

Case competition in headless relatives

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Introduction

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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_[ACC] the.ACC person RP.DAT Maria.NOM trust_[DAT]
'I invite the person that Maria trusts.'

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- illustrate the generalizations
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- (3) *Ich lade ein, **wen auch Maria vertraut.**
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- (3) Uns besucht, **wen** Maria mag.

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‘Who visits us, Maria likes.’

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RP.SG.M.**ACC** the god.PL love.3PL_[ACC] die.3SG_[NOM] young
'He, whom the gods love, dies young.'
(Classical Greek, Menander, The Double Deceiver 125)

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'whom less is read, loves less'
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- (7) **ei galaubjaip þamm -ei insandida**
that believe.OPT.PRES.2PL_[DAT] REL.SG.M.**DAT** -COMP send.PRET.3SG_[ACC]
jains
DEM.SG.M.NOM
'that you believe in him whom he sent'
(Gothic, John 6:29)

Whether the winner gets approved in German (Vogel 2001)

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1SG.NOM invite.PRES.1SG_[ACC] REL.AN._{DAT} also Maria.NOM trust.PRES.3SG_[DAT]
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_{INT} ^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Whether the winner gets approved in Old High German

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- (11) **themo** **min uuirdit** **forlazan,** min minnot
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- (12) **enti aer ant uurta demo zaimo**
and 3SG.M.NOM reply.PST.3SG[**DAT**] RP.SG.M.**DAT** to 3SG.M.DAT
sprah
speak.PST.3SG[**NOM**]
'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

Whether the winner gets approved in Polish

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- (13) *Jan lubi **komu** **-kolwiek dokucza.**
Jan like.3SG_[ACC] REL.**DAT**.AN.SG ever tease.3SG_[DAT]
'Jan likes whoever he teases.'

Whether the winner gets approved in Polish

- (13) *Jan lubi **komu** **-kolwiek dokucza.**
Jan like.3SG_[ACC] REL.**DAT**.AN.SG ever tease.3SG_[DAT]
'Jan likes whoever he teases.'
- (14) *Jan ufa **komu** **-kolwiek wpuścił do domu.**
Jan trust.3SG_[DAT] REL.**DAT**.AN.SG ever let.3SG_[ACC] to home
'Jan trusts whoever he let into the house.'

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

Whether the winner gets approved in overview

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INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Whether the winner gets approved in overview

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Whether the winner gets approved in overview

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Whether the winner gets approved in overview

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	*	ACC	DAT
[DAT]	*	*	DAT

Whether the winner gets approved in overview

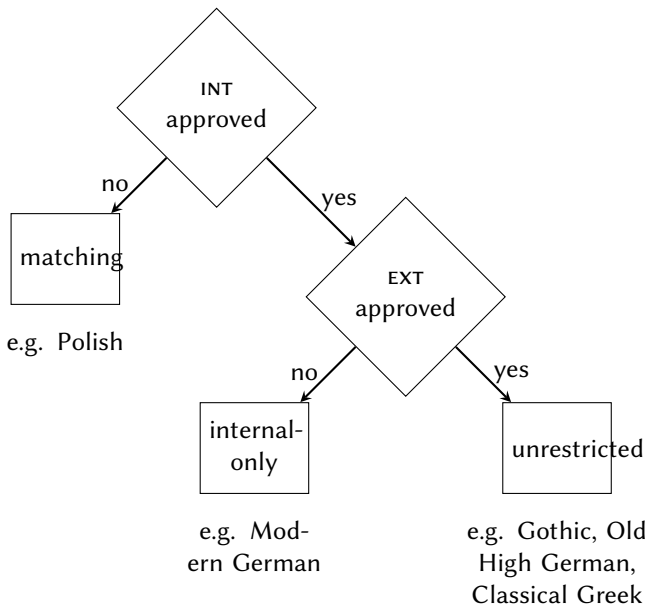
INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Whether the winner gets approved in flowchart

Whether the winner gets approved in flowchart



Two generalizations

- 1 the winner of the competition
 - is stable across languages
 - $\text{NOM} < \text{ACC} < \text{DAT}$
 - 2 whether the winner gets approved
 - differs across languages
 - INT/EXT approved
-
- illustrate the generalizations
 - derive the generalizations

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- 1 the winner of the competition
 - is stable across languages
 - $NOM < ACC < DAT$
 - 2 whether the winner gets approved
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- illustrate the generalizations
 - **derive the generalizations**

NOM < ACC < DAT

NOM < ACC < DAT

	3sg
NOM	luw
ACC	
DAT	

NOM < ACC < DAT

3sg	
NOM	luw
ACC	luw- e:l
DAT	

NOM < ACC < DAT

	3sg
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na

NOM < ACC < DAT

	3sg
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na

- syncretism patterns (ref)

NOM < ACC < DAT

	3sg
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na

- syncretism patterns (ref)
- agreement (ref)

NOM < ACC < DAT

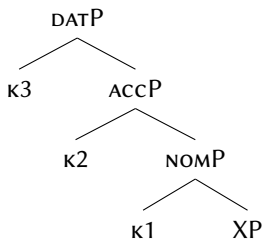
	3sg
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na

- syncretism patterns (ref)
- agreement (ref)
- relativization (ref)

NOM < ACC < DAT

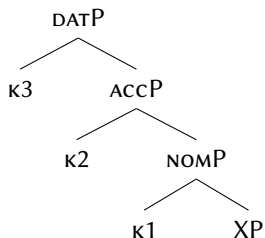
3sg	
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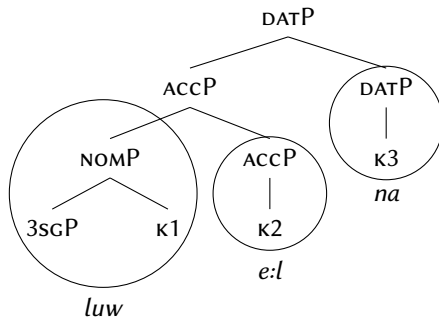


NOM < ACC < DAT

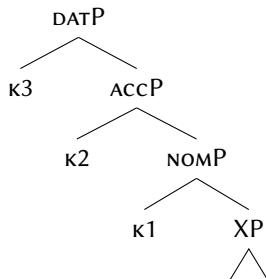
	3sg
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na



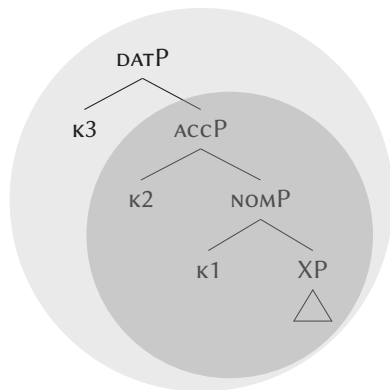
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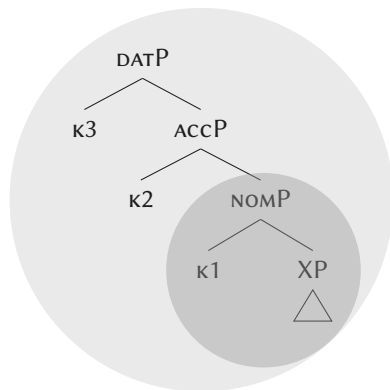
The winning case contains the losing case



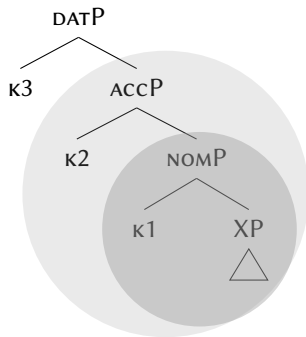
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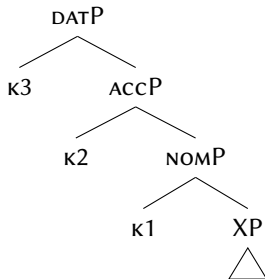
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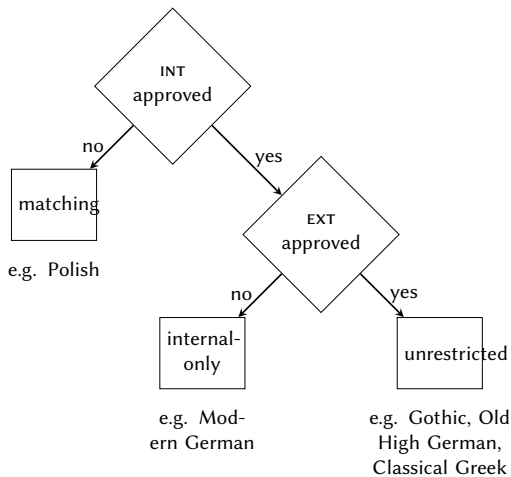
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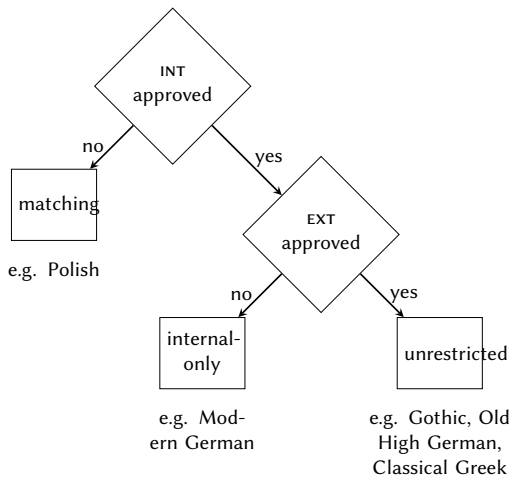
Properties of morphology show reflexes in syntax

INT/EXT approved

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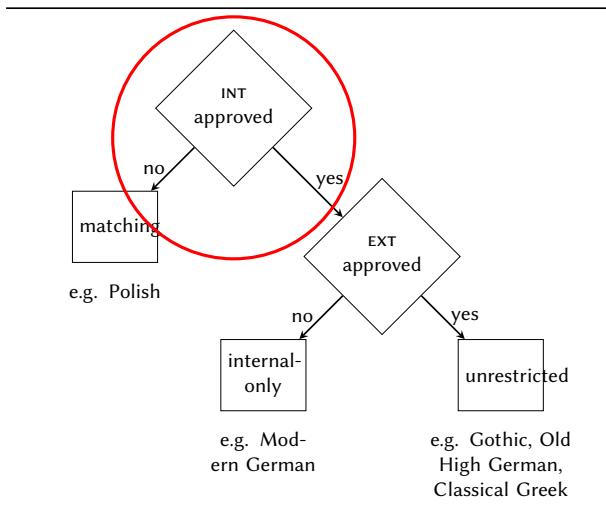


INT/EXT approved



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

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Assumptions

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light head_{EXT} [relative pronoun_{INT} ...]

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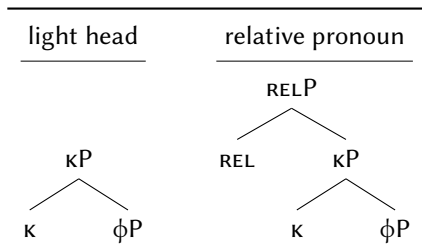
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~~light head~~_{EXT} [relative pronoun_{INT} ...]
- deletion takes place when the relative pronoun contains the light head as a single constituent

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- headless relatives are derived from light-headed relatives, headed by a special type of light head
light head_{EXT} [relative pronoun_{INT} ...]
- deletion takes place when the relative pronoun contains the light head as a single constituent
- the relative pronoun contains the features of the light head plus an additional one



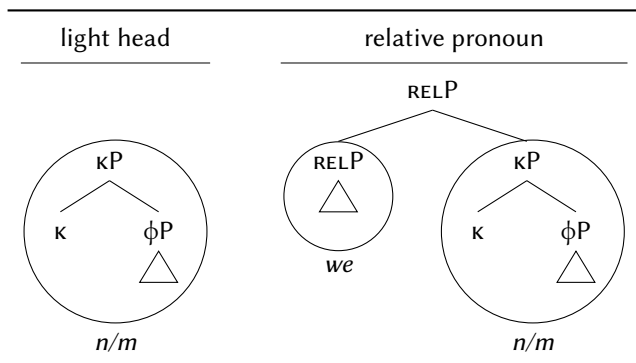
The pattern in German

The pattern in German

INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Light head and relative pronoun in German

Light head and relative pronoun in German



EXT_{ACC} VS. INT_{ACC} → *wen* in German

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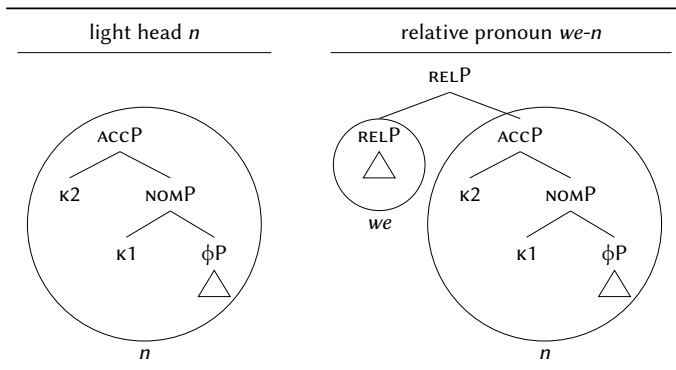
- (15) Ich lade \bar{n} ein, **wen** auch **Maria**
1SG.NOM invite.PRES.1SG_[ACC] LH.AN.ACC RP.AN.ACC also Maria.NOM
mag.
like.PRES.3SG_[ACC]
'I invite who Maria also likes.'

(Modern German, adapted from Vogel 2001: 344)

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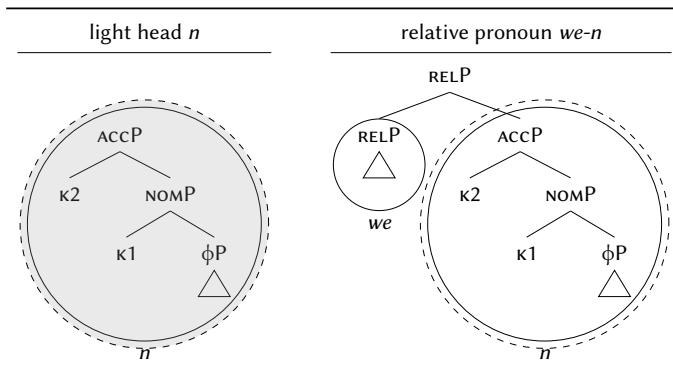
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EXT_{ACC} VS. INT_{DAT} → *wem* in German

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(16) Ich lade π ein, **wem** auch Maria
1SG.NOM invite.PRES.1SG_[ACC] LH.AN.DAT RP.AN.DAT also Maria.NOM
vertraut.

trust.PRES.3SG_[DAT]

‘I invite whoever Maria also trusts.’

(Modern German, adapted from Vogel 2001: 344)

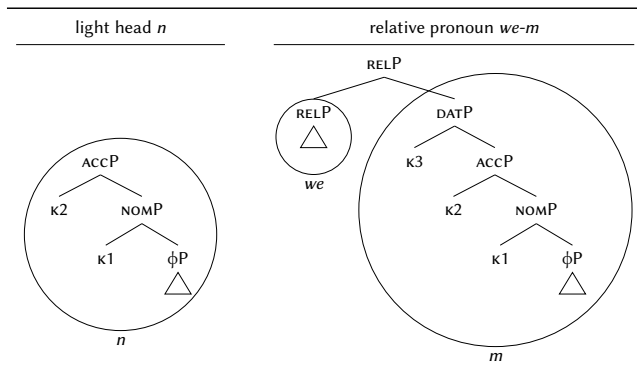
EXT_{ACC} VS. INT_{DAT} → *wem* in German

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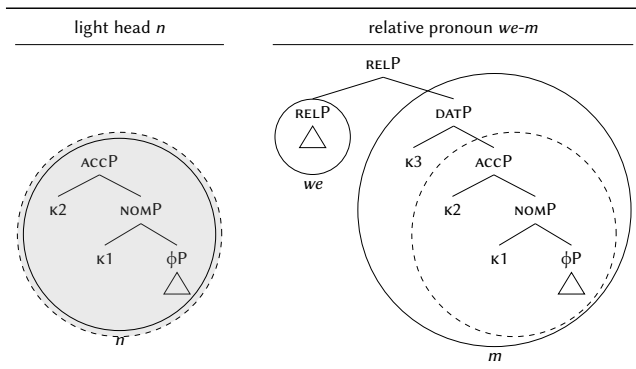
EXT_{ACC} VS. INT_{DAT} → *wem* in German

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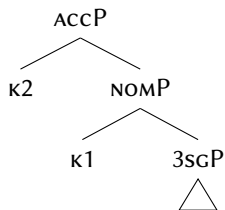
Differences in the lexicon

Differences in the lexicon

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

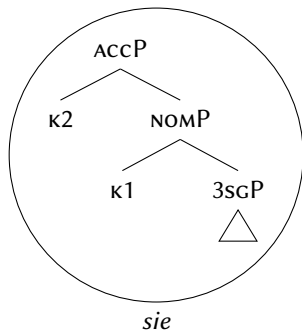
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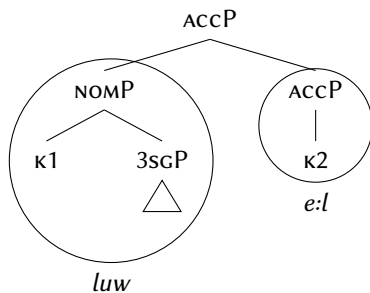
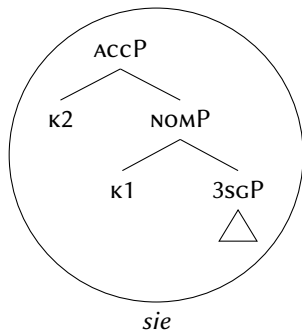
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Borer-Chomsky Conjecture: the lexicon is the source of language variation

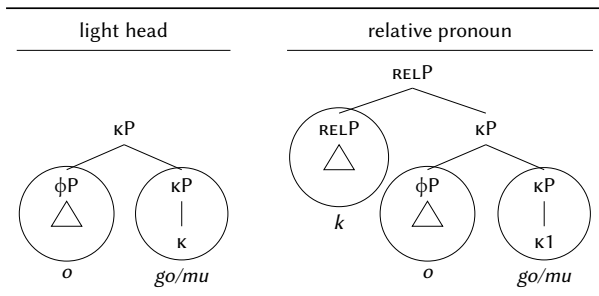


The pattern in Polish

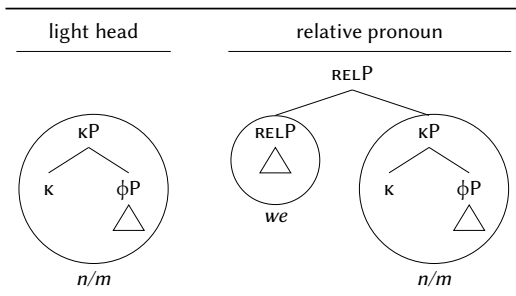
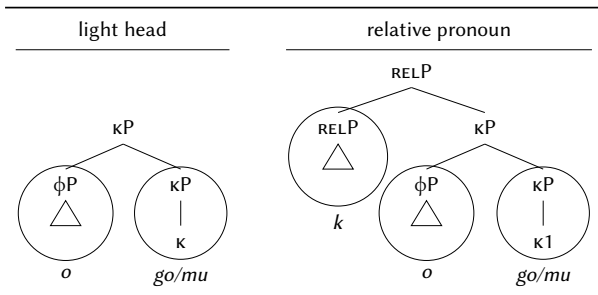
INT^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

Light head and relative pronoun in Polish

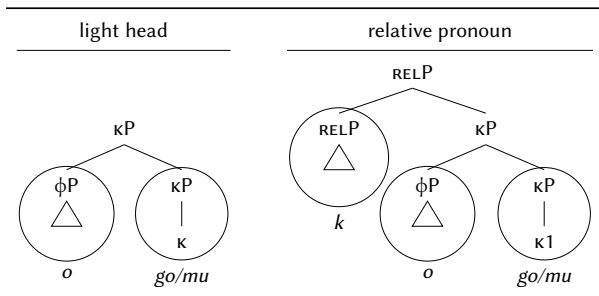
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EXT_{ACC} VS. INT_{ACC} → *kogo* in Polish

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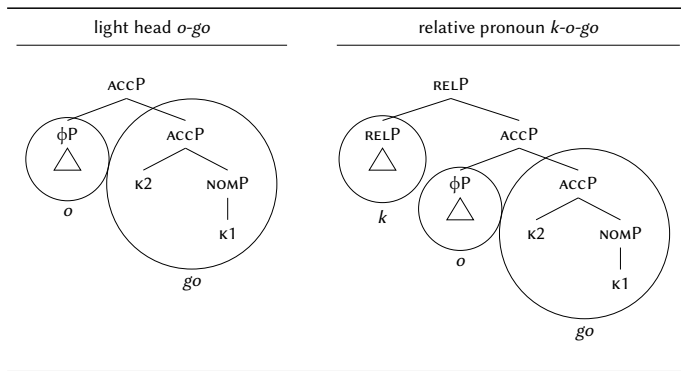
- (17) Jan lubi ~~ego~~ **kogo** **-kolkwiek** Maria lubi.
Jan like.3SG_[ACC] LH.ACC.AN.SG RP.ACC.AN ever Maria like.3SG_[ACC]
‘Jan likes whoever Maria likes.’

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

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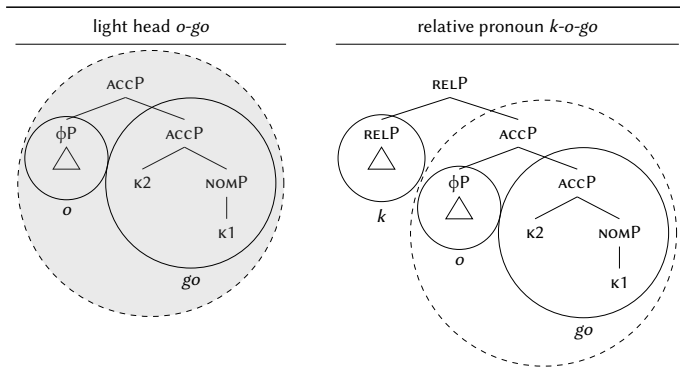
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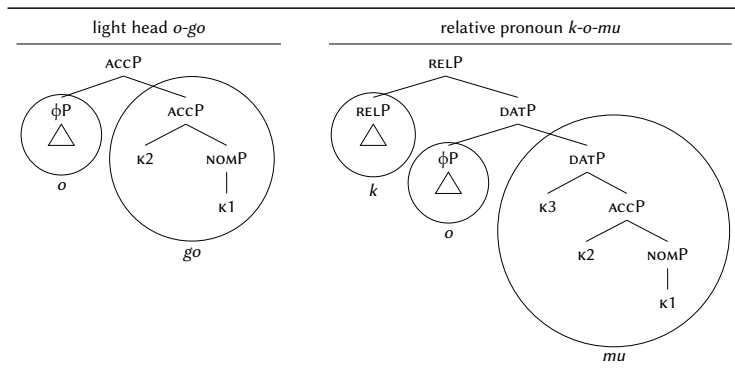
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EXT_{ACC} VS. INT_{DAT} \rightarrow *komu*

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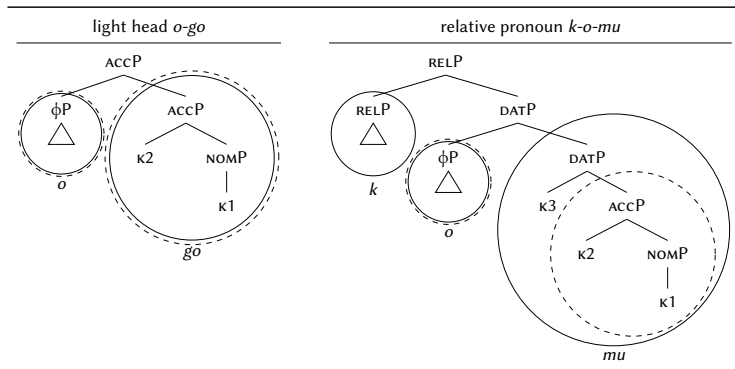
(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)



EXT_{ACC} VS. INT_{DAT} \nrightarrow *komu*

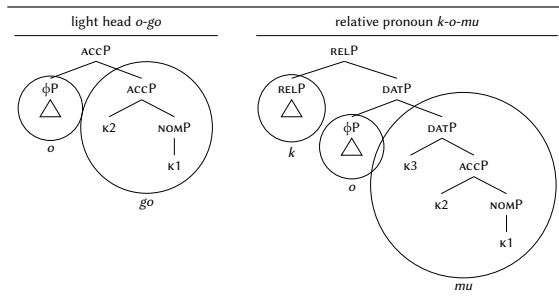
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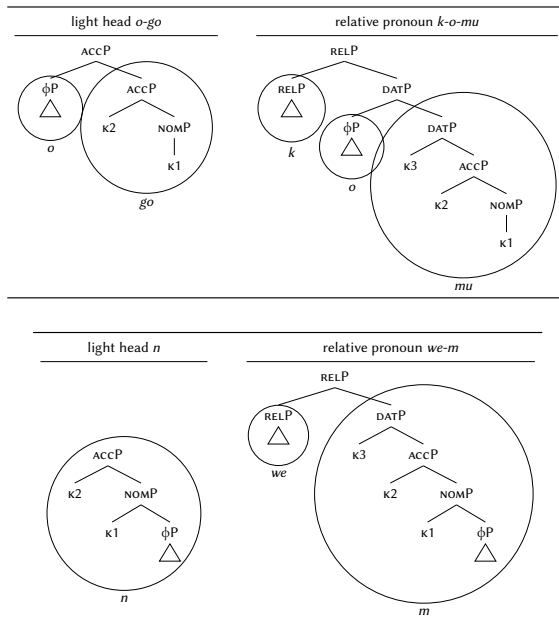


The difference between German and Polish

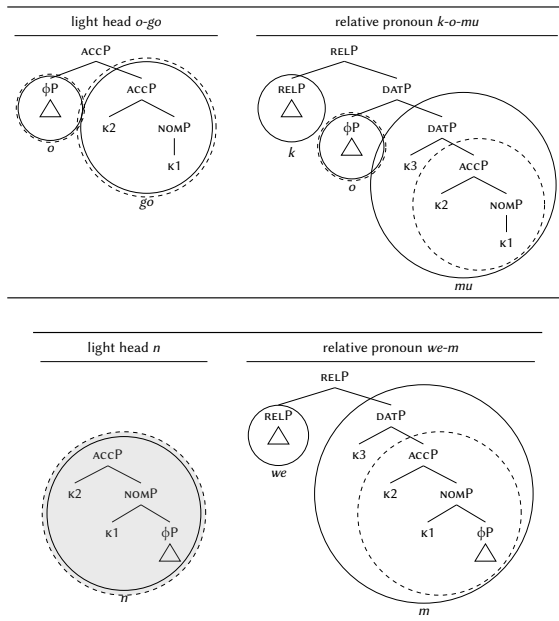
The difference between German and Polish

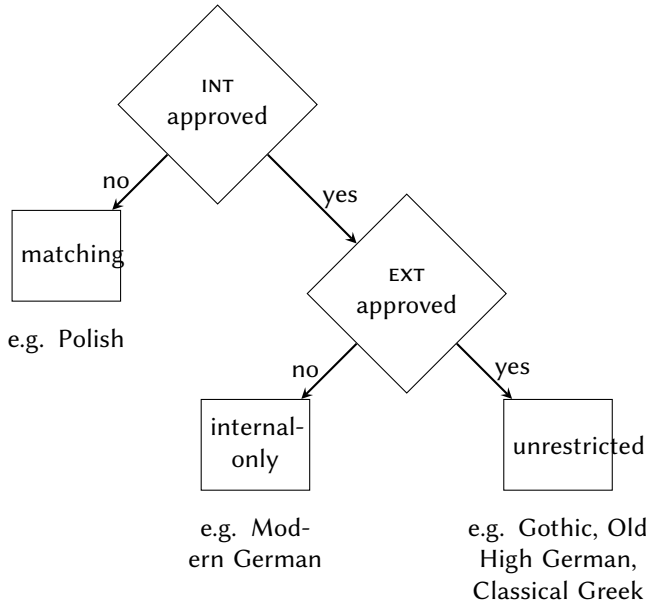


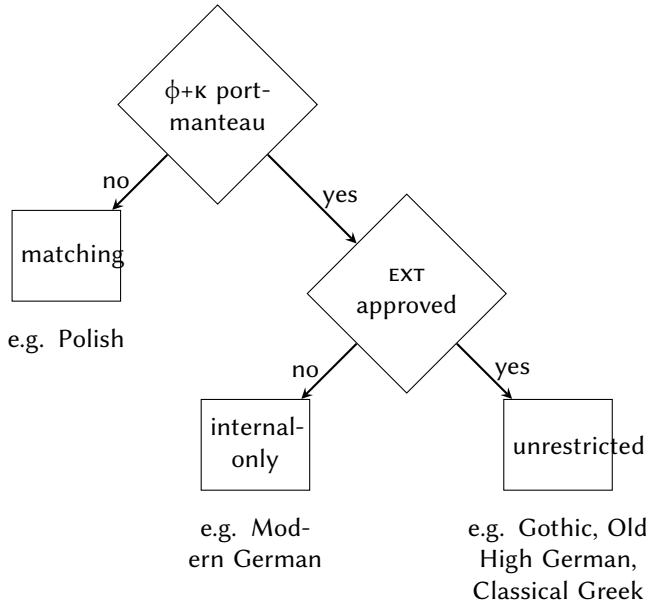
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Again

Conclusion

- 1 the winner of the competition
 - is stable across languages
 - $NOM < ACC < DAT$
- 2 whether the winner gets approved
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It's all about containment

Properties of morphology show reflexes in syntax

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