How word order does (not) change: Warlpiri flexible word order and contact with English

universität freiburg



I gratefully acknowledge the Warlpiri people who provided the material used in this presentation. I acknowledge that the Warlpiri data was recorded on Warlpiri and Gurindji land and I pay my respects to their elders past and present.



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Starting point

Flexible word order common in Australian languages, but:

- 1. Governing principles not understood in all detail and
- 2. Effects of contact with English unclear

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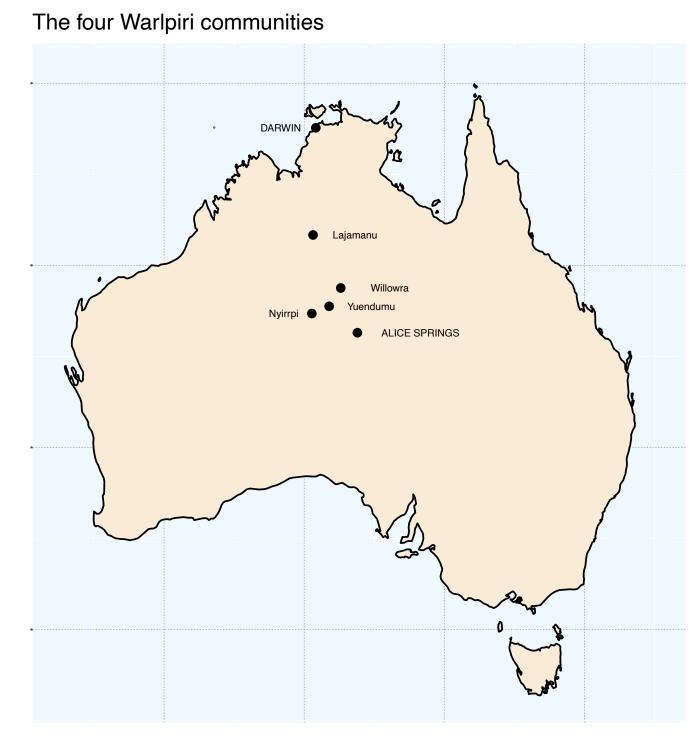
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Under-documentation, no long written tradition, and conflicting evidence (e.g. Langlois 2004, Wilmoth et al. 2022 for Pitjantjatjara)

The solution: Warlpiri!

• One of the best-documented Australian languages (e.g. Hale 1983; Nash 1980; Simpson 1983; Swartz 1991; O'Shannessy 2006)



- First documentation with (available) audio recordings in the 1960s (Hale 1966-1967a, b)
- Previous studies point to language change, but no recent studies across all communities (Bavin & Shopen 1985, O'Shannessy 2006)

Corpus-based analysis of spoken narratives:

- 1. Has word order changed in the last decades?
 - = Towards a more stable word order and SVO
- 2. What variables influence word order and have they changed?

Background

Warlpiri & Flexible word order

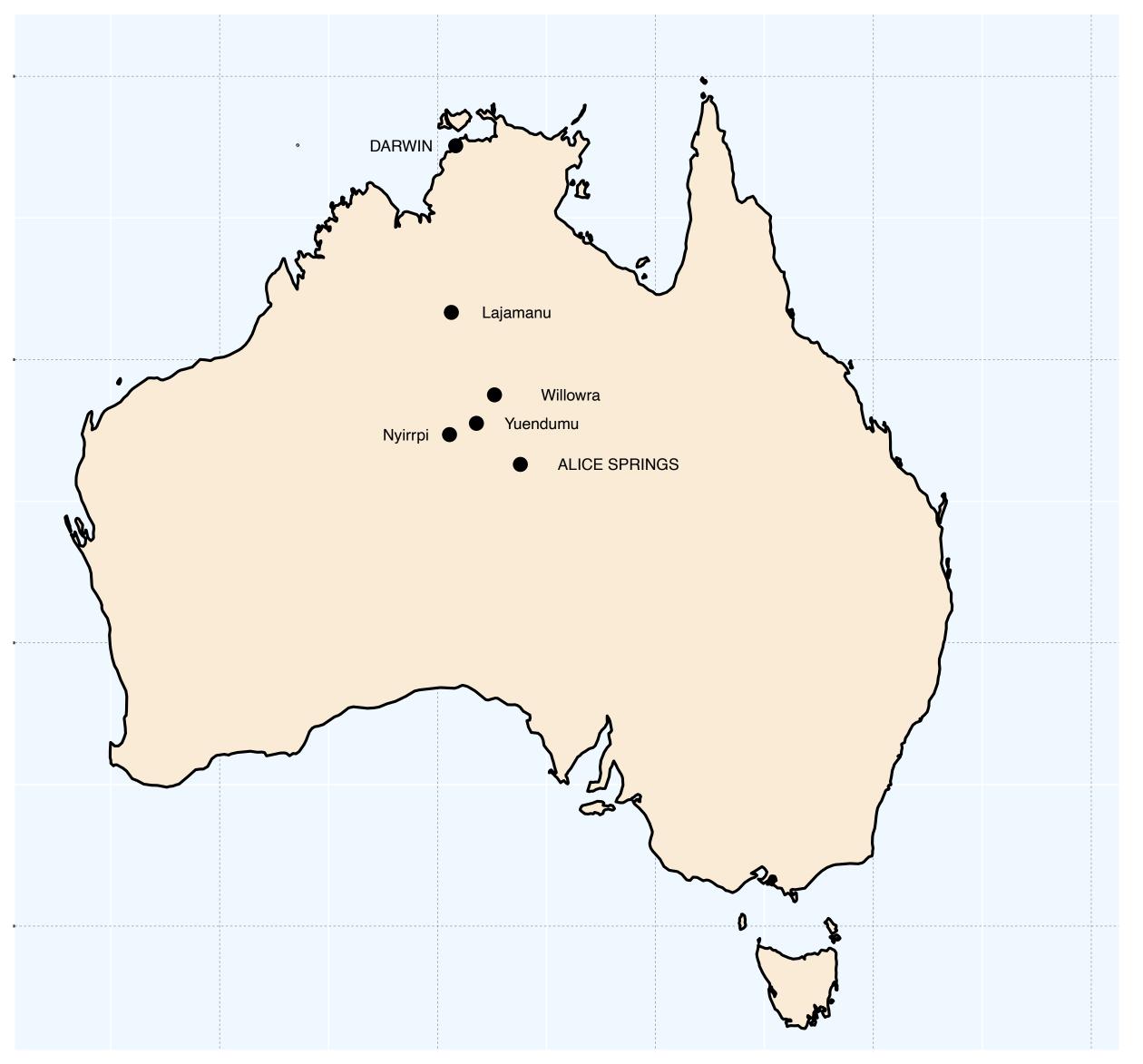


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Warlpiri

- Spoken by about 2,592 speakers
 (2021 ABS Census) in Central Australia
- Four major communities: Lajamanu, Willowra, Nyirrpi, Yuendumu

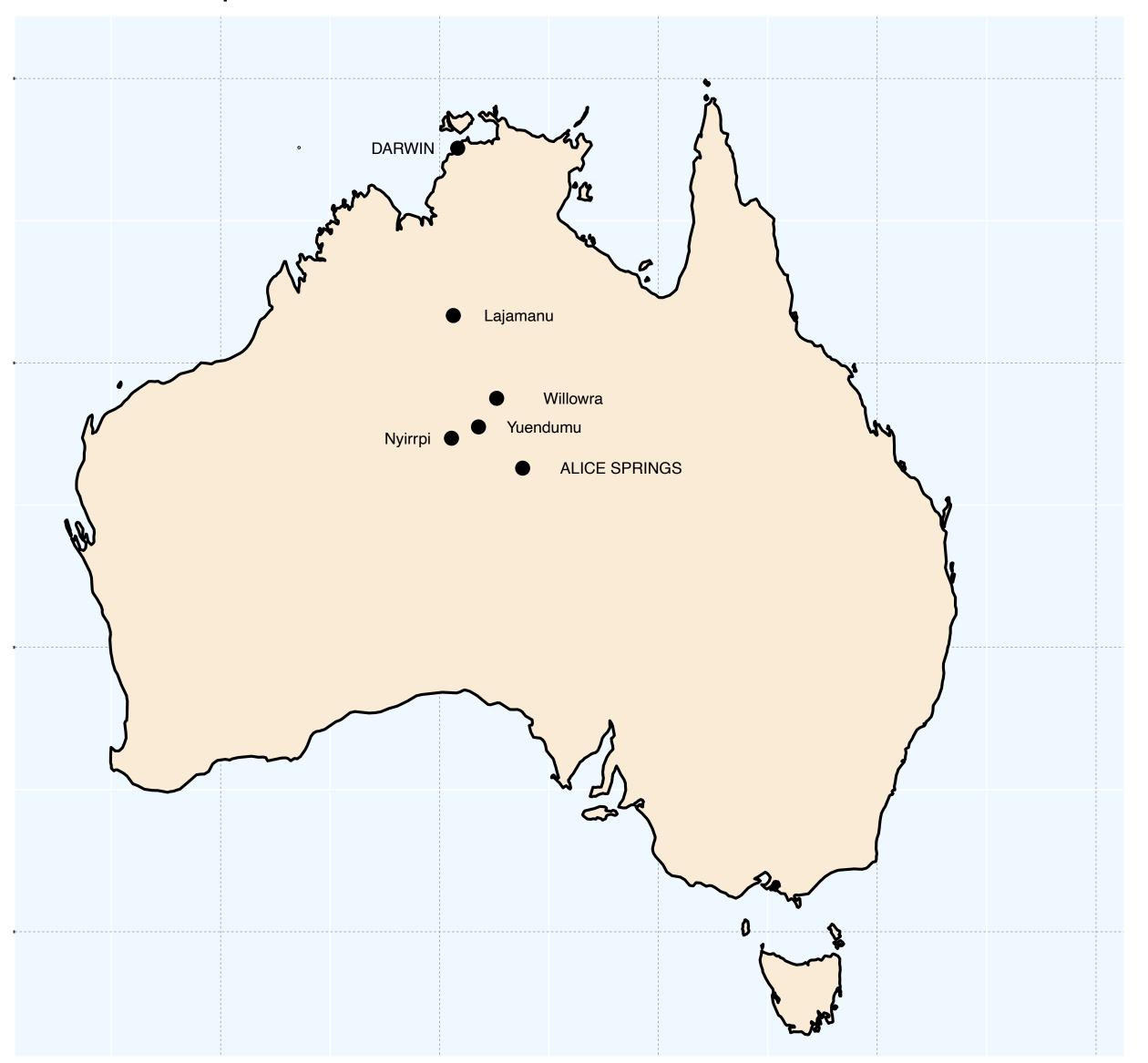
The four Warlpiri communities



Warlpiri

- Increasing contact with English from 1880s, particularly from 1940s
- Language change in various areas, incl. the emergence of Light Warlpiri in Lajamanu (O'Shannessy 2006)
- Multilingual: Warlpiri, Light Warlpiri, Kriol, Aboriginal Australian English, Standard Australian English, neighboring languages

The four Warlpiri communities



Famously flexible word order: VS or SV

(1) jarnku =pala ya-nu yapa jirrama separately AUX.3DL.SBJ go-PST person two

'Two people went separately.' (2.19-056; Hale 1966-1967a)

(2) ngarrkangkarla = lpa = lu ya-nu big.group.of.people AUX.PST.IMPF AUX.3PL.SBJ go-PST

'The big group of people went.' (2.19-113; Hale 1966-1967a)

Famously flexible word order: VO or OV

(3) yinya ka =lu karnta-ngku karla miyi-pardu yarla this AUX.PRS =AUX.3PL.SBJ woman-ERG dig.NPST vegetable-little yam

'Over there, the women are digging up the yams.' (2.19-066-7; Hale 1966-67a)

(4) kapi miyi yarla warru karla AUX.FUT vegetable yam around dig.NPST

'(We) will dig up yams all around.' (2.19-014; Hale 1966-1967a)

Even more complex because of discontinuous nominal expressions:

```
(5) kurdu jinta ka ya-ni-rni karnta
child.ABS one.ABS AUX.PRS go-NPST-here woman.ABS
```

'One girl goes.' (ywa02-034; O'Shannessy 2022)

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> Linked by the same case-marking

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- > Functional, but not syntactic unit ("nominal expression", must be same IU)
- > Subject-Verb-Subject order

Context, world knowledge and semantic properties determine function: (Simpson 2005)

```
(6) murnma = lu youngfella paka-rnu ngaju-ku father
before AUX.3PL.SBJ young.fella.ABS kill-NPST 1SG-DAT father.ABS
```

Before, (they) killed my father as a young fella.' (j17-011; Ross 2009) (vs. 'Before, (they) killed my young father.')

Evidence for influence from information structure

(O'Shannessy 2006, 2016; Swartz 1991; Hale et al. 1995; Hale 1992, Simpson 2006)

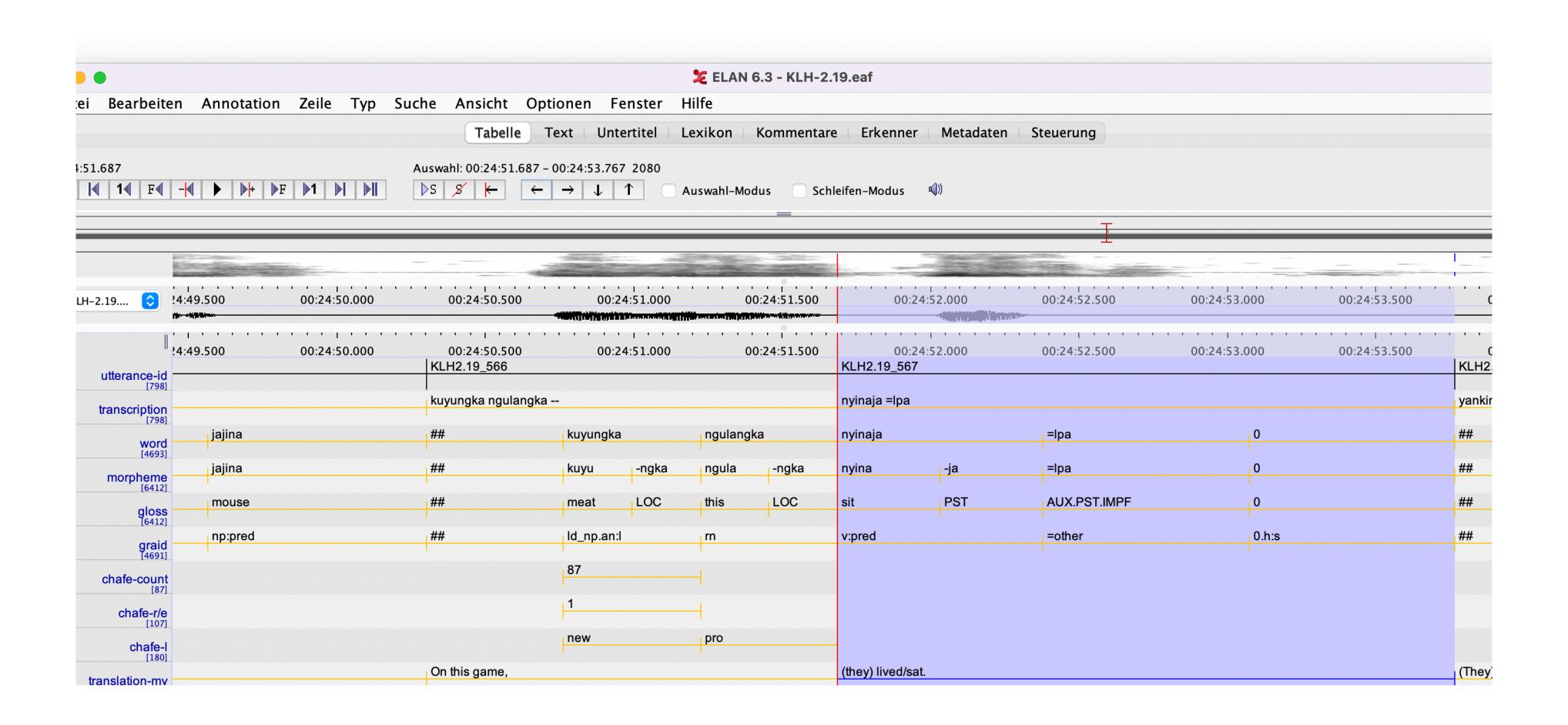
But: "[w]e are a long way from a full understanding of information structure possibilities in Warlpiri, and much of what I have written here is tentative and requires serious investigation of the Warlpiri corpus" (Simpson 2006: 512)

Corpus-based analysis of spoken narratives:

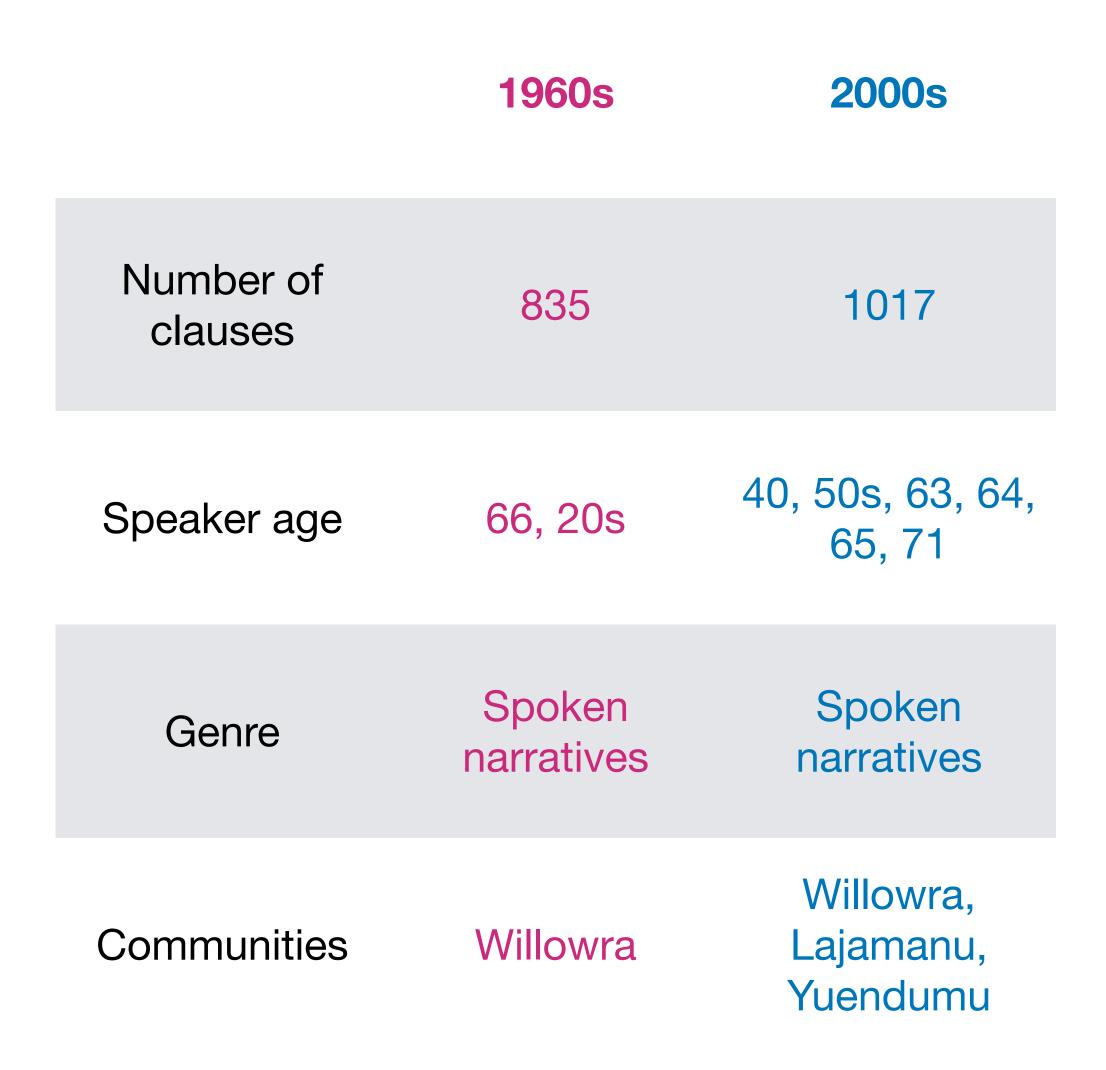
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Background

Corpus



- Datasets: from 1960s and 2000s
- 1852 clauses
- Genre: spoken narratives
- No fieldwork possible due to COVID-19, use of existing data: Daniels 2009; Hale 1966-1967a, b; Morton 2009a-e; Nelson 2009; O'Shannessy 2004a-e, 2022; Presley 2009; Ross 2009



Older recordings:

- Plant descriptions
- Traditional stories/old way of life

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Newer recordings:

- Picturebook stories
- Traditional stories

- Segmented into intonation units
- Translated, glossed
- Annotated with GRAID (Haig & Schnell 2014), reference tracking (Schiborr et al. 2018), and other annotation schemes

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(7)	kurdu	jinta	ka	ya-ni-rni	karnta
	child	one	AUX.PRS	go-NPST-here	woman
	np.h:s	rn_s	aux	v:pred	ne_dc_rn_s

^{&#}x27;One girl goes.' (Ywa02-034; O'Shannessy 2022)

```
(7) kurdujintakaya-ni-rnikarntachildoneAUX.PRSgo-NPST-here womannp.h:srn_sauxv:predne_dc_rn_s
```

```
np = nominal
h = human
s = intransitive subject
```

	np.h:s	rn_s	aux	v:pred	ne_dc_rn_s
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aux = auxiliary

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```
v = verb
pred = predicate
```

	np.h:s	rn_s	aux	v:pred	ne_dc_rn_s
	child	one	AUX.PRS	go-NPST-here	woman
(7)	kurdu	jinta	ka	ya-ni-rni	karnta

ne = nominal expression (vs. secondary predicate, right/left dislocation, etc.) dc_rn = non-adjacent element to the right side of nominal s = intransitive subject

	np.h:s	rn_s	aux	v:pred	ne_dc_rn_s
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Includes option for ambiguity!

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- Encompass detailed analysis
- Can capture complex picture
- Can be used in future studies for other research questions

^{&#}x27;One girl goes.' (Ywa02-034; O'Shannessy 2022)

Thesis

Variables included in the analysis:

- Referential givenness/newness
- Animacy
- Lexicality
- Transitivity
- Antecedent distance
- Heaviness of nominal expression (how many words/morphemes)
- Speaker age

- 'Topicality' (such as frequency of referent per narrative/in last clauses)
- English loanwords
- Existence of case marking
- Word(s)-/speaker-/community-/ genre-specific tendency for a word order
- Priming: word order of the previous clause
- "idea" tracking
- Contrastiveness

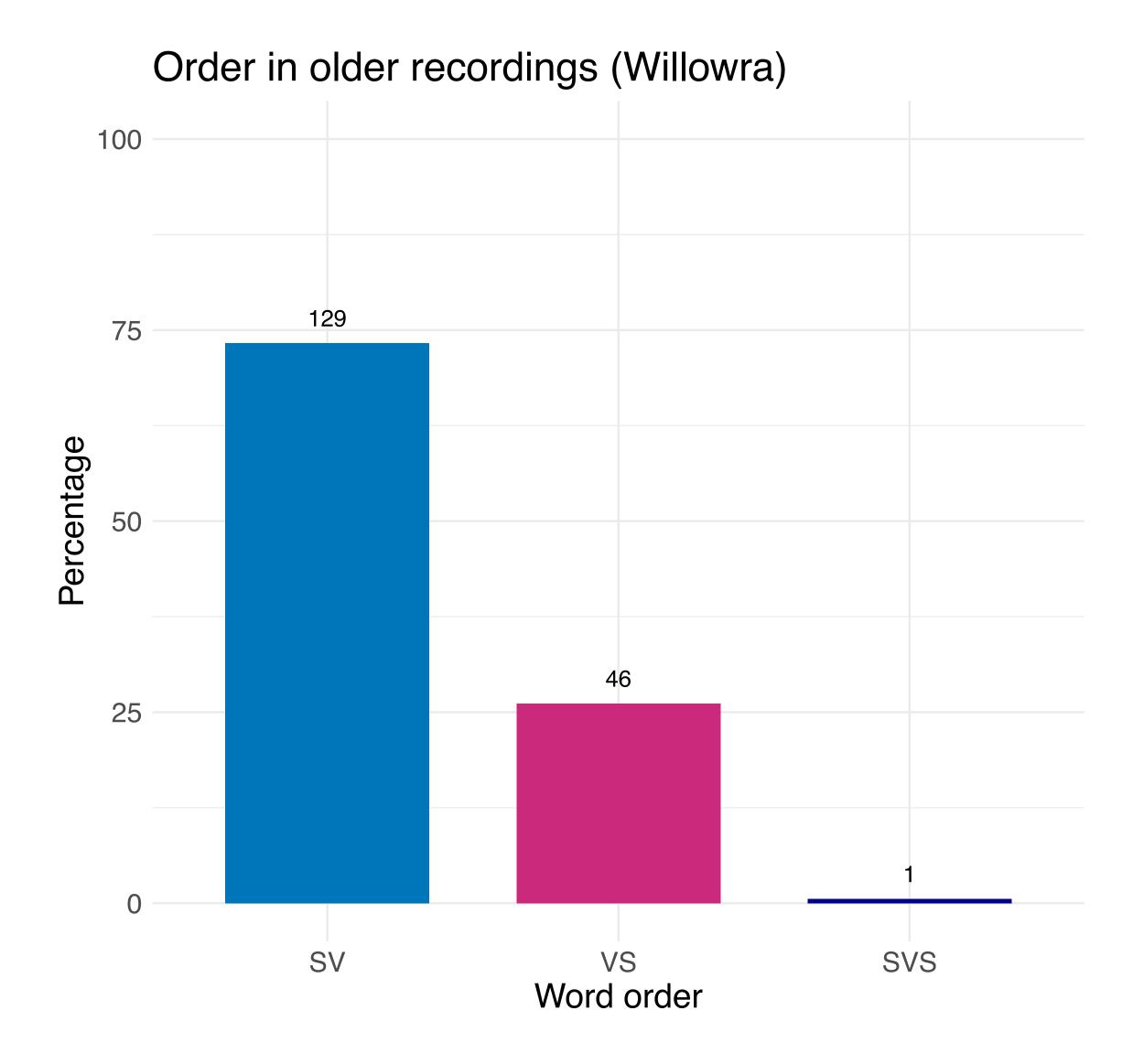
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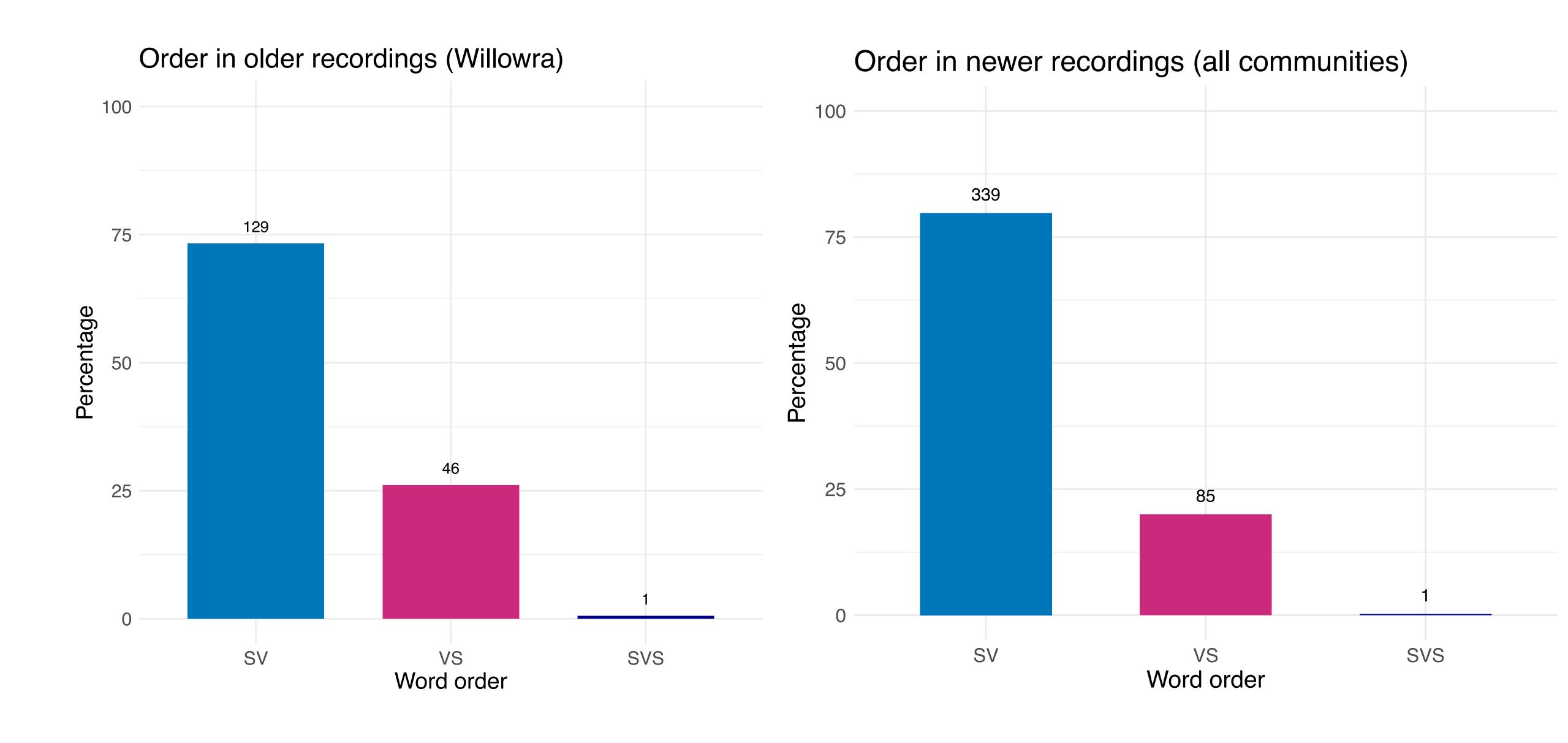
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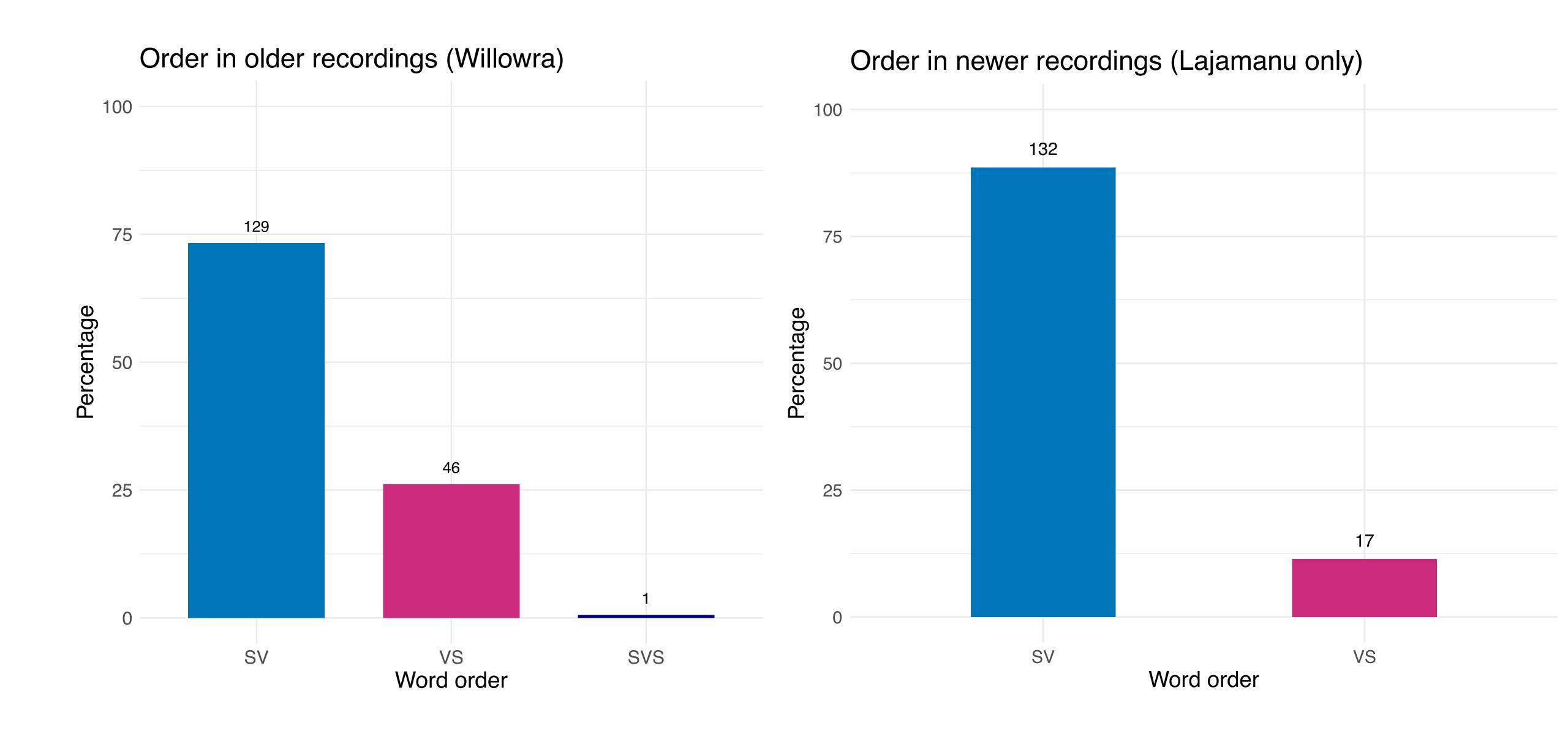
Order of subject and verb



Picture of Warlpiri speaker Sam Japangardi, taken by David Nash.





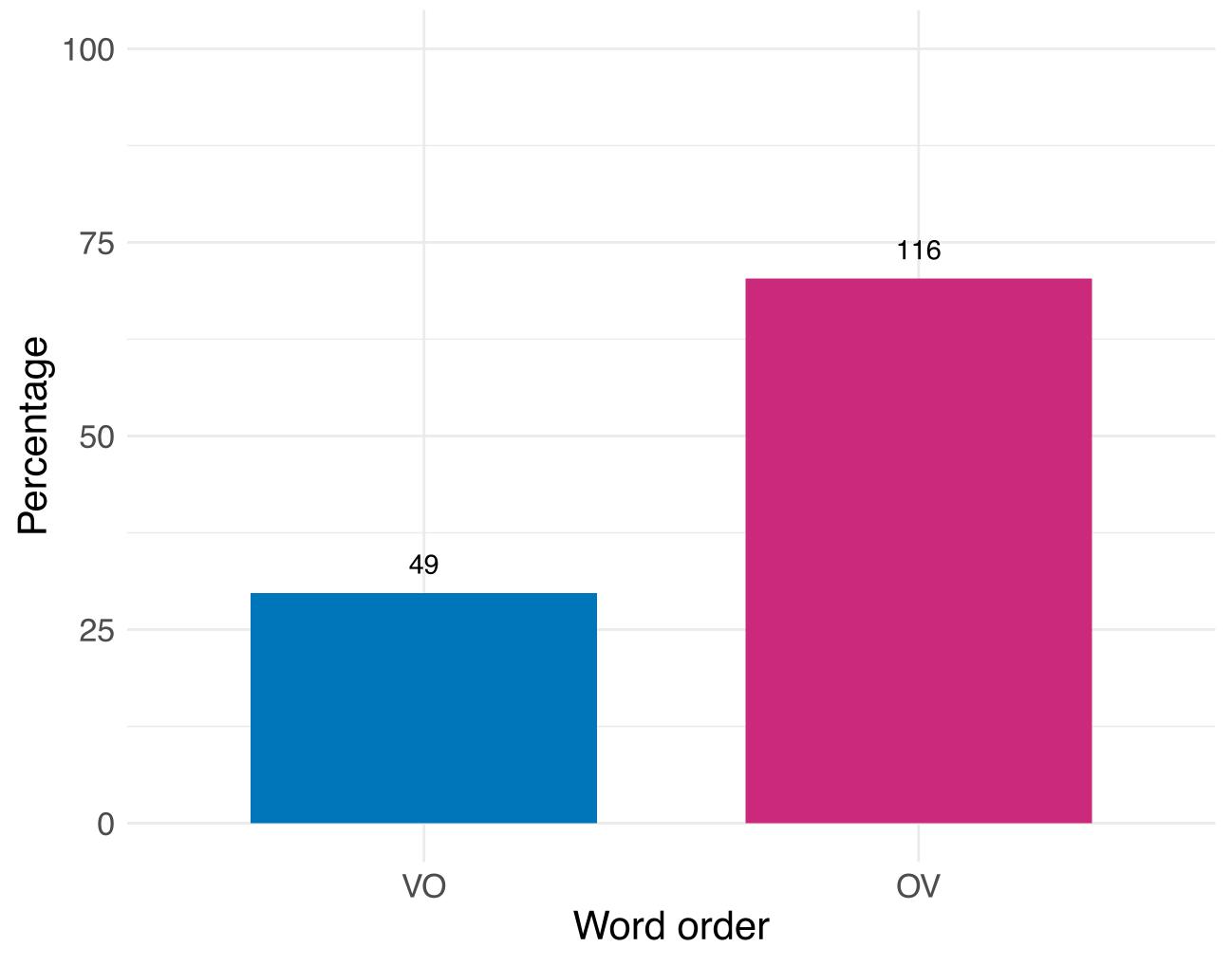


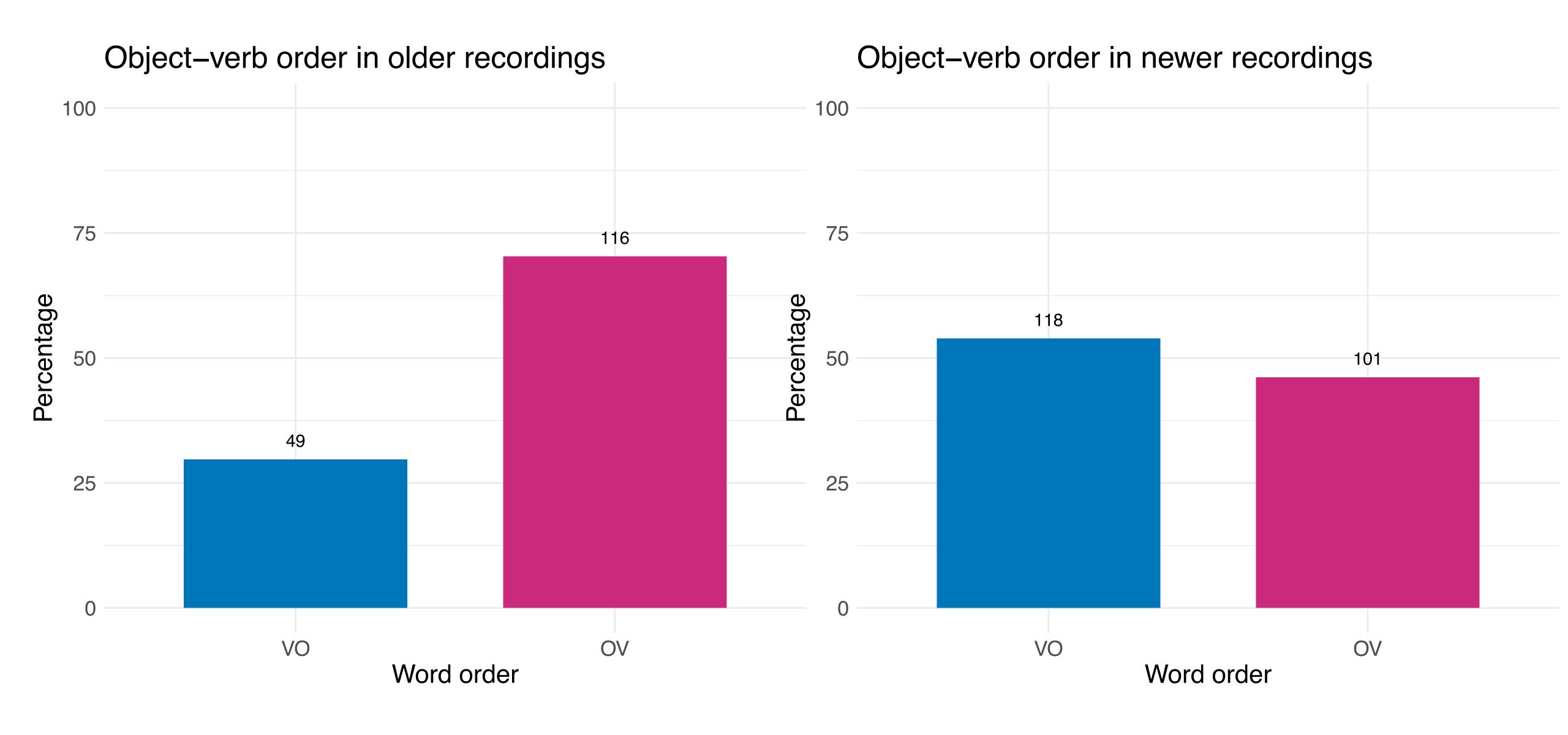
Order of object and verb

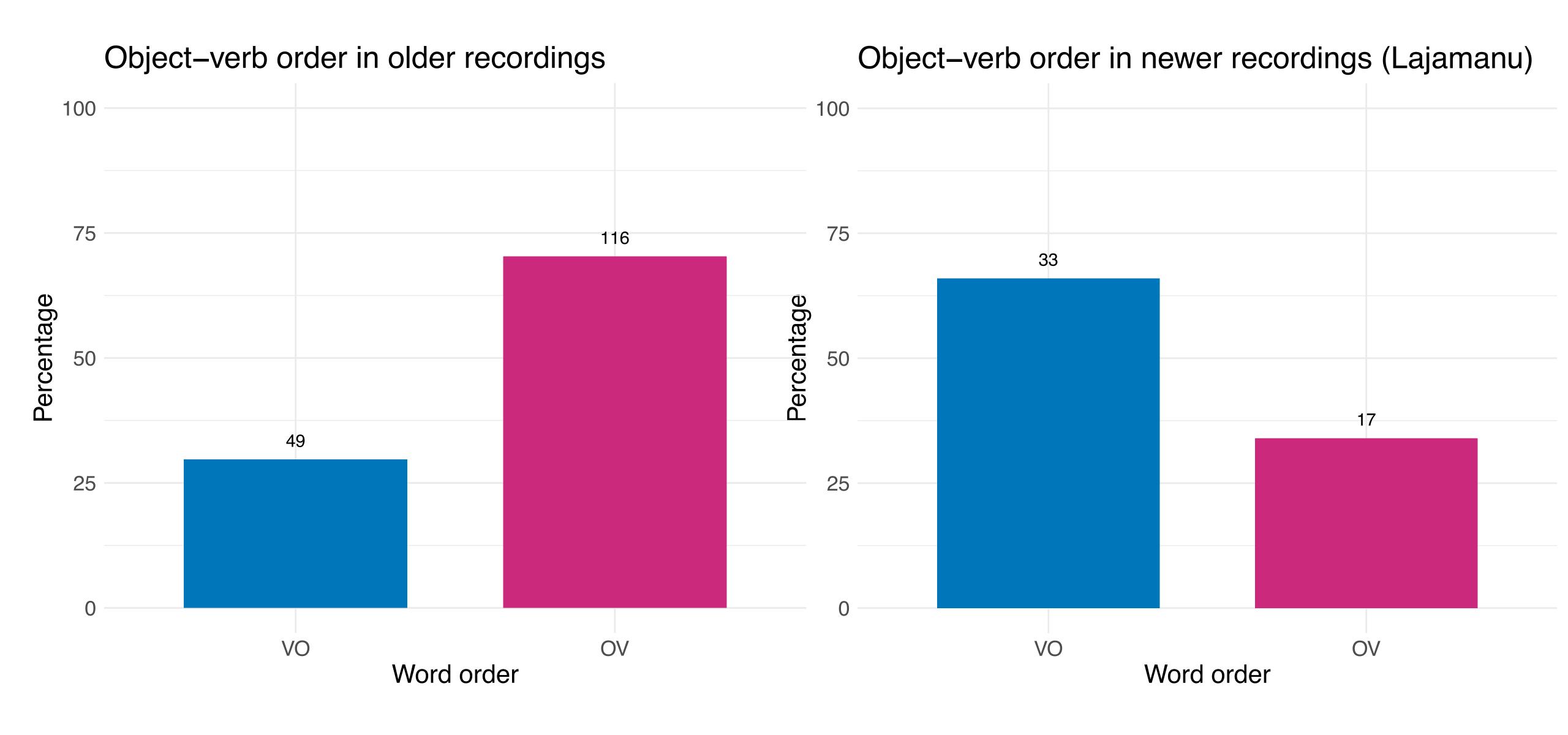


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Object-verb order in older recordings







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Why referential givenness/newness?

- Suggested as a relevant and relatively straightforward variable in literature (e.g. Swartz 1991; Simpson 2006)
- Preliminary statistical modeling suggests statistical significance for most datasets
- But: complex picture!

Limitation

- In this talk just given/new/bridging without antecedent distance
- In this talk just order of verb and subject (but note Simpson 2006)

Reference tracking

Each referent receives their own unique number. First mentions also receive the tag new, bridging (inferable) or unused (e.g. the sun), based on Schiborr et al. (2018).

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New

While playing around, (they) continue to eat, (they) go along killing (meat) still towards the camp. (063) (The game) is still in an uncooked form, then. (064) (They) carry the meat here again. (065)

Over there, (066) the women dig for bush potatoes. (067)

(8)	kapi	ngurlu-pardu	ka	=lu	0	yurrpa-rni
	and	seeds-little	AUX.PRS	=AUX.3PL.SBJ	0	grind-NPST
		035			033	
		new				

'(They) are grinding little seeds.' (2.19-068; Hale 1966-67a)

Bridging

Inferable referent (e.g. frame semantics, context) (Schiborr et al. 2018: 15)

(9) '(It) bumped a tree, a big one.' (wwa02-083-085; O'Shannessy 2022)

yarlpa wanti-ja modikayi-ki

branch fall-PST car-DAT

032 030

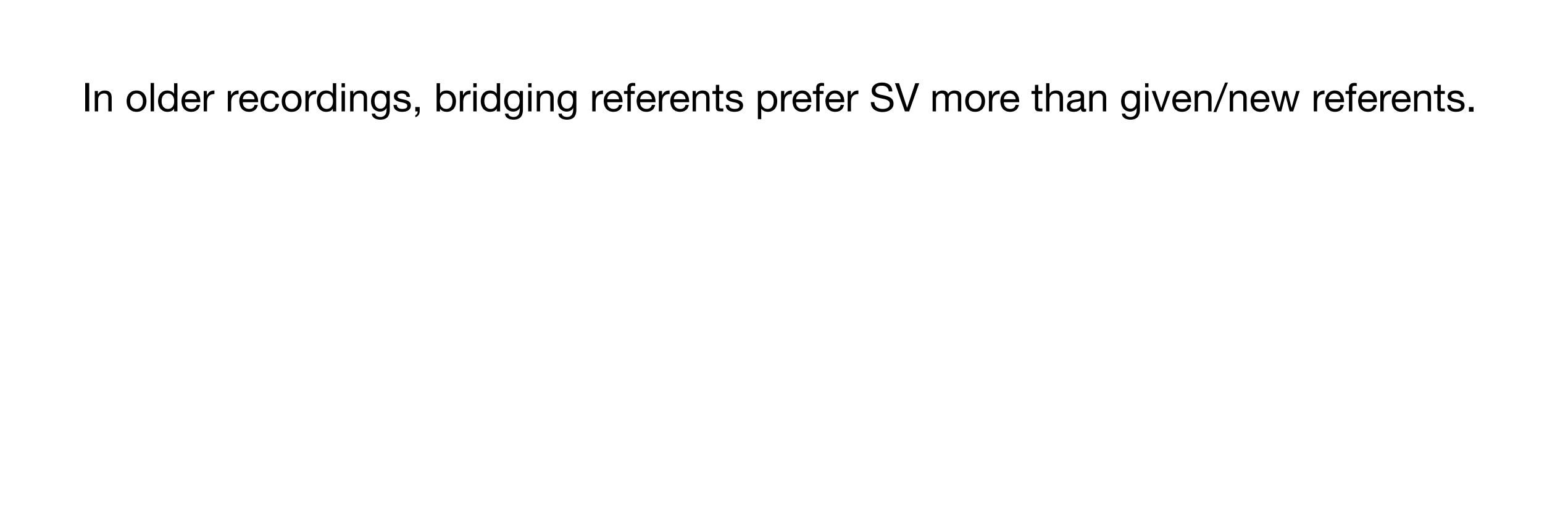
bridging

'A branch fell over the car.' (wwa02-086; O'Shannessy 2022)

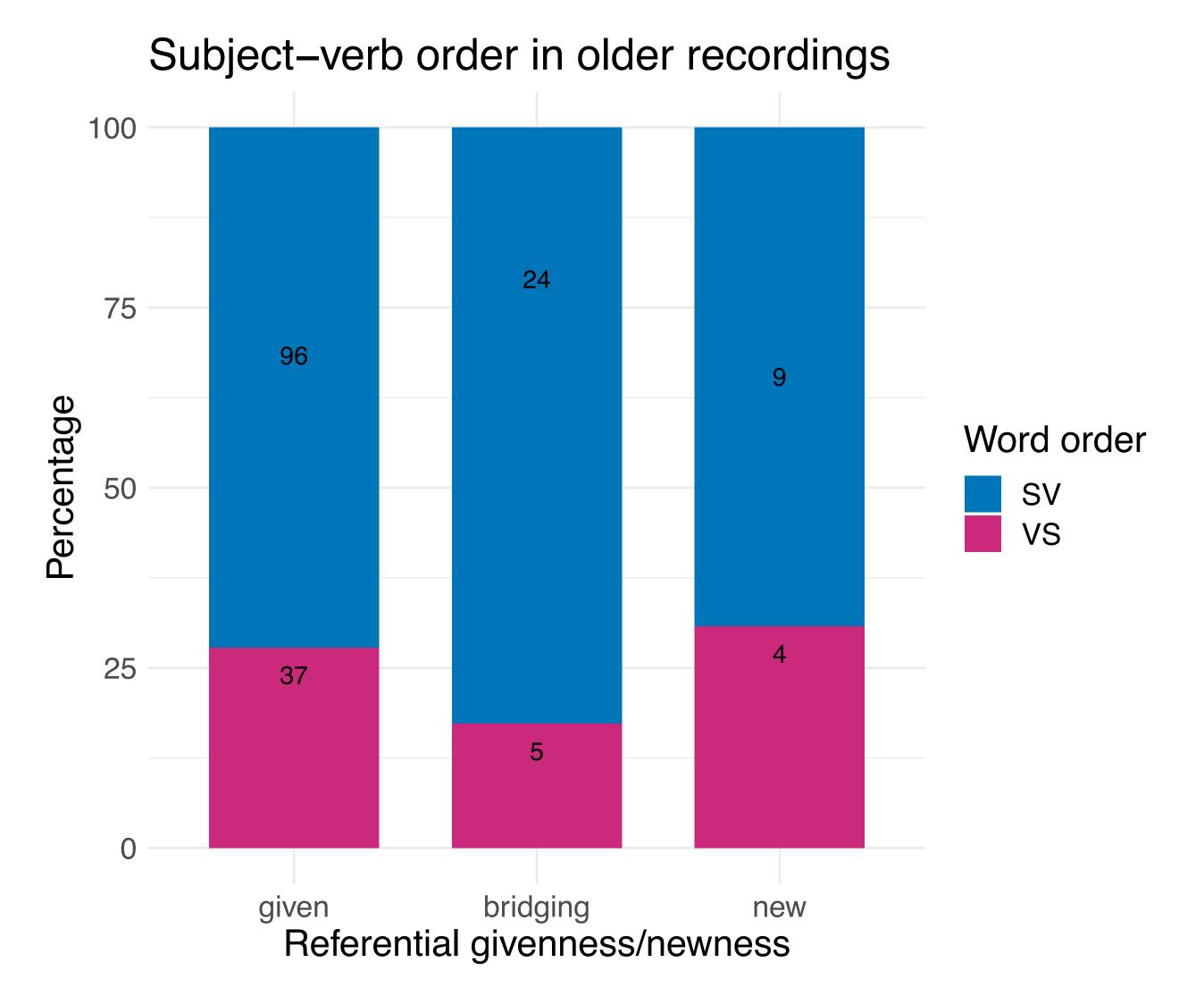
Given

```
(10)
     ngula-jangka =ju
                               kuuku
                                                          ya-ninja-ya-rnu
     this-after =JU
                               monster
                                                          go-INF-AM-PST
                               003
                               new
     'After this, a monster came along.' (wa29-01-004; O'Shannessy 2004d)
     kuuku-ngu
                                                          jarntu
                               ma-ni
                  ka
                                                          dog
                               get-NPST
     monster-ERG AUX.PRS
                                                          002
     003
```

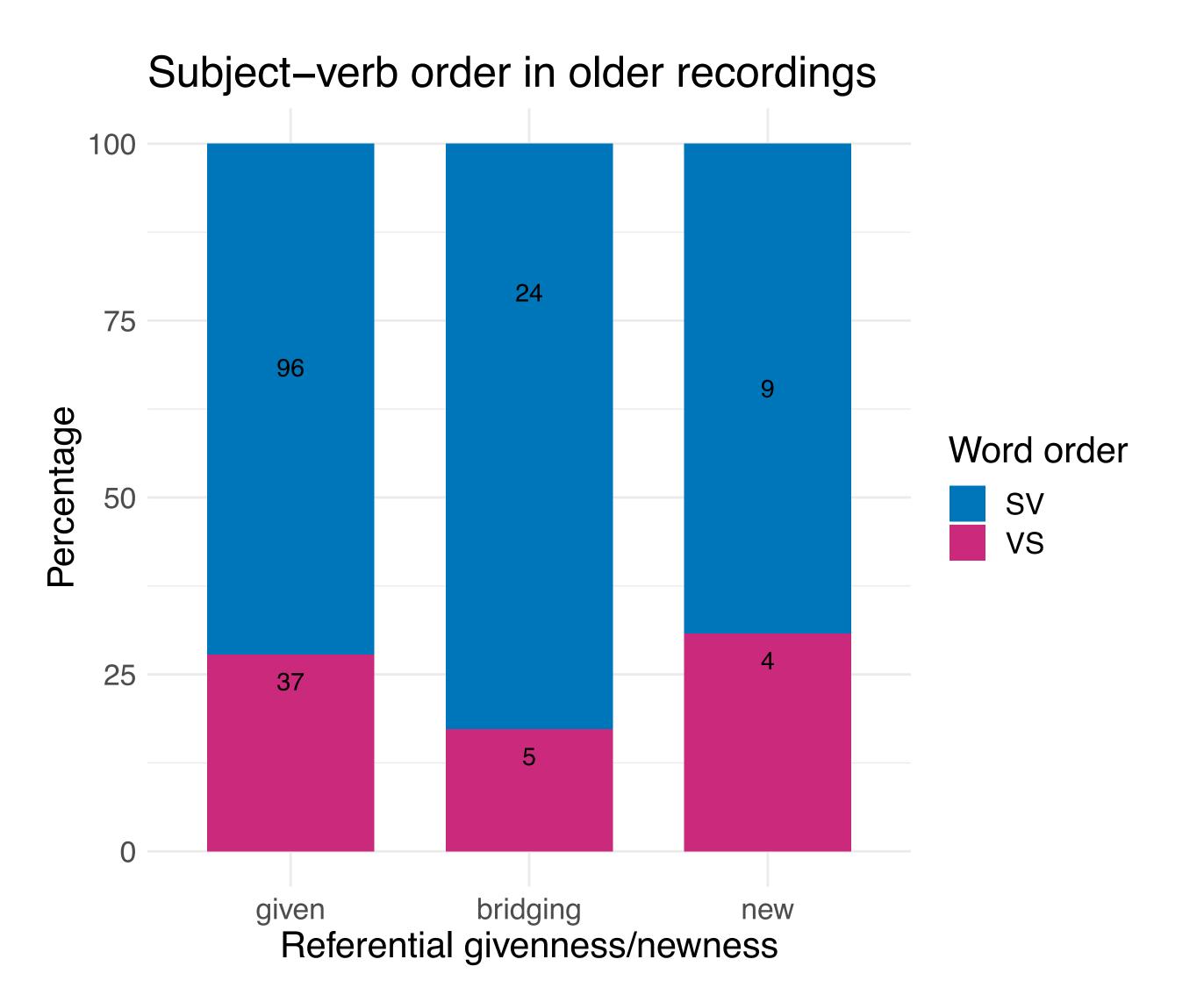
^{&#}x27;The monster gets the dog.' (wa29-1-011; O'Shannessy 2004d)



In older recordings, bridging referents prefer SV more than given/new referents.



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Probably because of plant descriptions

Many thanks to the speakers and researchers sharing their language and their data with me!

Older recordings:

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- Traditional stories/old way of life

Newer recordings:

- Picturebook stories
- Traditional stories/dreamings

Plant descriptions

- Series of plant descriptions with frequent mentions of the same plants/ habitats
- Reference "reset" for each description, but plants/habitat are always bridging (rather than new)
- Further increase in bridging frequency because of description of different plant parts

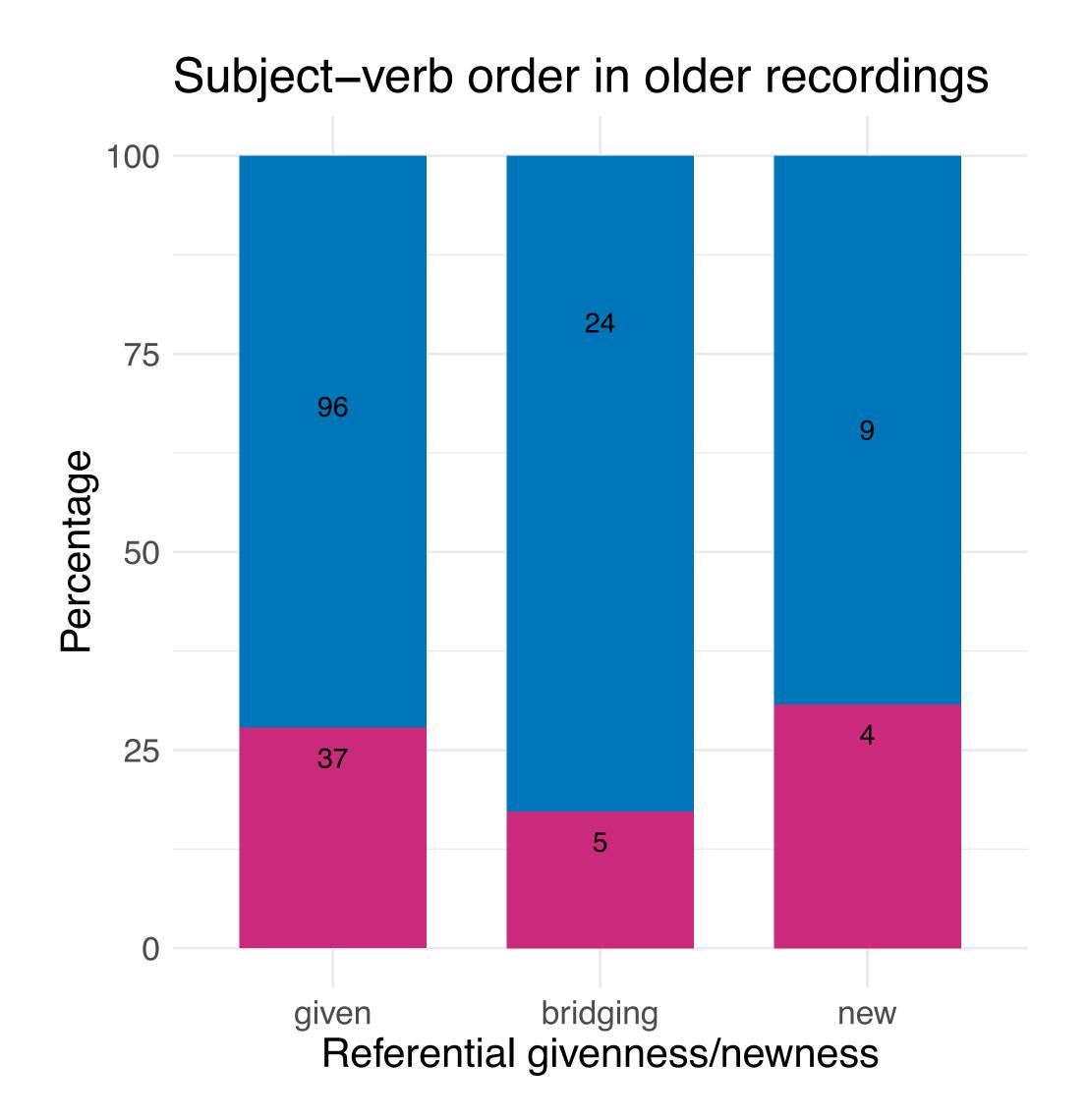
Nganjawarli or parts of it

Plant habitat

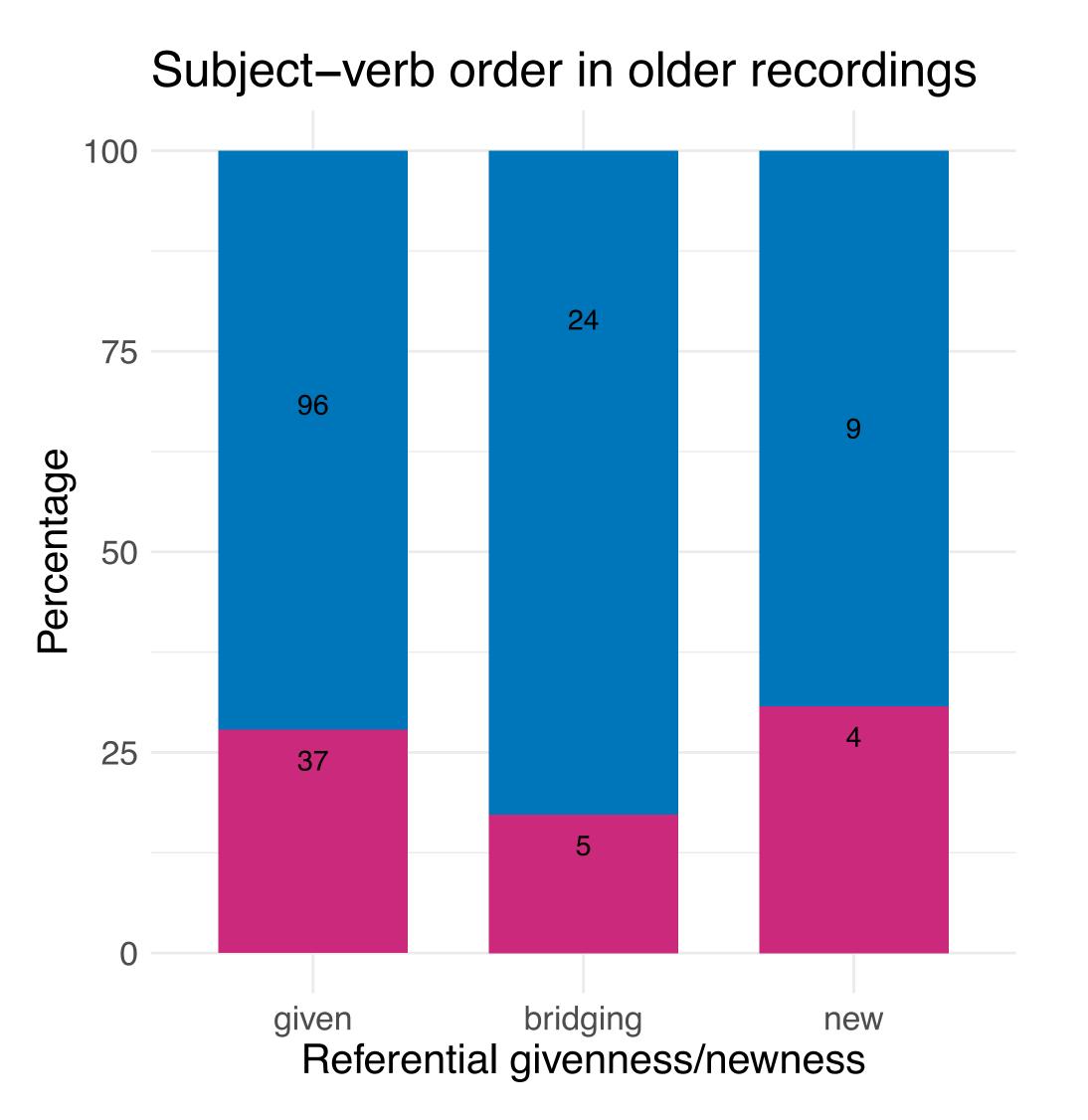
Other plants

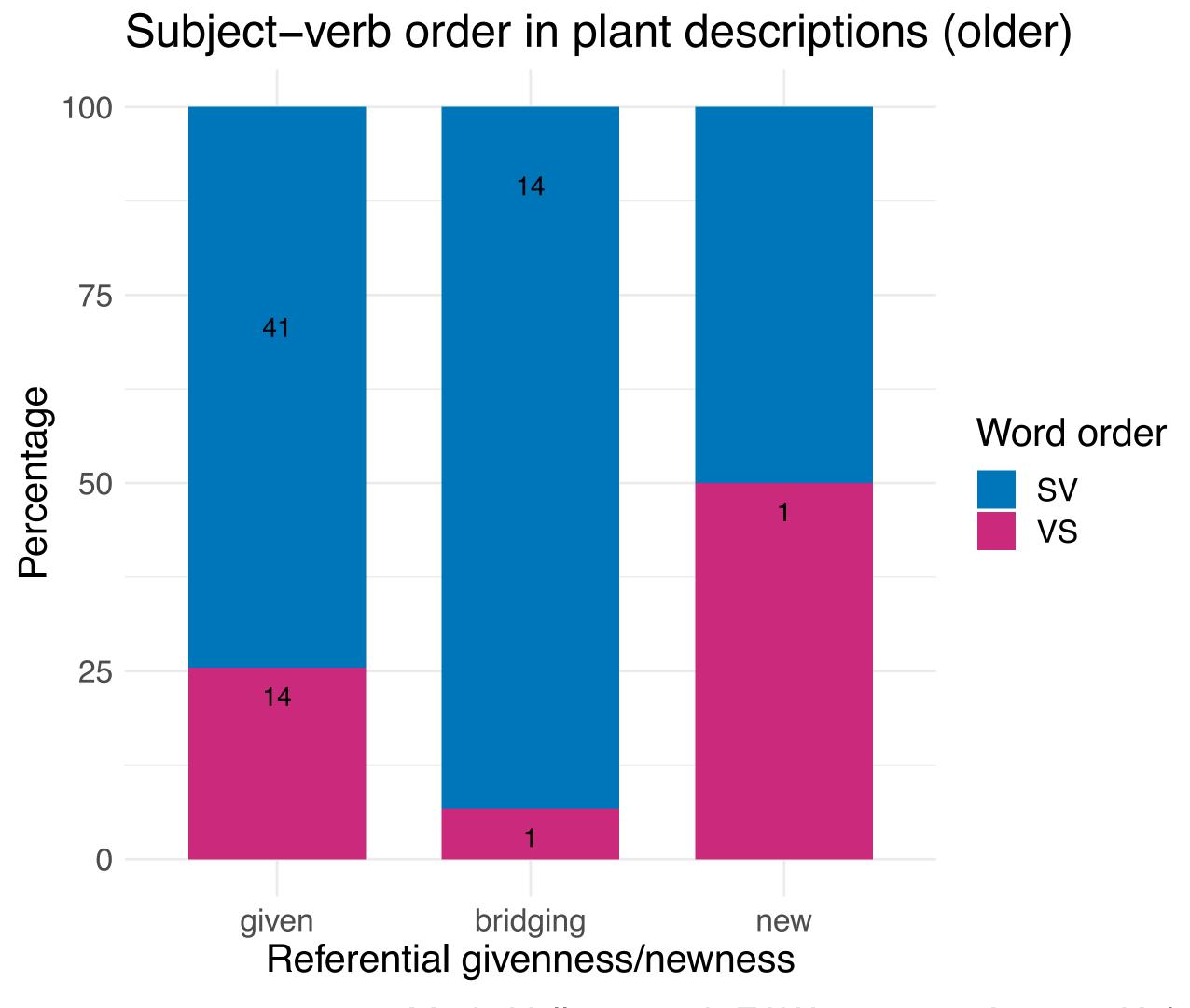
= Lots of bridging, very few new referents

Bridging referents prefer pre-verbal position in plant descriptions:

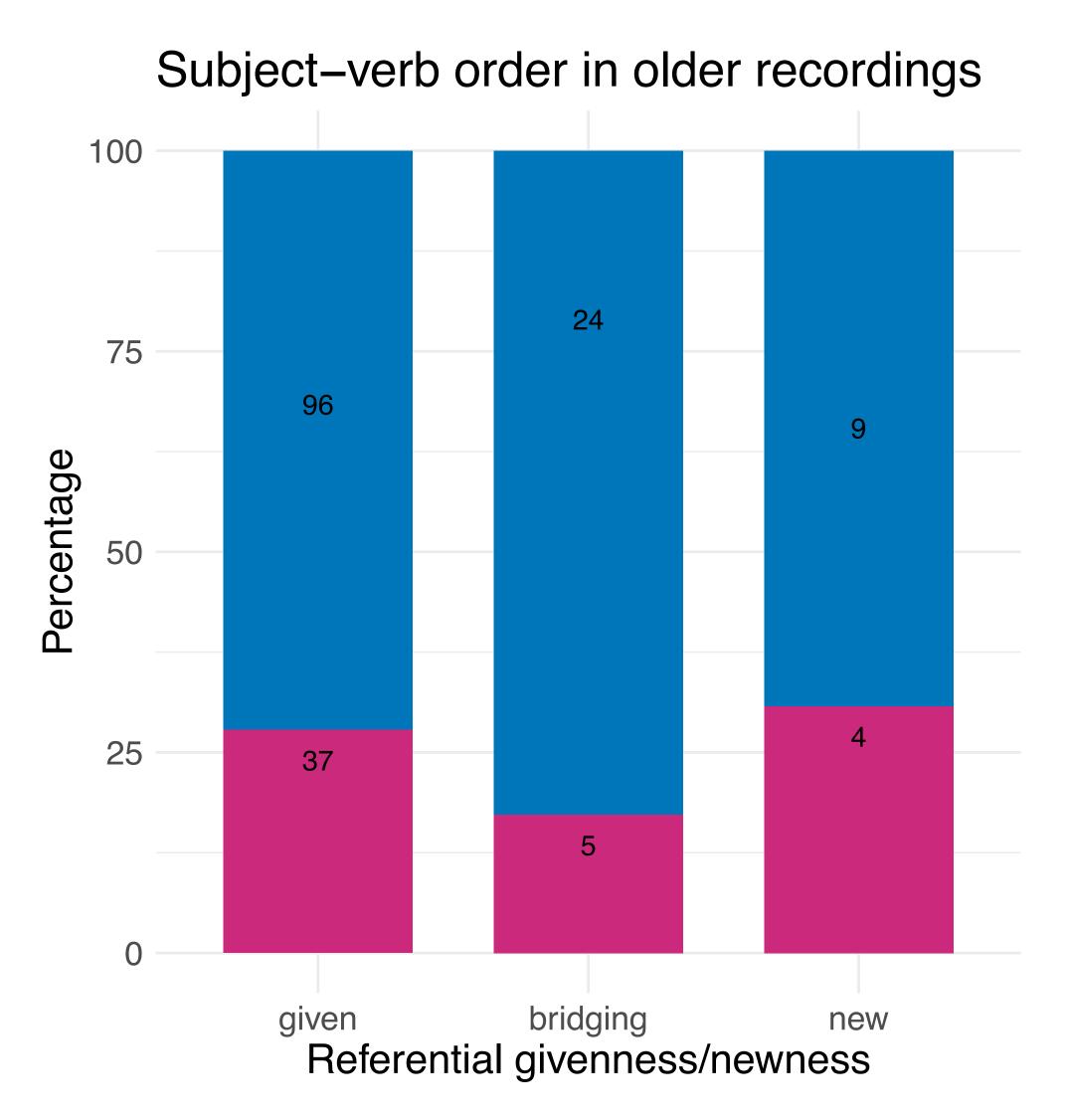


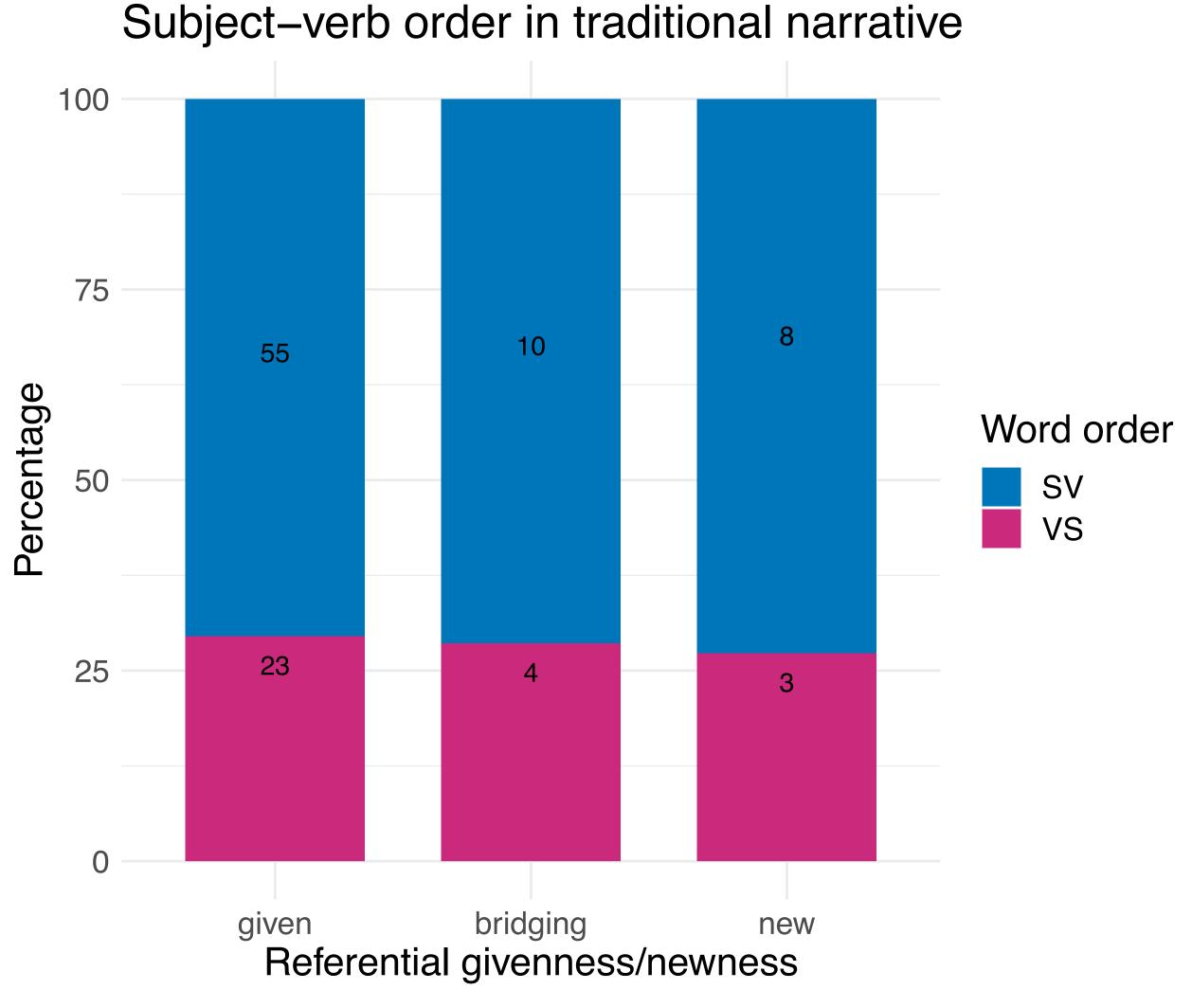
Bridging referents prefer pre-verbal position in plant descriptions:





No influence in traditional narratives?





Other factors/word orders more relevant?

Genre-specific reasons?

Small dataset?

Post-verbal new subject (traditional story)

In the shade, (someone) used to come upon (an emu). It used to sit in the shade, for fear of the big sun. (The hunter) used to shoot this one. (The hunter) used to cook (the game).

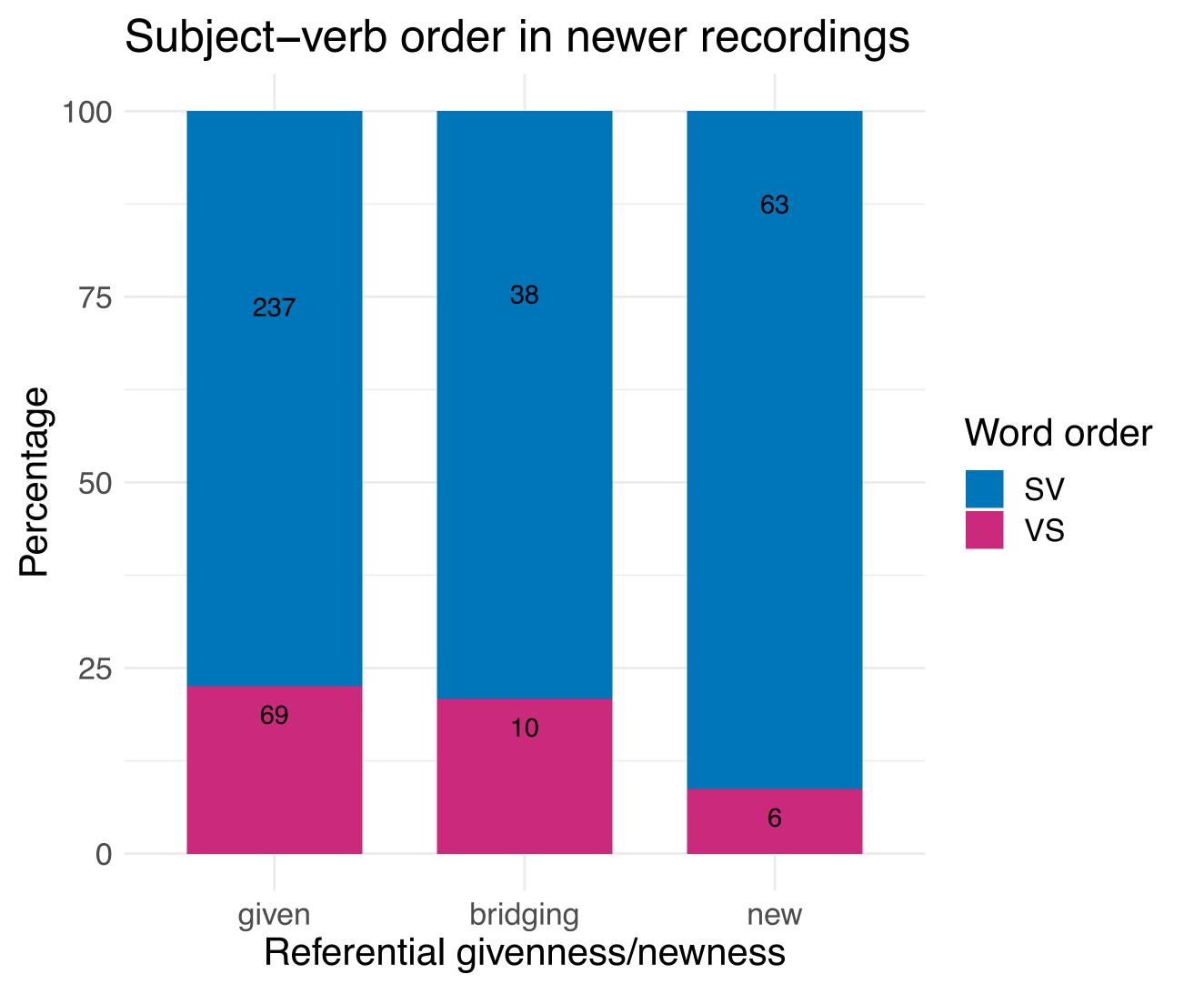
ngangkarli =lpa yirra-rnu ngapa-ngku

raincloud =AUX.PST.IMPF put-PST water-ERG

'The water made rainclouds.' (219-359-363; Hale 1966-1967)

In newer recordings, new referents prefer pre-verbal position:

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Pre-verbal new subject

```
(12) kurdu // kamina wita-pardu ka manyu-karri-mi child // girl small-DIM AUX.PRS play-stand-NPST 'A child, a young girl is playing [with a dog].' (wa321-021-022; O'Shannessy 2004a)
```

Post-verbal new subject

```
(13) watiya-wana ka karri-mi // karnta manu kurdu wita trea-near AUX.PRS stand-NPST // woman and child small 'Near a tree stand a woman and a small child.' (wa322-004-005; O'Shannessy 2004b)
```

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Note the IU boundary and the weight!

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- Qualitative analysis of parts of the corpus
- Qualitative analysis of prosody

Thank you!



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Maria Vollmer, 10th EAW 2023, 14 August, Köln

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Acknowledgement

Many thanks to the Warlpiri speaking communities who provided the material used in this presentation. I acknowledge that the Warlpiri data was recorded on Warlpiri and Gurindji land and I pay my respects to their elders past, present and emerging.

Thanks to Uta Reinöhl and Jane Simpson for their invaluable and continuous feedback on this talk and my thesis. Thank you to David Nash for his help with the Warlpiri recordings and with their analysis.

Thanks to James Gray, Haoyi Li, Laura Becker, Jonas Schreiner, Marie Klatt and Jenny Herzky for linguistic and non-linguistic cross-country discussions and support!

This project is supported by funding from the Deutsche Forschungsgemeinschaft project number 406074683, and the ARC Centre of Excellence for the Dynamics of Language project ID CE140100041.