Verb-second structures: Evidence from Danish VP anaphora\(^*\)

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1 Introduction

General verb-second (V2) configuration (Germanic minus English, Kashmiri (Hook and Manaster-Ramer, 1985), Breton (Schafer, 1995), Ingush (Nichols, 2009)):

\[(1) \quad [XP \ V_{fin} \ldots ]\]

where a wide range of elements can instantiate XP (= INITIAL POSITION). In Danish, anything but

- \(V_{fin}\)
- negation (\(ikke\))
- handful of adverbs (\(også\) ‘also’, \(jo \approx\) ‘you know’, \(skam \approx\) ‘really’, \(sgu \approx\) ‘damned’ \(da \approx\) ‘surely’)

Frequently Asked Questions:

1. Where is XP and where is \(V_{fin}\)?
   - XP in specifier of CP
   - \(V_{fin}\) in C\(^0\)
   \[(2) \quad [CP \ XP \ V_{fin} \ [TP \ DP_{subj} \ldots ]] \] (Koster 1975 and onwards)

2. Which clauses are V2 in which language? (overview in Heycock 2005)
   - main clauses and most embedded clauses in Icelandic and Yiddish
   - main clauses and some embedded clauses in Danish, Swedish, Norwegian, German, Dutch

3. Are subject-initial V2 clauses CPs or smaller?

\[
\begin{align*}
\text{CPs} &= \left[CP \ DP_{subj} \ V_{fin} \ [TP \ \langle DP_{subj} \rangle \ \langle V_{fin} \rangle \ \ldots ] \right] \quad \text{(e.g. Schwartz and Vikner 1989, Vikner 1995, van Craenenbroeck and Haegeman 2007)} \\
\text{TPs} &= \left[TP \ DP_{subj} \ V_{fin} \ \ldots ] \right] \quad \text{(e.g. Travis 1991, Zwart 1997)}
\end{align*}
\]

\(^*\)The material presented here grew out of The Danish Verb Phrase Anaphora project, a collaboration with Michael Houser, Ange Strom-Weber, and Maziar Toosarvandani (see http://linguistics.berkeley.edu/~danish/). I am especially grateful to Michael Houser for setting up the on-line database for naturally occurring examples of VP anaphora on which I draw heavily in what follows. I am also grateful to Peter Juel Henriksen and Frans Gregersen for giving me access to the BySoc corpus of spoken Danish.
To make progress Q3, we need to ask a seemingly unrelated, and rarely asked, question:

4. When a clause contains several candidates for initial position, which one gets to go there?


Q4 is too hard, since initial position is multifunctional, hosting unmarked themes (≈ continuation topics), marked themes (≈ contrastive topics), and rhemes (≈ information focus), but defaulting to subject.

**Generative tradition** (implicitly): Q4 is too easy, since there are just three categories:

i. constituent questions: (highest) wh-phrase must go first
ii. polar questions, imperatives and V-initial antecedents of conditionals: null operator in Spec-CP
iii. all other V2 clauses: not a matter of syntax, but of stylistics and text linguistics

**Today’s talk** offer partial answer to Q4 and show that it entails a particular and novel answer to Q3.

- Tool: VP anaphor, which may, must or cannot occupy initial position depending on its surroundings
- Claims:
  i. There are intra-sentential syntactic principles governing initial position even in declarative V2 clauses (contra functionalist and generative traditions)
  ii. Some subject-initial V2 clauses are TPs, some are CPs (my answer to Q3)
  iii. While elements in initial position in V2-CPs may serve very different information-structural functions, they always serve some function; there are no undifferentiated V2-CPs.
- Larger agenda:
  - relationship between syntax and information structure

### 2 What does come first in Danish V2 clauses?

No comprehensive quantitative study, but examination of 750 V2-clauses from newspaper, fiction and spoken language yielded the proportions listed in under **GENERAL** in (3). Compare this general pattern to initial position in 408 V2-clauses containing a VP anaphor, listed under **VPA-CLAUSES**:\(^1\)

\[
\begin{array}{lcc}
\text{INITIAL} & \text{GENERAL} & \text{VPA-CLAUSES} \\
\hline
\text{Subject} & 61\% & 23\% \\
\text{Adverbial} & 22\% & 16\% \\
\text{Object} & 9\% & 1\% \\
\text{Other} & 7\% & 60\% \\
\hline
\end{array}
\]

- The presence of a VP anaphor affects initial position:
  - radically fewer initial subjects;
  - radically fewer initial objects;
  - slightly fewer initial adverbials.

- What’s in ‘Other’?

\(^{1}\)Percentages in do not necessarily sum to 100 due to rounding. See the appendix for details of the quantitative studies.
3 VP anaphoric det

Components:

- anaphoric proform det (= 3rd singular neuter pronoun; glossed DET)
- licensor = modal, perfective, passive or dummy auxiliary (Houser et al., 2011); possessive have; copula
- antecedent = [...]

(5) Esbjerg [satser på trænersiden], mens Aalborg ikke gør det.

Esbjerg emphasizes coach.side.DEF while Aalborg not does DET

In embedded clauses that are not V2, det surfaces in situ, as in (5).

In V2-clauses (= main clauses and certain embedded clauses), det may surface:

1. in situ: [SUBJECT AUXILIARY (NEG) det]
2. object-shifted position: [SUBJECT AUXILIARY det (NEG)]
3. initial position: [det AUXILIARY SUBJECT (NEG)]

This talk: 1 & 2 (= non-fronted) vs. 3 (fronted) (on 1 vs. 2, see Andréasson 2008)

3.1 Non-fronted det

Fronting of det is impossible in:

1. Constituent questions here subject question, but also manner, locative, temporal, and reason questions.

(6) Vi [trættes], men ...
    we tire.PASS.PRES but
    We get tired, but ...
    
    a. hvem gør ikke det!
    who does not DET
    who doesn’t!
    b. *det gør hvem ikke!
    DET does who not

Syntax of constituent questions requires wh-fronting + only one fronted position available \(\rightarrow\) det cannot front.

---

2The category ’Null’ includes polar questions, imperatives, and verb-initial antecedents of conditionals. In all of these, there is no element in the initial position or, under certain analyses, there is an element, but that element is null.

3I use the following abbreviations in the glosses: DEF = definite, DP = discourse particle, PASS = passive, POSS = possessive, REFL = reflexive. Examples from the database are annotated with their id number, which is a P followed by a number between 1 and 415. The sources for these examples are listed on p. 14 of the handout. Judgments on other examples come from 16 native Danish speakers residing in Denmark or the San Francisco Bay Area.
2. Polar questions  (Fronting of *det*, as in (7b), is possible under a declarative interpretation.)

(7) Ja - febrilsk ædru og spurgte om jeg kunne [låne hende nogle penge].
    Yes, she was sober but agitated and asked whether I could lend her some money.

    a. “Gjorde du *det*?” spørger Mette.  
       Did you *DET* asks Mette
       *Did you, Mette asks*
    
    b. *“Det gjorde du?”* spørger Mette.
       *DET did you asks Mette*

Syntax of polar questions requires empty initial position $\rightarrow$ *det* cannot front.

3. Imperatives

(8) “[Fortæl ham det og se, hvad der sker],” siger Lars. “Nej,” siger Lisbeth.
    Tell him it and see what there happens says Lars no says Lisbeth
    *Tell him and see what happens, Lars says. No, Lisbeth says.*

    a. “Gør *det*. Ellers gør jeg *det*.”  
       do *DET* otherwise do I *DET*
       *Do it or I'll do it.*
    
    b. *“Det gør. Ellers gør jeg *det*.”*  
       *DET do otherwise do I *DET*

Syntax of imperatives requires empty initial position $\rightarrow$ *det* cannot front.

4. Antecedent of conditional clauses

(9) Et net af lyttecentraler skal oprettes, og alle private internetudbydere skal installere systemer, der gør overvågningen mulig.
    A web of listening stations are to be created and all private internet service providers are to install systems that allow for surveillance.

    a. Gør de ikke *det*, kan ejeren straffes med fængsel i op til tre år.  
       do they not *DET* can owner.DEF punish.PASS with prison in up to three years
       *If they don't, the owner can be punished with up to three years of prison.*
    
    b. *Det gør de ikke, kan ejeren  …*  
       *DET do they not can owner.DEF*

Syntax of conditionals requires empty initial position in antecedent $\rightarrow$ *det* cannot front.

(10) **VP Anaphora Fronting Generalization (part I)**
    (cf. Andréasson 2008:37–8)
    When the expression of illocutionary force makes demands on initial position, VP-anaphoric *det* can not front.
3.2 Fronted *det*

More surprisingly, there are also environments where *det*-fronting may be required:

1. clauses with expletive subjects
2. answers to polar questions
3. generalizations
4. repetitions

I propose to unify these in terms of information structure, specifically Discourse-givenness (Prince 1981):

\(1\)

**VP Anaphora Fronting Generalization (part II):**

In a verb-second clause with VP anaphora, an information-structurally undistinguished subject cannot occupy the initial position, where information-structurally undistinguished subjects are either expletives or Discourse GIVEN subjects of an equally Discourse GIVEN predicate.

1. **Expletive subjects**  In V2-clauses with an expletive subject (*der*), the expletive cannot take initial position at the expense of VP anaphoric *det*:4

\(12\)

\begin{align*}
\text{Jeg kaster et blik \textit{ind i stuen}, for at se om der \textit{[er et eller andet pinligt, jeg skal have ryddet af vejen], men \ldots}}
\text{I throw a glance into the living room.\textit{DEF for to see if EXPL is one or other embarrasing I shall have cleared off way.\textit{DEF but}}} \\
\text{\textit{I glance into the living room to see if there is anything embarrasing that I need to clear away, but \ldots}}
\end{align*}

\begin{align*}
\text{a. \textit{det} er \textit{der} ikke.} \\
\text{\textit{DET is EXPL not there isn't.}} \\
\text{\textit{b. *der er (det) ikke (det).}} \\
\text{\textit{EXPL is DET not DET}}
\end{align*}

- In (12b) an information-structurally undistinguished subject (expletive *der*) occupies initial position at the expense of the VP anaphor (*det*) in violation of the fronting generalization in (11).
- The grammatical (12a) satisfies (11).

\(13\)

\begin{align*}
\text{Da jeg åbnede døren \textit{troede jeg først at der havde \textit{været indbrud], men \ldots}}
\text{When I opened the door, I first thought that \textit{someone had broken into the house but \ldots}}
\end{align*}

\begin{align*}
\text{a. \textit{det} havde der heldigvis ikke.} \\
\text{\textit{DET had EXPL luckily not luckily that wasn't the case.}} \\
\text{\textit{b. *der havde (det) heldigvis ikke (det).}} \\
\text{\textit{EXPL had DET luckily not DET}} \\
\text{\textit{c. heldigvis havde der ikke \textit{det}.}} \\
\text{\textit{lucky had EXPL not DET}}
\end{align*}

\(\rightarrow\) There is no absolute requirement that *det* fronts in declarative clauses (13c).

\(\rightarrow\) If there are no other candidates for fronting, as in (12), we get obligatory *det*-fronting as a special case. (Recall that negation and \textit{Vfim} are ineligible for initial position.)

Certain discourse contexts induce a V2-clause with a contentful, but information-structurally undifferentiated subject. In such clauses the subject also cannot take initial position at the expense of VP-anaphoric *det.*

\(^4\)Since I am interested in initial position, the alternative positions for *det*, in situ and object-shifted position, are collapsed in (12b) and below.
2. **Answers to polar questions** In matching (= not over-informative; Kiefer 1980, Yadugiri 1986) answers to polar questions, a subject cannot take initial position in place of a VP anaphor.\(^5\)

\[(14)\]  
Tjener! Bestilte jeg ikke en gin og tonic?  
waiter ordered I not a gin and tonic  
*Waiter, didn’t I order a gin and tonic?*

- (14a) Jo, *det* gjorde De.  
  yes *DET* did *you*  
  *Yes, you did.*
- (14b) #Jo, *De* gjorde *det*  
  yes *you* did *DET*
- (14c) Jo, *De* bestilte en gin og tonic.  
  yes you ordered a gin and tonic  
  *Yes, you ordered a gin and tonic*

- The subject in (14a/b) is information-structurally undistinguished, because both it and its predicate are equally Discourse-Given by the question.
- (11) thus rules out (14b), in which the undistinguished subject takes the initial position at the expense of the VP anaphor.
- The grammaticality of (14c) shows that undistinguished subjects can occupy initial position if the VP is not pronominal. The same is true for expletive subjects and undistinguished subjects in other environments.

Restriction holds beyond direct Q-A exchanges:

\[(15)\]  
Jeg spørger bekymret, om han sørger for lære sin kone dansk.  
I ask concerned, if he take care of to teach *poss* wife Danish  
*I ask concerned, whether he is making sure to teach his wife Danish.*

- (15a) “Nej, *det* gør jeg ikke; faktisk . . .” griner han . . .  
  no *DET* do I not actually laughs he  
  *No, I’m not, in fact it’s me that’s learning a bit of Georgian, he laughs and hesitates a little.*

- (15b) #“Nej, jeg gør (*det*) ikke (*det*); faktisk . . .” griner han . . .  
  no I do *DET* not *DET* actually laughs he

\[(16)\]  
Du er vel ikke blevet for fin til at more dig?  
you be *DP* not become too fine to to enjoy *refl*  
*I trust you haven’t become too high-class to have a good time?*

- (16a) *Det* var Kurt Victor ikke.  
  *DET* was Kurt Victor *not*  
  *Kurt Viktor hadn’t.*

- (16b) #Kurt Viktor var (*det*) ikke (*det*).  
  Kurt Viktor was *DET* *not* *DET*

\[(17)\]  
Morales spurgte en dreng på 7-8 år, om han havde fæt sine børnepenge.  
Morales asked a boy on 7-8 years if he has received *poss* child money  
*Morales asked a boy who was 7 or 8 years old whether he had received his “child money”*

- (17a) *Det* havde han.  
  *DET* had *he*  
  *He had.*

- (17b) #Han havde *det*.  
  he had *DET*

\[\text{→ Initial position is governed by Discourse-givenness, not specific conversational interaction.}\]

\[^5\text{I use \# to indicate infelicity in a given context.}\]
3. Generalizations Generalizations from a specific instance can also give rise to undistinguished subjects with VP-anaphora:

(18) Men Bush [sagde nej].
    but Bush said no
    But Bush said no.

    a. Det gör han ofte.
        DET does he often
        He often does.
    b. #Han gör (det) ofte (det).
        he does DET often DET

• By virtue of the antecedent clause the subject and predicate in (18a/b) are equally Discourse-given.
• (11) correctly rules out (18b) where the undistinguished subject takes initial position in place of the VP anaphor.

4. Repetitions

(19) Men jeg [tilgiver ham på stedet].
    but I forgive him on place.def
    But I forgive him on the spot.

    a. Det gör jeg.
        DET do I.
        I do.
    b. #Jeg gör det.
        I do DET

→ Undistinguished subjects cannot take initial position in place of VP-anaphoric det, whether the undistinguishedness is lexically determined (expletive subjects) or contextually determined (contentful subjects in matching answers to polar questions, generalizations, and repetitions).

(20) VP Anaphora Fronting Generalization

    a. When the expression of illocutionary force makes demands on initial position, VP-anaphoric det does not front.
    b. In a verb-second clause with VP anaphora, an information-structurally undistinguished subject cannot occupy the initial position, where information-structurally undistinguished subjects are either expletives or Discourse-given subjects of an equally Discourse-given predicate.

The second part of this generalization helps explain why there are radically fewer initial subjects in VPA-clauses than in V2-clauses in general (23% vs. 61%).

4 An analytical proposal

1. Danish V2 clauses may be TP or CP.
2. V2-TPs are subject initial and subject is information-structurally undifferentiated.
3. V2-CPs may be subject-initial or not and initial element bears some function (clause type, focus, contrastive topic, anaphoric topic, marking various rhetorical relations) → all V2-Cs require a specifier (EPP), and all place some content requirement on that specifier (uwh, uQ, ufocus, utcop, uatop ...).
4. Information-structurally undistinguished elements cannot bear any C-related function.
5. VP det is an anaphoric topic (cf. López and Winkler 2000) and must be licensed by a C: [atop uC].
4.1 Accounting for *det*-in situ

In questions, imperatives, and antecedents of conditionals, *det* cannot front:

- constituent questions: specifier of C must be occupied by wh-phrase
- polar Q, imperative, antecedent: specifier of C must be occupied by null operator

These constructions are compatible with VP-anaphoric *det*, since

i. They each contain a C and any C licenses *det*; here by upwards Agree (Baker 2008:44ff).

ii. The requirements of C are met by the element in its specifier (wh-phrase, null operator).

(21) CP
    \[ wh/OP C \]
    \[ C' \]
    \[ C TP \]
    \[ \ldots *det [uC] \ldots \]

4.2 Accounting for initial position in expletive V2-clauses

VP anaphor or other non-subject, frontable element may occupy initial position (22a/b); subject may not (22c):

(22) a. *det V_{fin} EXPLETIVE (Adv) \ldots*
    b. Adv V_{fin} EXPLETIVE DET \ldots*
    c. *EXPLETIVE V_{fin} (Adv) DET \ldots*

- Why is (22a) possible?
  - V2 clauses can be CPs and there is a V2-C with EPP+uatop
  - *det* is atop and thus may front to specifier of that C, yielding (22a).

- Why is (22b) possible?
  - V2 clauses can be CPs and there is a V2-C that asks for an adverbial in its specifier
  - Adv may front to specifier of such a C, yielding (22b).
  - *det* is licensed in situ by C.

- Why is (22c) impossible?
  - a V2-clause must be either a TP or a CP.
  - all V2-Cs require specifier to bear some function
  - expletives cannot bear any of these functions
  \[ \Rightarrow (22c) \text{ cannot be a wellformed CP} \]
  - VP anaphoric *det* must be licensed by a C
  - in a TP there is no C to license *det*
  \[ \Rightarrow (22c) \text{ cannot be a wellformed TP} \]
  \[ \Rightarrow \text{there is no well-formed structure for (22c)} \]
This analysis applies equally to the other cases of undistinguished subjects presented above (answers to polar questions, generalizations, repetitions). In each case:

- C must be present to license VP-anaphoric det
- every V2-C requires an information-structurally distinguished specifier
- the subject is information-structurally undistinguished and therefore cannot occupy Spec-CP
- something other than the subject must occupy initial position

5 Extension 1: VP anaphora in embedded clauses

(23) *[TP EXPLETIVE V fin ... [TP ... DET]]
no C to license det

(24) [TP EXPLETIVE V fin ... [CP ... DET]]
embedded C licenses det

**[TP ... [TP ...]] case** Raising construction with (raised) expletive subject:


Let us go a walk, Klump said, then probably something exciting will happen.

a. *[TP Der plejer jo [TP at gore det]].
   [P415] As is usually the case.

b. [CP Det plejer der jo [TP at gore]].

**[TP ... [CP ...]] case** Existential construction with CP complement to N-head of pivot:

(26) Hossein ligner overhovedet ikke en mand, der har behov for at [drage til Christiania som kurer for Hossein resembles at.all not a man who has need for to go to Christiania as courier for

to manage refl

Hossein doesn’t at all look like someone who needs to go to Cristiania as a courier to make a living.

a. [TP Der må være en anden grund til, [CP at han gør det]].
   [P248; cf. (24)] There must be a second reason to that he does det

b. [CP Det må der være en anden grund til [CP at han gør.]
   DET must there be a second reason to that he does

There must be some other reason for him to do it.

The grammaticality of (27), where N has a non-finite CP complement (with a controlled PRO subject), shows that it is syntactic category that matters for det-licensing (C vs. T), not finiteness (finite vs. non-finite).

(27) Hun studerede mig kritisk et øjeblik og så ud til at godkende mig.

She studied me critically a moment and saw out to to approve me

She studied me critically for a moment and appeared to approve of me.

a. Der var heller ingen grund til [ikke at gøre det].
   [P191] There wasn’t any reason not to.

→ VP anaphoric det must be licensed by C.

6Clausal complements to indefinite Ns are preceded by a preposition in Danish, here til ‘to’. See Hankamer and Mikkelsen (2009).
6 Extension 2: “Optional” fronting

In some contexts, *det*-initial and subject-initial versions of a V2-clause are both possible:

(28) Vi kan ikke [fare rundt og spørge], det vil alle opdage og undre sig over.
we can not rush around and ask it will everyone discover and wonder REFL about

*We can’t run around asking questions. Everyone would notice it and wonder about it.*

a. **Det** må en anden gøre.
   *DET* must a other do
   *Someone else has to do it.*

b. En anden må gøre **det**.
   a other must do DET
   *Someone else has to do it.*


*I hold REFL to the actual occurrences when I speak about past.DEF*

*I stick to what actually happened when I speak about the past.*

a. **det** burde du også gøre,” siger han.
   *DET ought you also do*
   *You should too.*

b. **du** burde også gøre **det**.
   you ought also do **DET**
   *You should too.*

Analysis

i. the subjects are contentful (‘someone else’ in (28) and ‘you’ in (29)) and may therefore take on an information-structural function

ii. contexts allow subjects to function as contrastive focus (‘someone else’ vs. ‘we’ in (28) and ‘you’ vs. ‘I’ in (29))

iii. as a contrastive focus, subject can occur in initial position (given the appropriate C), as in (28b) and (29b).

iv. however, context doesn’t require initial focus; speakers have a choice about how to construe the relation between the two clauses:
   (a) contrastive focus (→ subject-fronting) OR
   (b) anaphoric topic (→ det-fronting).

v. (28a,b) and (29a,b) are all CPs

For some attested examples, speakers differ in whether they allow the alternative order:

(30) En del af dem klarer sig, 

   a. portion of them manage REFL
   *Some of them manage*

   a. % **det** gør andre ikke.
   *DET do others not*

   b. andre gør **det** ikke.
   *others do DET not*
   *others don’t*

• some speakers can only construe the relation between the clauses as one of contrasting two sets of individuals
  → forces the order in (30b).
• Other speakers also allow an anaphoric relation → both orders are possible.
7 Conclusions

i. While initial position in Danish V2 clause is multifunctional, there are more syntactic (intra-sentential) restrictions on this position than previously acknowledged. In particular, we can add declarative VPA-clauses to questions, imperatives, and antecedents of conditionals, as clause types where the choice of initial element is restricted.

ii. The analysis proposed to account for restrictions on initial position in expletive constructions extends straightforwardly to cases of context-governed restrictions on initial position, found in answers to polar questions, generalizations, and repetitions.

iii. Danish subject-initial V2 clauses are not structurally uniform: information-structurally differentiated ones are CPs, undifferentiated ones are TPs. Since TP is necessarily subject-initial, this explains why initial position “defaults to subject”, as noted in the descriptive literature.

iv. V2 involves a different relationship between information structure and syntax than systems in which there are dedicated positions for topic and/or focus, such as Hungarian (Kiss, 1998), Italian (Rizzi, 1997), and Mayan (Aissen, 1992). In Danish, Spec-CP must be occupied by an information-structurally distinguished element, but is not dedicated to a particular function.

8 Open issues

The proposed analysis involves:

i. main clause TPs

ii. A-bar movement driven by dedicated, information-structural uninterpretable features

Both raise theoretical issues:

i. if TP is not a phase how do derivations for main clause TPs converge?

ii. Fanselow and Lenertová (2011) and Chomsky (2008): A-bar movement is syntactically free (unspecific Edge Feature) and governed by Interface Conditions.

My current thinking: Danish V2 can be reanalyzed to avoid the first issue, but syntactic reference to information structure in movement to Spec-CP is inescapable.⁷

Starting point: Dual-probe system of Chomsky (2008)

- C has two probes (Edge Feature (EF) & Agree Feature (AF))
- C passes AF to T and keeps EF.
- EF allows for Internal Merge to C, i.e. A-bar movement.

⁷I am indebted to Peter Jenks, Jim McCloskey, Eric Prendergast, and Christine Sheil for discussion of these matters, though they needn’t agree with my interpretation and ideas below.
A modification:

- C may pass EF to T, as well as AF.
- If C passes EF and AF to T, both are satisfied by Internal Merge to Spec-TP
- If C passes only AF, there is Internal Merge to Spec-CP and to Spec-TP
- Danish V2 involves two Interface conditions (cf. Platzack 2000)

(31) Elements in Spec-CP must be information-structurally or clause-typally distinguished.

(32) Information-structural and clause type information cannot be processed in Spec-TP.

V2 structures:

"Small" V2: C passes EF to T
(and $V_{fin}$ stays in T)

```
CP
  /   \
/     \|
C      TP
  /   \
/     \
XP    T'
```

“Big” V2: C keeps EF

```
CP
  /   \
/     \
XP    C'
  /   \
/     \
C      TP
  /   \
/     \
YP    T'
```

→ All V2 clauses are CPs and A-bar movement is syntactically free.

(33) *expletive $V_{fin}$ det . . .

- Can’t be “big” V2, because expletive in Spec-CP would violate (31).
- But a “small” V2 derivation goes through:

```
CP
  /   \
/     \
C      TP
  /   \
/     \
EXPL   T'
  /   \
/     \
$V_{fin}$ det . . .
```

→ det is sensitive to the fate of C’s Edge Feature and Interface Conditions (31) and (32) fail to capture this.

**Bottom line**  At least some movement is not syntactically free.
References


Andréasson, M. (2008). Not all objects are born alike - accessibility as a key to pronominal object shift in Swedish and Danish. In M. Butt and T. H. King (Eds.), *Proceedings of the LFG08 Conference*, Stanford, pp. 26–45. CSLI.


### Data sources

<table>
<thead>
<tr>
<th>ID</th>
<th>Source</th>
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<td>P88</td>
<td>Marie Tetzlaff &quot;Mere Malene end Maude&quot; (Interview with Malene Schwarz), <em>Ud og Se</em>, August 2006, p. 16</td>
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<tr>
<td>P99</td>
<td>Martin Krasnik &quot;Cheneys finger&quot;, <em>Weekendavisen</em>, July 6-12, 2007, p. 8</td>
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<tr>
<td>P131</td>
<td>DK87-90 (corpus)</td>
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</tr>
<tr>
<td>P166</td>
<td>DK87-90 (corpus)</td>
</tr>
<tr>
<td>P169</td>
<td>DK87-90 (corpus)</td>
</tr>
<tr>
<td>P191</td>
<td>DK87-90 (corpus)</td>
</tr>
<tr>
<td>P415</td>
<td>Claes D. Voes <em>Rasmus Klump og den røde bil</em>, p. 1</td>
</tr>
</tbody>
</table>
Appendix

The proportions of initial elements reported in (3) and (4) were obtained in the following way:

**V2-clauses in general** I extracted samples from Danish newspapers, fiction and spoken language. Each sample contained 250 V2-clauses. The newspaper sample was drawn from 3 articles in *Weekendavisen* (May 24–June 1, 2006), the fiction from Jakob Ejersbo’s novel *Nordkraft* (published in 2002 by Gyldendal), and the spoken sample from the BySoc corpus, which contains transcriptions of sociolinguistic interviews. Counts of initial elements in those three samples are given in (34):

(34)

<table>
<thead>
<tr>
<th></th>
<th>Newspaper</th>
<th>Fiction</th>
<th>Speech</th>
<th>All Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>158 (63%)</td>
<td>162 (65%)</td>
<td>140 (56%)</td>
<td>460 (61%)</td>
</tr>
<tr>
<td>Adverbial</td>
<td>72 (29%)</td>
<td>26 (10%)</td>
<td>69 (28%)</td>
<td>167 (22%)</td>
</tr>
<tr>
<td>Object</td>
<td>8 (3%)</td>
<td>41 (16%)</td>
<td>21 (8%)</td>
<td>10 (9%)</td>
</tr>
<tr>
<td>Other</td>
<td>12 (5%)</td>
<td>21 (9%)</td>
<td>20 (8%)</td>
<td>53 (7%)</td>
</tr>
</tbody>
</table>

Thomsen (1996) reports 57.5% subject-initial V2-clauses for spoken Danish in a corpus of 9002 words, which concurs with 56% initial subjects in my BySoc sample. He does not provide ratios for objects or adverbials. In general, the proportions are comparable to those reported for Swedish and Norwegian based on comprehensive corpus studies: Subject (64%-73%, depending on genre), adverbials (23%-30%), objects (2%-14%) (Bohnacker and Rosén 2008 and Ute Bohnacker p.c. March 30, 2009). These studies only considered declarative V2 clauses.

(35) represents the same samples, but differentiates the categories further. The category 'Null' includes polar questions, imperatives, and verb-initial antecedents of conditionals. In all of these, there is no element in the prefied or, under certain analyses, there is an element, but that element is a null operator.

(35)

<table>
<thead>
<tr>
<th>Initial</th>
<th>Newspaper</th>
<th>Fiction</th>
<th>Speech</th>
<th>All Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>157 (63%)</td>
<td>162 (65%)</td>
<td>140 (56%)</td>
<td>459 (61%)</td>
</tr>
<tr>
<td>Subject-wh</td>
<td>1 (0%)</td>
<td>0 (0%)</td>
<td>0 (0%)</td>
<td>1 (0%)</td>
</tr>
<tr>
<td>Adverb</td>
<td>27 (11%)</td>
<td>16 (6%)</td>
<td>65 (26%)</td>
<td>108 (14%)</td>
</tr>
<tr>
<td>Adverb-wh</td>
<td>6 (2%)</td>
<td>2 (1%)</td>
<td>1 (0%)</td>
<td>9 (1%)</td>
</tr>
<tr>
<td>Adverbial PP</td>
<td>33 (13%)</td>
<td>7 (3%)</td>
<td>3 (1%)</td>
<td>43 (6%)</td>
</tr>
<tr>
<td>Adverbial CP</td>
<td>6 (2%)</td>
<td>1 (0%)</td>
<td>0 (0%)</td>
<td>7 (1%)</td>
</tr>
<tr>
<td>Object</td>
<td>7 (3%)</td>
<td>36 (14%)</td>
<td>20 (8%)</td>
<td>63 (8%)</td>
</tr>
<tr>
<td>Object-wh</td>
<td>1 (0%)</td>
<td>5 (2%)</td>
<td>1 (0%)</td>
<td>7 (1%)</td>
</tr>
<tr>
<td>Null</td>
<td>4 (2%)</td>
<td>16 (6%)</td>
<td>5 (2%)</td>
<td>25 (3%)</td>
</tr>
<tr>
<td>VP anaphoric det</td>
<td>0 (0%)</td>
<td>1 (0%)</td>
<td>13 (5%)</td>
<td>14 (2%)</td>
</tr>
<tr>
<td>Object of P</td>
<td>2 (1%)</td>
<td>2 (1%)</td>
<td>2 (1%)</td>
<td>6 (1%)</td>
</tr>
<tr>
<td>Other</td>
<td>6 (2%)</td>
<td>2 (1%)</td>
<td>0 (0%)</td>
<td>8 (1%)</td>
</tr>
</tbody>
</table>

Of the 41 initial objects in the fiction sample, 34 are fronted objects of verbs of saying. All 34 are direct speech. The comparatively high number of initial objects in the fiction sample is thus due to the source being dialogue-heavy.
**VPA-clauses**  The proportions of initial elements reported for VPA-clauses represent a database of 415 instances of VP anaphoric *det* gathered from corpora, newspapers, magazines, fiction, radio, and conversation. 7 of these were not contained in a V2-clause, but instead occurred in a fragment of some kind. These are not included in the counts below. The 408 tabulated examples include cases where *det* occurs as the predicate of the V2-clause itself as well as cases where it is the predicate of a non-V2-clause embedded in a V2-clause. In cases where *det* occurs as the predicate of a V2-clauses embedded in another V2 clause, the constituent in the prefield of the (most deeply) embedded V2-clause is counted. The table in (36) shows the counts for initial position, using just four broad categories:

(36)

<table>
<thead>
<tr>
<th>INITIAL</th>
<th>VPA-CLAUSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>93 (23%)</td>
</tr>
<tr>
<td>Adverbial</td>
<td>67 (16%)</td>
</tr>
<tr>
<td>Object</td>
<td>3 (1%)</td>
</tr>
<tr>
<td>Other</td>
<td>245 (60%)</td>
</tr>
</tbody>
</table>

(37) gives counts for initial position differentiating the categories further:

(37)

<table>
<thead>
<tr>
<th>INITIAL</th>
<th>VPA-CLAUSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>82 (20%)</td>
</tr>
<tr>
<td>Subject-*wh</td>
<td>11 (3%)</td>
</tr>
<tr>
<td>Adverb</td>
<td>27 (7%)</td>
</tr>
<tr>
<td>Adverb-*wh</td>
<td>25 (6%)</td>
</tr>
<tr>
<td>Adverbial PP</td>
<td>3 (1%)</td>
</tr>
<tr>
<td>Adverbial CP</td>
<td>12 (3%)</td>
</tr>
<tr>
<td>Object</td>
<td>3 (1%)</td>
</tr>
<tr>
<td>Object-*wh</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Null</td>
<td>28 (7%)</td>
</tr>
<tr>
<td>VP-anaphoric <em>det</em></td>
<td>217 (53%)</td>
</tr>
<tr>
<td>Object of P</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Other</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

All VPA examples were furthermore annotated as to whether fronting was obligatory, impossible or optional, based on judgments from native speakers. If speakers disagreed or reported uncertainty, the example was annotated as 'fronting status unclear'. The result of this annotation is given in (38).

(38)

<table>
<thead>
<tr>
<th>FRONTING STATUS</th>
<th>VPA-CLAUSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fronting obligatory</td>
<td>153 (38%)</td>
</tr>
<tr>
<td>Fronting impossible</td>
<td>153 (38%)</td>
</tr>
<tr>
<td>Fronting optional</td>
<td>57 (14%)</td>
</tr>
<tr>
<td>Fronting status unclear</td>
<td>45 (11%)</td>
</tr>
</tbody>
</table>