



Word Order and Information Structure in Kelabit

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Introduction



 In this paper, I explore the interaction between symmetrical voice, word order and information structure in the Kelabit language of Northern Sarawak.

- The aim of this paper:
 - > To consider how information structure interacts with syntactic choices
 - > To consider the implications for WAn voice systems and information structure more generally

Outline



- 1. Features of Kelabit Grammar
- 2. Information Structure
- 3. Information Structure and Word Order in Kelabit
- 4. Conclusions





Features of Kelabit Grammar

Background



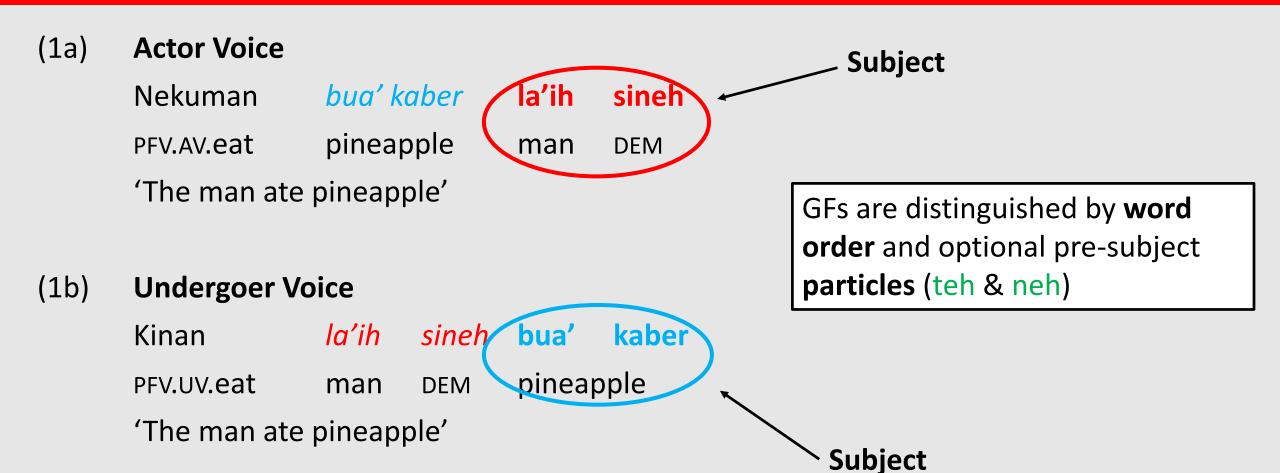
• **Kelabit** is a Western Austronesian (WAn) language spoken mainly in the Fourth and Fifth divisions of Sarawak, Malaysia (Martin 1996).

- It is part of the Apad Uat subgroup of Northern Sarawak which also includes Lun Bawang/Lundayeh, and Sa'ban (Kroeger 1998).
- Data is based on fieldwork in Bario from 2013-2019 and consists of elicited grammaticality judgements and naturalistic corpus examples.



Symmetrical Voice







(2a) La'ih sineh nekuman bua' kaber man DEM PFV.AV.eat pineapple 'The man ate the pineapple'

The **subject** can appear pre-verbally, whilst the *non-subject* cannot

(2b) *bua' kaber nekuman la'ih sineh

(2c) Bua' kaber kinan la'ih sineh pineapple pfv.uv.eat man dem 'The man ate pineapple'

(2d) *la'ih sineh kinan bua' kaber



(3a) Nekuman la'ih sineh bua' kaber

PFV.AV.eat man DEM pineapple

'The man ate pineapple'

(3b) *Kinan bua' kaber la'ih sineh pfv.uv.eat pineapple man FOR: 'The man ate pineapple'

In AV, **VSO order** is also possible & attested



	SVO	VOS	VSO
AV	√ = AVU	√ = VUA	✓ = VAU
UV	√ = UVA	√ = VAU	

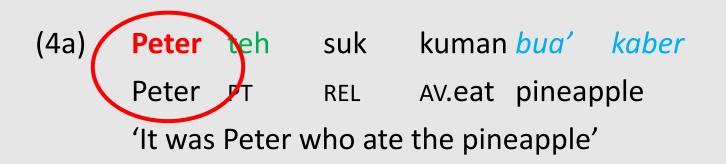
All else being equal, there is a preference for actor before undergoer

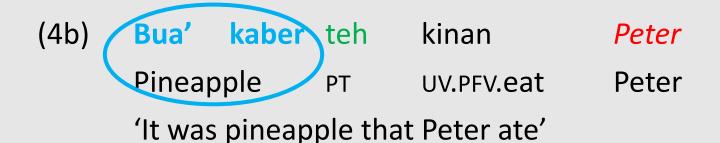
Deviations from this tend to be associated with marked readings

Focus Fronting



• It is possible for focus information to be fronted in an **inversion construction** using the particle *teh* (cf. ang in Tagalog)





Summary



- Kelabit has symmetrical voice alternations
- These allow different arguments to be mapped to subject and appear in pre-verbal position
- There is also an external position for contrastive focus (using the teh construction)
- Q: What is the role of information structure in these choices?





Information Structure

Information Structure



- Information structure can be understood as a formal mechanism for facilitating effective information exchange or update (Dalrymple and Nikolaeva 2011, Erteschik-Shir 2007).
- Among the most important information structure roles are topic and focus:
 - Topic is an entity that the speaker identifies and about which a proposition is made (Krifka 2008)
 - Focus is the **informative** part of the proposition and indicates the presence of **alternatives** (Krifka 2008)

Information Structure



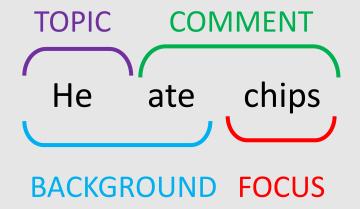
- These allow us to divide the information according to two major distinctions:
 - Topic vs Comment
 - Focus vs Background

CONTEXT: What did Peter do?

He ate chips

BACKGROUND FOCUS

CONTEXT: What did Peter eat?







Information Structure & Word Order in Kelabit



• Word order can be used as a strategy to mark information structure by placing focus information before the background.

This can be seen if we explore:

- a) Question/Answer pairs
- b) Negative Contrast

• This involves the initial position and also inversion constructions with teh

Narrow Focus (Q&A)



(6)	Focused	Actor

Q. **lih** nemupu' *John*?

who AV.PFV.hit John

'Who hit John?'

Andy Av. PFV.hit John

'Andy hit John'

Focused Undergoer

Q. Iih pinupu' Andy?
who UV.PFV.hit Andy
'Who did Andy hit?'

A. [John]_{focus} pinupu' Andy
John UV.PFV.hit Andy
'Andy hit John'

Narrow Focus (Q&A)



(10a) Focused Actor

*nemupu' John [iih]_{focus}?

AV.PFV.hit John who

For: 'who hit John?'

(10b) Focused Undergoer

*pinupu' Andy [iih]_{focus}?
UV.PFV.hit Andy who

For: 'who did Andy hit?'

Predicate Focus (Q&A)



(7) Focused predicate (verb+undergoer)

Q. Enun tu'en *neh*?

what UV.IRR.do 3sg.GEN

'What is he doing?'

A. [Kuman *bua' kaber nedih*]_{focus}

Av.eat fruit pineapple 3sg.poss

'He's eating his pineapple'

t=ieh

PT=3SG.NOM

Predicate Focus (Q&A)



(8) Focused predicate (verb+actor)

Q. Peh neto' bua' suk na'ai?

where PT fruit REL before

'what happened to/where is that fruit?'

A. $[Kinan \quad uih]_{focus}$ n=idih
UV.PFV.eat 1SG.NOM PT=DEM
'I ate it'

Adjunct Focus (Q&A)



(9a) <u>Idan</u> teh <u>Peter</u> kuman <u>bua'</u> <u>kaber</u> nedih? when PT <u>Peter</u> Av.eat pineapple 3sg.Poss

'When will Peter eat his pineapple?'

(9b) [Na'an]_{focus} teh Peter kuman bua' kaber nedih later PT Peter Av.eat pineapple 3sg.poss

Peter will eat his pineapple later.

Summary



Context	Word Order	Voice
Narrow Focus on Actor	[A]VU	Actor Voice
Narrow Focus on Undergoer	[U]VA	Undergoer Voice
Predicate Focus on Verb+Undergoer	[VU]A	Actor Voice
Predicate Focus on Verb +Actor	[VA]U	Undergoer Voice
Narrow Focus on a Time Adverbial	[X]AVU	Actor Voice

Narrow Focus (Negation)



CONTEXT: Did Andy hit John yesterday?

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(12a) Not Andy...

[Paul]<sub>focus</sub> teh suk nemupu' ieh
Paul PT REL PFV.AV.hit 3SG.NOM

'It was Paul who hit him (John)'
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(12b) **Not John...**

[Paul]
focustehsukpinupu'nehPaulPTRELUV.PFV.hit3sg.gen

'It wasn't John, it was Paul that he (Andy) hit'

Predicate Focus (Negation)



CONTEXT: did Andy hit John yesterday?

(13c) Andy didn't hit John.

[nemepag *Paul*]_{focus}

AV.PFV.slap Paul

'He slapped Paul'

t=ieh

PT=3SG

(13d) Andy didn't hit John...

[pipag uih]_{focus}

UV.PFV.slap 1sg.nom

'I slapped John'

t=ieh

PT=3sg.NOM

Adjunct Focus (Negation)



Context: did Andy hit John yesterday?

(14a) Not yesterday...

[edto ma'un]_{focus} t=ieh pinupu' neh

day before PT=3sg.NOM UV.PFV.hit 3sg.gen

'It was the day before that he hit him'

(14b) [edto ma'un]_{focus} t=ieh nemupu' ieh

day before PT=3sg.nom Av.pfv.hit 3sg.nom

'It was the day before that he hit him'

Negation Test (corrective focus)



(15a) Andy didn't hit John...

#ieh

[nemepag

Paul]_{focus}

3sg.nom

AV.PFV.slap Paul

FOR: 'he slapped Paul'

(15b) Not yesterday...

#pinupu'

neh

t=ieh

UV.PFV.hit

3sg.gen

PT=3SG.NOM

[edto ma'un]_{fogus}

day.before

FOR: 'he hit him the day before'

Summary



Context	Word Order	Voice
Narrow Contrast on Actor	[A] teh VU	Actor Voice
Narrow Contrast on Undergoer	[U] teh VA	Undergoer Voice
Predicate Contrast on Verb+Undergoer	[VU] teh A	Actor Voice
Predicate Contrast on Verb+Actor	[VA] teh ∪	Undergoer Voice
Narrow Contrast on a Time Adverbial	[X] teh AVU	Actor Voice

Summary



 Word order can be used as a strategy for marking information structure in placing focus before background information

 Using the teh inversion construction appears to be particularly associated with contrast.

• This gives us contexts for many of the orders that we saw were possible – but doesn't explain everything (e.g. VSO? and the prevalence of SVO)...





Other Word Order Patterns

Word Order & Information Structure



• **Non-subject arguments** can be focused *in situ* – so long as the subject follows. This is shown by the same tests:

- a) Question/Answer Pairs
- b) Negative Contrast

Narrow Focus (Q&A)



(16a) **Focused Undergoer**

Q. Nekuman *enun* **teh Peter** ngimalem?

AV.PFV.eat what PT Peter yesterday

'What did Peter eat yesterday?'

A. Nekuman $([bua' kaber]_{focus}$ t=ieh ngimalem

AV.PFV.eat fruit pineapple PT=1sg.NOM yesterday

'What did Peter eat yesterday?'

,

Narrow Focus (Q&A)



(16b) Focused Actor

Q. Kenen iih neh bua' kaber sineh?

UV.IRR.eat who PT fruit pineapple DEM

'Who will eat the pineapple?'

A. Kenen [Peter]_{focus} neh bua' kaber sineh

UV.IRR.eat Peter PT fruit pineapple DEM

'Peter will eat the pineapple'

Narrow Focus (Negation)



Context: did Andy hit John yesterday? NO...

(17a) **Not John...**

nemupu'

AV.PFV.hit

'He hit Paul'



t=ieh

PT=3sg.NOM

(17b) **Not Andy...**

pinupu'

UV.PFV.hit

'Paul hit him.'



t=ieh

PT=3sg.NOM

Summary



Context	Word Order	Voice
Narrow Contrast on Actor	V[A] teh ∪	Undergoer Voice
Narrow Contrast on Undergoer	V[U] teh A	Actor Voice

Word Order & Information Structure



• **SVO** in AV appears to be a possible means of expressing many different focus constructions:

- a) narrow focus on the actor
- b) narrow focus on the undergoer
- c) predicate focus
- d) broad/sentence focus

Narrow Focus (Q&A)



(18) Focused Undergoer

Q. Kuman *enun* t=ieh?

AV.eat what PT=3sg.NOM?

'What is Peter eating?'

A. neh <mark>ieh</mark> kuman

DEM Peter Av.eat

'Peter is eating pineapple'

[bua' kaber

fruit pineapple

DEM

Predicate Focus (Q&A)



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(19) Focused Predicate
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Q. naru' *enun* **Peter**?

Av.do what Peter?

'what is Peter doing?'

A. neh **Peter**

DEM Peter

'Peter is eating pineapple'

Broad Focus (Q&A)



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(20) Focused Sentence
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Q. Kapeh tebey'?

how actually

'What happened?'

A.	[nih	Peter	kuman	bua'	kaber	nedih] _{focus}
	DEM	Peter	Av.eat	fruit	pineapple	3sg.poss

'Peter is eating pineapple'



Context	Word Order	Voice
Narrow Contrast on Actor	AVU	Actor Voice
Narrow Contrast on Undergoer	AVU	Actor Voice
Predicate Focus on Verb +Undergoer	AVU	Actor Voice
Broad Focus	AVU	Actor Voice

Word Order & Information Structure



• **Topic-comment** structure (e.g. with continuing topics in narratives) can also be expressed using UV VOS clauses and AV VSO clauses...

We can see this in:

- a) narrative sequences
- b) IS translation exercise

Narrative Sequences



(21) Continuing Topic (UV VOS)

Nalap neh pupu'
UV.PFV.fetch 3SG.GEN hitting.implement

'She [Dayang Beladan] fetched something to hit with'

Nukab neh bubpu' daan UV.PFV.open 3sg.GEN door hut 'Opened the door to the hut'

Nalap

UV.PFV.fetch

neh
3SG.GEN

one
stick

'Picked up a piece of wood'

Narrative Sequences



(22) Continuing Topic (AV VSO)

Ngalap-ngalap

AV.pick-REDUP

t=ieh
PT=3sG

bua'

fruit

'So he was picking fruit'

Translation Exercise



Cats are so aggressive. They chase squirrels. They chase birds. Some even chase dogs. I also heard that cats were seen chasing a small kangaroo in Australia. They also chase rats, of course. But that is good.

- (23a) Ideh ngalo labo puur. Ideh ngalo manuk [...] ideh peh ngalo labo l'ek meto' (SVO)
- (23b) Ngalo tideh labo puur. Ngalo tideh manuk [...] Ngalo tideh labo l'ek meto' (VSO)
- (23c) Metanur *labo puur* **nideh**. Metanur *manuk* **nideh** [...] kineh **tideh** metanur *labo l'ek* (**VOS**)
- (23d) Tu'en deh metanur teh labo puur. Tu'en deh metanur teh manuk [...] Tu'en deh metanur ayu' teh labo l'ek. (UV VOS)



Context	Word Order	Voice
Predicate Focus on Verb +Undergoer, continuing actor topic.	AVU	Actor Voice
Predicate Focus on Verb +Undergoer, continuing actor topic.	VAU	Actor Voice
Predicate Focus on Verb + Undergoer , continuing actor topic.	VUA	Actor Voice
Predicate Focus on Verb +Undergoer, continuing actor topic.	VAU	Undergoer Voice



- Fronting can be used as a strategy for marking **information structure** specifically indicating the status of information as **focused**.
- The **voice alternations** can facilitate this in mapping different arguments to different functions.

• However, there is no **one-to-one link** between position, function and information structure role... since both subjects and non-subjects can be topic and focus and both pre-verbal and post-verbal positions can be associated with these roles.



- Q. Is there a difference between narrow focus in initial position and focus in-situ?
- Possible hypothesis to explore: fronting is associated with **contrast/prominence** whilst new focus can also be associated with default positions.
- This might explain why the teh construction is preferred in the negative contrast contexts!

• If so, perhaps this provides some additional support for distinguishing between different **subtypes** of topic and focus and including contrast as a separate feature...





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Conclusion

Conclusion



• In this paper, I explored the interaction between **voice**, **word order** and **information structure** in Kelabit.

• I have shown that there is a preference for ordering focus before background which can be achieved by realising the subject pre-verbally, realising the VP initially, or fronting an oblique/adjunct to an external position and using teh inversion.

 However, I have also shown that neither voice nor word order is fully determined by information structure since the same context can result in different syntactic choices.

Conclusion



 This suggests that voice (or subject selection) should be thought of as independent from information structure

- It also suggests that word order is just one of many possible strategies for marking information structure, including perhaps morphological markers and prosody.
- This motivates the interesting question of what differences emerge between these strategies and whether fronting is linked to overt **contrast/prominence** perhaps motivating finer distinctions between contrast, topic and focus.





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Many Thanks!

Hanging Topic Construction



• It is also possible to have **hanging topics** in the left periphery (co-referenced by a pronoun).

(4a) Paul kedieh, nekuman bua' ebpuk
Paul ЕМРН.3SG AV.PFV.eat fruit passion

'As for Paul, he ate passion fruit'

(4b) <u>Bua' ebpuk suk na'ai</u>, kinan <u>Paul n=idih</u> fruit passion REL afore UV.PFV.eat Paul PT=DEM 'As for the passionfruit, Paul ate it.'

Hanging Topic Construction



(4c) Paul kedieh, kinan bua' ebpuk
Paul 3sg.EMPH UV.PFV.eat 3sg.GEN fruit passion
'As for Paul, he ate the passion fruit'

(4d) <u>Tapi bulu' sineh</u>, kiteb <u>neh</u> pa'up ena' ih, <u>bukuh ih</u> but bamboo DEM UV.PFV.cut 3SG.GEN end PRO PT edge PT



'but that bamboo, he had cut both ends off'

The hanging topic can correspond a contrastive topics or frame setter