# Case competition in headless relatives

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(1) Ich lade ein, wem auch Maria vertraut. I invite $_{[Acc]}$  RP.DAT also Maria trust $_{[DAT]}$  'I invite whoever Maria also trusts.' (Modern German, Vogel 2001: 344)

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  'I invite whoever Maria also trusts.' (Modern German, Vogel 2001: 344)
- (2) Ich lade die Person ein, **der Maria vertraut**.

  I invite<sub>[Acc]</sub> the.Acc person RP.DAT Maria trust<sub>[DAT]</sub>

  'I invite the person that Maria trusts.'

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two factors determine grammaticality

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NOM < ACC < DAT

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(2) Ich lade ein, wem auch Maria vertraut.

I invite[ACC] RP.DAT also Maria trust[DAT]

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#### NOM < ACC < DAT

- (2) Ich lade ein, wem auch Maria vertraut.

  I invite[ACC] RP.DAT also Maria trust[DAT]

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- (3) \*Ich lade ein, wen **auch Maria vertraut**.

  I invite[ACC] RP.ACC also Maria trust[DAT]

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(2) Ich lade ein, wem auch Maria vertraut.

I invite[ACC] RP.DAT also Maria trust[DAT]

'I invite whoever Maria also trusts.'

(3) Uns besucht, wen Maria mag.
us visit<sub>[NOM]</sub> RP.ACC Maria like<sub>[ACC]</sub>
'Who visits us, Maria likes.'

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  'Who visits us. Maria trusts.'
- (5) \*Uns besucht, wer Maria vertraut.

  us visit<sub>[NOM]</sub> RP.NOM Maria trust<sub>[DAT]</sub>

  'Who visits us, Maria trusts.'

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NOM < ACC < DAT

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(5) **hòn hoi theoì philoūsin** apothnę́skei néos
RP.ACC the god love<sub>[ACC]</sub> die<sub>[NOM]</sub> young
'He, whom the gods love, dies young.'

(Classical Greek, Menander, The Double Deceiver 125)

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- (6) **themo min uuirdit forlazan**, min minnot

  RP.DAT less become read<sub>[DAT]</sub> less love<sub>[NOM]</sub>

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- (7) ei galaubjaiþ þamm -ei insandida jains that believe<sub>[DAT]</sub> RP.DAT -COMP send<sub>[ACC]</sub> he 'that you believe in him whom he sent' (Gothic, John 6:29)

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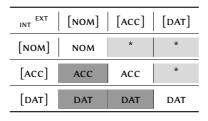
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INT case is allowed to surface when it wins the case competition, EXT case is not

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- (11) enti aer ant uurta demo zaimo sprah and he reply<sub>[DAT]</sub> RP.DAT to him speak<sub>[NOM]</sub> 'and he replied to the one who spoke to him' (Old High German, MONS 7:24, adapted from Pittner 1995: 199)

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[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

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(12) \*Jan lubi **komu -kolkwiek dokucza**.

Jan like<sub>[ACC]</sub> RP.DAT ever tease<sub>[DAT]</sub>

'Jan likes whoever he teases.'

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- (13) \*Jan ufa komu -kolkwiek wpuścił do domu. Jan trust $_{[DAT]}$  RP.DAT ever  $let_{[ACC]}$  to home 'Jan trusts whoever he let into the house.'

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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

Table 1: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 3: Old High German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 2: Polish pattern

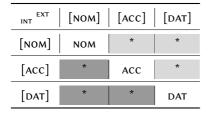


Table 3: Old High German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

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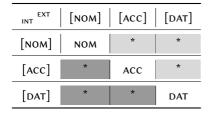


Table 3: Old High German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Table 4: unattested pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	*	ACC	DAT
[DAT]	*	*	DAT

Table 1: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 2: Polish pattern

INT EXT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

Table 3: Old High German pattern

[NOM]	[ACC]	[DAT]
NOM	ACC	DAT
ACC	ACC	DAT
DAT	DAT	DAT
	NOM ACC	NOM ACC ACC ACC

# Two factors determine grammaticality

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	3sg	
NOM	luw	
ACC		
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syncretism patterns (cf. Baerman, Brown, and Corbett, 2005)

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NOM	luw
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#### NOM < ACC < DAT

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3sG

NOM luw

ACC luw-e:l

DAT luw-e:l-na

- syncretism patterns (cf. Baerman, Brown, and Corbett, 2005)
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a single trigger

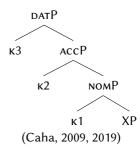
#### NOM < ACC < DAT

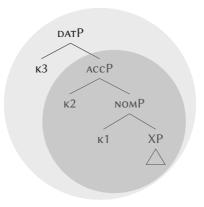
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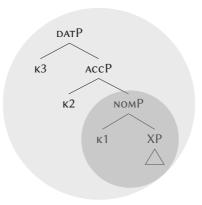
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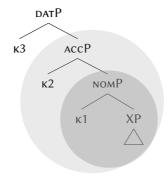


Table 6: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 7: Old High German pattern

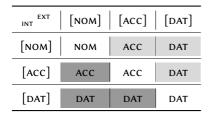


Table 8: Polish pattern

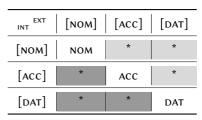


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[NOM]	NOM	*	*
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Modern German
Polish

INT = allowed to surface
yes
no

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	INT = allowed to surface
Modern German	yes
Polish	no

Borer-Chomsky Conjecture: the lexicon is the source of language variation

headless relatives are derived from light-headed relatives, headed by a special type of light head

 headless relatives are derived from light-headed relatives, headed by a special type of light head light head<sub>EXT</sub> [relative pronoun<sub>INT</sub> ... ]

headless relatives are derived from light-headed relatives, headed by a special type of light head
 light head<sub>EXT</sub> [relative pronoun<sub>INT</sub> ... ]

- headless relatives are derived from light-headed relatives, headed by a special type of light head light head<sub>EXT</sub> [relative pronoun<sub>INT</sub> ... ]
- deletion takes place when the relative pronoun contains the light head as a single constituent

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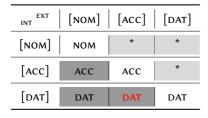
light head	relative pronoun	
	RELP	
кР	REL k	ČP
к фР	K	фР

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light	head	relative pronoun		
		RELP		
K	(P	REL	K	Р
K	φР		K	φР

lexical entries  $\rightarrow$  internal syntax  $\rightarrow$  containment  $\rightarrow$  deletion  $\rightarrow$  headless relative

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT



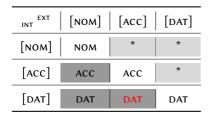


Table 9: Modern German LH and RP



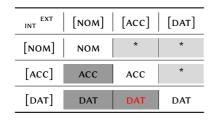
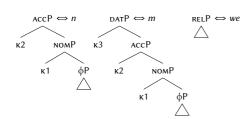


Table 9: Modern German LH and RP

LH	RP
n	we-m

#### lexicon



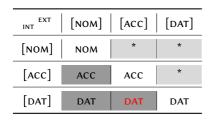
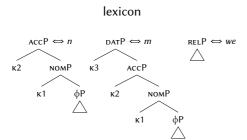
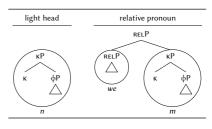


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## ACCEXT VS. DATINT in Modern German

### ACC<sub>EXT</sub> vs. DAT<sub>INT</sub> in Modern German

(14) Ich lade n ein, wem auch Maria vertraut.

I invite[ACC] LH.ACC RP.DAT also Maria trust[DAT]

'I invite whoever Maria also trusts.'

(Modern German, adapted from Vogel 2001: 344)

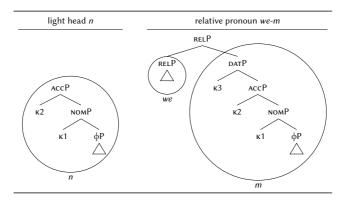
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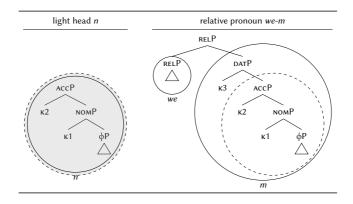
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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

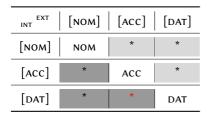


Table 10: Polish LH and RP

LH RP

o-go k-o-mu

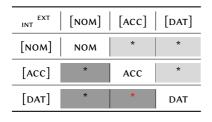
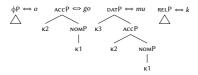


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o-go	k-o-mu

lexicon



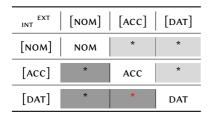
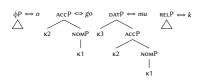
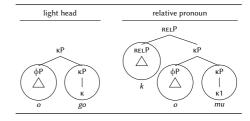


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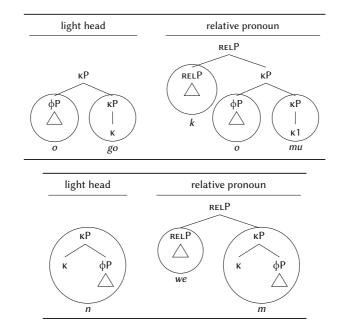
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## Comparing Polish to Modern German

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# ACC<sub>EXT</sub> vs. DAT<sub>INT</sub> in Polish

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(15) \*Jan lubi ogo komu -kolkwiek dokucza.

Jan like<sub>[ACC]</sub> LH.ACC RP.DAT ever tease<sub>[DAT]</sub>

'Jan likes whoever he teases.'

(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)

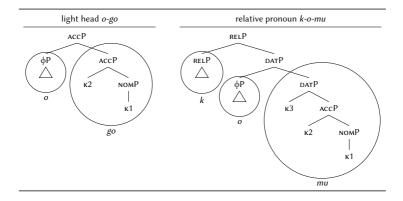
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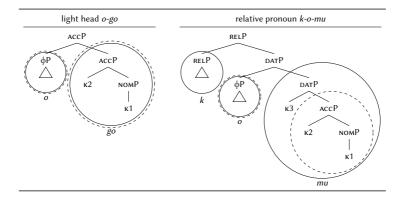
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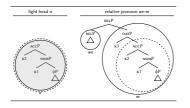
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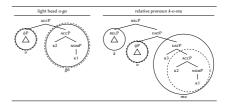


	INT = allowed to surface	
Modern German	yes	
Polish	no	

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#### References

Citko, Barbara (2013). "Size matters: Multidominance and DP structure in Polish". In: *Talk at the th Poznan Linguistic Meeting*.

Daskalaki, Evangelia (2011). "Case Mis-Matching as Kase Stranding". In: *University of Pennsylvania Working Papers in Linguistics*. Ed. by Lauren A. Friedman. Vol. 17. Philadelphia: Penn Linguistics Club, pp. 77–86.

Harbert, Wayne Eugene (1978). "Gothic syntax: a relational grammar". PhD thesis. Urbana-Champaign.

Himmelreich, Anke (2017). "Case Matching Effects in Free Relatives and Parasitic Gaps: A Study on the Properties of Agree". PhD thesis. Universität Leipzig. Vogel, Ralf (2001). "Case Conflict in Modern German Free Relative Constructions: An Optimality Theoretic Treatment". In: *Competition in Syntax*. Ed. by Gereon Müller and Wolfgang Sternefeld. Berlin: Mouton de Gruyter, pp. 341–375. doi: 10.1515/9783110829068.341.