Untangling IPP word order restrictions

Jan-Wouter Zwart
Groningen

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1. Introduction

(1) *Past participle morphology (Dutch)*
a.
Ik heb ge-werk-t
I have GE-work-D
'I have worked.'

b.
Ik ben ge-kom-en
I am GE-come-N
'I have come.'

c. *Ablaut*
Ik heb ge-zong-en (< zingen)
I have GE-sing$_{ABL}$-N
'I have sung.'

d. *suppletion*
Ik ben ge-wees-t (< zijn)
I am GE-be$_{SUPPL}$-N
'I have gone.'

(2) *Infinitivus pro participio (IPP) (Dutch)*
a. * Ik heb ge-wil-d werk-en
I have GE-want-D work-INF

b.
Ik heb **will-en** werk-en
I have want-INF work-INF
'I wanted to work.'

c. * Ik heb hem ge-zie-n werk-en
I have him GE-see-N work-INF

d.
Ik heb hem **zie-n** werk-en
I have him see-INF work-INF
'I saw him work.'

e. * Ik heb ge-staa-n werk-en
I have GE-stand-N work-inf

f.
Ik heb **staa-n** werk-en
I have stand-INF work-INF
'I was working for a while.'

(3) *IPP with suppletive form (Dutch)*
Ik ben **wez-en** zwemm-en
I am be$_{SUPPL}$-INF swim-INF
'I went for a swim.'

2. Word order generalizations

(4) IPP requires: 1-2-3 auxiliary$_1$ →participle$_2$ →infinitive$_3$ (Dutch)

(5) No IPP with: 3-2-1 infinitive$_3$ ←participle$_2$ ←auxiliary$_1$ (Frisian, Stellingwerfs)

(6) *Stellingwerfs* (Bloemhoff 1977)
..dat Jan dat doe-n **kun-d** had (*kunn-en) (3-2-1)
that John that do-INF can-D had
'..that John could have done that.'

(7) But: cases of optional IPP with 3-2-1:

a. *Achterhoeks* (Blom & Hoekstra 1996)
..dat ik schriev-m {**will-n** , **e-wil-d** } had (3-2-1)
that I write-INF want-INF GE-want-D had
'..that I had wanted to write.'

b. *Swabian* (Steil 1989), among other orders
| ..daß | d | Anna | ons | bsuach-a | **well-a** | had | (3-2-1) |
'..that Anna wanted to visit us.'

that the Anna us visit-INF want-INF has

b. *Swabian* (Steil 1989), among other orders

..daß d Anna ons bsuach-a **well-a** had (3-2-1)
that the Anna us visit-INF want-INF has
'..that Anna wanted to visit us.'

c. *Austrian Bavarian* (Wurmbrand 2004): 3-2-1 with IPP acceptable in judgment task

(8) IPP in optional orders

a. *Standard German* (Wurmbrand 2004)

..daß er es hat **lös-en** könn-en (1-3-2)
that he it has solve-INF can-INF
'..that he was able to solve it.'

b. *West Flemish* (Haegeman 1994)

..da Valère nie nor us **will-en** kom-en eet (2-3-1)
that Valery not to house want-INF come-INF has
'..that Valery did not want to come home.'

c. *Austrian Bavarian* (Patocka 1997)

..da ma wås lean-a hettn **soi-n** (3-1-2)
that we something learn-INF had shall-INF
'..that we should have learned something.'

(9) *New generalization*
IPP in 2-3 clusters occurs without exception:
1-2-3 Dutch
2-3-1 West Flemish
2-1-3 does not occur

3. 2-3 without IPP

(10) *Samatimeric* (Mileck 1997)
a. iə hed si **g-seː-ŋ** fuəd-fɔa-n ([1]-2-3)
you:PL have them GE-see-N away-go-INF
'You saw them drive off.'

b. ɛə hɔd **k-holf-n** ʊmgrɔːm ([1]-2-3)
he has GE-help$_{ABL}$-N dig:INF
'He helped shovel.'

(11) *Luxemburgisch* (Bruch 1973)
a. Hoffentlich huet keen dech **ge-si** go-en ([1]-2-3)
hopefully has noone you GE-see go-INF
'Hopefully noone saw you leave.'

b. Echhun dat **ge-spier-t** komm-en ([1]-2-3)
I have that GE-see-D come-INF
'I saw that coming.'

(12) *Austrian Bavarian* (Patocka 1997)
a. bin i aa dei **gång** fråg-n ([1]-2-3)
am I also DEMGE:go$_{SUPPL}$:Nask-INF
'So I went and asked them too.'

b. nåchdem håt des Gårn **miaß-t** g-wåsch-n wead-n ([1]-2-4-3)
afterwards has the net must-D GE-wash-N become-INF
'Afterwards the net must be washed.'

(13) *Siberian Mennonite Plautdiitsch* (Jedig 1969)
a.   äm kunt^a   haud-st   **kun-t**   neːm^e   ([1]-2-3)
    the Walachian had-2SG   can-D   take:INF
    'You could have taken the Walachian [a horse].'

b.   däi   haːft   **j^e-ŝpiː^e-t**   äm prodaväts koːm^e   ([1]-2-3)
    DEM has   GE-see-D   the merchant   come:INF
    'He saw the merchant come.'

(14) *Zimbrian* (Schweitzer 1939)
a.   de pruoder   dahuame   henn-en   nixt **ga-sex-t**   kxenn-j   ([1]-2-3)
    the brothers   at.home   have-him   not GE-see-D   come-INF
    'The brothers at home did not see him come.'

b.   alora   inj hêrre   hêt-ar   **ga-wou-t**   faŋ-an wänte   ([1]-2-3)
    then   the man   has-he   GE-want-D   take-INF rocks
    'Then the man wanted to pick up rocks.'

(15) *Afrikaans* (Du P. Scholtz 1963)
    ..dat   ek   **ge-kom**   werk   het   (2-3-1)
    that   I   GE-come   work:INF   have

(16)   Yiddish, Middle High German, Middle Dutch

4. Status of the V3 infinitive

(17)   Funny aspects about the [2-3] orders without IPP:

a.   V3 infinitive must be final, yielding the 2-1-3 order found **only with extraposition** elsewhere (18)
b.   the relevant dialects generally have descending (3-2-1) orders (19)
c.   there is a 3-2 alternative with IPP (20)
d.   the infinitive may be 'satzwertig' (21)

(18)   V3 infinitive must be final (*d.n.a.* to Afrikaans, Zimbrian, Yiddish)

a.   *Luxemburgish* (Bruch 1973)
    ob-s   de holländesch **ge-léier-t** hues   schwätz-en   (2-1-3!!)
    whether-2SG   you Dutch   GE-learn-D have   speak-INF
    'whether you learned to speak Dutch.'

b.   *Zurich Swiss German* (Lötscher 1978)
    ..wil   er en **ghöör-t**   hät choo   (2-1-3!!)
    because   he him hear-D   has come:INF
    '..because he heard him come.'

    [Note: Zurich Swiss German has IPP with [1]-2-3, but Lötscher notes that there is a tendency for participles to appear where infinitives are expected, suggesting another case of 2-3 without IPP]

(19)   temporal auxiliary follows the participle in embedded clauses

    Siberian Mennonite Plautdiitsch (Jedig 1969)
    van mo^a   de mut^a   niç j^e-ŝtorv^e   veː^a   (2-1)
    if   only   the mother not GE-die:N   were
    'If only mother hadn't died.'

(20)   competition with IPP-variant

a.   *Siberian Mennonite Plautdiitsch* (Jedig 1969)
       jiː   haud   **t'eːnᵉ** häːvᵉ   ([1]-2-3)
      you:PL   had   can:INF mow:INF
      'You could have mown.'

b.   *Samatimeric* (Mileck 1997)
      iə   hed   si   fuəd-fɔa-n   **sɛː-ŋ**   ([1]-3-2)
      you:PL have   them   away-go-INF   see-INF
      'You saw them drive off.'

c.   *Luxemburgish* (Bruch 1973)
      wa   keen   dech   hätt **héier-e**   komm-en   (1-2-3)
      when   noone you   had hear-INF   come-INF
      '..when noone would have heard you come.'

d.   *Austrian Bavarian* (Patocka 1997)
      wiar   i   mit knecht und dian   håun   åabat-n   **miass-n**   (1-3-2)
      how   I   with servant and maid have   work-INF   must-INF
      'how I had to work with servants and maids.'

e.   *Zurich Swiss German* (Lötscher 1978)
      ..wil   er en **ghöör-e** choo   hät   (2-3-1)
      because   he him hear-INF come:INF   has
      '..because he heard him come.'

(21)   V3 infinitive may be 'satzwertig'

a.   *Samatimeric* (Mileck 1997)
      miə hɔm   si   **k-sɛː-ŋ**   [mid iən kɪnd   haːm   gɛ̃ː]   ([1]-2-3)
      we have   her GE-see-N   with   her child   home   go:INF
      'We saw her go home with her child.'

b.   *Siberian Mennonite Plautdiitsch* (Jedig 1969)
      däi   haːft   **jᵉ-ŝpiːᵉ-t**   [äm prodaväts koːmᵉ]   ([1]-2-3)
      DEM has   GE-see-D   the merchant   come:INF
      'He saw the merchant come.'

(22)   *reminiscent of the 'third construction'*

a.   *Dutch*
      ..dat   hij het **ge-probeer-d** heeft [te lez-en]   (2-1-3)
      that   he   it   GE-try-D   has   to read-INF
      '..that he tried to read it.'

b.   *Frisian* (Reuland 1990)
      ..dat   er my dat boek **ferbea-n**   hat   [te lêz-en]   (2-1-3)
      that   he me that book   forbid-N   has   to read-INF
      '..that he forbid me to read that book.'

(23)   *Hypothesis*

a.   2 = IPP   [1 - 2 - 3]   (order irrelevant)
b.   2 = participle   [1 - 2] 3   (order irrelevant within [cluster])

(24)   3-2 orders without IPP: intraposition

a.   *Austrian Bavarian* (Patocka 1997)
wånn-st   iawand   såg-n   hå-st   **g-hea-t**   (3-1-2)
when-2SG   someone   say-INF   have-2SG   GE-hear-D
'when you heard someone say'

b.   *Samatimeric* (Mileck 1997)
ɛa   hɔd   mi   kʊm-a   **g-sɛː-ŋ**   ([1]-3-2)
he   has   me   come-INF   GE-see-N
'He saw me come.'

c.   *Samatimeric* (Mileck 1997)
du   hɔsdra   kox-n   **k-holf-n**   ([1]-3-2)
you   have.her   cook-INF   GE-help_{ABL}-N
'You helped her cook.'

d.   *Luxemburgish* (Bruch 1973)
deen   de   leit   moral   priedig-en   as   **gaang**   (3-1-2)
REL   the   people   ethics   preach-INF   is   ge:go_{SUPPL}
'who has gone preach ethics to the people'

e.   *Luxemburgish* (Bruch 1973)
deen   de   leit   moral   priedig-e   **gaang**   as   (3-1-2)
REL   the   people   ethics   preach-INF   ge:go_{SUPPL}   is
'who has gone preach ethics to the people'

f.   *Siberian Mennonite Plautdiitsch* (Jedig 1969)
ät'   haː   äm   hoːn   sjriː-^{e} **j^e-hi^e-d**   ([1]-3-2)
I   have   the   cock   crow-INF   GE-hear-D
'I heard the cock crow.'

(25)   2 = participle   3 [1 - 2]   (order within cluster irrelevant) (cf. (23))

(26)   The IPP-effect occurs whenever a participle takes an infinitive in its complement domain (i.e. the infinitive is not 'extraposed').

(27)   a. [V1 [V2 [V3]]]   IPP

b. [[V1 [V2]]   &   [V3]   ]   participle

5.   Status of *ge*

(28)   *History of* ge (Van Swaay 1899, Van Dijk 1998)

a.   preverb meaning FULL, COMPLETE   →
b.   telicity inducing particle   →
c.   perfective marker   →
d.   relative tense marker   →
e.   (some dialects) simple past marker

(29)   *Gothic* ga-mains   ~   *Latin*   com-munis
Dutch ge-zusters   'sisters of each other'

(30)   *Gothic* lisan   'reap'   ~   ga-lisan   'collect'
Dutch   ge-knield   'kneeled down'

(31)   *Dutch* ge-zeg-d-e   'what has been said'   ~   *Latin* praedicatum   'predicate'
GE-say-D-NOM

(32) *Dutch*
Ik   heb   het ge-wet-en   (state)
I   have it GE-know-N
'I knew it.'

(33) *Zimbrian* (Schweitzer 1939:94)
un hat-en   funt-at nôu˜ in de tave'rn g'-er   hat   ga-trinkx-et
and has-him   find-D still in the tavern where-he   has   GE-drink-D
'and he found him still in the tavern where he *was drinking*'

(34) Infinitive: perfect functioning as simple past

a.   Hij beweert   dat hij sliep   toen ik binnen kwam   (Dutch)
      he claims   that he sleep:PAST when I   in   come:PAST
      'He claims that he was asleep when I came in.'

b.   Hij beweert   ge-slap-en te hebben   toen ik binnen kwam
      he claims   GE-sleep-N to have:INF   when I   in   come:PAST
      'He claims to have been asleep when I came in.'

(35) The application of *ge* to the past participle was already productive in Old Saxon / Old High
      German (Prokosch 1939:205) →IPP effect must be old.
      [Kern (1912:49) and Paul (1920:128) date the earliest cases of IPP in Middle High German in the early 13th century,
      which led to the hypothesis that IPP is an innovation involving *suppression* of *ge*. This scenario predicts the Middle High
      German (and Middle Dutch) should have *ge*-less participles instead of infinitives in the IPP construction, contrary to fact
      (Kern *loc cit*). Instead we assume (with Paul *loc cit*) that *ge*-less participles where assimilated to infinitives already before
      the Middle High German period.]

(36) *2-verb cluster*   *3-verb cluster (IPP)*   *3-verb cluster (modal)*

a.   AUX ... *ge* .... [participle]   AUX ... participle ... infinitive   AUX ... infinitive ... infinitive   →
b.   AUX ... *ge* + participle   AUX ... *ge*-less part...infinitive AUX ... infinitive ... infinitive   →
c.   AUX ... *ge* + participle   AUX ... infinitive ... infinitive (**IPP**) AUX ... infinitive ... infinitive

(37) *Vestiges of* ge-*less participles in IPP-clusters*

a.   *Dutch* (*West Flemish, Western East Flemish, parts of Antwerp province and Belgian Brabant*)
      Hij is   wees-t   viss-en
      he is   be_{SUPPL}-D   fish-INF
      'He has been out fishing.' (De Schutter 1974 [1983:273-275])

b.   *Dutch* (*Zeeuws, West Brabantish, northern Antwerp province, and parts of Belgian Brabant*)
      Hij is   wees-t-en   viss-en
      he is   be_{SUPPL}-D-INF   fish-INF
      'He has been out fishing.' (*loc cit*)

c.   *Altenburgisch* (Weise 1900:154)
      ..dass ihm   kein   Mensch was   hat   konn-t an-hab-en   (1-2-3)
      that   him   no   man   something has   can-D on-have-INF
      '..that noone could do anything to him.'

d.   *Dillingen (Saar)* (Labouvie 1938:105)
      Er hat   nicht möch-t-en komm-en
      he has   not   may-D-INF come-INF
      'He was not allowed to come.'

e.   *Early Middle Dutch* (Heersche 1991:166)
      ..of   hi also   alse   recht es hem   heuet daen   sinn-en
      whether   he thus   like   just   is him   has   do_{SUPPL}:N excuse-INF
      '..whether he thus rightly let himself be excused.'

(38) *Hypothesis*
      The IPP-effect is the result of analogical leveling of a *ge*-less participle to an infinitive

6. The tense of infinitives

(39) An infinitive is [+tense] if it expresses tense information

(40) Simple past = once removed from the here and now (cf. Ebeling 1962:92)

(41) Test: cotemporaneity with reference point in the past → (34a,b)

(42) An infinitive is [+tense] if it shifts to an aux+participle construction to express cotemporaneity
      with a reference point in the past

a.   Ik {   sliep   / *heb   ge-slap-en }   toen   hij binnen kwam
      I   sleep:PAST have   GE-sleep-N   when   he   in   came

b.   Ik moet {   ge-slap-en hebben /   *slap-en   }   toen   hij binnen kwam
      I   must   GE-sleep-N have:INF   sleep-INF }   when   he   in   came

(43) The complement of IPP-verbs is always [−tense]

	subject control (*proberen, durven*)	ECM (*zien, horen*)	deontic modal	epistemic modal	raising (*schijnen, blijken*)	subject control (*beweren, hopen*)
TENSE	−	−	−	**+**	**+**	**+**
IPP	**+**	**+**	**+**	(−)	(−)	−

(44) deontic vs. epistemic

a.   Jij moet ge-slap-en hebben   toen   ik binnen kwam   (probability/*obligation)
      you must GE-sleep-N have:INF when   I   in   came
      'You must have been asleep when I came in.'
      NB, also irrelevant relative tense reading: You must have had your nap when I came in.

b.   Jij moet van mij ge-slap-en hebben   toen   hij binnen kwam (only obligation)
      you must of me GE-sleep-N have:INF   when   he   in   came
      'I demand that you have rested by the time he came in.'

c.   Jij hebt moet-en   slapen   (IPP: only obligation)
      you have must-INF   sleep:INF
      'It had to sleep.'
      *'You probably slept.'

(45) conative verbs may have a coerced tensed complement: then no IPP

a.   Hij heeft ge-probeer-d [gekozen   te worden   morgen]
      he has   GE-try-D   elected   to become   tomorrow
      'He tried to (make arrangements such that he would) be elected tomorrow.'

b. * Hij heeft   prober-en   [gekozen   te worden   morgen]
      he has   try-INF   elected   to become   tomorrow

(46) Proposal: an event is bounded by: D on a nominal complement
                                          T on a clausal complement

(47) a. John completed the/a letter {in/*for} 10 minutes
     b. John completed letters {for/*in} 10 minutes

(48) a. John saw the play {in/for} 10 minutes
     b. John saw us play {for/*in} 10 minutes

(49) *Atelicity of ECM complements*
a. Ik heb   het boek   ge-lez-en   b. Ik liet   het boek   lez-en
    I   have   the book   GE-read-N   I   let:PAST   the book   read-INF
    'I read the book.'   'I let (sc. them) read the book.'
    [book is finished]   [book is not finished, possibly not even read]

c. Ik heb   de film   ge-zie-n   d. Ik heb   de film   zien   op nem-en
    I   have   the movie GE-see-N   I   have   the movie see-INF up take-INF
    'I saw the movie.'   'I saw (sc. them) shoot the movie.'
    [the whole movie]   [some segment of the shooting process]

(50) tenseless complement → unbounded event → incompatible with *ge* → *ge*-less participle/IPP

(51) Perhaps: no T → no C → no phase (phasal/interpreted complement is what bounds events)

(52) *let*
a. laten   stikken   b. laten   zitten
    let   suffocate   let   sit
    'abandon, leave to one's own devices'   'give up, forget about'

c. laten   vallen
    let   fall
    'drop, cease to pursue' 'abandon, withdraw support'

(53) *see*
a. iemand   zien   zitten   b. iemand   niet   zien   staan
    someone   see   sit   someone   not   see   stand
    'appreciate someone'   'ignore someone, fail to respect someone'

(54) *noncompositionality*
a. Hij heeft   mij lat-en   stikk-en   b. # Ik ben ge-stik-t
    he has   me   let-INF suffocate-INF   I   am GE-suffocate-D
    'He abandoned me.'   'I suffocated'
                                                    (*not* 'I was abandoned')

c. Hij heeft   mij nooit   zie-n   zitt-en
    he has   me never   see-INF sit-INF
    'He never liked me.'

d. # Ik heb   nooit   ge-zet-en   volgens   hem
      I   have   never   GE-sit-N   according.to   him
      'I never sat, according to him.'
      (*not* 'He never liked me.')

7. Conclusion

a. the complement of IPP-verbs is (inherently) tenseless
b. tenseless complements yield unbounded events, incompetible with the completive particle *ge*
c. originally, all perfect participles were *ge*-less, but some (the ones indicating bounded events) came to be associated with *ge*, which then got reanalyzed as a prefix.
d. participles without *ge* were leveled with infinitives: the IPP effect.
e. [2-3] clusters without IPP then must be tenseless, and the alternation with IPP variants must be a function of the tense properties of the infinitival complement
f. if so: IPP is not restricted by word order, but by the (phasal) status of V3

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Faculty of Arts, P.O. Box 716, NL-9700 AS Groningen, The Netherlands
www.let.rug.nl/~zwart ! zwart@let.rug.nl