

バントゥ諸語マイクロ類型論と Bantu morphosyntactic variation database

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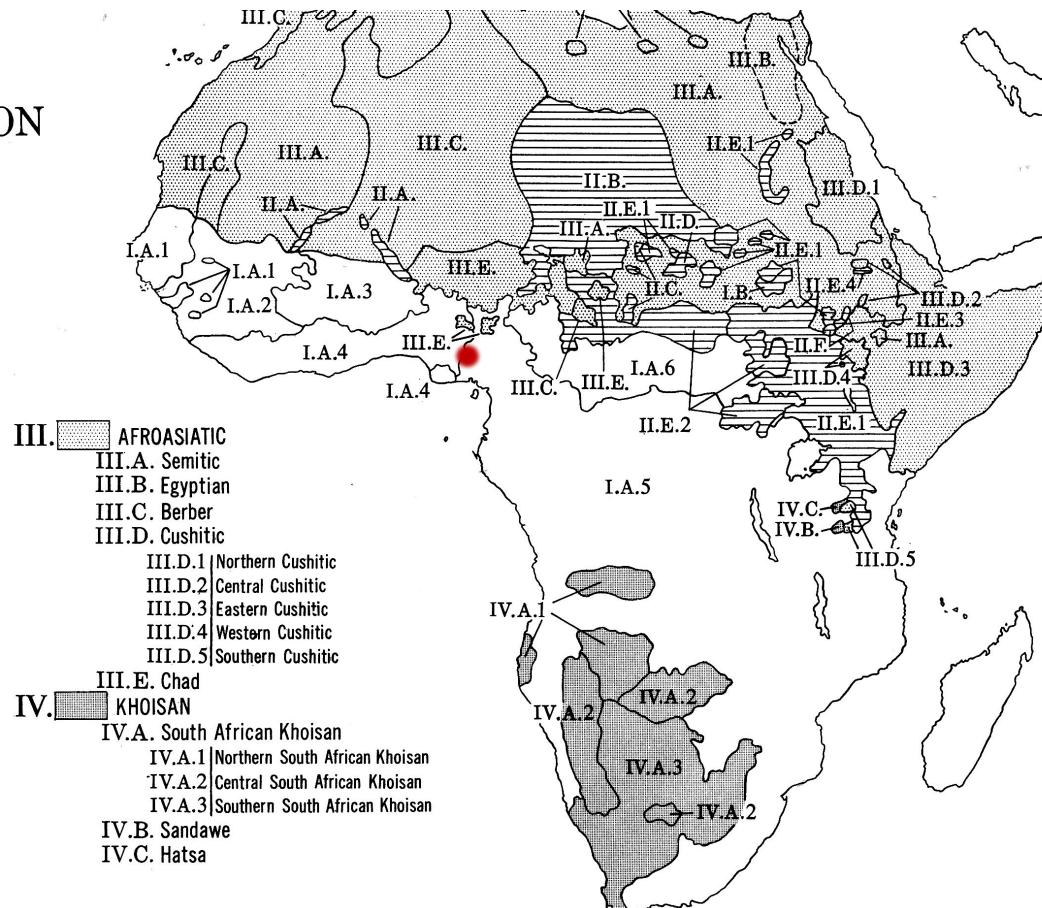
アウトライン

1. はじめに：バントゥ諸語とマイクロ類型論
2. バントゥ諸語マイクロ類型論：研究史
3. BMV (Bantu morphosyntactic variation database)
4. 類型論的一般化の試み – focus markingに関するcovariation
5. 課題と展望

1. はじめに：バントゥ諸語とマイクロ類型論

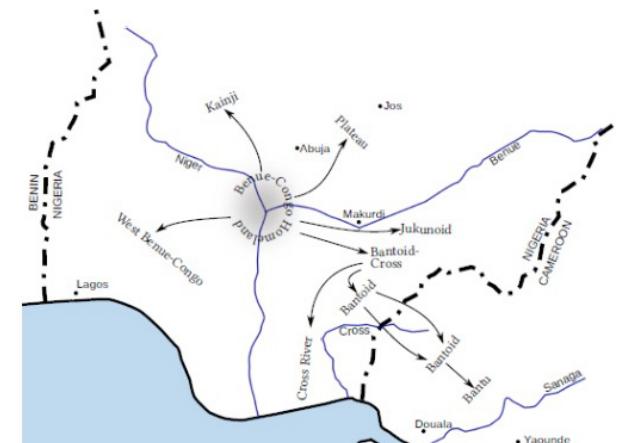
SUMMARY OF CLASSIFICATION

I.		CONGO-KORDOFANIAN
I.A.	I.A. Niger - Congo	
I.A.1	West Atlantic	
I.A.2	Mande	
I.A.3	Voltaic	
I.A.4	Kwa	
I.A.5	Benue - Congo	
I.A.6	Adamawa - Eastern	
I.B.	Kordofanian	
I.B.1	Koalib	
I.B.2	Tegali	
I.B.3	Talodi	
I.B.4	Tumtum	
I.B.5	Katla	
I.C.	NILO-SAHARAN	
II.A.	Songhai	
II.B.	Saharan	
II.C.	Maban	
II.D.	Fur	
II.E.	Chari - Nile	
II.E.1	Eastern Sudanic	
II.E.2	Central Sudanic	
II.E.3	Berta	
II.E.4	Kunama	
II.F.	Koman	



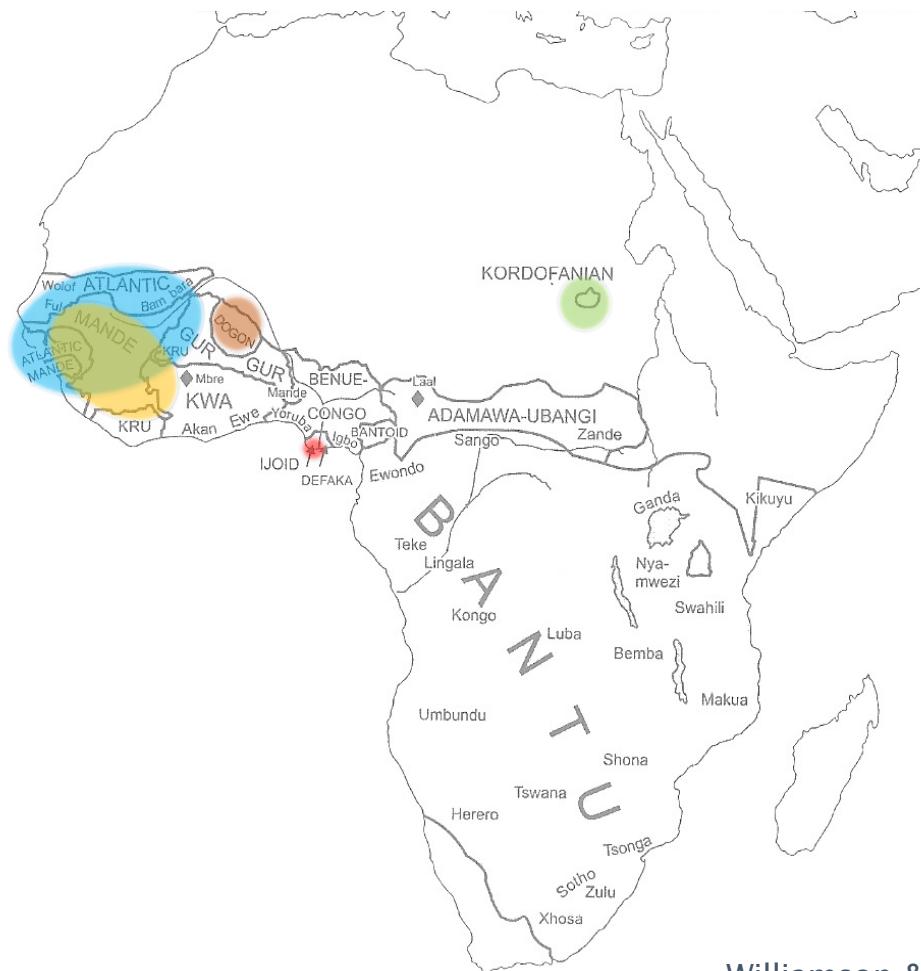
Greenberg (1963)

- ★ サブ・サハラ・アフリカの広大な地域で話される言語数約500を数える一大言語群
- ★ ニジェール・コンゴ語族ベヌエ・コンゴ語派のなかの一分派
- ★ 祖地は現在のナイジェリア・カメルーン国境のあたり



Watters (2018: 7)

1. はじめに：バントゥ諸語とマイクロ類型論



Williamson & Blench (2000)

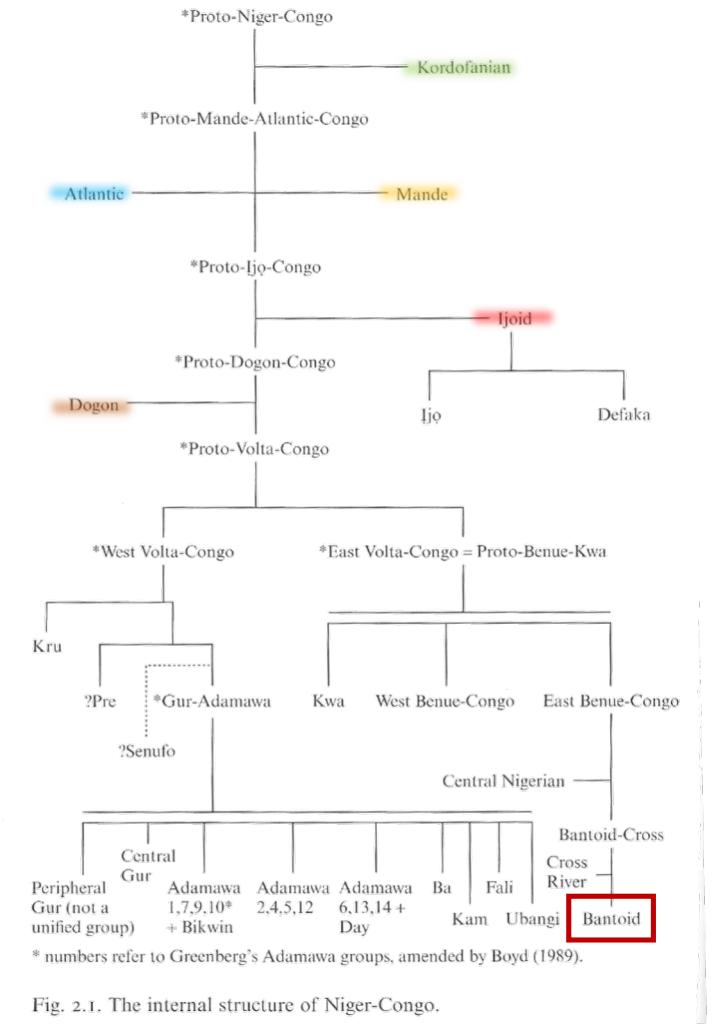
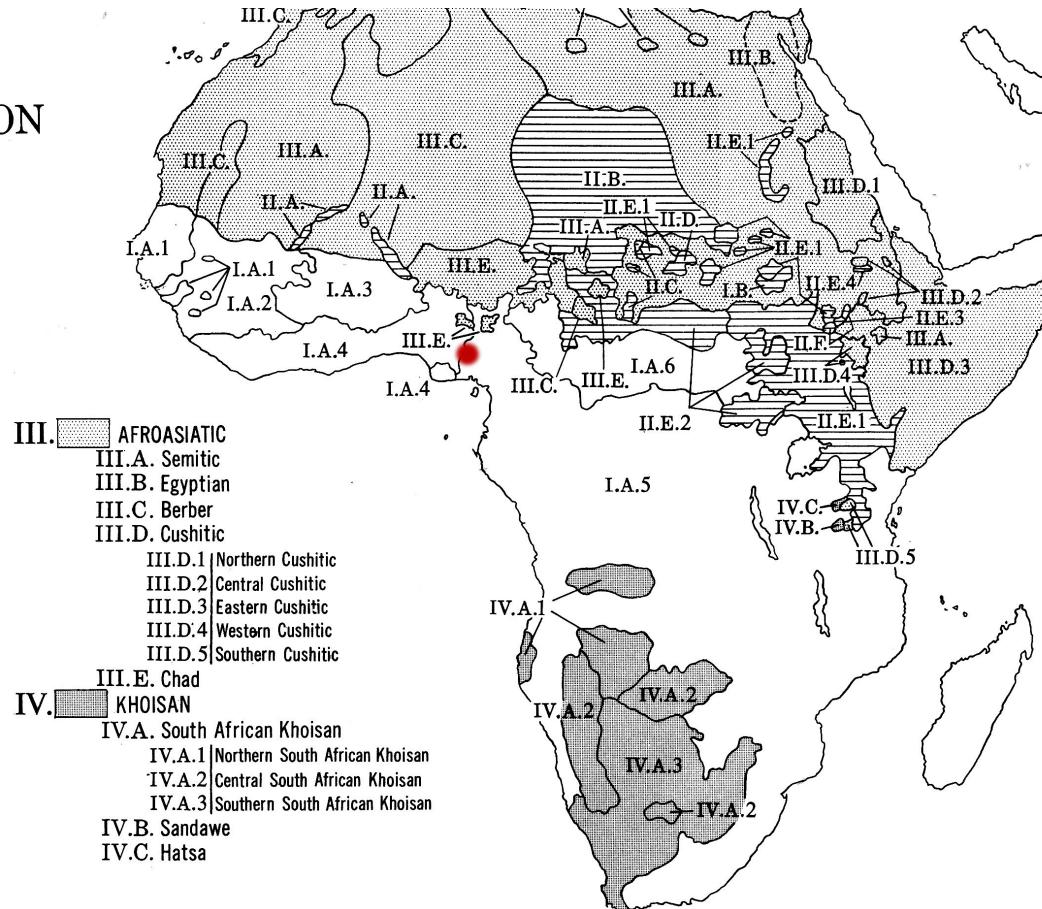


Fig. 2.1. The internal structure of Niger-Congo.

1. はじめに：バントゥ諸語とマイクロ類型論

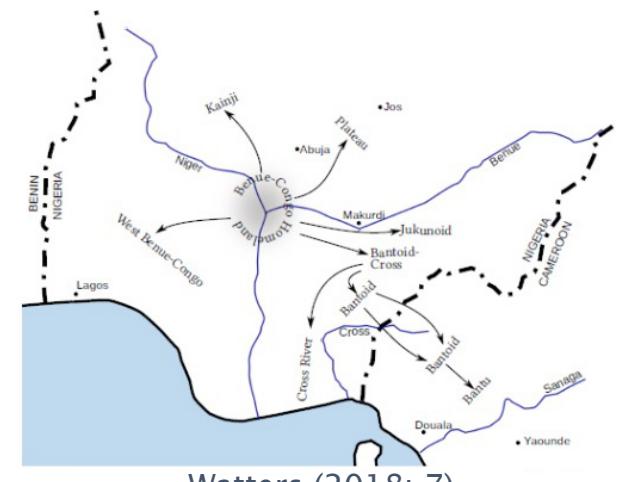
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Watters (2018: 7)

1. はじめに：バントゥ諸語とマイクロ類型論

❖ Bantu expansion: バントゥ諸語の分岐・拡散のルート (Grollemund et al. 2015)

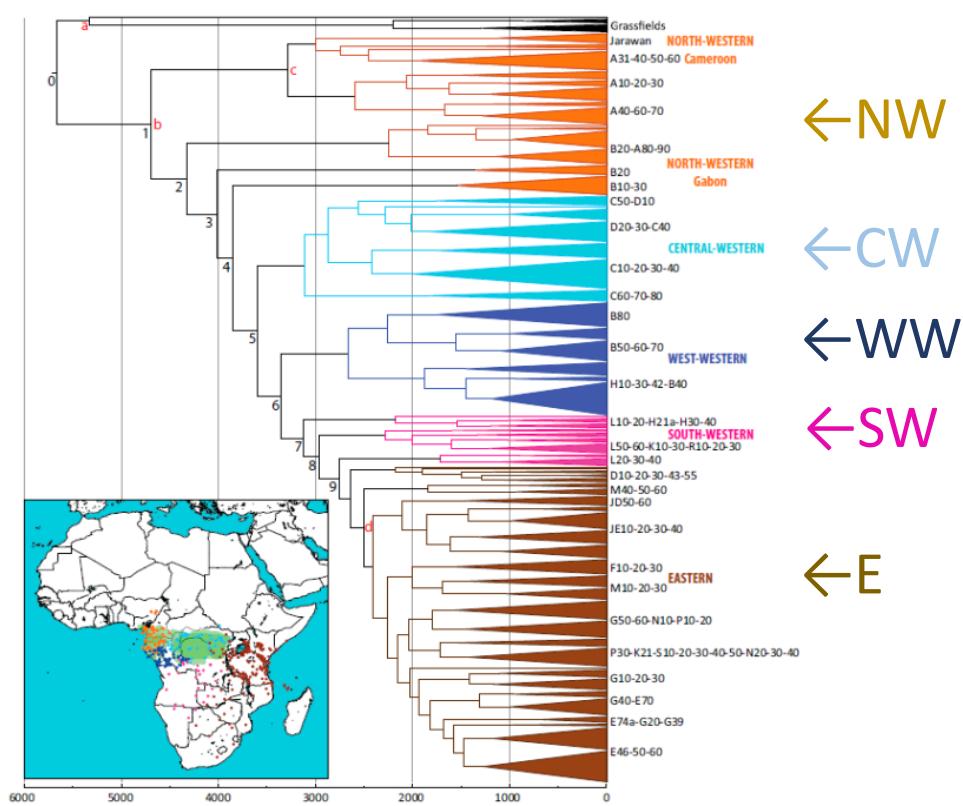


Fig 1. Consensus time tree of $n=424$ Bantu languages

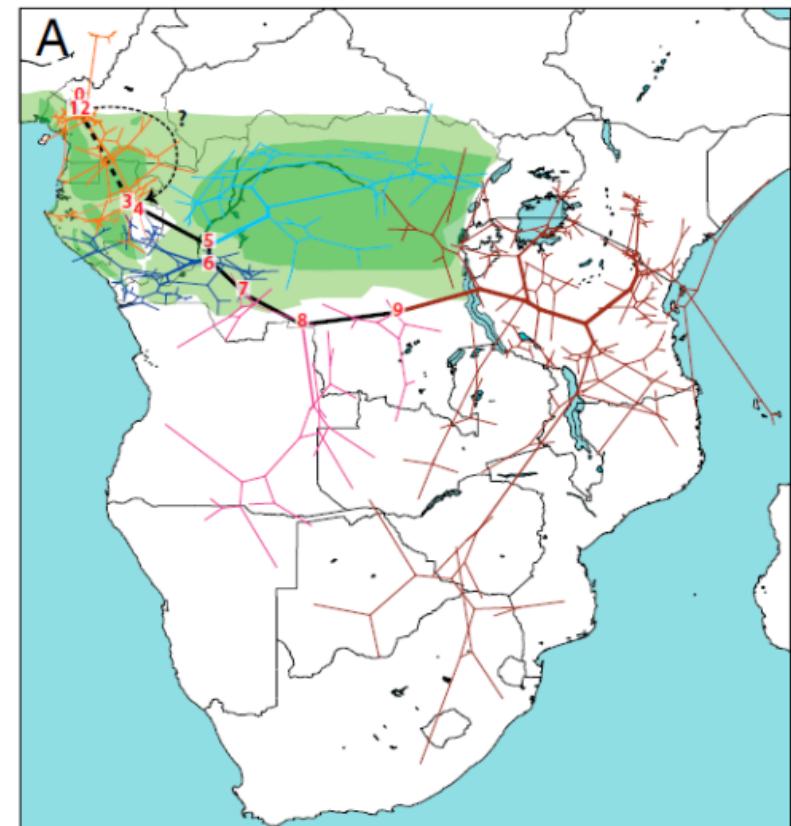
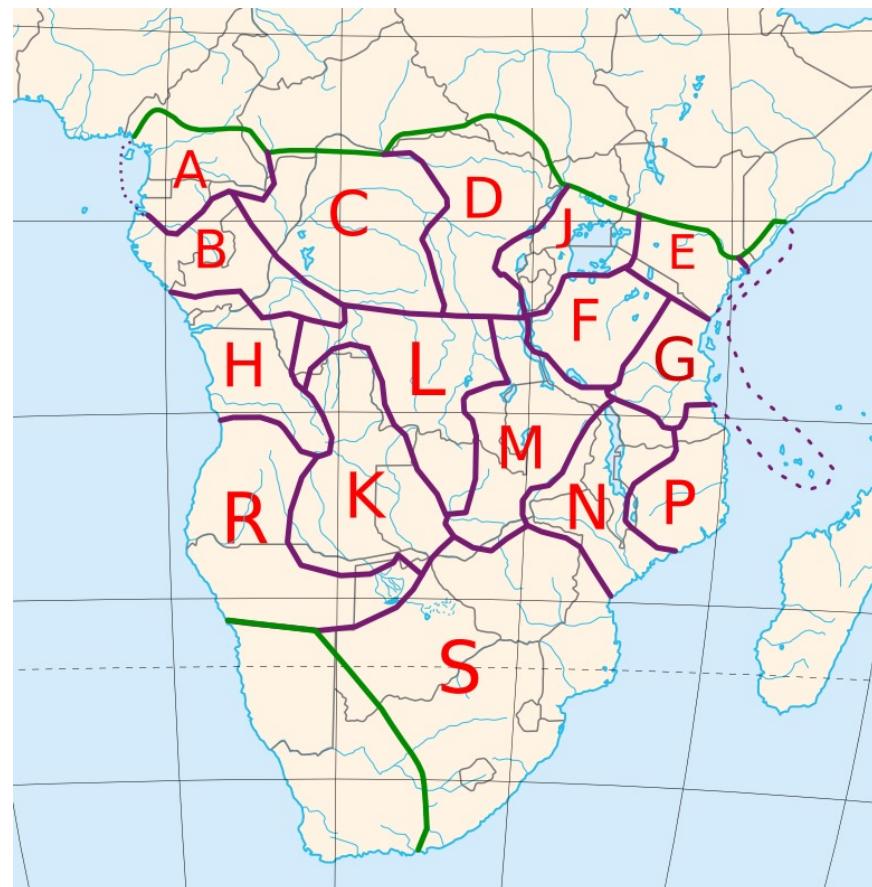


Fig 2. Ancestral migration route reconstructed on the consensus time tree (Fig 1)

1. はじめに：バントゥ諸語とマイクロ類型論

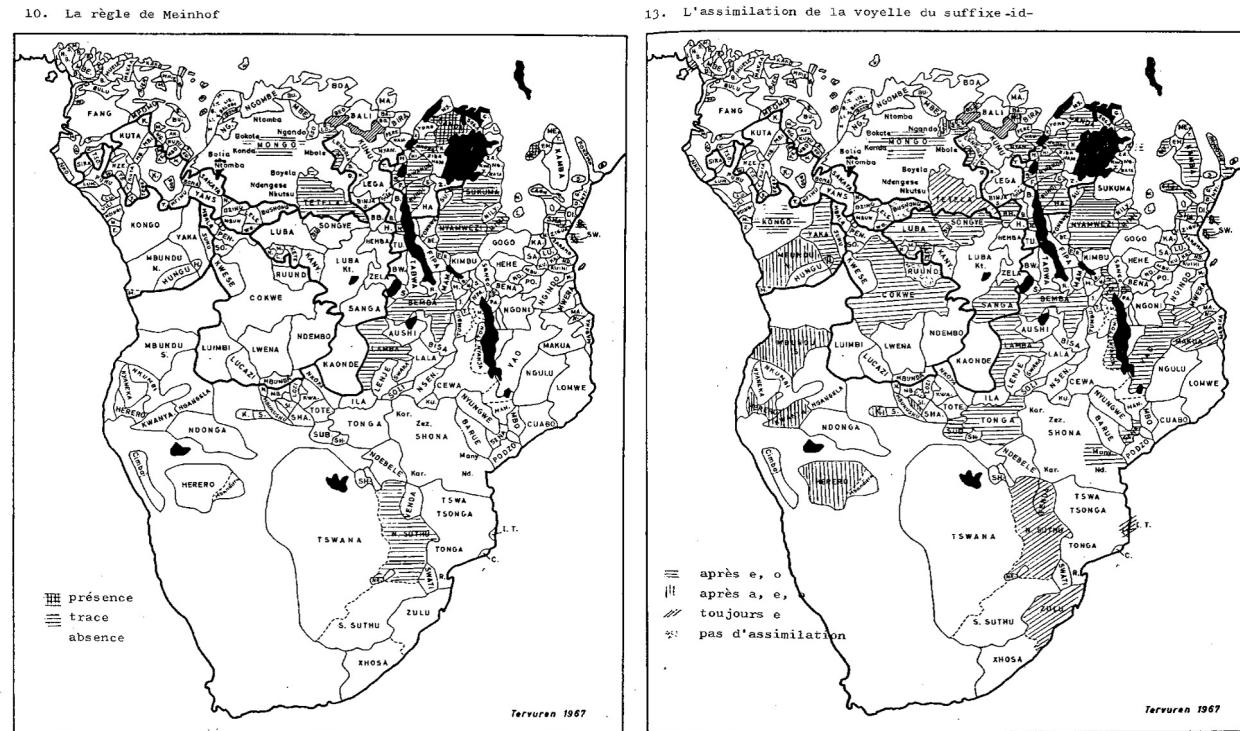
❖ Guthrie code: バントゥ諸語の参照分類コード (Guthrie 1967-71)



Map source: https://commons.wikimedia.org/wiki/File:Bantu_zones.png

2. バントゥ諸語マイクロ類型論：研究史

- ❖ Bastin (1983) “Essai de classification de quatre-vingt langues bantoues par la statistique grammaticale”
 - ★ 52の‘Item-based’な音韻／形態／語彙的パラメター
 - ★ 系統分類研究への貢献を意図



Bastin (1983: 82–85)

2. バントゥ諸語マイクロ類型論：研究史

❖ Marten *et al.* (2007) “Parameters of morphosyntactic variation in Bantu”

- ★ 抽象的な形態統語レベルのメカニズムを反映したパラメター
- ★ 類型論研究への明確な指向性

Table 2. Parameters of the study

<i>Object markers</i>	
1 OM – obj NP	Can the object marker and the lexical object NP co-occur?
2 OM obligatory	Is co-occurrence required in some contexts?
3 OM loc	Are there locative object markers?
4a One OM	Is object marking restricted to one object marker per verb?
4b Restr 2 OM	Are two object markers possible in restricted contexts?
4c Mult OM	Are two or more object markers freely available?
4d Free order	Is the order of multiple object markers structurally free?
<i>Double objects</i>	
5 Sym word-order	Can either object be adjacent to the verb?
6 Sym passive	Can either object become subject under passivisation?
7 Sym OM	Can either object be expressed by an object marker?
<i>Relatives</i>	
8 Agr Rel mark	Does the relative marker agree with the head noun?
9a Res OM obl	Is an object marker required in object relatives?
9b Res OM barred	Is an object marker disallowed in object relatives?
9c Res OM optional	Is an object marker optional in object relatives?
<i>Locative inversion</i>	
10 LI restr	Is locative inversion thematically restricted to intransitives?
11 Full loc SM	Are there three different locative subject markers?
<i>Conjunct agreement</i>	
12 Partial Agr	Is partial agreement with conjoined NPs possible?
<i>Conjoint/disjoint</i>	
13 Conj/disj	Is there a (tonal) distinction between conjoint/disjoint forms?
14 Tone case	Is there a (tonal) distinction of nominal ‘cases’?

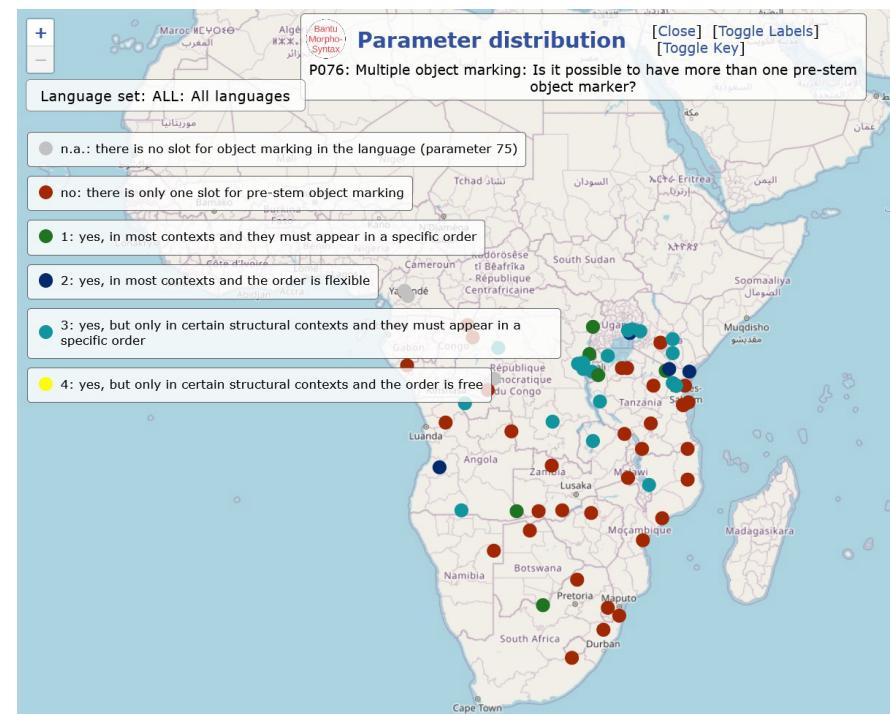
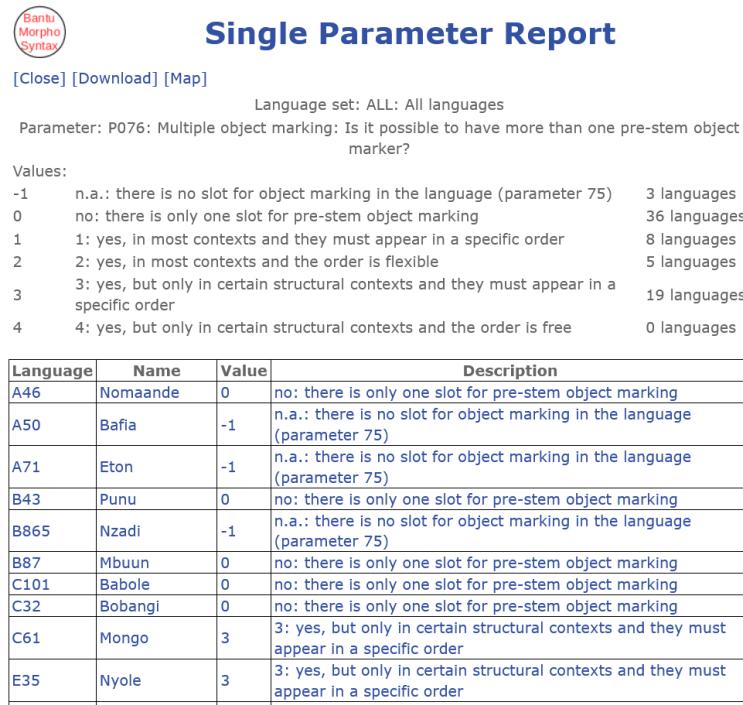
Table 3. Values for ten Bantu languages

	Swah.	Chaga	Ha	Bem.	Chich.	Nseng.	Tswa	Lozi	Swati	Her.
1 OM – obj NP	yes	no	yes yes	no	?	no	yes	no	no	no
2 OM obligatory	yes	yes	?	no	no	?	no	no	no	no
3 OM loc	yes	yes	yes yes	yes	yes	yes	no	no	yes	
4a One OM	yes	no	no no	yes	?	no	yes	yes	yes	
4b Restr 2 OM	no	no	no yes	no	?	no	no	no	no	
4c Multiple OM	no	yes	yes no	no	?	yes	no	no	no	
4d Free order	no	no	no no	no	?	yes	no	no	no	
5 Sym order	no	no	yes no	no	?	yes	no	no	no	
6 Sym passive	no	yes	?	no	no	?	yes	yes	yes	yes
7 Sym OM	no	yes	?	no	no	?	yes	yes	yes	yes
8 Agr Rel mark	yes	?	yes yes	yes	yes	yes	yes	no	yes	
9a Res OM oblig	no	?	no no	yes	no	yes	no	yes	no	
9b Res OM barred	no	?	no yes	no	no	no	yes	no	yes	
9c Res OM poss	yes	?	yes no	no	yes	no	no	no	no	
10 LI restr	yes	yes	?	yes	yes	no	yes	yes	yes	no
11 Full loc SM	yes	no	no yes	yes	yes	no	no	no	yes	
12 Partial agr	yes	?	no no	no	yes	?	?	yes	no	
13 Conj/disj	no	no	yes yes	no	?	yes	?	yes	no	
14 Tone case	no	no	no no	no	?	no	?	no	yes	

2. バントゥ諸語マイクロ類型論：研究史

❖ Marten *et al.* (2018) “Bantu Morphosyntactic Variation Database (BMV)”

- ★ 形態統語領域を網羅的にカバーする142のmicro-parameters (Guérois *et al.* 2017) [1]
- ★ 100以上の言語のデータを集約, inter-parametricな分析が可能に



[1] Guérois, Rozenn, Hannah Gibson, and Lutz Marten. 2017. Parameters of Bantu Morphosyntactic Variation. Available online at <https://zenodo.org/record/3958997#.Y8uXUxPP3Vs>. DOI: 10.5281/zenodo.3958997

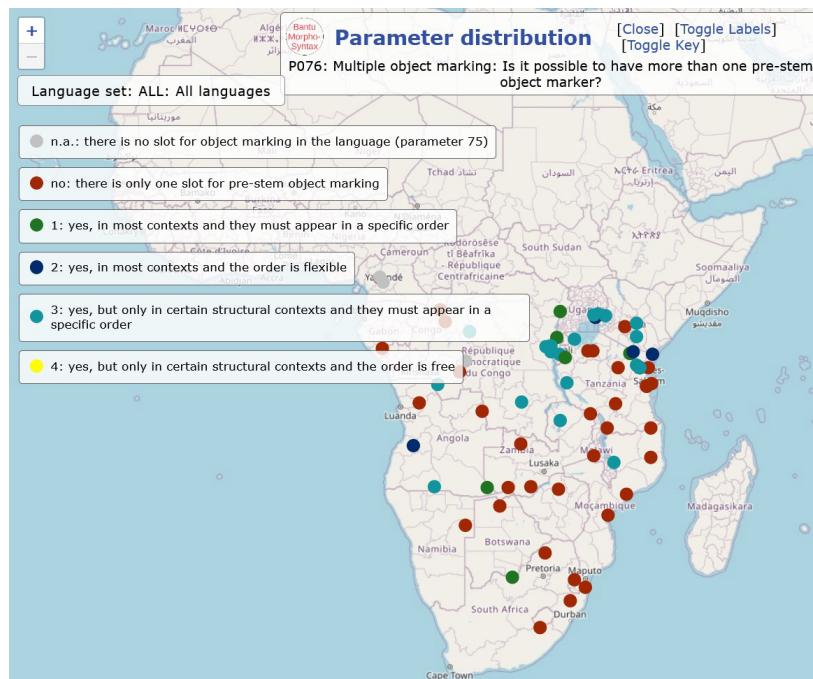
3. BMV (Bantu morphosyntactic variation database)

❖ パラメターの例

P076: Multiple OM: 複数の目的語接辞 (OM) をとることはできるか

Is it possible to have more than one pre-stem object marker?

verb[PreInitial=	Initial-	PostInitial-	Pre-Stem-	Radical	-Extensive	-PreFinal	-Final	=PostFinal]
NEG	Subject agreement	TAM, NEG	Object agreement	Verb Root	Valency	Aspect	Mood	Mood, NEG



value	description	number
n.a.:	スロットなし	[3]
no:	OMは1つのみ	[35]
1:	multiple OM可；環境制約なし；辞順固定	[8]
2:	multiple OM可；環境制約なし；辞順自由	[5]
3:	multiple OM可；環境制約あり；辞順固定	[19]
4:	multiple OM可；環境制約あり；辞順自由	[0]

P076に関する一般傾向

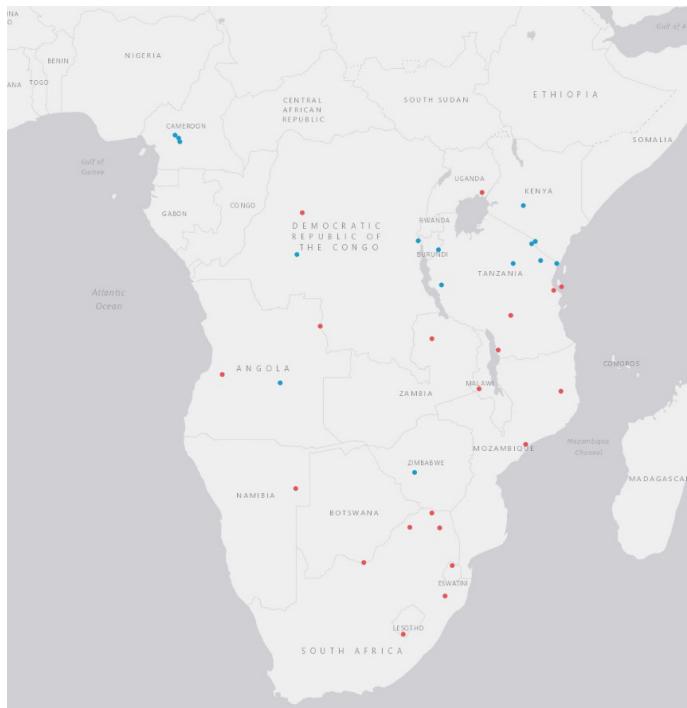
- 多くの言語はOMをひとつしかとらない
- multi-OMは、特定の環境制約の元で許容される言語が比較的多い
- 環境制約があり、かつ辞順が自由であるという言語は（今のところ）確認されていない

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ 形態論的焦点標識 (Morphological focus marker)

P140: フォーカス項は形態論的フォーカスマーカー (MFM) によって標示されうるか

Can a focussed term be marked by a morphological focus marker?



• yes [15]

• no [20]

★ 具体例

Chaga-Mochi [E622A] Philippson and Montlahuc (2003: 490–491)^[1]

a. **jì mísòrò áléwónà**

ji m-soro a-le≠won-a
COP 1-man SM1-PST2≠see-FV
'It's a man he saw (not a woman)'

b. **jálèwónà**

ji=a-le≠won-a
FOC=SM1-PST2≠see-FV 1-man
'He saw a man (that's what he did)'

Kpā? (Bafia) [A53] Guarisma (2003: 333–334)^[2]

a. **c-ó? k-é'é-r̩**

7-forest 7-FOC-be
'It is a forest'

b. **k̩-péñ k-éè k̩ à-á-díí**

7-fufu 7-FOC 7 SM1-IMM-eat;PFV
'It is fufu that he ate.'

★ 地理的分布 (Marten et al. 2018)

北東部 (zones: E, F, JE, etc.) + 北西部 (zones: A, B, etc.)

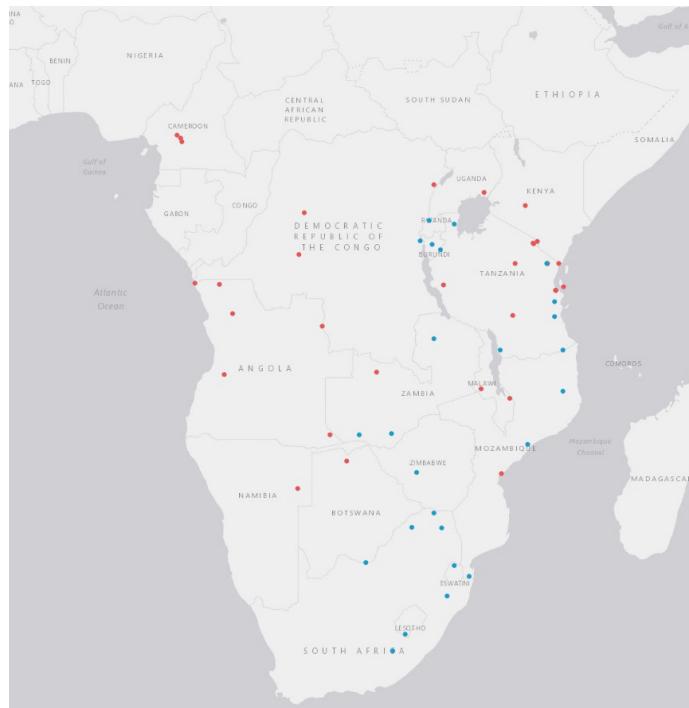
^[1] Philippson, G. and M.-L. Montlahuc. 2003. Kilimanjaro Bantu (E60 and E74), in: Nurse, D. and G. Philippson (eds.) *The Bantu languages*. London: Routledge, pp. 475–500. ^[2] Guarisma, G. Kpā? (A53), in Nurse and Philippson (eds.) pp. 307–334.

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ 共接/離接形 (Conjoint: CJ/Disjoint: DJ form)

P074: CJ/DJ対立を有するか?

Does the language have a conjoint / disjoint distinction?



★ 具体例

統語論+形態論+音調による交替: Bemba [M42] Kula (2017: 271)^[1]

- a. [CJ] **bá-lóóndólòl-à lyòönsè** b. [DJ] **bá-lá-lóóndólól-á**
SM2-explain-FV all the time SM2-PFV.DJ-explain-FV
'They explain all the time' 'They explain'

音調ベースの交替: Tonga [M64] Hyman (2017: 107)^[2]

- a. [CJ] **ndà-ká-[↓]tól-á ḥnyàmà** b. [DJ] **ndà-ká-tòl-à | ḥ-ønyàmà**
'I took MEAT' 'I TOOK meat'

★ 地理的分布 (Van der Wal 2017: 16-17)^[3]

南部 (zones: M, N, P, and S) + ヴィクトリア湖畔 (zones: JD, Gの一部 etc.)

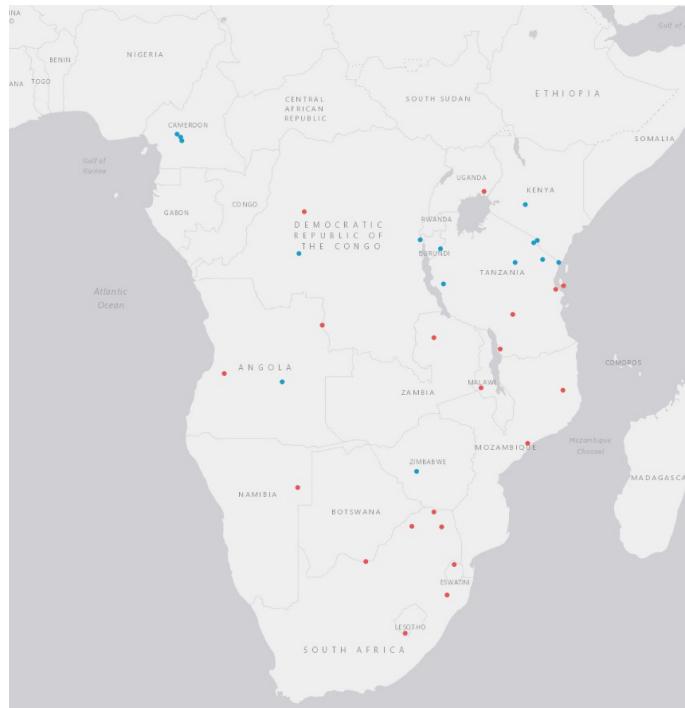
^[1] Kula, N. C. 2017. The conjoin/disjoint alternation and phonological phrasing in Bemba, In Van der Wal, J. and L. Hyman (eds.) *The conjoint/disjoint alternation in Bantu*. Berlin/Boston: Walter de Gruyter, pp. 258–294. ^[2] Hyman, L. 2017. Disentangling conjoint, disjoint, metatony, tone cases, augments, prosody, and focus in Bantu, In Van der Wal and Hyman (eds.) pp. 100–121. ^[3] Van der Wal, J. 2017. What is the conjoint/disjoint alternation? Parameters of crosslinguistic variation, In van der Wal and Hyman (eds.) pp. 14–60.

4. 類型論的一般化の試み – focus markingに関するcovariation

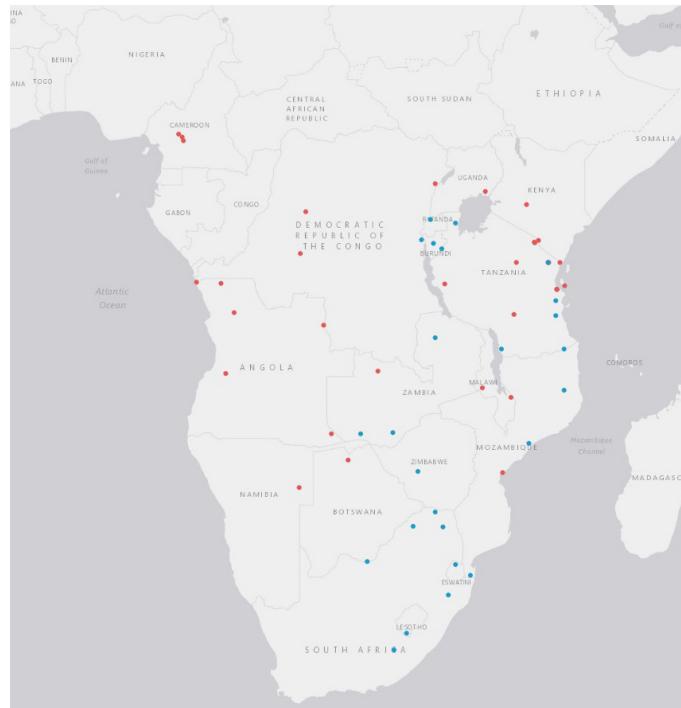
❖ 焦点表示をめぐる構造特性の連動関係と類型論的一般化への示唆

MFMとCJ/DJは概ね相補的に分布 ⇒ 機能的な相同性の反映 (Shinagawa & Marten 2021a)^[1]

P140: 形態的焦点標識 (MFM)



P074: 共接/離接形 (CJ/DJ)



	+ CJ/DJ (25)	- CJ/DJ (34)
+MFM (15)	3 lgs: .231/.214 - Kifuliiru [JD63] ^{*1} - Ha [JD66] ^{*2} - S. Ndebele [S44] ^{*3}	10 lgs: .770/0.526 A50, A601, A71, B865, E622d, E623, E73, F12, F33
- MFM (20)	11 lgs: .550/.786 M42, N13, P31, P34, S21, S31, S32, S33, S42, S43, S53	9 lgs: .450/0.474 C61, G42, G43c, G52, JE15, K11, N31, R11, R31

*1分裂構文の一部?

*2CJ/DJ表示の形態的操作の一部?

*3形態化された分裂構文?



類型論データベースの抱える
「課題」へ

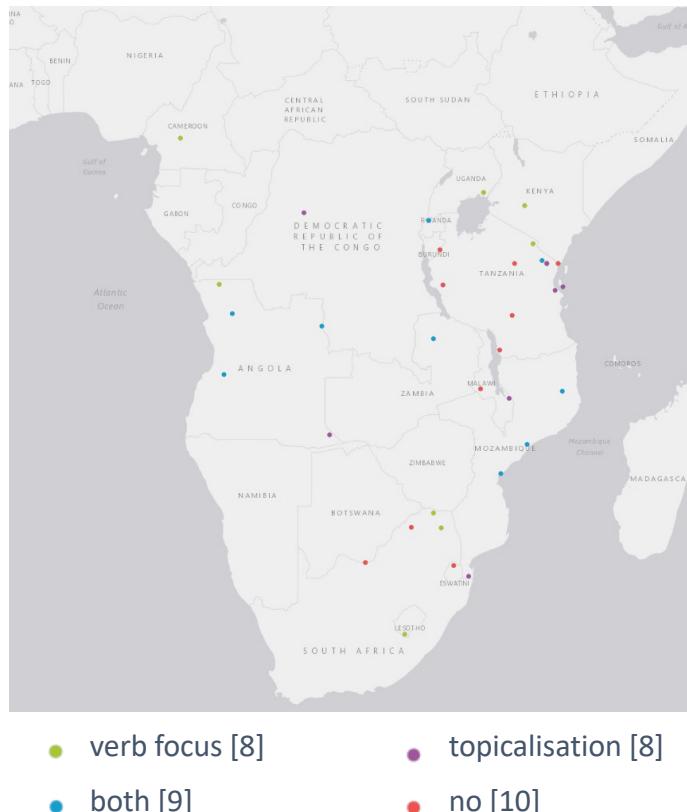
^[1] Shinagawa, D. & L. Marten. 2021. A micro-parametric survey on typological covariation related to focus marking strategies: Based on the Bantu Morphosyntactic Variation database. Paper read at the 10th World Congress of African Linguistics. DOI 10.17605/OSF.IO/Z86PV

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ 動詞反復 (Verb doubling: VD)

P107: (非定動詞が定動詞に先行する) 動詞反復構文はあるか?

Are there verb doubling constructions, where a non-finite verb form (e.g. infinitive, verbal base) appears before an inflected form of the same verb?



★ 具体例

Suundi [H13b] Hadermann (1996: 161) cited in Güldemann (2003)

- a. **ndyèká-tá:ngà** vs. b. **kù-tá:ngà** **ndyèká-tá:ngà**
1SG:FUT-read INF-read 1SG:FUT-read
'je vais lire' 'je vais lire'

★ 地理的分布

VDとCJ/DJの間には顕著に相補的な分布は確認されない

	+ CJ/DJ (25)	- CJ/DJ (33)
+VD (17) *FOC-related	7 lgs: .438/.583 JD61, M42, P31, P34, S21, S33, S53	9 lgs: .563/.643 A601, E51, E622d, H16a-1, H21, JE15, K11, N44, R11
- VD (10)	5 lgs: .500/.417 JD66, N13, S31, S32, S43	5 lgs: .500/.357 E73, F12, F33, G52, N31

MFM-CJ/DJのケースと異なり,
VD-CJ/DJには顕著に相補的な
分布は確認されない (contra.
Güldemann et al. 2014, Morimoto
2017: 171).

→ VDによって表示しうる
フォーカスのタイプが、特定の
predicate-centered focusに
限定されるため？

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ 焦点標示関連パラメターと否定および倒置に関するパラメターとの連動

	NEG particle		Locative inversion				Patient inversion	
	P056=no	P056=1	P122=1	P122=2	P122=3	P122=no	P123=yes	P123=no
number of lgs.	35	8	36	5	9	13	15	37
average	0.547	0.125	0.571	0.079	0.143	0.206	0.288	0.712
CJ/DJ if P074=yes (25)	0.938	0.063	0.412	0.176	0.118	0.235	0.059	0.941
CJ/DJ if P074=no (34)	0.533	0.167	0.652	0.043	0.261	0.261	0.348	0.652
VD if P107=FOC (8)	0.750	0.125	0.333	0.000	0.167	0.667	0.000	1.000
VD if P107=TOP (8)	0.750	0.000	0.714	0.143	0.286	0.000	0.429	0.571
VD if P107=both (9)	0.778	0.000	0.556	0.000	0.111	0.333	0.000	1.000
VD if P107=no (10)	0.700	0.200	0.556	0.111	0.222	0.111	0.111	0.889
MFM if P140=yes (15)	0.533	0.267	0.273	0.000	0.273	0.455	0.091	0.909
MFM if P140=no (20)	0.800	0.050	0.579	0.158	0.158	0.105	0.211	0.789

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ CJ/DJと否定および倒置に関するパラメターとの連動

	NEG particle		Locative inversion				Patient inversion	
	P056=no	P056=1	P122=1	P122=2	P122=3	P122=no	P123=yes	P123=no
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CJ/DJ if P074=yes (25)	0.938	0.063	0.412	0.176	0.118	0.235	0.059	0.941
CJ/DJ if P074=no (34)	0.533	0.167	0.652	0.043	0.261	0.261	0.348	0.652

* CJ/DJ対立を有する言語は、顕著に否定不変化詞を欠く

[+CJ/DJ, -NEG particle]	[+CJ/DJ, +NEG particle]
$0.938 = 15/16$ Kinyarwanda [JD61] Kifulliru [JD63] Ha [JD66] Bemba [M42] Matengo [N13] Makhuwa [P31] Cuwabo [P34] Venda [S21] Tswana [S31] Northern Sotho [S32] Sesotho [S33] Zulu [S42] Swati [S43] Ndebele [S44] Tsonga [S53] Ronga [S54]	$0.063 = 1/16$ Matengo [N13]

* CJ/DJ対立を有する言語は、顕著に被動者倒置を許容しない

[+CJ/DJ, -Patient inversion]	[+CJ/DJ, +Patient inversion]
$0.941 = 16/17$ Kinyarwanda [JD61]? Kifulliru [JD63] Bemba [M42] Matengo [N13] Matuumbi [P13] Makhuwa [P31] Cuwabo [P34] Venda [S21] Tswana [S31] Northern Sotho [S32] Sesotho [S33] Zulu [S42] Swati [S43] Ndebele [S44] Tsonga [S53] Ronga [S54]	$0.059 = 1/17$ Kirundi [JD62]

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ MFMと否定および倒置に関するパラメターとの連動

	NEG particle		Locative inversion				Patient inversion	
	P056=no	P056=1	P122=1	P122=2	P122=3	P122=no	P123=yes	P123=no
number of lgs.	35	8	36	5	9	13	15	37
average	0.547	0.125	0.571	0.079	0.143	0.206	0.288	0.712
MFM if P140=yes (15)	0.533	0.267	0.273	0.000	0.273	0.455	0.091	0.909
MFM if P140=no (20)	0.800	0.050	0.579	0.158	0.158	0.105	0.211	0.789

* MFMを欠く言語は、否定不変化詞を欠く傾向

[- MFM, - NEG]	[- MFM, +NEG (1, 3, 4)]
0.800 = 16/20 Mongo [C61] Swahili [G42] Ganda [JE15] Bemba [M42] Cewa [N31] Makhuwa [P31] Cuwabo [P34] Umbundu [R11] Herero [R31] Venda [S21] Tswana [S31] Northern Sotho [S32] Sesotho [S33] Zulu [S42] Swati [S43] Tsonga [S53]	0.200 = 4/20 Chindamba [G52] Matengo [N13] (depending on tense): Cokwe [K11] Makunduchi [G43c]

* MFMを有する言語は、顕著に被動者倒置を許容しない

[+MFM, – Patient inversion]	[+MFM, +Patient inversion]
0.909 = 10/11 Tuki [A601] Gikuyu [E51] Uru [E622d] Rombo [E623] Digo [E73] Bende [F12] Rangi [F33] Chasu [G22] Kifuliiru [JD63] Ndebele [S44]	0.091 = 1/11 Nzadi [B865]

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ 連動関係を支える論理：MFMとNEG particle

* MFMを欠く言語は、否定不変化詞を欠く傾向

[- MFM, - NEG]	[- MFM, +NEG (1, 3, 4)]
0.800 = 16/20	0.200= 4/20

⇒ 否定不変化詞を安定的に用いる言語 (P056=1) は、MFMを有する (Shinagawa and Marten 2021)

If P056=1 → P140=1

1.000 = 6/6 Nzadi (B865), Uru (E622d), Rombo (E623), Rangi (F33), Manda (N11), and Matengo (N13)

⇒ 否定詞の語彙的資源としての ‘focus enforcer’ e.g., locative (cl.17) pronoun cf. Devos and van der Auwera (2013: 250–251)

Kwezo [L13] Forges (1983: 330)

lo gwâmì
NEG (17.POSS.1SG)NEG
'I have not hidden.'

nga-swěg-á
1SG-hide-PRF

cf. Bembe [H11] Nsayi (1984: 224)

me mua-mǎn-a kuámi
I 1SG.PROX-finish-F 17.POSS.1SG
'As for me, I am finished.'
(i.e., the others haven't finished yet)

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ 連動関係を支える論理：CJ/DJとPre-Initial negation

* CJ/DJ対立を有する言語は、顕著に否定不変化詞を欠く

[+CJ/DJ, -NEG particle]	[+CJ/DJ, +NEG particle]
0.938 = 15/16	0.063 = 1/16

⇒ CJ/DJ対立を有する言語は、動詞内で否定標示を行う傾向

⇒ 主節否定の動詞内否定形式として顕著に用いられる傾向が高いのはPre-Initial marker

Swahili [G42]

- a. **ha-wa-ta-on-a** ‘They will not see’ vs. b. **wa-si-o-on-a** ‘(They) who do not see’
NEG-SM2-FUT-see-FV SM2-NEG-R2-see-FV

⇒ Pre-Initial markerは‘Focused negation’として発達 (Güldemann 1999: 570–576)

⇒ 多くのCJ/DJ型言語では否定環境ではその対立が中和され、もっぱらDJ形 ≈ 動詞フォーカス形が否定動詞として用いられる傾向 (Van der Wal 2017: 35)^[1]

Makhuwa [P31] Van der Wal (2009: 219)

- a. [CJ] **O-hi-ń-thúma esheeni?** ‘What doesn’t he buy?’ vs. b. [DJ] **Kha-ń-thúma.** ‘He doesn’t buy (it.)’
SM1-NEG-PRES-buy.CJ 9.what NEG.SM1-PRES-buy.DJ

[1] “In Makhuwa there are two negative paradigms for the alternating tenses, of which the CJ form is not used often – the DJ form is the regular negative form” (Van der Wal 2017: 35)

4. 類型論的一般化の試み – focus markingに関するcovariation

❖ 連動関係を支える論理：focus markingと倒置構文

場所名詞句倒置 (Locative inversion): Swahili [G42]

simba amalala **msituni** 「ライオンが森で寝ている」

msituni kumelala simba 「森ではライオンが寝ている」

		Locative inversion				Patient inversion	
		P122=1	P122=2	P122=3	P122=no	P123=yes	P123=no
number of lgs.		36	5	9	13	15	37
average		0.571	0.079	0.143	0.206	0.288	0.712
CJ/DJ	if P074=yes (25)	0.412	0.176	0.118	0.235	0.059	0.941
CJ/DJ	if P074=no (34)	0.652	0.043	0.261	0.261	0.348	0.652

P074:P122-1
p-value = 1

P074:P122-2
p-value = 0.7004

P074:P123
p-value = **0.0281**

	P122 =1+2+3	P122 =no
P074=yes	13	4
P074=no	22	6

	P122 =1+3	P122 =no
P074=yes	9	4
P074=no	21	6

	P123 =yes	P123 =no
P074=yes	1	16
P074=no	9	15

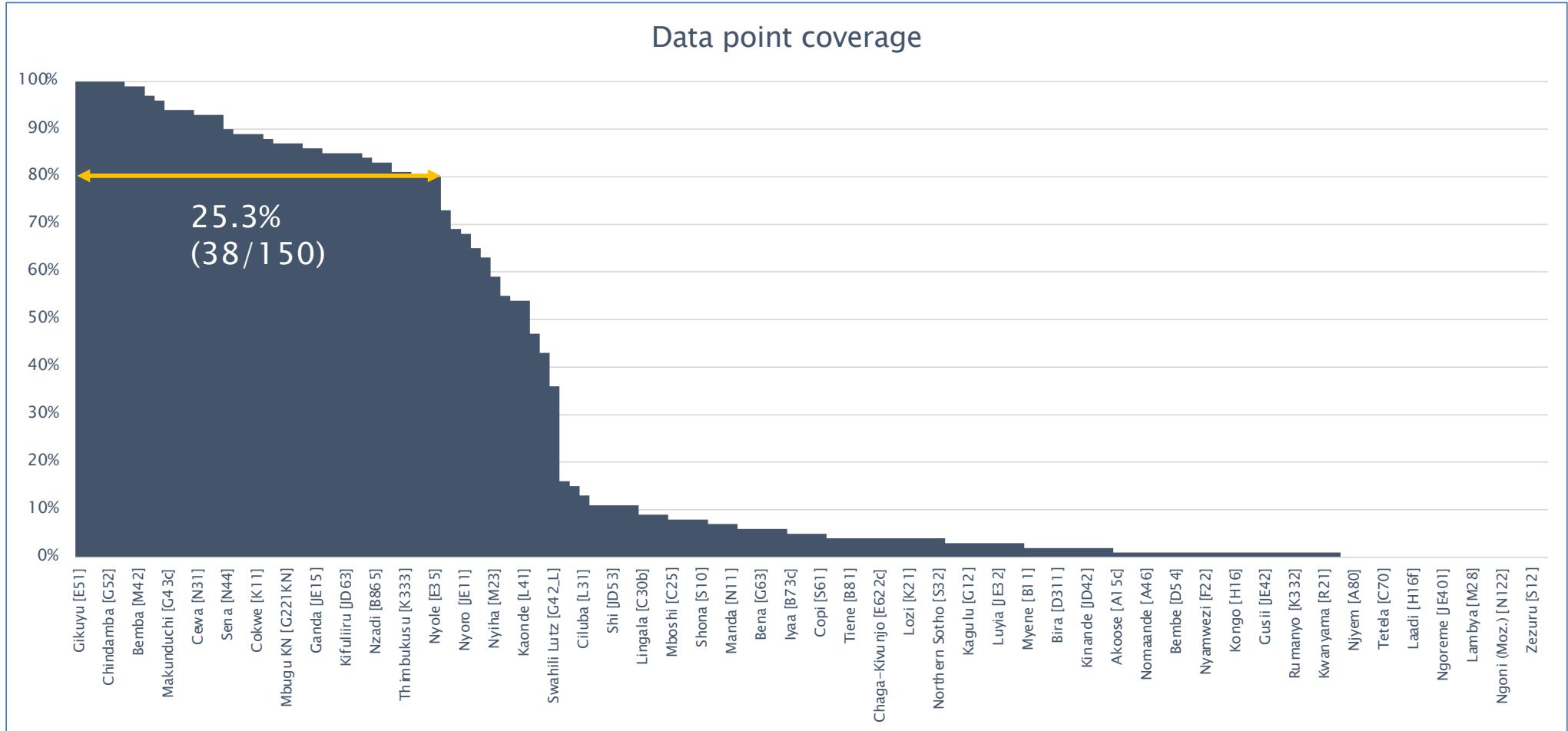
動詞の側で焦点表示に
関与的なストラテジーを
有する言語 (P074=yes) は、
有意に被動者倒置構文を
許容しない (P123=no)

フィッシャーの正確確率
検定による検証結果。
P074: P123が統計的有意
であるのに対し, P074:
P122に有意差はない

主題化 (topicalization) ストラテジーとして見做される傾向にある倒置構文だが、バントゥ諸語類型論における被動者倒置についてはむしろ積極的な焦点表示 (focus marking) ストラテジーと解釈できる可能性 (Shinagawa and Marten 2021a, Van der Wal 2022)

5. 課題と展望

❖ データの量的拡充



5. 課題と展望

- ❖ データの量的拡充
- ❖ データの質的検証 (validation)：データ自体 + パラメター解釈の妥当性のチェック



Welcome to WALS Online

The World Atlas of Language Structures (WALS) is a large database of structural (phonological, grammatical, lexical) properties of languages gathered from descriptive materials (such as reference grammars) by a team of 55 authors.

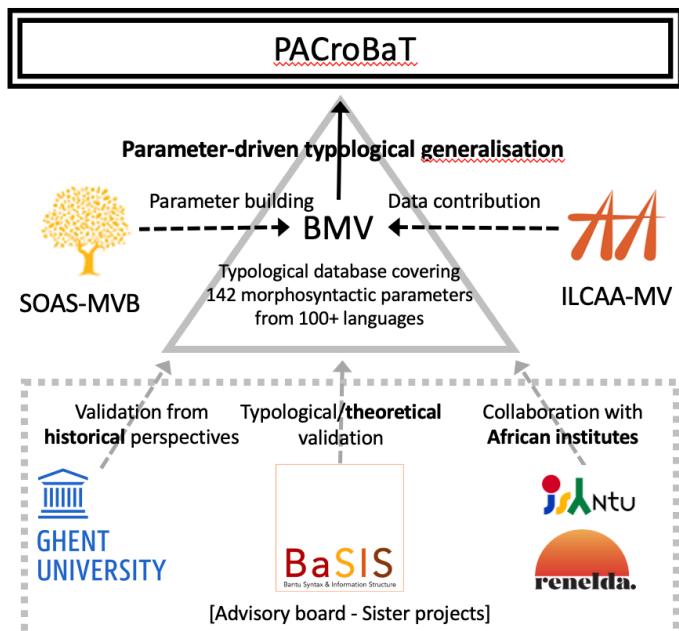
The first version of WALS was published as a book with CD-ROM in 2005 by Oxford University Press. The first online version was published in April 2008.

The 2013 edition of WALS corrects a number of coding errors especially in Chapters 1 and 3. A full list of changes is available [here](#).

Starting with the 2013 edition of WALS, we will release and publish sets of corrections periodically. Thus, any citation of WALS Online 2013 should include the particular version, as listed on [Zenodo](#).

5. 課題と展望

- ❖ データの量的拡充
- ❖ データの質的検証 (validation) : データ自体 + パラメター解釈の妥当性のチェック
- ❖ reductionist vs. scenario-based approaches (Van de Velde, to appear)
- ❖ correlation/covariationの質的検証: その関係はcausalか?
- ❖ 統計的手法の洗練



- ❖ parameter-driven micro-typologyの国際的研究体制の構築
 - ⇒ 國際的な共同研究体制のもとで、歴史言語学および理論言語学的な視点からの批判的検討を繰り返しつつ、データの量的拡充、質的検証を進めることでより精度の高い類型論的一般化へ
- ❖ データの拡充、検証のみならず、より有効なパラメター設計についての議論も必要
 - ⇒ 記述研究と類型論研究のより有意義な協働へ

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