

Similarities and Differences between Clauses and Nominals - Comparative Syntax across Theoretical Approaches

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0. Introduction

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Web site (next week at the earliest)

www.hum.au.dk/engelsk/engsv/clauses-nominals
Initial content: info about persons, project description, ...

(I expect to do it in a fashion relatively parallel to
www.hum.au.dk/engelsk/engsv/objectpositions, so let me know if you have any ideas
for improvement)

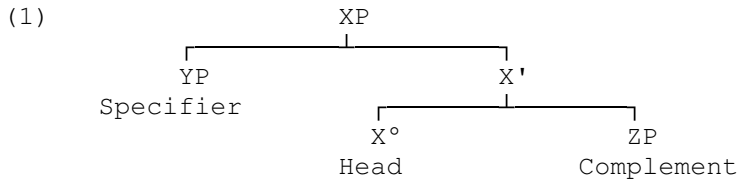
Intro-meetings (in 1461-415)

07.02.2008, 14:00, Sten
21.02.2008, 14:00, Johanna
28.02.2008, 13:00, Henning
13.03.2008, 14:00, Steffen
27.03.2008, 14:00, Katrine

1. Structure

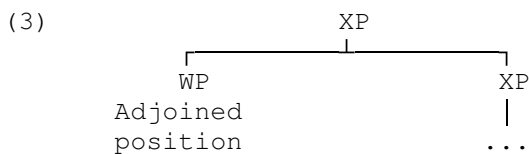
1.1 X-bar structure

In a generative analysis, syntactic constituents are all constructed according to the same pattern: The "X-bar structure" as in (1) (where the sequence of the head and the complement may vary).



- (2)
- XP = phrase – the maximal projection of X
 - X' = X-bar – the intermediary projection of X
 - X° = head – the minimal projection of X

A maximal projection may occur as specifier or as complement in another projection. A head is always a head of its own projection, and all maximal projections have a head (are endocentric). Furthermore, a maximal projection can also be adjoined to another maximal projection:



X (and also Y, Z and W) may stand for one of the following categories:

(4)

lexical categories (word classes)	"functional" categories
N (noun)	C ('complementiser' – subordinating conjunction)
V (verb)	I ('inflection', used to be AUX)
P (preposition)	D (determiner/article etc.)
Adj (adjective)	
Adv (adverb)	
etc.	etc.

1.2 Clause structure

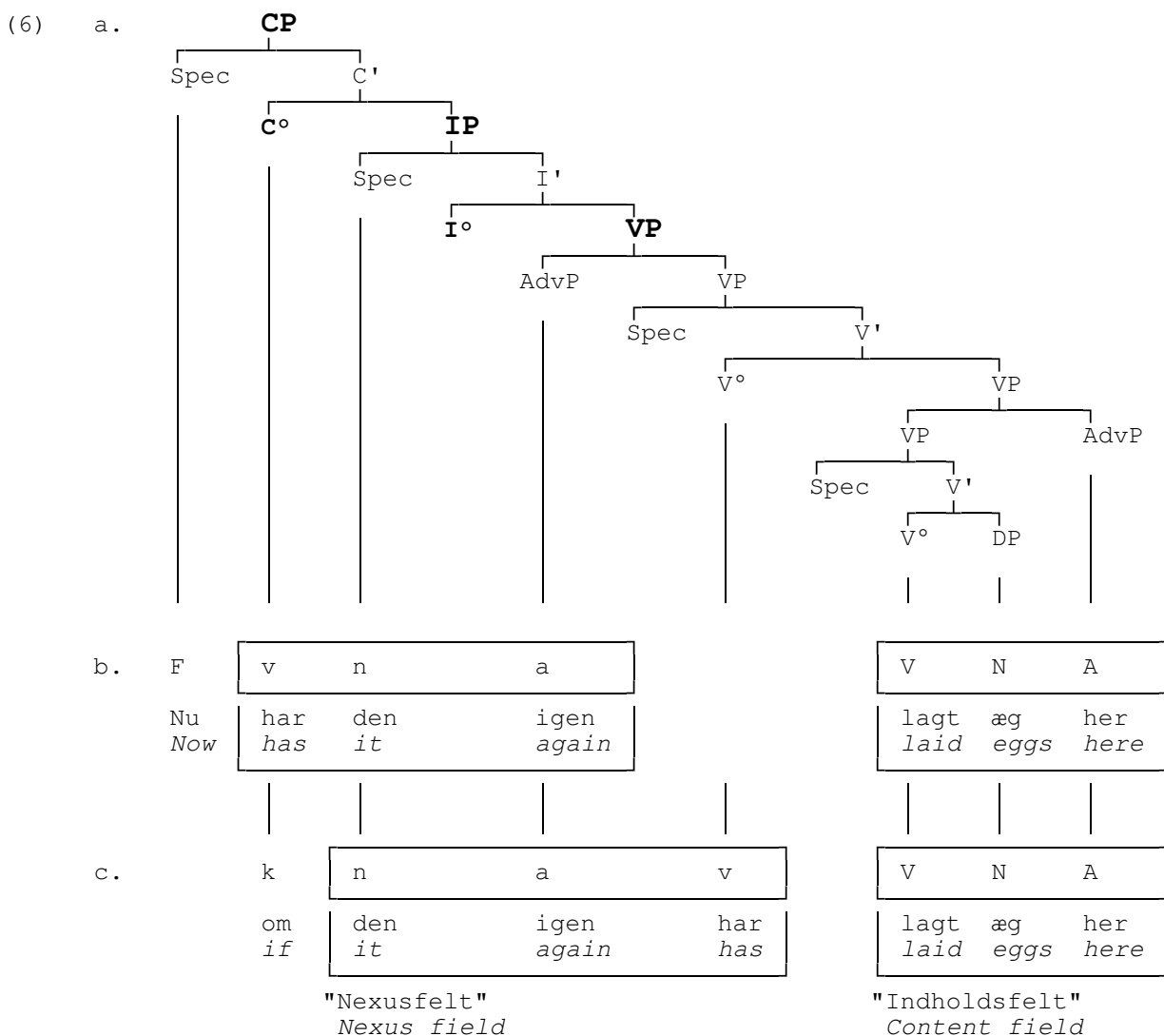
In a somewhat simplified generative analysis, the structure of a sentence is as follows:

- (5) A clause is a **CP**,
 the complement of its head (= C°) is an **IP**, and
 the complement of the IP's head (= I°) is a **VP**.

(VP thus corresponds to Diderichsen's 1962 "indholdsfelt",
 IP thus corresponds to BOTH Diderichsen's 1962 "nexusfelt" AND "indholdsfelt")

All verbs have their own VP. Adverbials (etc.) may be adjoined both on the left side and on the right side of a VP.

The structure in (6a) may thus be compared to the Diderichsen model for modern Danish (etc.) as illustrated in (6b) for main clauses and in (6c) for embedded clauses (Diderichsen 1962:162, 186, cf. also Hansen 1977:44, 72-74, Heltoft 1986, Allan et al. 1995:491-498, Jørgensen 2000:63-78, Togeby 2003:56, 72, 97-99, Hansen & Heltoft 2003:172-173):



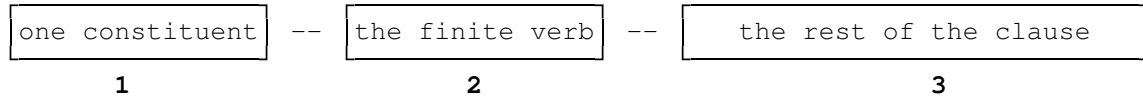
(This collapsing of the Diderichsen model for the main clause with the one for the embedded clause was introduced by Platzack 1985).

(On compatibilities and incompatibilities between formal and functional linguistics, see also Vikner 2004 and Bjerre, Engels, Jørgensen & Vikner 2007).

2. CP and verb Second (V2)

In all Germanic languages with the exception of Modern English, all main clauses have a special property, namely that they are "verb second" (V2), which means that the finite verb occupies the second position in the clause, irrespective of which constituent occupies the first position:

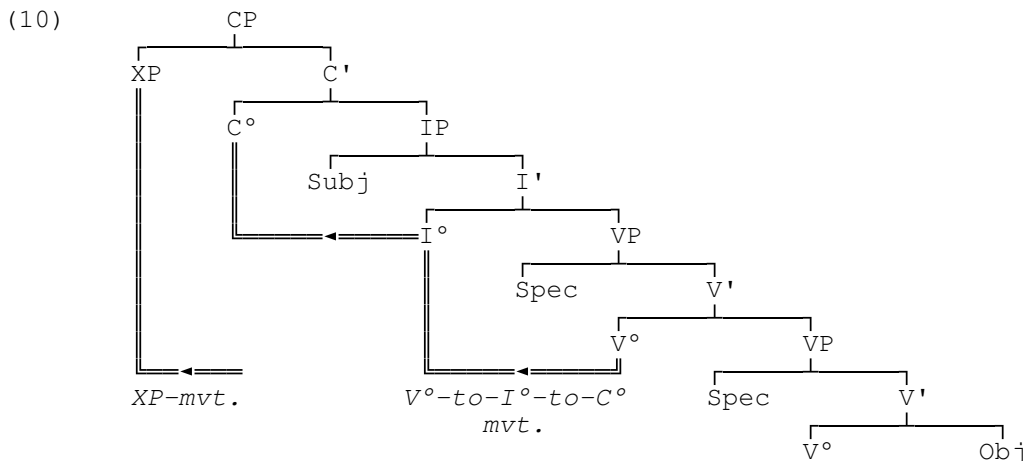
(7) Verb second = V2:



Danish, Icelandic and German are thus V2, whereas English and French are not:

	CP-Spec	C°	IP
(8) a.	Da. Den her bog	<u>har</u>	Peter læst
b.	Ic. Þessa bók	<u>hefur</u>	Pétur lesið
c.	Ge. Dieses Buch	<u>hat</u>	Peter gelesen
d.	En. *This book	<u>has</u>	Peter read
e.	Fr. *Ce livre	<u>a-t-</u>	il lu
(9) a.	Da. Nu	<u>har</u>	Peter læst den her bog
b.	Ic. Nú	<u>hefur</u>	Pétur lesið þessa bók
c.	Ge. Jetzt	<u>hat</u>	Peter dieses Buch gelesen
d.	En. *Now	<u>has</u>	Peter read this book
e.	Fr. *Maintenant	<u>a-t-</u>	il lu ce livre

V2 is analysed as two movements: A maximal projection (e.g PP, AdvP, DP) moves into CP-Spec (i.e. the 1st position) and the finite verb moves into C° (i.e. the 2nd position).

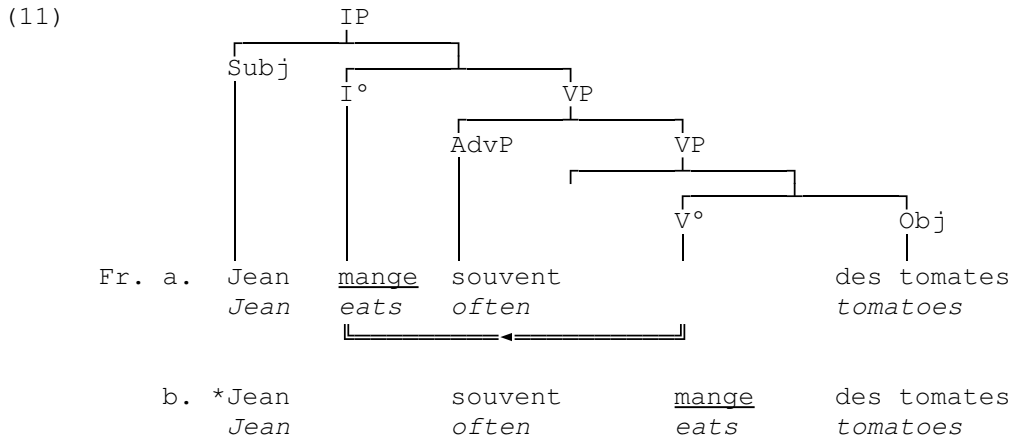


Because V2 moves the finite verb out of the clause (into the C°-position, to the left of the subject position), we have to look at sentences without V2 in order to be able to see which verb positions are possible in which languages. In English and French this is not difficult, as only main clause questions are V2, whereas in the other Germanic languages, we have to turn to embedded clauses.

3. IP and V°-to-I° movement

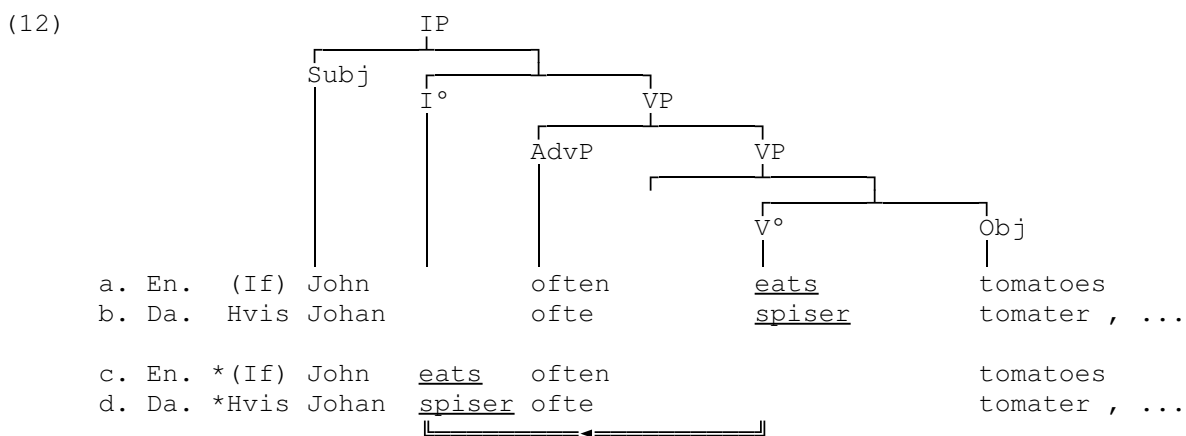
3.1 IP and V°-to-I° movement in the SVO-languages

French is a language with what is called **V°-to-I° movement**. This means that in French the finite verb moves from its position in V° to a functional position further left, namely I°. This movement can be detected if there is a e.g. medial adverbial present, in this case *souvent*:



In other words, in French the finite verb is base-generated in one position, to the immediate left of the object, and then moved across the sentence adverbial into another position, to the immediate right of the subject. This is what is called **V°-to-I° movement**.

In modern English and modern Danish, finite main verbs do not undergo V°-to-I° movement:



Chomsky (1995:222) says about the ability of constituents to move in the syntax: "*Minimalist assumptions suggest that this property should be reduced to morphology-driven movement.*" This was the objective of Vikner (1997, 1998), where finite verb movement was linked to verbal inflectional morphology:

- (13) An SVO-language has V°-to-I° movement if and only if person morphology is found in all tenses. (Vikner 1997:207, (23))

The generalisation in (13) accounts for the above difference in the positions of finite main verbs, assuming a clause structure as in (12) and (11) above.

Among all the Romance and Germanic SVO-languages, the only languages where inflectional differences for person are not found in every tense are modern English and four modern Scandinavian languages: Danish, Faroese, Norwegian, and Swedish, cf. (18) and (19) below.

These five languages are also the only SVO-languages without V°-to-I° movement, cf. (14) and (15) below.

▪ Which languages have V°-to-I° movement?

Icelandic, Yiddish, and French all have V°-to-I° movement:

(14)		C°	IPsp	I°	AdvP	V°	DP	
a. En.	*That	John	eats	often	_____	tomatoes	(surprises most people)	
b. Da.	*At	Johan	spiser	ofte	_____	tomater	(overrasker de fleste)	
c. Fa.	*At	Jón	etur	ofta	_____	tomatir	(kemur óvart á tey flestu)	
d. Ic.	Að	Jón	borðar	oft	_____	tómata	(kemur flestum á óvart)	
e. Yi.	Az	Jonas	est	oft	_____	pomidorn	(iz a khidesh far alemen)	
f. Fr.	Que	Jean	mange	souvent	_____	des tomates	(surprend tout le monde)	

English, Danish, and Faroese (and also Norwegian and Swedish) all lack V°-to-I° movement:

(15)		C°	IPsp	I°	AdvP	V°	DP	
a. En.	That	John		often	eats	tomatoes	(surprises most people)	
b. Da.	At	Johan		ofte	spiser	tomater	(overrasker de fleste)	
c. Fa.	At	Jón		ofta	etur	tomatir	(kemur óvart á tey flestu)	
d. Ic.	*Að	Jón		oft	borðar	tómata	(kemur flestum á óvart)	
e. Yi.	*Az	Jonas		oft	est	pomidorn	(iz a khidesh far alemen)	
f. Fr.	*Que	Jean		souvent	mange	des tomates	(surprend tout le monde)	

Furthermore, the languages without V°-to-I° movement have all only recently lost V°-to-I° movement. In English and also in Danish (Vikner 2005a), this change took place in the 15th and 16th centuries, Middle English and Old Danish were like French:

(16) a. ME. He swore that he talkyd neuer t wyth no man ...
 b. En. He swore that he never talked to anybody ...
 ((16a): 1460 William Paston I, *Letter to John Paston I, 02.05.1460*, Davis 1971:164)

(17) OD. Æn beriær man threl for bondæns øghæn. tha bõtæ han
But hits a man a slave for peasant-the's eyes, then pays he
 bondæn tolf øræ foræ um thrællæn takær ey atær gen
peasant-the twelve øre therefore if slave-the attacks not back again

“Men slår en mand en træl for øjenene af bonden, da skal han bøde tolv øre derfor til bonden, hvis trællen ikke sætter sig til modværge”
 (ca. 1300, *Valdemars sjællandske lov, yngre redaktion*, chap. 86, Uldaler & Wellejus 1968:54, l. 21-22)

▪ Which languages have person morphology in all tenses?

(18)	English (20th C.)	Early modern English (16th C.)	Middle English (14/15th C.)	French (20th C.)
Infinitive	hear	hear (en)	here (n)	entendre
Imperative Singular Plural	hear hear	hear hear	her (e) hereth	entends entendez
Participles Present Past	hearing heard	hearing heard	hering herd	entendant entendu
Present 1 st singular 2 nd singular 3 rd singular 1 st plural 2 nd plural 3 rd plural	I hear you hear he hears we hear you hear they hear	I hear thou hearst he heareth we hear (en) you hear (en) they hear (en)	I here thou herest he hereth we here (n) ye here (n) þei here (n)	j' entends tu entends il entend nous entendons vous entendez ils entendent
Different forms	2	3	4	4 (1s=2s=3s)
Past 1 st singular 2 nd singular 3 rd singular 1 st plural 2 nd plural 3 rd plural	hear-d hear-d hear-d hear-d hear-d hear-d	hear-d hear-d-[st] hear-d hear-d-(en) hear-d-(en) hear-d-(en)	her-d-e her-d-est her-d-e her-d-e (n) her-d-e (n) her-d-e (n)	entend-ais entend-ais entend-ait entend-i-ons entend-i-ez entend-aient
Different forms	1	2	3	3 (1/2s=3s=3p)

(19)	Danish	Faroese	Yiddish	Icelandic
Infinitive	høre	hoyra	hern	heyra
Imperative Singular Plural	hør hør	hoyr hoyr (ið)	her hert	heyri heyrið
Participles Present Past	hørende hørt	hoyrandi hoyrt	herndik gehert	heyrandi heyrt
Present 1 st singular 2 nd singular 3 rd singular 1 st plural 2 nd plural 3 rd plural	jeg hører du hører han hører vi hører I hører de hører	eg hoyri tú hoyrir hann hoyrir vit hoyra tit hoyra tey hoyra	ikh her du herst er hert mir hern ir hert zey hern	ég heyri þú heyrir hann heyrir við heyrum þið heyrið þeir heyra
Different forms	1	3	4	5
Past 1 st singular 2 nd singular 3 rd singular 1 st plural 2 nd plural 3 rd plural	hør-te hør-te hør-te hør-te hør-te hør-te	hoyr-d-i hoyr-d-i hoyr-d-i hoyr-d-u hoyr-d-u hoyr-d-u	--- --- --- --- --- ---	heyri-ð-i heyri-ð-ir heyri-ð-i heyri-ð-um heyri-ð-uð heyri-ð-u
Different forms	1	2	0	5

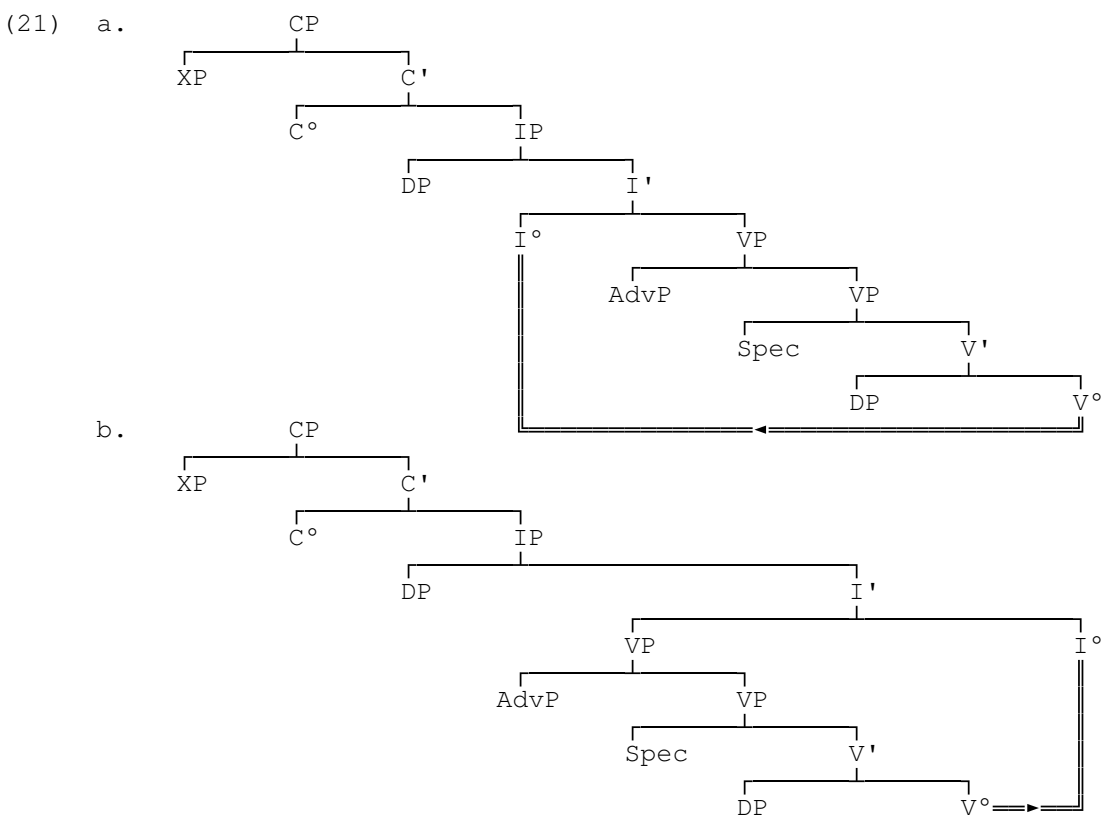
3.2 IP and V°-to-I° movement in the SOV-languages

Now what about SOV-languages like German or Dutch? As far as verbal inflection is concerned, the above suggestion would lead us to expect German (but not Dutch) to have V°-to-I° movement. Although this is what I used to think (Vikner 1995:152-157), I no longer think so, in that I now think that none of the SOV-languages have V°-to-I° movement, not even German (Vikner 2001, 2005b). Consider first the German version(s) of (14) and (15):

- (20) Ge. a. *Dass Johann isst oft Tomaten (überrascht die meisten Leute)
 b. Dass Johann oft Tomaten isst (überrascht die meisten Leute)

The ill-formedness of (20a), which must have the structure (21a), could be due to I° being final (as I thought in Vikner 1995:153) and/or be due to German not having V°-to-I° movement (as argued in Vikner 2001, 2005b).

The well-formedness of (20b) may either be the result of V°-to-I° movement if I° is final, as in (21b), or of lack of V°-to-I° movement, as in either of (21a,b) WITHOUT the arrows:



In other words, if German lacks V°-to-I° movement, we have no evidence of the position of I° in German, and thus it may be that the only difference between German clause structure and that of e.g. English and Danish is the position of V°, as in (21a) vs. (12).

(22)

	V2	V°-to-I°
a. French	-	+
b. English	-	- (at least not main verbs)
c. Icelandic	+	+
d. Danish	+	-
e. German	+	? (Vikner 1995: +, Vikner 2001, 2005b:-)

In my view, there are at least two other things that indicate that German (etc.) does not have V°-to-I° movement:

1. (Vikner 2005b)

A number of complex verbs in German and Dutch have a strange distribution. They occur as non-finite verbs in both main and embedded clauses, (23a,b), but as finite verbs, they only occur in embedded clauses, (23c), NOT in main clauses, (23d,e):

(23) Ge. a. Sie will bausparen
 She wants (to) building-save
 (She wants to save with a building society)

b. ... weil sie bausparen will
 ... *because she building-save wants*
 (... because she wants to save with a building society)

c. ... weil sie bauspart
 ... *because she building-saves*
 (... because he saves with a building society)

((23a,c) adapted from Eisenberg 1998:226, 324, (16a))

d. * Spart sie bau ?

e. * Bauspart sie ?

(Building-)saves she (building) ?

(Intended: Does she save with a building society?)

I think that this is best explained if we assume that what (23a-c) have in common is that the verbs here all are in V°, i.e. what these verbs are unable to do is to leave V°. The reason is that they then would have to be treated either as separable ("trennbar") or as non-separable ("nicht-trennbar") verbs, and this special property of these verbs is that they have to fulfill the conditions on verbs of both types.

2. (Vikner 2001:66-99)

There is a lot of variation in the sequence of verbs in embedded clauses like

(24) a. Du. ... dat hij haar hoort roepen ('... that he her hears shout')

b. Ge. ... dass er sie rufen hört ('... that he her shout hears')

both across nine different Germanic languages/dialects (Dutch, Afrikaans, West Flemish, Frisian, Standard German, Swabian German from Stuttgart, Swiss German from Sankt Gallen, Swiss German from Zürich, and Swiss German from Bern) and across six different constructions (perfect, passive, durative, causative, perception verbs, and modal verbs).

This variation in embedded clauses where one of the two verbs is finite, as in (24a,b), is almost identical to the variation in the sequence of the verbs in main clauses where none of the two verbs in question are finite, (25a,b):

(25) a. Du. Hij zal haar horen roepen ('He will her hear shout')

b. Ge. Er wird sie rufen hören ('He will her shout hear')

This shows that it makes no significant difference whether the higher of the two verbs concerned is finite, as *hoort/hört* in (24a,b), or non-finite, as *horen/hören* in (25a,b). This again means that in embedded clauses in the nine SOV-Germanic languages, there can be no obligatory movement that involves only finite verbs. This amounts to saying that there is no V°-to-I° movement in the Germanic SOV-languages.

4. VP

It is possible to refer to a preceding VP without repeating it word for word:

- (26) En. a. Henry will buy presents in Paris tomorrow and
Joe will do so _____, too
- b. Henry will buy presents in Paris tomorrow and
Joe will do so _____ next week
- c. Henry will buy presents in Paris tomorrow and
Joe will do so _____ in Bolton next week
- d. *Henry will buy presents in Paris tomorrow and
Joe will do so books in Bolton next week
- (27) Da. a. Henrik vil købe julegaver i Paris i morgen og
det vil Joachim _____ også
- b. Henrik vil købe julegaver i Paris i morgen og
det vil Joachim _____ i næste uge
- c. Henrik vil købe julegaver i Paris i morgen og
det vil Joachim _____ i Møgeltønder i næste uge
- d. *Henrik vil købe julegaver i Paris i morgen og
det vil Joachim _____ bøger i Møgeltønder i næste uge

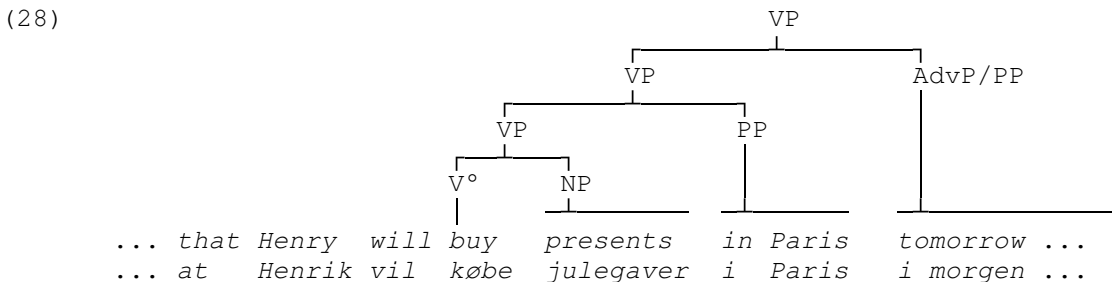
do so / det (gøre det) can replace the following:

- | | |
|------------------|---|
| 1. V°-NP-PP-AdvP | (26a): <i>buy presents in Paris tomorrow</i> |
| 2. V°-NP-PP | (26b): <i>buy presents in Paris</i> |
| 3. V°-NP | (26c): <i>buy presents</i> |
| 1. V°-NP-PP-PP | (27a): <i>købe julegaver i Paris i morgen</i> |
| 2. V°-NP-PP | (27b): <i>købe julegaver i Paris</i> |
| 3. V°-NP | (27c): <i>købe julegaver</i> |

but not just:

- | | |
|-------|--------------------|
| 4. V° | (26d): <i>buy</i> |
| 4. V° | (27d): <i>købe</i> |

The fact that three different constituents may be replaced by one and the same element can be captured by assuming that these three constituents are of the same category, namely VP:



5. NP

Important announcement: Articles (etc.) are not seen as part of the NP (noun phrase) here. Instead, what was earlier seen as an NP is here seen as a DP (determiner phrase). (Abney 1987, Giorgi & Longobardi 1991, Haegeman & Guéron 1999:406-422, and others).

BEFORE :

- (29) a. [_{NP} these green chairs]
 (30) a. [_{NP} the chairs from France]

HERE :

- b. [_{DP} these [_{NP} green chairs]]
 b. [_{DP} the [_{NP} chairs from France]]

The minimal NP thus consists of the head (N°) and its complement(s). Modifiers may be adjoined to the left or to the right.

The article is the head of its own projection (DP, i.e. determiner phrase), which dominates D° and its complement (NP), cf. the following section.

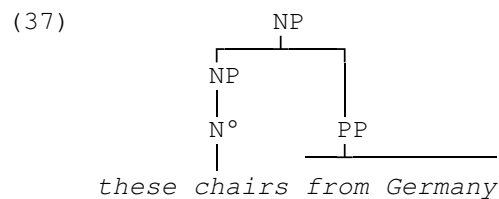
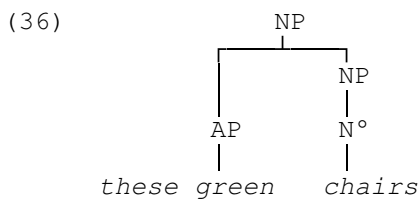
One reason to assume the existence of both NPs and DPs is NPs, (31a), (32a), (33a), & (34a), and DPs, (31b), (32b), (33b), & (34b), do not occur under the same circumstances:

- (31) En. a. Nice man though he is, my uncle can be a little boring
 b. *A nice man though he is, my uncle can be a little boring
- (32) En. a. *I met nice man
 b. I met a nice man
- (33) Da. a. Stor dyreven som han var, den lille Emil, lukkede han katten ud
 b. *En stor dyreven som han var, den lille Emil, lukkede han katten ud
- (34) Da. a. *Ida kender dyreven
 b. Ida kender en dyreven

English has an element that may be substituted for NP: *one*.

- (35) En. a. These chairs from Germany are cheaper than
 the ones over there
 b. These chairs from Germany are cheaper than
 the ones from France over there

The fact that two different constituents may be replaced by one and the same element can be captured by assuming that these two constituents are of the same category, namely NP:

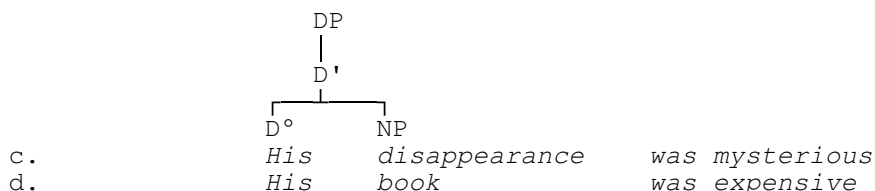
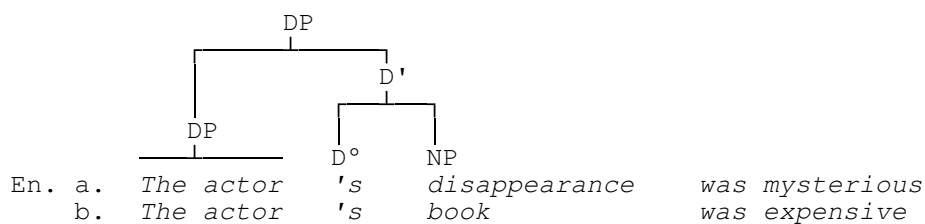


(38a,b) is thus accounted for by assuming that *of linguistics* is a complement in *teacher of linguistics*, whereas *with an American accent* is a modifier. The same assumptions will also account for the ordering restrictions in a,b):

- (38) En. a. The teacher of linguistics with an American accent knows
 more about German than the one with a Danish accent
 b. *The teacher of linguistics knows more about German
 than the one of physics
- (39) En. a. A teacher of linguistics with an American accent
 b. *A teacher with an American accent of linguistics

A **THIRD** argument in favour of the DP-analysis is that it makes the following analysis of possessive constructions possible, where *the actor* is in the specifier position of DP, i.e. it is in some sense a subject.

(44)



This analysis has two advantages:

1. It predicts that possessor phrases and articles do not cooccur, because both *'s* and *the* have to be in D°.

- (45) En. a. *The actor's the disappearance was mysterious
 b. *The actor's the book was expensive

2. And it predicts that *'s* occurs not on the noun in the possessor DP (as it would if it was a real case ending) but after the entire possessor DP:

- (46) En. a. *The little [_{N°} girl's] next door bicycle
 b. [_{DP} The little girl next door]'s bicycle

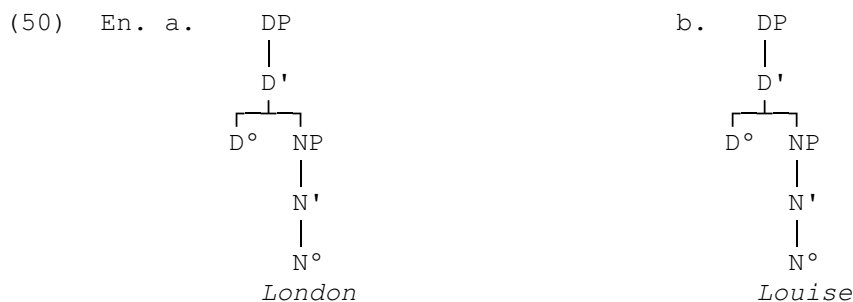
- (47) En. a. *The [_{N°} Queen's] of England new hat
 b. [_{DP} The Queen of England]'s new hat

- (48) En. a. *In a [_{N°} year's] or so time (0 Google hits, Nov. 2005)
 b. In [_{DP} a year or so]'s time (2500 Google hits, Nov. 2005)

- (49) Da. a. * [_{N°} Deres] der ikke kom egen skyld
 b. [_{DP} De der ikke kom] 's egen skyld
Those who not arrived's own fault

▪ **DPs containing proper names**

Proper names like *London* or *Louise* normally occur without an article in English, Danish or French, and so one might be tempted to analyse them as NPs (as in (31a) above) rather than DPs. There are at least two reasons why we shall nevertheless take them to be DPs, with a structure as in (50a,b) where D° is empty:



The first reason is that sometimes proper names do have articles, which then fit into D°:

- (51) En. a. He much preferred the London of the 1930es to the modern city
 b. You probably know this Louise much better than that Louise
 c. I much prefer your Fred to my Fred
 d. Tower Bridge is a famous bridge across the Thames
 e. The meeting took place in the Hague

There are also languages where proper names may frequently take articles:

- (52) a. It. La Maria non parla danese
 b. Ge. Die Maria spricht kein Dänisch
The Maria (not) speaks (no) Danish

The second reason is that the positions and functions that proper names have can otherwise be filled with DPs, not with NPs:

- (53) En. a. London is a really nice place
 b. [_{DP} This city] is a really nice place
 c. *[_{NP} City] is a really nice place

This also applies to what we before would have called "determinerless NPs". These are now taken to be DPs with an empty D° ("zero article"):

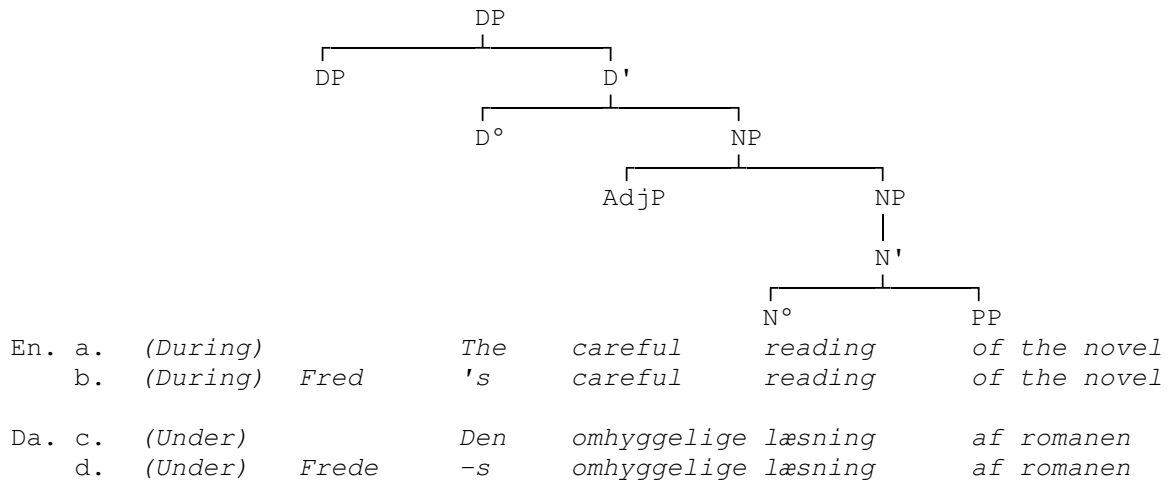
- (54) En. a. Mobile phones should be switched of during the lecture
 b. Young Danes drink less beer than 50 years ago
 c. Theory should go hand in hand with practice
 d. He knew Danish before he learned English

7. Parallels between DP and IP/CP (and missing parallels)

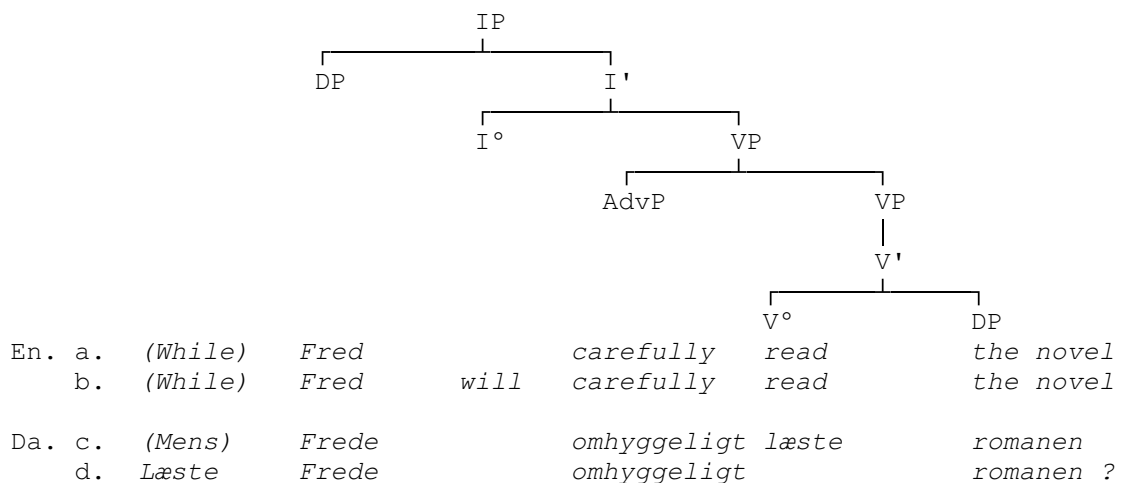
Just as DP is built on top of an NP, so IP is built on top of a VP.

Notice that the subject of the DP is in DP-spec and the subject of the IP is in IP-spec. Notice further how the modifier of an NP is an AdjP which adjoins to the NP, and the modifier of the VP is an AdvP which adjoins to the VP:

(55)



(56)



We have seen examples of movement from V° to I° or from V° to I° to C°, but we have not (yet) seen any parallel examples in the DP. Danish and the other Scandinavian languages (and also unrelated languages like Romanian) are sometimes assumed to have N°-to-D° movement:

- (57) Da. a. $\overset{D^\circ}{\text{et}}$ stort $\overset{N^\circ}{\text{billede}}$ *a large picture*
 b. et billede *a picture*
 c. det store billede *the large picture*
 d. billedet *picture-the*
-

Cf. that only the elements that occur between D° and N° (e.g. adjectives) may prevent this movement, not elements that occur left of D° (e.g. quantifiers) or right of N° (e.g. PPs):

- (58) Da. a. $\overset{D^\circ}{\text{billederne}}$ $\overset{N^\circ}{\text{_____}}$ *pictures-the*
 b. begge $\overset{D^\circ}{\text{billederne}}$ $\overset{N^\circ}{\text{_____}}$ *both pictures-the*
 c. $\overset{D^\circ}{\text{billederne}}$ $\overset{N^\circ}{\text{_____}}$ af huset *pictures-the of house-the*
 d. * $\overset{D^\circ}{\text{billederne}}$ store $\overset{N^\circ}{\text{_____}}$ *pictures-the large*
 e. de store billeder $\overset{N^\circ}{\text{_____}}$ *the large pictures*
-

Across different frameworks (Dik 1997:67, Platzack 2001a,b, the wording here is from Christensen 2005:30), it is often observed that the tripartition between CP, IP and VP correspond to a tripartition between (e.g.) discourse form, grammatical form and thematic form:

- (59)
- | | |
|--|---|
| | <p>Discourse Form
Proposition, illocutionary force, topic, focus</p> <p>Grammatical Form
Subject-predicate (nexus), tense, aspect, voice, polarity</p> <p>Thematic Form
Argument structure</p> |
|--|---|

It remains to be seen whether something parallel could hold for the DP.

In the project application, we promised to look for similarities and differences between clauses and nominals in three different directions. From the point of view of the approach presented here, these three areas correspond to different parts of the phrase structure:

	Danish	English	Positions ins the structure
(60) a.	Grammatiske relationer	Argument structure	Specifier and complement positions
b.	Beskriverled	Modifiers	Adjoined positions (or are they?)
c.	Bestemmerled	Determiners	"Functional" head positions

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