

Case competition in headless relatives

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- (1) Ich lade ein, wem auch Maria vertraut.
1SG.NOM invite.PRES.1SG_[ACC] REL.AN.DAT also Maria.NOM trust.PRES.3SG_[DAT]
'I invite whoever Maria also trusts.'

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1SG.NOM invite.PRES.1SG_[ACC] REL.AN.DAT also Maria.NOM trust.PRES.3SG_[DAT]
'I invite whoever Maria also trusts.'
- (2) Ich lade die Person ein, **dem Maria vertraut.**
1SG.NOM invite.PRES.1SG_[ACC] the person REL.AN.DAT Maria.NOM
vertraut.
trust.PRES.3SG_[DAT]
'I invite the person that Maria trusts.'

- (1) Ich lade ein, **wem auch Maria vertraut.**
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'I invite whoever Maria also trusts.'
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1SG.NOM invite.PRES.1SG_[ACC] REL.AN._{ACC}also Maria.NOM trust.PRES.3SG_[DAT]
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Two aspects

Two aspects

- the winner of the competition

Two aspects

- the winner of the competition
- whether the winner gets approved

Two aspects

- the winner of the competition → is stable across languages
- whether the winner gets approved → differs across languages

Two aspects

- the winner of the competition → is stable across languages
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-
- 1 show the generalizations

Two aspects

- the winner of the competition → is stable across languages
 - whether the winner gets approved → differs across languages
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- 1 show the generalizations
 - 2 derive the generalizations

The winner of the competition — German

The winner of the competition — German

- (3) Ich lade ein, **wem** **auch** Maria **vertraut**.
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ACC < DAT

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- (4) Uns besucht, **wen** **Maria** **mag**.
2PL.ACC visit.PRES.3SG_[NOM] REL.AN._{ACC} Maria.NOM like.PRES.3SG_[ACC]
'Who visits us, Maria likes.'

ACC < DAT

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ACC < DAT

The winner of the competition — German

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NOM < ACC < DAT

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

NOM < ACC < DAT

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NOM < ACC < DAT

The winner of the competition — other languages

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- (6) **hòn** **hoi theoi philoũsin** apothnēskei néos
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)

The winner of the competition — other languages

NOM < ACC < DAT

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(Classical Greek, Menander, The Double Deceiver 125)
- (7) **themo min uuirdit forlazan,** min minnot
RP.SG.M.**DAT** less become.PRES.3SG read.INF_[DAT] less love.PRES.3SG_[NOM]
'whom less is read, loves less' (Old High German, Tatian 138:13)

The winner of the competition — other languages

NOM < ACC < DAT

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RP.SG.M.**DAT** less become.PRES.3SG read.INF_[DAT] less love.PRES.3SG_[NOM]
'whom less is read, loves less' (Old High German, Tatian 138:13)
- (8) 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 — German

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- (9) Ich lade ein, **wem** **auch** **Maria** **vertraut**.
1SG.NOM invite.PRES.1SG_[ACC] REL.AN._{DAT} also Maria.NOM trust.PRES.3SG_[DAT]
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internal vs. external case

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the internal case (INT) gets approved when it wins the case competition

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the internal case (INT) gets approved when it wins the case competition, the external case (EXT) does not

Whether the winner gets approved – German schema

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

Whether the winner gets approved — Old High German

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- (12) **themo min uuirdit forlazan, min minnot**
RP.SG.M.**DAT** less become.PRES.3SG read.INF[**DAT**] less love.PRES.3SG[**NOM**]
'whom less is read, loves less' (Old High German, Tatian 138:13)

Whether the winner gets approved — Old High German

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RP.SG.M.**DAT** less become.PRES.3SG read.INF_[DAT] less love.PRES.3SG_[NOM]
'whom less is read, loves less' (Old High German, Tatian 138:13)
- (13) **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)

Whether the winner gets approved – Old High German

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 ‘and he replied to the one who spoke to him’
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INT ^{EXT}	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Whether the winner gets approved — Polish

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- (14) *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 — Polish

- (14) *Jan lubi **komu** **-kolwiek dokucza.**
Jan like.3SG_[ACC] REL.**DAT**.AN.SG ever tease.3SG_[DAT]
‘Jan likes whoever he teases.’
- (15) *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.’

Whether the winner gets approved — Polish

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

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

Whether the winner gets approved — overview

Whether the winner gets approved — 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 — 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

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

Whether the winner gets approved — overview

$\begin{smallmatrix} \text{EXT} \\ \text{INT} \end{smallmatrix}$	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

$\begin{smallmatrix} \text{EXT} \\ \text{INT} \end{smallmatrix}$	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

$\begin{smallmatrix} \text{EXT} \\ \text{INT} \end{smallmatrix}$	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

$\begin{smallmatrix} \text{EXT} \\ \text{INT} \end{smallmatrix}$	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	*	ACC	DAT
[DAT]	*	*	DAT

Whether the winner gets approved — 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

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

Two generalizations

Two generalizations

- The winner of the case competition \rightarrow is stable across languages

Two generalizations

- The winner of the case competition → is stable across languages
NOM < ACC < DAT

Two generalizations

- The winner of the case competition → is stable across languages
NOM < ACC < DAT
- Whether the winner gets approved → differs across languages

Two generalizations

- The winner of the case competition → is stable across languages
NOM < ACC < DAT
- Whether the winner gets approved → differs across languages
INT/EXT approved

Two generalizations

- The winner of the case competition → is stable across languages
NOM < ACC < DAT
- Whether the winner gets approved → differs across languages
INT/EXT approved
 - INT approved
 - INT + EXT approved
 - none approved

Two generalizations

- The winner of the case competition → is stable across languages
NOM < ACC < DAT
 - Whether the winner gets approved → differs across languages
INT/EXT approved
 - INT approved
 - INT + EXT approved
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- 1 show the generalizations

Two generalizations

- The winner of the case competition → is stable across languages
NOM < ACC < DAT
 - Whether the winner gets approved → differs across languages
INT/EXT approved
 - INT approved
 - INT + EXT approved
 - none approved
- 1 show the generalizations
 - 2 derive the generalizations

Generalization 1: $NOM < ACC < DAT$

Generalization 1: NOM < ACC < DAT

<hr/>	
3sg	
<hr/>	
NOM	luw
ACC	
DAT	
<hr/>	

Generalization 1: NOM < ACC < DAT

<hr/>	
3sg	
<hr/>	
NOM	luw
ACC	luw- e:l
DAT	
<hr/>	

Generalization 1: NOM < ACC < DAT

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

Generalization 1: NOM < ACC < DAT

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

- syncretism patterns (ref)

Generalization 1: NOM < ACC < DAT

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

- syncretism patterns (ref)
- agreement (ref)

Generalization 1: NOM < ACC < DAT

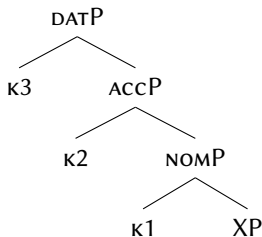
	3sg
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na

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

Generalization 1: NOM < ACC < DAT

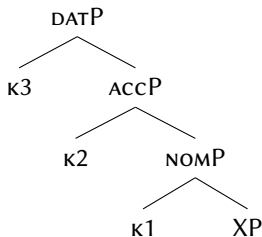
3sg	
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na

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

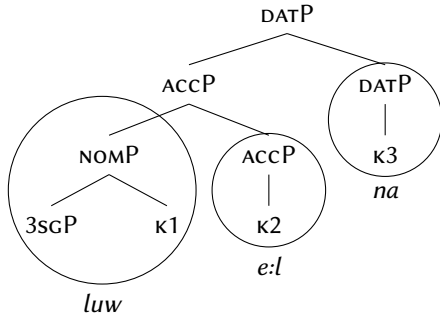


Generalization 1: NOM < ACC < DAT

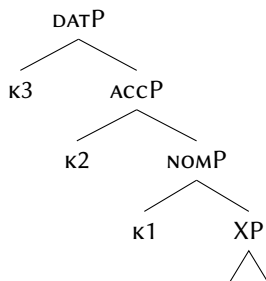
	3sg
NOM	luw
ACC	luw- e:l
DAT	luw- e:l-na



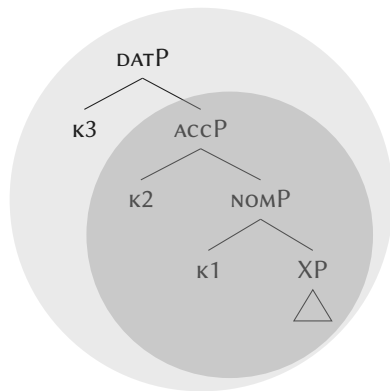
- syncretism patterns (ref)
- agreement (ref)
- relativization (ref)



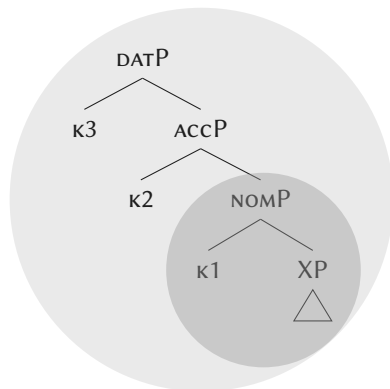
The winning case contains the losing case



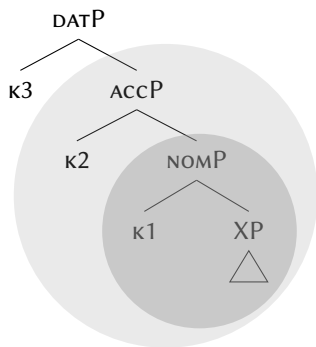
The winning case contains the losing case



The winning case contains the losing case

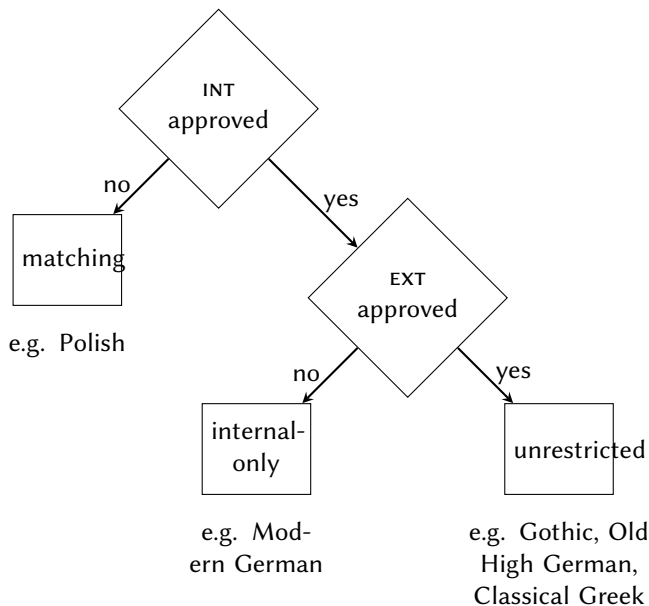


The winning case contains the losing case

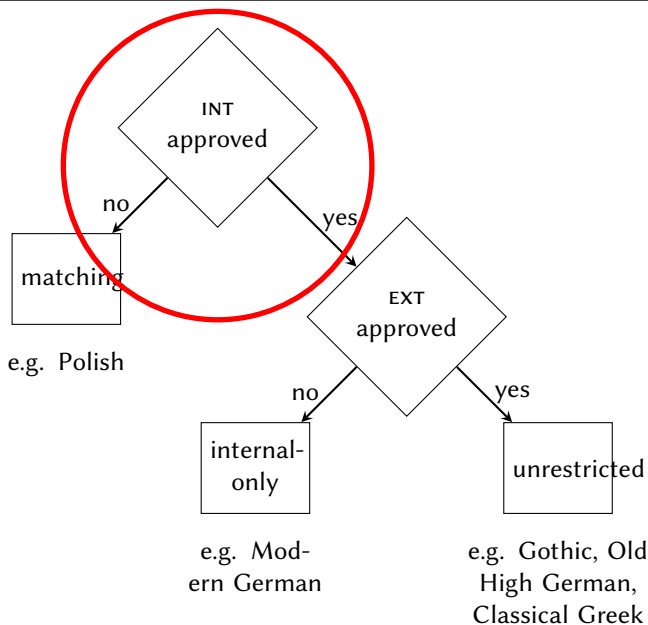


Generalization 2: INT/EXT approved

Generalization 2: INT/EXT approved



Generalization 2: INT/EXT approved



Borer-Chomsky Conjecture

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

Assumptions

Assumptions

- headless relatives are derived from light-headed relatives

Assumptions

- headless relatives are derived from light-headed relatives

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

Assumptions

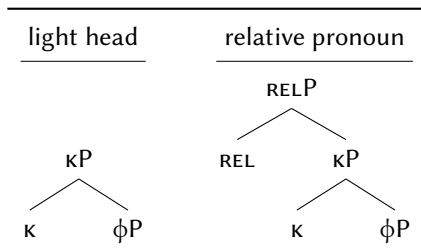
- headless relatives are derived from light-headed relatives
- deletion takes place when the light head is contained in the relative pronoun

Assumptions

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- deletion takes place when the light head is contained in the relative pronoun
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Different lexical entries

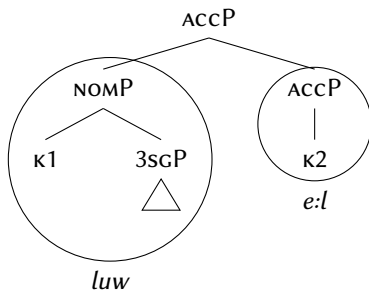
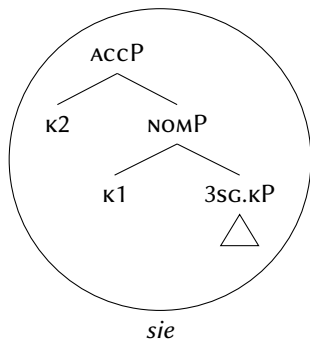
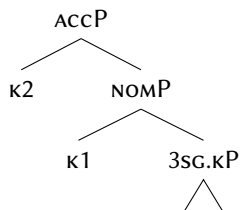


Table 1: Different language types in different situations

language type	situation	surface element
internal-only	$K_{INT} = K_{EXT}$	$RP_{INT/EXT}$
	$K_{INT} > K_{EXT}$	RP_{INT}
	$K_{INT} < K_{EXT}$	*
matching	$K_{INT} = K_{EXT}$	$RP_{INT/EXT}$
	$K_{INT} > K_{EXT}$	*
	$K_{INT} < K_{EXT}$	*

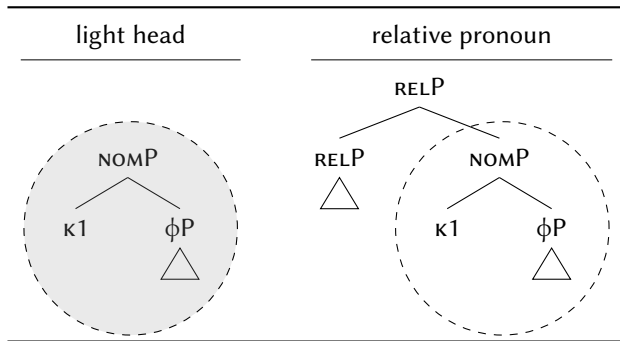


Figure 1: EXT_{NOM} VS. INT_{NOM} in the internal-only type

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