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.'

- (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.'
- (2) Ich lade die Person ein, **dem Maria**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**.

 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 ein, wen **auch Maria vertraut**.

 1SG.NOM invite.PRES.1SG[ACC] REL.AN.ACC also Maria.NOM trust.PRES.3SG[DAT]

 'I invite whoever Maria also trusts.'

■ the winner of the competition

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

- the winner of the competition \rightarrow is stable across languages
- lacktriangle whether the winner gets approved ightarrow differs across languages

- the winner of the competition \rightarrow is stable across languages
- \blacksquare whether the winner gets approved \rightarrow differs across languages
- show the generalizations

- the winner of the competition \rightarrow is stable across languages
- whether the winner gets approved \rightarrow differs across languages
- show the generalizations
- derive the generalizations

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

 1SG.NOM invite.PRES.1SG[ACC] REL.AN.ACC also Maria.NOM trust.PRES.3SG[DAT]

 'I invite whoever Maria also trusts.'

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

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 'I invite whoever Maria also trusts.'
- (4) *Ich lade ein, wen **auch Maria vertraut**.

 1SG.NOM invite.PRES.1SG[ACC] REL.AN.ACC also Maria.NOM trust.PRES.3SG[DAT]

 'I invite whoever Maria also trusts.'

ACC < DAT

- (3) 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.'
- (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

- (3) 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.'
- (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.'
- (5) *Uns besucht, wer Maria mag. 2PL.ACC visit.PRES.3SG[NOM] REL.AN.NOM Maria.NOM like.PRES.3SG[ACC] 'Who visits us, Maria likes.'

ACC < DAT

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

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 'I invite whoever Maria also trusts.'
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 'I invite whoever Maria also trusts.'
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 'Who visits us, Maria likes.'
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 'Who visits us, Maria trusts.'

- (3) 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.'
- (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.'
- (5) Uns besucht, **wem Maria vertraut**.

 2PL.ACC visit.PRES.3SG[NOM] REL.AN.DAT Maria.NOM trust.PRES.3SG[DAT]

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

 2PL.ACC visit.PRES.3SG_[NOM] REL.AN.NOM Maria.NOM trust.PRES.3SG_[DAT]

 'Who visits us, Maria trusts.'

- (3) 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.'
- (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.'
- (5) Uns besucht, **wem Maria vertraut**.

 2PL.ACC visit.PRES.3SG_[NOM] REL.AN.DAT Maria.NOM trust.PRES.3SG_[DAT]

 'Who visits us, Maria trusts.'

NOM < ACC < DAT

(6) **hòn hoi theoì philoũsin** apothnę́skei 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)

- (6) **hòn hoi theoì philoūsin** apothnę́skei néos

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 (Classical Creak Margarder The Davids Dec
- (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)

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 'He, whom the gods love, dies young.'

 (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)
- (8) ei galaubjaib 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)

- (9) 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.'
- (10) *Ich lade ein, wen **auch Maria vertraut**.

 1SG.NOM invite.PRES.1SG_[ACC] REL.AN.ACC also Maria.NOM trust.PRES.3SG_[DAT]

 'I invite whoever Maria also trusts.'

- (9) 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.'
- (10) *Ich vertraue, wem **auch Maria mag**.

 1sg.nom trust.pres.1sg_[DAT] Rel.An.DAT also Maria.nom like.pres.3sg_[ACC]

 'I trust whoever Maria also likes.'

- (9) 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.'
- (10) *Ich vertraue, wem **auch Maria mag**.

 1sg.nom trust.pres.1sg_[DAT] rel.an.dat also Maria.nom like.pres.3sg_[Acc]

 'I trust whoever Maria also likes.'
- (11) *Ich vertraue, wen auch Maria mag.

 1sc.nom trust.pres.1sc[DAT] REL.AN.ACC also Maria.nom like.pres.3sc[ACC]

 'I trust whoever Maria also likes.'

- (9) 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.'
- (10) *Ich vertraue, wem **auch Maria mag**.

 1sg.nom trust.pres.1sg_[DAT] rel.an.dat also Maria.nom like.pres.3sg_[Acc]

 'I trust whoever Maria also likes.'
- (11) *Ich vertraue, wen auch Maria mag.

 1sg.nom trust.pres.1sg[dat] rel.an.acc also Maria.nom like.pres.3sg[acc]

 'I trust whoever Maria also likes.'

internal vs. external case

- (9) 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.'
- (10) *Ich vertraue, wem **auch Maria mag**.

 1sg.nom trust.pres.1sg_[DAT] rel.an.dat also Maria.nom like.pres.3sg_[Acc]

 'I trust whoever Maria also likes.'
- (11) *Ich vertraue, wen auch Maria mag.

 1sg.nom trust.pres.1sg[dat] rel.an.acc also Maria.nom like.pres.3sg[acc]

 'I trust whoever Maria also likes.'

the internal case gets approved when it wins the case competition

- (9) 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.'
- (10) *Ich vertraue, wem **auch Maria mag**.

 1sg.nom trust.pres.1sg_[DAT] rel.an.dat also Maria.nom like.pres.3sg_[Acc]

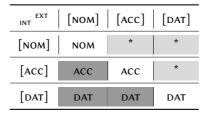
 'I trust whoever Maria also likes.'
- (11) *Ich vertraue, wen auch Maria mag.

 1sg.nom trust.pres.1sg[dat] rel.an.acc also Maria.nom like.pres.3sg[acc]

 'I trust whoever Maria also likes.'

the internal case gets approved when it wins the case competition, the external case does not

Whether the winner gets approved — German schema



(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)

- (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)
- (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)

- (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)
- (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)

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

(14) *Jan lubi **komu -kolkwiek dokucza**.

Jan like.3sG_[ACC] REL.DAT.AN.SG ever tease.3sG_[DAT]

'Jan likes whoever he teases.'

- (14) *Jan lubi komu -kolkwiek dokucza.

 Jan like.3sG_[ACC] REL.DAT.AN.SG ever tease.3sG_[DAT]

 'Jan likes whoever he teases.'
- (15) *Jan ufa komu -kolkwiek wpuścil do domu. Jan trust. $3sG_{[DAT]}$ REL.DAT.AN.SG ever let. $3sG_{[Acc]}$ to home 'Jan trusts whoever he let into the house.'

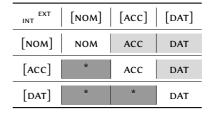
- (14) *Jan lubi komu -kolkwiek dokucza.

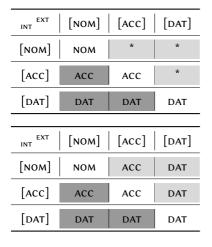
 Jan like.3sG_[ACC] REL.DAT.AN.SG ever tease.3sG_[DAT]

 'Jan likes whoever he teases.'
- (15) *Jan ufa komu **-kolkwiek wpuścil do domu.**Jan trust.3sG_[DAT] REL.DAT.AN.SG ever let.3sG_[ACC] to home
 'Jan trusts whoever he let into the house.'

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

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





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

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

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

Two generalizations

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

Introduction — case in headless relative clauses

```
(16) gaarma þan -ei arma
pity.pres.1sg<sub>[ACC]</sub> rel.sg.m.acc -comp pity.pres.1sg<sub>[ACC]</sub>
'I pity him whom I pity' (Gothic, rom 9:15)
```

Introduction — case competition (Harbert 1978)

- (18) jah þo -ei ist us Laudeikaion jus and REL.SG.N.ACC -COMP be.PRES.3SG[NOM] from Laodicea 2PL.NOM ussiggwaid read.[ACC] 'and you read the one which is from Laodicea' (Gothic, COL 4:16)
 - internal case
 - external case

Two aspects

- Which case wins the case competition?
- Is the winner of the case competition allowed to surface?

Which case wins the case competition?

NOM < ACC < DAT

Gothic — matching data (Harbert 1978)

```
(19) ei sa -ei þis matjai, ni
COMP REL.SG.M.NOM -COMP DEM.SG.M.GEN eat.OPT.3SG[NOM] not
gadauþnai
die.OPT.3SG[NOM]
'that the one, who eats of this may not die' (JOHN 6:50)
```

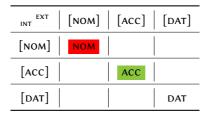
- (20) gaarma **þan -ei arma**pity.1sg_[ACC] rel.sg.m.ACC -comp pity.1sg_[ACC]

 'I pity him, whom I pity' (ROM 9:15)
- (21) nist mein du giban, alja **þaim -ei**is not 1sg.poss.nom to give.inf_[DAT] except for rel.sg.m.dat -comp **manwiþ was**prepare.ptcp be.pret.3sg_[DAT]

 'it is not mine to give except for to the one, for whom it was prepared'

 (MARK 10:49)

Gothic — overview matching



Gothic — NOM vs. Acc data (Harbert 1978)

```
(22)
                                 siuks ist
       ban
            -ei
                       frijos
       REL.SG.M.ACC -COMP love.PRES.2SG.[ACC] sick be.PRES.3SG[NOM]
       'the one whom you love is sick'
                                                                 (JOHN 11:3)
```

```
(23)
      jah þo
             -ei ist
                               us
                                             Laudeikaion jus
      and REL.SG.N.ACC -COMP be.PRES.3SG[NOM] from Laodicea
                                                         2.PL.NOM
      ussiggwaid
      read.[ACC]
       'and you read the one which is from Laodicea'
                                                              (COL 4:16)
```

Gothic — overview nom vs. Acc

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

Gothic — NOM vs. DAT data (Harbert 1978)

- (24) iþ **þamm** -ei **leitil fraletada** leitil frijod but REL.SG.M.DAT -COMP little forgive.PASS.PRES.3SG[DAT] little love[NOM] 'but the one whom little is forgiven loves little' (LUKE 7:47)
- (25) þaim **-ei iupa sind** fraþjaiþ
 REL.PL.N.DAT -COMP above be.PRES.3PL_[NOM] think about.OPT.PRES.2PL_[DAT]
 'think about those which are above' (COL 3:2)

Gothic — overview NOM — DAT

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

Gothic — ACC vs. DAT data (Harbert 1978)

```
(26) ushafjands ana þamm -ei lag
pick up.PRES.PTCP<sub>[ACC]</sub> on<sub>[DAT]</sub> REL.SG.N.DAT -COMP lie.PRET.3SG
'picking up that what he lay on' (LUKE 5:25)
```

```
(27) ei galaubjaiþ 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)
```

Gothic — overview ACC — DAT

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

Gothic: overview summary

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

Which case wins the case competition?

NOM < ACC < DAT

Is the winner of the case competition allowed to surface?

- Is the internal case allowed to surface?
- Is the external case allowed to suface?

4 possible language types

The unrestricted type

the internal and the external case are allowed to surface when either of them wins the case competition

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

The internal-only type

only the internal case is allowed to surface when it wins the case competition

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

The external-only type

only the external case is allowed to surface when it wins the case competition

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

The matching type

neither the internal case nor in the external case is allowed to surface when either of them wins the case competition

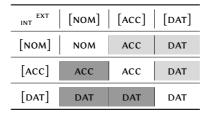
EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

All types together

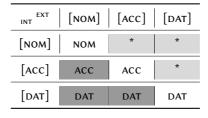
INT	[NOM]	[ACC]	[DAT]			
[NOM]	NOM	ACC	DAT			
[ACC]	ACC	ACC	DAT			
[DAT]	DAT	DAT	DAT			
INT EXT	[NOM]	[ACC]	[DAT]			
	1					
[NOM]	NOM	*	*			
[NOM]	NOM ACC	* ACC	*			

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

Gothic as the unrestricted type



German as the internal-only type



German — matching data (Vogel 2001)

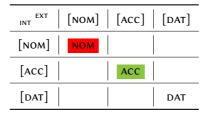
- (28) Uns besucht, wer Maria mag.

 2PL.ACC visit.PRES.3SG[NOM] REL.AN.NOM Maria.ACC like.PRES.3SG[NOM]

 'Who visits us likes Maria.'
- (29) Ich lade ein, wen auch Maria mag. 1SG.NOM invite.PRES.1SG[ACC] REL.AN.ACC Maria.NOM like.PRES.3SG[ACC] 'I invite who Maria also likes.'
- (30) Ich forede, wem immer ich
 1sg.nom forede.PRES.1sg[DAT] REL.AN.DAT ever 1sg.nom
 vertraue.

vertraue.PRES.3SG[DAT]
'I follow whoever I trust.'

German — overview matching



German — Nom vs. Acc data (Vogel 2001)

- (31) Uns besucht, **wen Maria mag**.

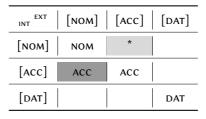
 2PL.ACC visit.PRES.3SG_[NOM] REL.AN.ACC Maria.NOM like.PRES.3SG_[ACC]

 'Who visits us, Maria likes.'
- (32) *Uns besucht, wer **Maria mag**.

 2PL.ACC visit.PRES.3SG_[NOM] REL.AN.NOM Maria.NOM like.PRES.3SG_[ACC]

 'Who visits us, Maria likes.'
- (33) *Ich lade ein, wen mir sympathisch
 1sg.nom invite.pres.1sg_[ACC] REL.AN.ACC 1sg.DAT nice
 ist.
 be.pres.3sg_[NOM]
 'I invite who I like.'
- (34) *Ich lade ein, wer mir sympathisch 1sg.nom invite.pres.1sg[acc] rel.an.nom 1sg.dat nice ist.
 be.pres.3sg[nom]
 'I invite who I like.'

German — overview Nom — Acc



German — NOM vs. DAT data (Vogel 2001)

- (35) Uns besucht, **wem Maria vertraut**.

 2PL.ACC visit.PRES.3SG[NOM] REL.AN.DAT Maria.NOM trust.PRES.3SG[DAT]

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

 2PL.ACC visit.PRES.3SG_[NOM] REL.AN.NOM Maria.NOM trust.PRES.3SG_[DAT]

 'Who visits us, Maria trusts.'
- (37) *Ich vertraue, wem **Hitchcock mag.**1sg.nom trust.pres.1sg_[DAT] rel.an.dat Hitchcock.acc like.pres.3sg_[NOM]
 'I trust who likes Hitchcock.'
- (38) *Ich vertraue, **wer Hitchcock mag.**1SG.NOM trust.PRES.1SG_[DAT] REL.AN.NOM Hitchcock.Acc like.PRES.3SG_[NOM]
 'I trust who likes Hitchcock.'

German — overview NOM — DAT

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

German — Acc vs. DAT data (Vogel 2001)

- (39) 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.'
- (40) *Ich lade ein, wen **auch Maria vertraut**.

 1SG.NOM invite.PRES.1SG_[ACC] REL.AN.ACC also Maria.NOM trust.PRES.3SG_[DAT]

 'I invite whoever Maria also trusts.'
- (41) *Ich vertraue, wem **auch Maria mag**.

 1sg.nom trust.pres.1sg_[DAT] rel.an.dat also Maria.nom like.pres.3sg_[Acc]

 'I trust whoever Maria also likes.'
- (42) *Ich vertraue, wen auch Maria mag.

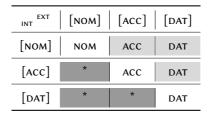
 1sg.nom trust.pres.1sg[dat] rel.an.acc also Maria.nom like.pres.3sg[acc]

 'I trust whoever Maria also likes.'

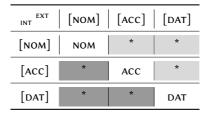
German — overview ACC — DAT

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

No external-only type



Polish as the matching type



Polish — matching data (Citko 2013 after Himmelreich 2017)

- (43) Jan lubi **kogo** -**kolkwiek Maria lubi**.

 Jan like.3sG_[ACC] REL.ACC.AN.SG ever Maria like.3sG_[ACC]

 'Jan likes whoever Maria likes.'
- (44) Jan pomaga **komu -kolkwiek ufa**.

 Jan help.3sg_[DAT] REL.DAT.AN.SG ever trust.3sg_[DAT]

 'Jan helps whomever he trusts.'

Polish — overview matching

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

Polish — Acc vs. DAT data (Citko 2013 after Himmelreich 2017)

- (45) *Jan lubi komu -kolkwiek dokucza.

 Jan like.3sG_[ACC] REL.DAT.AN.SG ever tease.3sG_[DAT]

 'Jan likes whoever he teases.'
- (46) *Jan lubi kogo **-kolkwiek dokucza**.

 Jan like.3sG_[ACC] REL.ACC.AN.SG ever tease.3sG_[DAT]

 'Jan likes whoever he teases.'
- (47) *Jan ufa komu -kolkwiek wpuścil do domu. Jan trust. $3sG_{[DAT]}$ REL.DAT.AN.SG ever let. $3sG_{[Acc]}$ to home 'Jan trusts whoever he let into the house.'
- (48) *Jan ufa kogo -kolkwiek wpuścil do domu.

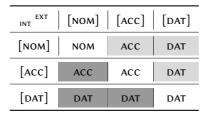
 Jan trust.3sG[DAT] REL.ACC.AN.SG ever let.3sG[ACC] to home

 'Jan trusts whoever he let into the house.'

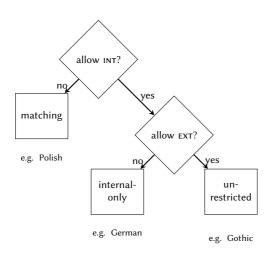
Polish — overview ACC vs. DAT



The table again



Is the winner of the case competition allowed to surface?



Two aspects

- Which case wins the case competition? NOM < ACC < DAT
- Is the winner of the case competition allowed to surface?
 INT + EXT, INT or none

No case competition: always internal vs. always external

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT
EXT INT	[NOM]	[ACC]	[DAT]
	[NOM]	[ACC]	DAT]
INT		<u> </u>	

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

No always internal type

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

Greek as always external type

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

Greek NOM_{INT} vs. ACC_{EXT} (Daskalaki 2011)

(49) Efχarístisa ópjus **me voíðisan**. thank.PST.3PL_[ACC] REL.PL.M.ACC CL.1SG.ACC help.PST.3PL_[NOM] 'I thanked whoever helped me.'

Three possibilities for Greek

INT EXT	[NOM]	[ACC]	[GEN]
[NOM]	NOM	ACC	GEN
[ACC]	*	ACC	GEN
[GEN]	*	*	GEN
EXT INT	[NOM]	[ACC]	[GEN]
	[NOM]	[ACC]	[GEN]
INT	 		1

EXT INT	[NOM]	[ACC]	[GEN]
[NOM]	NOM	ACC	GEN
[ACC]	NOM	ACC	GEN
[GEN]	NOM	ACC	GEN

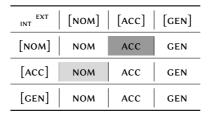
Greek NOM_{INT} vs. ACC_{EXT} (Daskalaki 2011)

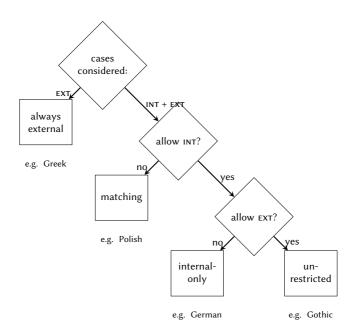
- (50) Irθan ópji káleses. come.pst.3pL_[NOM] REL.PL.M.NOM invite.pst.2sG_[ACC] 'Whoever you invited came.'
- (51) *Irθan **ópjus káleses**.

 come.PST.3PL_[NOM] REL.PL.M.ACC invite.PST.2SG_[ACC]

 'Whoever you invited came.'

Greek: always external





Possible patterns for headless relatives

	[INT]	[INT]>[EXT]]>[INT]	
	INT	EXT	INT	EXT	language
1	<u></u>	*	<u> </u>	*	n.a.
2	✓	*	*	✓	e.g. Gothic
3	✓	*	*	*	e.g. German
4	*	\checkmark	~	*	n.a.
5	*	\checkmark	*	✓	e.g. Greek
6	*	\checkmark	*	*	n.a.
7	*	*	~	*	n.a.
8	*	*	*	\checkmark	n.a.
9	*	*	*	*	e.g. Polish

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