEM LINK=bird DET=chickenhawk
 ‘The chickenhawk is a big bird.’

- (5) AP 2CL S
 zext-ʔúy̓ =hekʷu=meʔ=xeʔ e=sq̥épqn-s ʔeʔ e=supcín-s.
 long-RFM =EVID=indeed=DEM DET=hair-his and DET=beard-his
 ‘His hair and his beard were really long.’

¹ See the Appendix for a key to orthography and glosses, and the phonemic inventory.

- iv. 2nd position clitics (2CL) include situational deictics (*xe?* in 1 and 2) , modal evidentials (*ek^wu* in 1b), and clause-typing markers (*us* in 3)

(6)	Aux	2CL	V
	ʔéx	=us	=meʔ =iʔ =ʔuʔ =xeʔ =neʔ	ʔ ^w óyt.
	IMPF	=3CONJ	=indeed =still =PERS=DEM =there	sleep
	‘Better let him sleep.’ [680b]			

- vi. *Relative clauses:*

- head external; **two determiners** (one preceding head NP, one introducing CP_{REL})
- operator movement of clause-internal DP to Spec,CP (Kroeger 1997, Davis 2004, Koch 2006, Koch 2008b); determiner of moved DP is pronounced and functions as quasi-relative pronoun, cf. (7a) (predicate abstraction -- Heim and Kratzer 1998).
- attributive LINK marker between head NP and relative clause marks predicate modification (Kroeger 1997), cf. (7a), in the absence of overt P-modifiers, cf. (7b):
- headless relative clauses (7c) realize only the initial determiner

- (7) a. e=cítx^w t [CP [DP t_i] s=cuw-étx^w=s t_i=Jóhn t_i]
 DET=house LINK DET NOM=build-house=3POSS.S DET=John t_i
 ‘the house which John built’
- b. e=npúytn [CP [PP n=e] x^wúy=wn ʔ^wóyt t_i]
 DET=bed in=DET FUT=1SG.CONJ sleep t_i
 ‘a bed in which I will sleep’
- c. ʔés-ʔək-st-Ø-éne=xeʔ t_i=[NP [NP Ø] [CP q^wc-íyx u=t_i=ʔqəmcín t]]
 STAT-know-TRANS-3O-1SG.S=DEM DET= leave-INTRANS to=DET=Lytton t
 ‘I know the one that went to Lytton.’ [FE392c]

- the predicate in the relative clause is marked by special embedding morphology, depending on the relationship of the gap in the clause to the head NP (e.g. nominalization/possessive *s=...=s* for the oblique in (7a), conjunctive (i.e. subjunctive) *=wn* for the locative in (7b))

3. Structured Meaning Approach to Focus (von Stechow 1990, Krifka 1992, 2006)

- (8) Structured Meaning semantics: $\langle F, A, B \rangle$
 $\langle \text{Focus, Alternatives, Background} \rangle$

<p>‘It was [Bill]_{FOCUS}</p> <p>$\langle F,$</p> <p>a. $F = \text{Bill}$</p> <p>c. $A = \text{focus semantic value (Rooth 1985, 1992)}$ $[[\dots]]^{\text{FOC}} = \{\text{Pam ate the food, Bill ate the food, Sue ate the food, ...}\}$</p> <p>d. $B(F) = [\lambda x.x \text{ ate the food}](\text{Bill}) = \text{Bill ate the food}$</p>	<p>[that t_x ate the food]_{BACKGROUND.}’</p> <p>$B \rangle$</p> <p>b. $B = \lambda x.x \text{ ate the food}$</p>
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= ordinary meaning $[[\dots]]^0$

4. Focus Marking in Nt̓eʔkepmxcin

- *General Observations:*
 - i. Focus = the answer to a wh-question (“Question Under Discussion”)
 - ii. Nt̓eʔkepmxcin employs a purely predicative focus marking strategy (Kroeber 1997, Koch 2008a; Davis 2007 for St’át’imcets, Benner 2006 for Sencothén): the focus constituent, or the focus exponent, form (part of) the syntactic predicate in sentence-initial position.
 \Rightarrow FOCUS = PREDICATE
 - iii. Background information is structured into the argument, a remnant clause
 \Rightarrow BACKGROUND = ARGUMENT

General strategy:

If the focus constituent is not the predicate to begin with (V(P), bare NP) it is turned into the predicate by means of a cleft-structure (Davis 2007, Koch 2008a)

- *Predication focus and sentence focus: V-initial*

All instances of predication focus (V-, VP-, TAM, verum-focus) as well as CP-focus on the extended verbal projection are realized with the verbal predicate in default sentence-initial position:

- (9) a. A: *What’s going on?* [CP focus]
 B: wʔéx=xéʔ=neʔ ʔes-tét-ix e=Pátricia.
 IMPF=DEM=DEM STAT-stand-INTRANS DET=Patricia
 ‘Patricia is standing there.’ [639e]

- b. A: *What are you doing?* [VP focus]
 B: ʔéx=xéʔ ʔes-kʷéñ-st-Ø-ne e=stéʔ=us=nke.
 IMPF=DEM STAT-look.at-TR-3O-1SG.S DET=what=3CONJ=EVID
 ‘I’m looking at something.’ [640c]
- c. A: *Does your grandmother like cherries?* [verum focus]
 B: heʔáy, ʔecín-m-Ø-s=xéʔ e=n-kžé e=céris.
 yes, like-TR-3O-3S=DEM DET=1SG.POSS-grandmother DET=cherry
 ‘Yes, my grandmother likes cherries.’ [639g]

• *Bare NP focus on nominal predicates:*

Nominal Predicate Construction, in which the nominal predicate is realized in sentence-initial position (Davis et al. 2004) (= a subcase of predication focus)

Wh-words are also predicates (e.g. Jelinek 1998, Davis & Matthewson 2009) (10c)

- (10) a. A: *What is Betsy going to put in her soup?* [O-focus]
 B: [kálec]_{FOC}=xeʔ=néʔ [e=xʷúʔ méʔ-e-Ø-s t]_{BACKGROUND}.
 carrot=DEM=DEM COMP=FUT mix-TRANS-3O-3S t
 ‘[What she’s going to put in]_{BACKGROUND} is [carrots]_{FOC}.’ [655n]

<F, B>: <carrot, λx. she’s going to put in x>

- b. A: *What appeared now?* [S-focus]
 B: [nčesqáxa]_{FOC}=neʔ [e=wʔáz t cʔéyʔ]_{BACKGROUND}.
 horse=there COMP=appear t now
 ‘[What appeared now]_{BACKGROUND} is [a horse]_{FOC}.’ [647i]

<F, B>: <horse, λx. x appeared>

- c. swét e=ʔóqʷ-s-t-Ø-mus t weʔ e=nʔpíceʔ-s.
 who COMP=hang-CAUS-TR-3O-SUBJ.GAP t there DET=shirt-3POSS
 ‘Who hung their shirt out to dry?’
 (more literally: ‘That hung their shirts out to dry was who?’)

<F, B>: <who, λx. x hung x’s shirt out to dry>

• *Focus on DP-arguments:*

- Focus on DP-arguments is marked by means of a cleft-structure in which the focused DP is preceded by the cleft-predicate *čé* or *ʔé* in sentence-initial position;
- The background (= cleft remnant) is realized as an argument clause with a gap marked by subordinating morphology on the verb.

- (11) a. čé [ʔ=Róss]_{FOC} [e pínt-t-Ø-mus t]_{BG}. [S-focus]
 CLEFT DET=Ross COMP paint-TRANS-3O-SUBJ.GAP t
 ‘It was [Ross]_{FOC} [that painted it]_{BACKGROUND}.’
 <F, B>: <Ross, λx. x painted it>

- b. ʔé=xeʔ=neʔ $[\text{e=kréps}]_{\text{FOC}}$ $[\text{e=wík-t-Ø-ne} \quad t]_{\text{BG}}$ $[\textit{O-focus}]$
 CLEFT=DEM=there DET=grape COMP=see-TR-3O-1SG.S t
 ‘It’s [grapes]_{FOC} [that I see]_{BACKGROUND}.’ [640a]

$\langle F, B \rangle$: $\langle \text{grapes}, \lambda x. \text{I see } x \rangle$

- Clefts mark focus on DP arguments, and are biclausal (Kroeger 1999, Davis et al. 2004, Koch 2008a, 2008b, Koch and Zimmermann 2009)

(12) The structure of clefts:

$[CP_1 [\text{PredP } \text{c}e_{\langle e, \langle et, t \rangle}] [DP_{\langle e \rangle}]] [\langle et \rangle CP_2 \dots t \dots]]$

- the remnant clause in both bare NP focus and cleft focus cases is a CP with an internal gap corresponding to the focus (Koch 2008a, 2008b)
 - it is never introduced by the determiner t (c.f. 7c), but by complementizer e or k
 - it cannot contain an overt NP head like a relative clause
 - standard lambda abstraction gives us a CP of type $\langle e, t \rangle$ (e.g. Heim and Kratzer 1998) that maps directly to the Background and generated focus alternatives
- In the narrow focus cases in (10) and (11), the focus semantics can be read directly off the surface syntactic representation

Summary:

- Thompson Salish nominal predicate constructions and clefts split the clause into a $\langle F, B \rangle$ structure
- Focus semantics are straightforwardly provided by the syntax

5. Narrow focus in complex NPs: Imperfection in the Focus syntax-semantics interface

- When narrow focus falls on just a portion of a complex NP, the entire complex NP must be clefted / made the nominal predicate
- ⇒ a very general syntactic constraint that prevents the trace in the background clause from corresponding to just a single element within a complex NP, as complex NPs are islands for extraction (Ross 1967; Krifka 2006 on the same constraint applying to association with Focus).

- (13) A: How many hats did she look for?
 B: What she looked for t_x was $[[\text{three}]_{\text{FOC}} \text{ hats}]_x$.
 * What she looked for t_x hats was $[\text{three}_x]_{\text{FOC}}$.

- (14) $[[ke?tés]_{\text{FOCUS}}=nke=xe? tk=qemút-s]_x [k \quad pún-m-Ø-s \quad t_x]_{\text{BACKGROUND}}$
 three =EVID=DEM LINK=hat-her COMP find-TRANS-3OBJ-3SUBJ t_x
 ‘What she looked for t_x was [three]_{FOCUS} hats.’
- (15) * $[ke?tés_x]_{\text{FOCUS}}=nke=xe? [k \quad pún-m-Ø-s \quad [e \quad [t_x] \quad [qemút-s]]_{\text{BACKGROUND}}$
 three =EVID=DEM COMP find-TRANS-3OBJ-3S DET t_x hat-her
 intended: *‘What she looked for t_x hats was three.’

- in (14), the syntactic constituents do not split into focus semantic constituents <F, B>

5.1 Extraposition from complex NPs: Restoring <F, B> in the surface string

- A general rightward extraposition strategy allows the head noun of complex NPs to be optionally right-extraposed:

- (16) a. $[_{\text{NP}} [_{\text{AP}} \text{púti}]=xe?e \quad [_{\text{NP}} tk=smútéc]] \quad [_{\text{DP}} e=Máry]$.
 pretty=DEM LINK=woman DET=Mary
 ‘Mary is a pretty lady.’
- b. $[_{\text{NP}} [_{\text{AP}} \text{púti}]=xe?e \quad t_i] \quad [_{\text{DP}} e=Máry] \quad [_{\text{NP}} tk=smútéc]_i$
 pretty=DEM DET=Mary LINK=woman
 ‘Mary is a pretty lady.’

- when narrow focus falls on an NP modifier like *ke?tes* ‘three’ in (14), the unfocused NP can be extraposed to the right
- it is marked by the link particle *tk* (and not by a determiner if it were an in situ argument of the transitive verb *punms*)
- the phonological string, but not the syntax, map onto the Focus semantics

- (17) ()_{p-ph} ()_{p-phrase} ()_{p-phrase}
 $[[ke?tés]_{\text{FOCUS}}=nke=xe? \quad t_i] [k \quad pún-m-Ø-s \quad t_x]_{\text{BACKGROUND}} [tk=qemút-s]_{\text{BG}}$
 three=EVID=DEM t_i COMP find-TRANS-3OBJ-3S t_x LINK=hat-her
 ‘What she looked for t_x was [three]_{FOCUS} hats.’

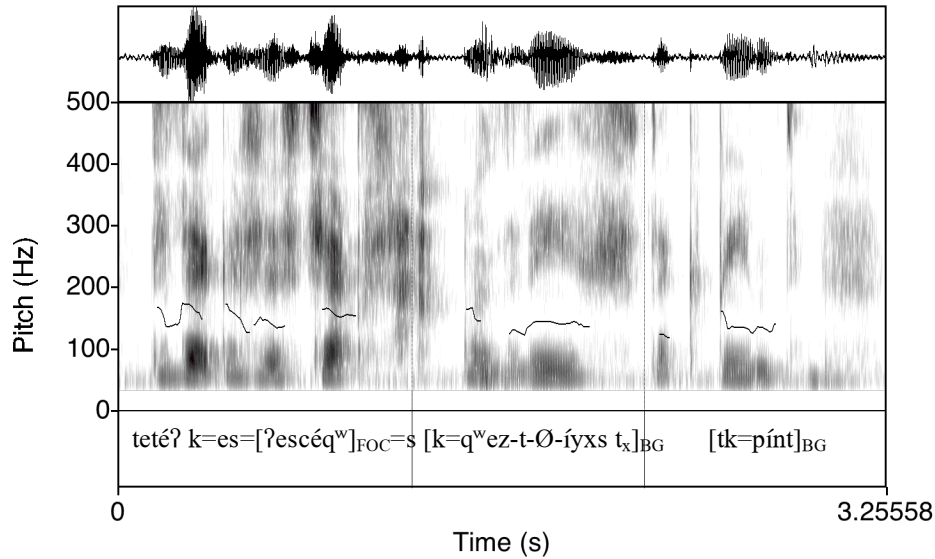
<three, λx .she looked for x hats>

- (18) ()_p ()_{p-ph} ()_{p-ph}
 $[[?estpéq^w]_{\text{FOC}}=xe?=ne? \quad t_i] [\text{ə}=?es-ʔúm-s-Ø-ne \quad t_x]_{\text{BG}} [te=n-siʔcú?_i]_{\text{BG}}$
 white=DEM=DEM t_i C=STAT-wear-TR-3O-1SG.S t_x LINK=1SG.POSS-shoes
 ‘What I am wearing t_x is [white]_{FOCUS} shoes.’

<white, λx .I am wearing x shoes>

- (19) (teté? k=[es=[?escéq^w]_{FOC}=s)_p (t_i] [k=q^wez-t-Ø-íyxs t_x]_{BG} (tk=pínt_i]_{BG}.
 NEG COMP=NOM=red=3POSS.SUBJ t_i COMP=use-TR-3O-3PL.SUBJ t_x LINK=paint
 ‘They’re not using [red]_{FOC} paint.’
 (more literally: ‘It’s not the case that what they’re using t_x is [red]_{FOC} paint.’)
 <red,
 λx.they are using x paint>

Figure 1: Material moved rightward is still phonologically part of the same clause (intonation phrase) (ex. 19)



5.2 Extraposing the unfocused head of a relative clause

- (20) [čé [DP e= [CP ?éx ?estétix n=e=nǎpénk-s e=syép ne?e]_{FOCUS} t_i]]
 CLEFT DET= IMPF stand in=DET=under-3PS DET=tree there
 [CP e=?éx ?^wóyt t_x]_{BACKGROUND} [NP te=móšmoš_i]_{BACKGROUND}.
 COMP=IMPF sleep t_x LINK=cow
 ‘It’s the (one)_i [standing under the tree]_{FOC} that is sleeping t_x the cow_i.’
 <standing under the tree,
 λx.the cow that x is sleeping>

5.3 Extraposing the unfocused NP out of a ‘which NP’ question

- (21) [[hén=meɬ tux^w xéʔe]_{FOC} t_i] [k=cíý te=yé e=sx^wáwk-s t_x]_{BG}
 which=indeed from those t_i COMP=seem that=good DET=heart-3ps t_x
 [tk=k^wetníʔ]_{BG}.
 LINK=mouse

‘[Which]_{FOC} mouse is happiest?’

(more literally: ‘That seems happy t_x mouse_i is which of those t_i?’)

<which, λx.x mouse seems happiest>

- (22) [[stéʔ]_{FOC}=xeʔ t_i] [k=ex ʔéx ʔúpi-Ø-Ø-s e=Jóhn t_x] [tk=sq^wíyt_i].
 what=DEM t_i COMP=IMPF IMPF eat-TR-3O-3S DET=John t_x LINK=fruit_i

‘What kind of fruit does John like to eat?’

(more literally: ‘That eats John t_x fruit_i is what t_i?’)

<what, λx.John eats x fruit>

7. Conclusion

- In simple narrow focus (NP, DP), syntax and focus semantics interface perfectly in Thompson Salish
- The syntax neatly splits the clause into a <Focus, Background> structure.
 - overt representation of the *Focus semantic meaning* [...]^{FOC}
- When focus falls on a narrow focus inside a complex NP, a phonological operation enables the listener to recover focus marking (e.g. Selkirk 1995)
 - phonological string maps onto focus semantics
 - underlying syntactic string does not map onto focus semantics
- unresolved issue: if both a focused bare NP predicate and the remnant clause with a gap are of type <e,t>, how does compositional semantics of ordinary meaning [...]^o proceed?

Thank you!

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Appendix

Abbreviations in the glosses are based on Thompson and Thompson 1992, 1996, Kroeber 1997:

‘-’ = affix
‘=’ = clitic
BG = background
C, COMP = complementizer
CONJ = conjunctive (i.e. subjunctive)
CAUS = causative transitivity
DEM = demonstrative
DRV = directive transitivity
DET, D = determiner
EMPH = emphatic (independent pronoun)
EVID = evidential
FOC = focus
FUT = future
IMPF = imperfective
INCH = inchoative [intransitive suffix]
INTRANS, INTR = intransitive
IRL = irrealis
LNK = link (predicate modification marker)
LOC = locative
NEG = negation
NOM = nominalizer
O, OBJ = object
OBL = oblique
PERF = perfective
PL = plural
-POSS, -PS = possessive (affix)
=POSS, =PS = possessive subject clitic
Q = yes/no question marker
RED = reduplication
RFM = reaffirmative (e.g. ‘very’ with AP)
S, SUBJ = subject
SG = singular
STAT = stative prefix
SUBJ.GAP = subject gap suffix
TRANS, TR = control transitivity

Table 1. Phonemic inventory (adapted from Thompson and Thompson 1992)

CONSONANTS	labial	alveolar	alveo-palatal	velar	uvular	pharyngeal	glottal
Stops	p	t		k k ^w	q q ^w		ʔ
Ejectives	p̰	t̰		k̰ k̰ ^w	q̰ q̰ ^w		
Lateral Eject.		ɬ̰					
Nasal	m	n					
Glottalized	m̰	n̰					
Affricates		ɕ [ts]	c [tʃ]				
Ejective		ɕ̰ [ts']					
Fricatives		ʃ [s]	s [ʃ]	x x ^w	χ χ ^w		h
Lateral		ɬ					
Approximant	(w)	z	y [j]	w		ʕ ʕ ^w	
Lateral		l					
Glottalized	(w̰)	z̰	y̰	w̰		ʕ̰ ʕ̰ ^w	
Glott. Lateral		l̰					

VOWELS	front	central	back
high	i	ɨ	u
mid	e	ə	ɔ
low		a	

Data are presented in the orthography developed in Thompson and Thompson (1992, 1996). Acute accent ´ indicates word-level stress. Symbols not listed are the standard IPA forms:

c = [tʃ] or [ç]
ɕ = [ts]
ɕ̰ = [ts']
e = [e, æ, a, ɛ, ə]
ɘ = [ʌ]
i = [i, ei, ai]
o = [o, ɔ]
s = [ʃ] or [š]
ʃ = [s]
u = [u, o, ɔ]
χ = [x]
y = [i, y]