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**Dutch syntax** 

Zwart, Jan-Wouter

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Groningen Dissertations in Linguistics Department of General Linguistics University of Groningen 1993

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Dissertation University of Groningen 1993

Dutch Syntax A Minimalist Approach

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C. Jan Wouter Zwart

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RLERSUNIVERSITETT GRONINGEN

#### **Dutch Syntax**

## A Minimalist Approach

Prosfachrift ter verkrijging van het doctornat in de aan de Rijkeuniversieht Groningen aan de Rijkeuniversieht Groningen Rector Magnifens dr S.K. Kinjeers in het openbaar te verecheigen op in het openbaar te verecheigen of alse namiddags to 2.45 uur precies des namiddags to 2.45 uur precies

door

## **Cornelius Jan Wouter Zwart**

geboren op 20 september 1960 te Oas

Promotor: Prof. dr J. Koster

".dans toutes les langues du monde il n'y a qu'une même manière nécessaire pour former un sens avec les mots." César Chesnau du Marsais (Encyclopédie, tomo IV, 1754, 24. Construction) voor de lieve snoes

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Acknowledgments

had really built up to this, but as I was explaining the standard analysis of verb second, I realized that what I was presenting fell far short of the wonders that I had promised. The idea to set off on the beaten track of Dutch syntax grew out of dissatisfaction with an introductory syntax class that I gave to the first-year students of the faculty of arts of our university in early 1990. As had decided to illustrate to the students how a few simple rules accounted always, we from the general linguistics department were in desperate need of new students, and Jan Koster had left no doubt that this class was supposed to sell the students on the beauty of syntax. To that end, I for the intricate patterns of verb movement in their own native tongue. I

I discussed this with Eric Hoekstra and Jan Kūster. Jan told me that what had always bothered him about the standard analysis of verb second was the unexpected impossibility of having a weak object in sentenceinitial position. Neither of us at that time recalled Travis' discussion of

the same paradigm, whose valuable contribution to the syntax of Germanic had been obscured by the success of her Head Movement Constraint. I felt rather silly when colleagues from the University of Tilburg told us that the solution we had found dated from 1984. Wim Kosmeijer was also very helpful in drawing my attention to Bonnie Schwartz and Sten Vikner's 1989 article in Working Papers in Scandinovian Syntax, in which Travis' EOP-account of verb movement in German convincing, but did not share their conclusion that Travis' description of the verb movement phenomena was, for that reason, incorrect. And Travis' description was still the only one in the literature that explained the asymmetry between weak subjects and weak objects that Jan Koster and I had discussed.

see Sten and me pacing angrily up and down a sweaty classroom in I had a hard time convincing Bonnie and Sten of this point. I can still

Girona, in that wonderful summer of 1990, with Rex Sprouse and Bonnie Schwartz watching in amazement, and Andrea Moro, who happened to be in the same room, in what must have been amusement. All these people have become dear friends, and I am very grateful to Sten for his facte opposition, which is only one of the ways in which he has supported me over the years. Jan Koster's Girona 1990 course on my analysis, as it was developing, was also of great help in those early days. And, of course, Eric Hoekstra, with whom I had the fortune to discuss my work on a daily basis from the very start. I will not forget that we made the first pitch together, at the 1990 TABU-dag (Wart & Hoekstra 1990).

In the meantime, it had become clear that several other aspects of the standard analysis of Dutch syntax were also unsatisfactory. I owe to Eric Reuland much of my critical remarks regarding the assumption that IP in Dutch is head final. This dates from the time that I was used in the time that it was commuting to Groningen once a week for Eric's class Nijmegen and was commuting to Groningen once a week for Eric's class on nominalizations (1986). After the course I did not see Eric's class weeks. When we did get together again I found out that Eric had abandoned his own suggestion (which I had embraced) that the nominalization phenomena in Dutch indicated that there had to be an empty inflectional head. I found Eric's carlier idea much more stimulating stimulating comments have always been a great source of encouragement to me over the years.

The next step was to go overseas. I am grateful to Judy Bernstein for inviting me to give a talk at the CUNY Syntax Lunch, which enabled me to visit MIT for the first time. From the discussions that I had with Richard Kayne and David Pesetsky. I got the distinct impression that something was in the air at MIT. At that time, Noam Chomsky was discussing PRO and proposed that PRO was not Case-less. This made a lot of sense to me, but it also appeared to obviate the need for further research on the frictions between Case Theory and Control Preory, which was my original research topic. I am extremely grateful to David Pesetsky for taking the time to talk to me during that first visit, and for decision there and then, and also knew that I had to return to MIT the next year.

1991 was a year of torrid developments. Looking back, I would probably have to say that the system of graduate student courses, managed by Peter Coopmans, was paying off for me, as it was for so many other graduate students of my generation. I am grateful to Peter Coopmans, Martin Everaert, Ian Roberts, Teun Hoekstra, Aaftee Hulk, Henk van Riemsdijk, Dominique Sportiche, Hiida Koopman, and to my brilliant colleagues Eric Hoekstra, René Mulder, Marcel den Dikken, Rint

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Sybesma, Pim Wehrmann, Guido Vanden Wyngaerd, Helen de Hoop, and Ad Neeleman.

Ian Roberts' course on middles inspired me to work on expletives in Dutch. I have since found out that writing on expletives is a surefire way of getting your abstract accepted, as I went 4 for 4 during the summer of 1991. I thank Ian Roberts for the inspired discussions we had on this subject, especially on the consequences for the analysis of verb second.<sup>1</sup>

Ad Neeleman suggested to me that the complementizer agreement and Neeleman suggested to me that the complementizer agreement phenomena of East Netherlandic dialects supported my analysis of verb movement in subject initial main clauses in Dutch. I am grateful for this insight, and also for our friendship, dating back from the Cambridge GLOW Colloquium of 1990. I took the complementizer agreement material with me on my second visit to MIT, in the fall of 1991, and presented the first version of my GLOW talk at MIT on December 12 (Sinatra's birthday). This was a Thursday when Noam's class was canceled. I was afred no one would come, but thanks to the organizational talents of Shigeo Tonoike, who organized the colloquium series, the turnout was gratifying. I thank the MIT community for showing up and for their questions and omments.

There are many people I have to thank for the wonderful time I had at MIT. First of all, Noam Chomsky, whose 1991 fall term class lectures were nothing short of sensational. Apart from being conceptually and esthetically appealing, the theory Noam developed in that semester provided a perfect embedding for my analysis of verb movement in Dutch and seemed to be highly compatible with the representational approach to generative syntax that I knew so well from Jan Koster's work and teaching I thank Noam for showing interest, then and now, and for putting his students onto my work.

Second, Wayne O'Neil, who assigned to me the Visiting Scientist status (which means: no desk), but did not object when the students organized a desk for me. These students were Jonathan D. Bobujik and Tony Bures, Also thanks to my other room mates Seth Minkoff, Utpal Lahiri, Rolf Noyer, and Priedenkee Moltmann. Next, David Pesetsky, who went out of his way to discuss my analysis of verb second in Dutch with me over and over again, and who never ceased to be extremely critical and extremely encouraging. Discussions with Jon Bobaljik, Alec Marantz, Peter Culicover, Chris Tancredi, Phil Branigan, Fierre Fica, Anoop Manajan, Akira Waranabe, Toshifusao Nea, Hubart Truckenbrodt, and anay others were wonderful as well. The people from Harvard were also very helpful:

<sup>1</sup> This research is reported in Zwart (1991d), (1992e).

DUTCH SYNTAX

Höskuldur Thráinsson, Joan Maling, Dianne Jonas, and, of course, Rex Sprouse. Many people made my stay in Somerville unforgettable, but most of all Andrea Moro, Albert Branchadell, Sarah Kennelly, Jonathan Bobaljik, Lori Holmes, Harry Leder, Shigeo Tonoike, Rex Sprouse, Katharina Hartmann, Ana Ardid, and Masayuki Oishi.

I thank Ken Safr for inviting me to give a talk at New Brunswick and Judy Bernstein for giving me the floor at CUNY for the second time. Thanks to the audiences at these occasions, especially Edwin Williams, Richard Kayne, Caroline Heycock, and Raffaella Zanuttini. Back in the Netherlands, I was happy to find that the minimalist

Back in the Netherlands, I was happy to find that the minimalist approach received a warm welcome from the people who have been working together with me most closely for the past few years: Jan Koster, Eric Hoekstra, and Marcel den Dicken. Also the enthousiasm of our students Edith Kaan, Anko Wiegel and Paulien Rijkhoek was highly stimulating. Together with Edith, I had been working on a new analysis of extraposition in Dutch. The idea was to replace extraposition by short verb movement to the left. Richard Kayne's brilliant 1992 GLOW guest lecture gave this analysis a decisive push.

The hypothesis that Dutch is an SVO language made it possible to recapture a typological regularity that seemed lost in the revised verb second analysis, namely that the lexical projections and the functional projections must all have their heads on the same side. I thank Jan Koster for providing staunch support for this idea. It is to a large extent thanks to his enthursiasm that I have been able to sail through the final stages of this research project with so much comfort.

I thank Werner Abraham for allowing me to discuss complementizer agreement among traditional Germanicists on the Groninger GLOW Colloquium for questions and comments, especially Christer Platzack I thank Christer Platzack and Henk van Riemsdijk for invritin me to present ny analysis of cliftics in Dutch in a workshop organized by Theme Group 8 of the European Science Foundation Eurotyp project. Again, thanks to the audience, especially Joe Emonds and Anna Comparative Germanic Syntax at Tromso, 1992, especially Noam Chomalsy, Christer Videns, Anders Haltzack, Tony Kroch, and Riuy Huybregts.

Many people have sent written comments on my work over the years. Of these, I must especially mention Liliane Haegeman, Eric Hoekstra, and Marcel den Dikken. In this department, thanks are also due to Guido Vancen Wyngaerd, Anders Holmberg and Christer Platzack, among many verdens. Also thanks to the many people who have sent me unpublished material.

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It is my great pleasure at this point to express my gratitude to my thesis supervisor Jan Koster. His acute intelligence and sharp judgment have been of immeasurable value to me over the years. It is impossible to say where I would have been today without his confidence, friendship, and enthusiasm. I am very grateful for the fact that he did not let the pressure of time get in the way of providing me with numerous helpful remarks, suggestions, and corrections.

I am gravery in the second strate of the members of my thesis committee: Werner Abraham, Noam Chomsky, and Henk van Riemsdijk. Werner Abraham has shown confidence in my abilities for as long as I know him. I am grateful for the various opportunities he has given me for publishing my work, and for the speed and accuracy with which he has judged the first version of this thesis. Noam Chomsky has shown great kindness in discussing my work with me several times and in making me believe he came to Tromse to hear my talk. I'm not the only linguist who owes almost everything to him, yet I am very grateful that I am able to express my special indebtedness to him as a member of my thesis committee. Henk van Riemsdijk has supported me throughout my career in various ways. I am grateful for that, as well as for the many things I learned from him over the years. I would like to thank him for having found the time to judge the years on such short notice.

There are several other people which I forgot to mention in the autobiographical account above. I would like to thank them here, and apologize to those who I have still left out.

Jaume Solà and Trond Trosterud have made invaluable contributions to my work. I have thoroughly enjoyed the daily discussions I had with Jaume, and have benefited greatly from his vast knowledge of linguistics. Trond came through with much needed data on Norwegian dialects, almost instantly upon request. It is my sincere hope that when the time comes that he needs to have the works on obscure Dutch dialects, I will be able to deliver as swithly as he was.

I learned a lof from discussions with Wim Kosmeijer, Bonnie Schwartz, Alessandra Tomaselli, Jack Hoeksema, Arnold Evers, Richard Kayne, Norbert Correr, Marco Haverkort, Ken Safir, Norbert Honstein, Maarten de Wind, Zvi Penner, Bily van Gelderen, Jarich Hoekstra, Hans den Besten, Ton Goeman, Gertjan Postma, Josef Bayer, Daniel Büring, Damir Cavar, Chris Wilder, Jacqueline Guéron, Alain Rouveret, Guglielmo Cinque, Luig Rizzi, Ur Shlonsky, Tim Stowell, Norbert Hornstein, and Morris Halle.

Many people have become great personal friends over the years. I would like to thank Paula Fikkert, Angeliek van Hout, Lea Nash, Amaya Mendikoetxea, Ana Ardid, Albert Branchadell, Andrea Moro, Katherina Hartmann, Raffaella Zanuttini, Masayuki Oishi, Shigeo Tonoike, Sarah

Kennelly, Laura Ripoll, Judy Bernstein, Rint Sybesma, Bart Hollebrandse, <u>Maaike Schoorlemmer, Joleen Schipper, Josep Quer, Mercè Coll, and my</u> baseball friends Daniel Valois, Luc Moritz and Murat Kural.

of Groningen, no one excluded, but in particular Peter Blok, Ale de Boer, Gerard Bol, Arthur van Essen, Dicky Gilbers, Tjeerd de Graaf, Helen de Hoop, Petra Hendriks, Frank Wijnen, Liesbeth Laport, Frans Zwarts, Jack I would like to thank the present graduate students and colleagues from the linguistics department and related departments of the University Hoeksema, Simon Reker, Ger de Haan, and Geert van der Meer.

the Massachusetts Institute of Technology for allowing me to stay as a Visiting Scientist in the Fall of 1991, the Università Autonoma, Girona, Catalunya, for staging the 1990 GISSL Summer School (especially thanks to Laura Ripoll), the P.J. Meertens Instituut, Amsterdam, for allowing me to use their material and facilities, the Faculteit der Letteren of the University of Groningen and the Netherlands Foundation for Scientific Research (NWO) for financing several trips, and the European Science Foundation for financing my participation in the Eurotyp theme group 8 I would like to thank the Department of Linguistics and Philosophy of workshop in Lund, 1992.

I am indebted to Corrie van Bommel-Ramselaar for allowing me to finish my thesis in her home in Gemert. The peaceful stay in my beloved Brabant, together with Hanneke, provided the ideal circumstances for finishing and rewriting the entire book. Also thanks to Margrieta Mentink

Thanks to Frank Wijnen and Gerard Bol for creating the perfect environment in the final, hectic days of the preparation of the manuscript, and to Ton Roovers, Tjalling de Vries, and Geesina Dijkstra for assistance and Paulien Rijkhoek for providing logistic support. Thanks to Ruurd van der Weij for advising me on font selection. producing the final printout. 

Finally the time has come to thank my parents, Simon Zwart and career with bemusement, but are now faithfully filing the publications that I send home. I feel very fortunate to receive their unconditional Eugenie Zwart-Kruysse, who may have looked upon the course of my support

phenomena of Dutch and regarding the contents and organization of *Dutch Syntax*. I could not have done it without her. Her confidence in me and her love mean more to me than I can express. And, ultimately, Hanneke, who took care of me when it was needed she discussed many aspects of this book with me, both regarding the most, and made it possible for me to finish on time. In addition to that,

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#### INTRODUCTION

### **1** Where Languages Differ

Language is a function of the human species. It is unclear how this function has developed and in what way its properties are determined by the structure of the human brain. What is clear, however, is that only humans have language.

In this respect, the use of language is comparable to counting and calculating, to staging rituals and creating art, and to contriving deceit. Apparently, only the human brain harbors a computational system of the complexity that is required for performing these functions.

complexity that is required for performing these functions. If language is a function of the human species, its properties must be largely determined by the properties of the human computational system. This implies that a number of properties of linguistic structures are universal.

In studying the universal properties of language, considerable progress has been made in recent years within the theoretical framework of generative grammar (Chomsky 1957 and much later work). According to this theory, the computational system creates language independent syntactic representations by deriving them from language independent basic representations. The structure of these representations is simple and universal, hierarchically ordered in a binary branching system. The various to the representations by movement, deletion, and insertion

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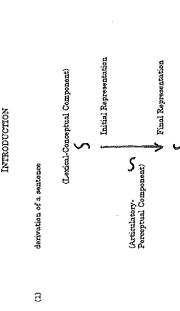


The basic representations (originally called *deep structures* and later *D-structures*) are considered to be the interface between the computational system and the lexical-conceptual component of the mind. The way the various positions in the basic representations are filled depends on the thematic and aspectual properties of lexical items in a particular language.

The observable representations (originally called *surface structures* and later *S-structures*) are derived from the basic representations by applying or not applying the universal operations in a language particular way. It is assumed that they are merely intermediate stages in the derivation of a sentence. Eventually, the observable language particular representations will be turned into language independent representations again (called *logical form* or *LF*). These final representations are the interface to another mental component (or set of mental components), which operates independently of the computational system, and takes care of the interpretation of sentences.

Thus, the computational system takes a sentence from an initial state to a final state, through a number of intermediate states. The initial state and the final state are interfaces with other components of the mind. Therefore, the properties of these states are supposed to be universal. The intermediate states, however, are not interfaces with other mental components. Therefore, only at this intermediate stage is language variation to be expected.

At the same time, the intermediate states are the only states which are open to immediate empirical observation. It is assumed that at a eerain point in the intermediate stage instructions to the articulatoryperceptual system are issued. These instructions constitute a third interface level (called *phoretic form* or *FP*), and without them sentences could not be spoken or heard. Therefore, sentences that can be empirically observed are always in an intermediate state of their derivation. <sup>1</sup> It may be the case in certain langunges that the intermediate state of the derivation differs minimally from or is identical with the initial state or the final state. However, it is cruailly assumed that the intermediate state is not necessarily identical to either the initial state or the final state.



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Intermediate states can be more or less advanced in the direction of the final state. There is no reason why the derivation of sentences should take place in rigorously identical ways in all languages. A certain take place in rigorously identical the theory developed since Chomsky (1957) is correct, it should be possible to describe all syntactic variation between languages a arbitrary differences in the intermediate states of the derivation of the sentences of these languages.<sup>2</sup>

(Interpretative Component)

In this dissertation, certain phenomena in the syntax of Dutch, a continental West Germanic language of the Indo-Hittite phylum, will be analyzed within the approach to syntactic variation sketched above. The most recent stage of this approach will henceforth be called *the Minimalist Program*, after Chomsky (1992). A fuller exposition of the Minimalist Program, will be presented in section 2 of this introductory chapter, and some extensions of the approach will be proposed in section 3.

In Chapter II, the facts of Dutch which will be particularly relevant throughout this study will be presented first in a separate reference section. In sections 2 and 3, the traditional generative analysis of these phenomena, based on Koster (1975) and Den Besten (1977) will be discussed. In section 4, I will argue that our understanding of the phenomena of Dutch improves greatly when the more restrictive minimalist approach is chosen. <sup>a</sup> The scietance of implicational universals (Greenberg 1963) suggests that not all variation among languages is arbitrary, and that there are marked and unmarked combinations of parameter sottings.

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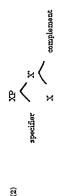
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It will turn out that in Dutch, the derivation from the initial state to later states invariably involves movement of syntactic heads and phrases to the left. This is at variance with previous analyses of Dutch, in which various rightward movements had to be assumed. However, this result is welcome, since it suggests that the directionality of the derivation is the same in Dutch and in English. It might even suggest that this directionality is universal, in that the target positions for the movements are elivarys found to the left of already existing structure, and never to the right of it.

There is no *a priori* conceptual reason why movement should always be to the left and never to the right. It follows from well-known conditions that movement is always upward (picturing syntactic representations as inverted tree structures), but there is no reason why the arbitrary differences between languages determining syntactic variation should not include a directionality parameter.

However, as will become clear in section 3.3 of this introduction, there are several reasons to conclude that movement is in fact invariably leftward (Kayne 1993). If this is correct, the analysis of Dutch that will be developed in this study is in agreement with this universal mechanism, a marked improvement over the standard analysis of Dutch within generative grammar.

This, then, has been my major guideline in writing this book to argue that the phenomena of Dutch can be profitably analyzed as involving leftward movement only. It follows that the structure of all syntactic categories can be represented as in (2), where specifier and X are the only possible targets for movement of elements in the *complement* of X.



In chapter III, I will argue that the structure in (2) applies to the functional projections in Dutch (which are created in the process of movement, see section 2 of this introduction). This will involve a discussion of clitic placement, complementizer agreement, and verb movement. In chapter IV, I will argue that the structure in (3) also applies to the lexical projections of Dutch (constituting the initial representations). This will be argued mainly on the basis of the syntax of the VP involutor of verb clusters in Dutch.

the VP, involving a discussion of verb clusters in Dutch. The major conclusion of this study is that Dutch is a head initial language throughout. A second conclusion is that a strict application of the minimalist principles leads to a simple and elegant analysis of the

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complicated functional domain in Dutch. The analysis presented therefore provides empirical support for the universality of the structure of linguistic representations as well as of the operations affecting these representations.

# 2 The Minimalist Program (Chomsky 1992)

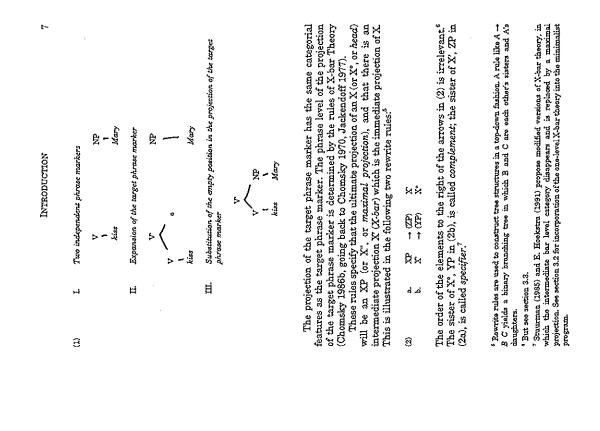
In this study, the phenomena of Dutch syntax will be analyzed in a way that is at some points sharply diverging from the traditional analysis, discussed in chapter II.

To some extent, the novel character of the analysis is a direct consequence of the theoretical framework adopted. This theoretical framework is the so called *Minimalist Program*, after Chomsky (1992 and MIT class lectures of Fall 1991). It is the latest developmental stage of the theory of (Transformational) Generative Grammar (Chomsky 1957).<sup>3</sup>

As in earlier stages of the theory, the Minimalist Program considers grammar to be a *derivational* system. A sentence is first built up in a basic form, then modified through processes of movement, deletion, and insertion, until it reaches a final form which may serve as input to other components of the cognitive system. However, unlike earlier stages of the theory, the mechanism creating the basic representation and the mechanism performing the other operations (movement, insertion, deletion) are the same (it is the mechanism of *Generalized Transformation*).

As in earlier stages of the theory, movement takes place because elements must be *formally licensed*. Unlike earlier stages of the theory, however, the need for formal licensing is the *only* reason for movement to take place. In addition, it is assumed that elements can *never* be formally licensed in a position they occupy in the initial representation.

As in earlier stages of the theory, movement may take place before or after the point in the derivation at which the instructions to the PFsystem (the articulatory-perceptual system) are issued. Unlike earlier stages, however, it is now assumed that movement preferably takes place <sup>3</sup> Earlier stages that can be distinguished are the Standard Theory (Chomsky 1965), the Exercised Standard Theory (Chomsky 1970; Jackendaff 1972), the Reviewe Extended Standard Theory (Chomsky 1973, 1977; Chomsky and Lanuk 1977; Chomsky 1980), the Gevennment and Binding Theory or the Principles and Parameters Approach (Chomsky 1981, 1986s, 1986b).



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*after* this particular point in the derivation, so that overt movement is, in a way, the marked option.

As before, the amount of overt movement may differ from language to language. But, unlike before, the presence or absence of overt movement is the *only* instance of parametric variation in syntax among languages.

is use only inseance of parameter variation in syntax among anguages. In the next four subsections, the key aspects of the Minimalist Program are briefly sketched. Some extensions to the program will be introduced in section 3.

# 2.1 Building Up Trees: Generalized Transformation

Representations are built up in a bottom-up fashion by a mechanism called *Generalized Transformation*. A Generalized Transformation combines two phrase markers. Two phrase markers are combined by expanding one of the two phrase markers (the 'target phrase marker') so as to include an empty position. This expansion takes phrase marker. This projection is binary branching and has two daughters: the target phrase marker and an empty position. This empty position is substituted for by the other phrase marker. The whole process, illustrated in (1), yields two sister phrase markers connected in a binary branching subtree.<sup>4</sup> <sup>4</sup> Binary branching is a result of this particular formulation of the Genoralized Transformation mechanism. The attractiveness of binary branching has been argued for several times in the literature (Kayne 1984, E. Eloekstra 1991).

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The Generalized Transformation illustrated in (1) combines two independent phrase markers. Therefore, it is called a *binary* operation. Lexical insertion is a typical binary operation.

It is also possible that the empty element created by expanding the target phrase marker is substituted for by an element *contained in* the target phrase marker. This would be called a *singulary* operation. Consider a standard case of raising to subject, as in John arrived. In this type of construction, John is generated as a complement of arrived, and moves to the subject position at some point in the derivation (Burzio 1981, Chomsky 1981).

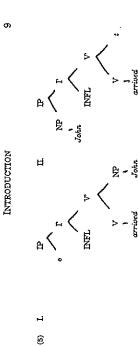
A binary operation of the Generalized Transformation will first combine *arrived* and *John*, as in (3).



Next, another binary operation will combine the phrase marker in (3) with a functional head in which the tense and agreement features are represented (called *INFL*, for the time being).



For reasons that do not concern us here, *John* has to move out of the projection of V to a position in the domain of INFL. To this end, I' is expanded in such a way that there will be an empty element in the position of sister of I', to be substituted for immediately by *John*.



In (5), the target phrase marker is expanded by adding a former subpart of the target phrase marker. No new phrase marker is added to the construction. Therefore this is called a singulary operation. All movement operations that were subsumed under the term *Move*  $\alpha$  in the Government and Binding framework are now redefined as singulary operations of the Generalized Transformation.<sup>8</sup>

Chomsky (1992) notes that the expansion of a target phrase marker, the introduction of an empty element, and the substitution of that empty element by a second phrase marker, are all part of one indivisible process. The intermediate stages, represented separately above for expository reasons, are never open to inspection as phenomena of language.

reasons, are never open to inspection as phenomena of language. Crucially, the Generalized Transformation always adds material *external to* existing phrase markers. It is not possible, Chomsky (1992) suggests, to insert material *inside* a phrase marker.<sup>2</sup> <sup>6</sup> A note on terminology is in order here. In the earliest stages of Thransformational Grammar, a distinction was made between airgular transformations and generalized transformations. The former operate on a single phrase marker, are ordered, and do not introduce meaning bearing elements, the latter embed a constituent phrase marker into a matrix phrase marker, are moreiared, and do introduce meaning-bearing elements (May and Postal 1964, phranteir. 1972, and references citized threato). In Chonsky (1992, 306), singulary transformations are a subcase of generilized threaton for the phranetics are a subcase of generilized threaton for the phrase marker into any difference being the origin of the phrase marker substituting for the energy position (the formal identity of generilized transformations and singulary transformations was a subcase of generilized transformations. The two operations work in the same way, the only difference setting the origin of the phrase marker interval and identity those generilized transformations and singulary transformations was a thready pointed out in Chomsky 1966;2, cf. also Chomsky 1965;1,36 note 35). Generalized transformations, especially those generalized transformations are been replaced by the rewrise rules of the here on phrase generalized transformations of this, that is the modern version of the Strict Ovid (Chomsky 1931).

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# 2.2 Licensing Blements: Morphological Feature Checking

A classic distinction exists in linguistic theory between contentful elements and functional elements. Word stems are contentful elements, whereas inflectional morphemes are functional elements. Functional elements express agreement relations between constituents.

In the Minimalist Program, it is assumed that agreement relations are highly local. A maximal projection  $\alpha$  agrees with a head  $\beta$  only if  $\alpha$  is a specifier of  $\beta$ . A head  $\alpha$  agrees with a head  $\beta$  only if  $\alpha$  is adjoined to  $\beta$ .<sup>10</sup> Moreover,  $\beta$  must be a *functional* head.

In the Government and Binding framework, the distinction between contentful (or *leadcal*) elements and functional elements gradually took the following shape.<sup>11</sup> Functional elements are generated as heads of independent phrasal projections. These functional projections are situated outside and on top of the leader projections. Thus, the inflectional morphemes for teams, person, number, etc., are generated separately from the lexical stems. The stems have to be united with the inflectional morphemes through a process of movement and adjunction.

This yields a sentence structure as illustrated in Figure 1:

<sup>10</sup> The locality requirements are further restricted in Zwart (1992b), where it is argued that an element a spress with an element 8 only if a adjoint to 8. This implies that in a specifichead agreement relation, the specific does not agree with the head, but with the immediate projection of a head. See below, section 3.2.

<sup>14</sup> The developments in the Government and Binding period are marked by Stowell (1981) and Pescator (1982), on the structure of IP. Chomsky (1986b) on the structure of CP. Kayne (1987), pollock (1989) and Chomsky (1991) on the division of IP into AgrP and IP. and Abney (1987) on the functional domain of noun phrases, DP. See Pukui and Speas (1986) on the relevance of of functional projections for parametrization.

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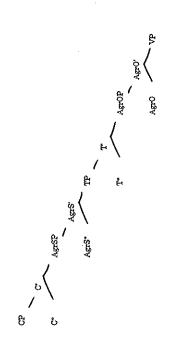


FIGURE 1

In figure 1, C stands for the complementizer position, T for tense, and AgrS and AgrO for subject and object agreement morphology, respectively. These functional heads project phrases in accordance with the rules of Xbar Theory given in (2) of section 2.1. AgrOP, TP, AgrSP and CP together constitute the functional domain of a syntactic structure, VP constitutes the lexical domain.

In the Minimalist Program, this analysis is maintained in a simplified form. The major difference concerns the content of the lexical and functional heads. In the Minimalist Program, lexical heads are occupied by fully inflected forms (stems plus inflectional affixes). These forms carry a *feature* associated with the inflectional affix. The functional heads are likewise occupied by features associated with inflectional morphology (instead of by the inflectional morphology itself).<sup>12</sup>

categories.

<sup>&</sup>lt;sup>14</sup> The assumption that abstract features associated with inflectional morphology are of genese syntactic signifcanto than the over morphology itselfs a latesdy a trucial part of the Case Theory module of the Government and Binding framework. This Case Theory refers to *dostract Case features* which are associated with nours and noun phrases regardless the morphological manifestation of Case on these neuras and noun phrases (Vergmand 1379, Chomsky 1931). This theory of abstract Case is unburked which Case are assumed to he present on late a response, even if there is no overt morphological manifestation of Case on these lated categories, even if there is no overt morphological manifestation of Case on these

The features associated with the inflectional morphology of lexical categories have to match the features represented in the functional heads. Matching is checked under the same strict locality requirements as agreement (in fact, agreement is a subcase of feature matching). Therefore, the requirement that morphological features match triggers movement of lexical elements to positions in the functional domain. *Licensing* inflected elements to positions in the functional domain. *Licensing* inflected elements to moving the inflected elements to positions in the functional domain, and checking whether the features associated with the inflection match the features represented in the functional heads.

Recall that movement is an application of the Generalized Transformation mechanism. The structure in figure 1, therefore, is completely built up in the process of moving elements from the lexical domain to positions in which their features can be checked (which yields the functional domain). There is no top-down rule system to ensure that syntactic structures are always like figure 1. The structure in figure 1 is the result of the fact that inflected elements have to be licensed outside of the lexical domain.

The inflectional features relevant to the phenomena of verb movement and noun phrase movement are tense, agreement, and Case.<sup>13</sup> It is very well possible that other features exist, but these three appear to be indispensable features of sentence structure.<sup>16</sup>

The foatures represented in the functional heads trigger both head movement (to the functional heads) and XP-movement (to the specifier positions of the functional heads). For this reason, Chomsky (1992) distinguishes two types of features represented in the functional heads: <sup>13</sup> The exact difference between Case and agreement is not very clear in this system. It is summed that the specifiers of AgrS and Agreement is not very clear in this system. It is Accumative Case features, respectively. This suggests that Case and agreement any identical concepts. Rowver, (Danaky (1992-42) suggests that, while Nominative and Accumative Case features are directed in the specifier positions of AgrS and AgrO, respectively, the features relevant for chocking Case as an indopendent features of AgrO, but in T and V, respecifiely. I and V a subject for further study.

<sup>14</sup> Latridou (1390) contends that the approach to infloctional morphology sketched here leads to an explosion of functional categories, assuming that every functional category discovered in studying the languages of the world should be present in the grammar of every single language of the world. This does not appear to be sound argumentation, since we cannot contude, in biology for instance, that every aspect increvents of the serial of biological systems should be present in every single species of the world. Yet some biological functions systems the indiversation in every single species of the world. Yet some biological intronsystems to indiverse the resent in all languages of the world, whereas a larger number of indirectional features are present in all languages of the world, whereas a larger interfactoral features determine word order.

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*N-features* and *V-features*. N-features are relevant for checking features of XPs (maximal projections), V-features are relevant for checking features of heads.

The derivation of a sentence consists in these two processes only: insertion of elements from the Lexicon (by a binary operation), and movement of elements to the functional domain (by a singulary operation).

2.3 Restrictions: Economy, Procrastination, Greed

The derivation of a sentence is subject to general conditions of *economy*. The derivation should take as few steps as possible (*economy of derivation*), and the resulting representations should have as few symbols as possible (*economy of representation*) (Chomsky 1991).

One consequence of economy of derivation is that movement always takes the shortest route.<sup>14</sup> Another consequence is that any movement that is not triggered by a well-established requirement of morphological feature checking is excluded.<sup>16</sup> Thus, elements, once licensed, are doomed to inerthese

Economy of representation excludes the presence of irrelevant material at any given level of representation. One instantiation of economy of representation is the principle of Full Interpretation, which excludes the presence of uninterpretable material at the interface representations."

The derivation of a sentence is a finite process. At a certain point, the process yields a representation that will function as the output of the grammatical system. This representation will serve as the input to other parts of the cognitive system, for instance those having to do with interpretation. The principle of Full Interpretation requires that every

<sup>16</sup> Shortness can be interpreted in two ways, viz. as involving the smallest number of steps and as involving the shortest stops. These two interpretations appear to be contradictory (cf. Chomsky 1392:21). I will argue in section 3.1 that the interpretation of economy of derivation as involving the smallest number of steps is the only correct one.

<sup>16</sup> The modification 'well-established' is needed to exclude morements traggered by 'ghost features', whose presence is only motivated in order to account for a specific word order phenomenon.

<sup>17</sup> This principle was first introduced in Chomsky (1988a-38), in the context of a discussion of the relation between Case assignment and theta-role assignment. The idea was that noun phrases must be assigned case at Seructure, because only than would they be visible for theta-role assignment at LF. Since any noun phrases that carry a theta-role are interpreted as it. The size only noun phrases that carry a theta-role are interpreted as it was ably noun phrases that carry a theta-role are interpreted as the interface of LF and other components of the cognitive system, the principle of Full Interpretation requires Case assignment at S-structure. This concept has been alightly changed in the Minimality Freyram. Case checking, Full Interpretation (and commot be interpreted at the interfaces. Without Case checking, Full Interpretation (and economy of presentation) is violated, since undecked faitures are unititerpretation.

element of an output representation should provide a meaningful input to the relevant other parts of the cognitive system. Only these elements are considered to be *legitimate objects* at the interface level.

The features associated with inflectional morphology are considered to be relevant for syntax only. They play a crucial part in the licensing of inflected elements. However, these features are of no direct relevance to components of the cognitive system external to the grammatical component. In other words, the features associated with inflectional morphology are not legitimate objects at the interface level: they cannot be a part of the final representation that is to serve as input to other components of the cognitive system.

For this reason, these features have to be *eliminated* during the derivation. It is assumed that matching features are eliminated as soon as they are checked.

Therefore, a minimal number of derivational steps is required to achieve a minimal representation at the interface of the grammatical component and other components of the cognitive system.

Two other principles are directly derived from economy of derivation. First, picture the derivation as a step-wise procedure. At each step, economy of derivation will allow only a minimum of activity. Eventually, movements will have to take place, but economy of derivation dictates that these activities take place as late in the derivation as possible. This can be formulated as a separate principle, *Procrastivate* (Chomsky 1992:43).

De formulated as a separate principle, *Frocrestrate* (Liomsky 1992;49). Second, movement is triggered by the need to license inflected elements (more scatty, by the need to check off the abstract features associated with inflected elements). Elements that are already licensed, or that do not need licensing, are neither forced nor allowed to move. It follows that such elements can never be forced to nove in order to assist in the licensing of another element. The trigger for movement alvays works directly on the element to be licensed. The principle that movement only to help out other elements is disallowed is called *Greed* (Chomsky 1992;47).

## 2.4 Parametric Variation: Strength of Features

According to the Minimalist Program, the derivation of a sentence yields interface representations which are subject to the principle of Full Interpretation: they must consist of legitimate objects only. If they do, the derivation is said to converge. If not, the derivation is said to *crash*.

The other components of the cognitive system that the grammatical component interacts with are *performance systems*, having to do with, roughly, speech and interpretation. Therefore, there are two types of performance systems: articulatory-perceptual and conceptual-intentional

(Chomsky 1992:3). In accordance with this, the grammatical system will yield *two* interface representations, each consisting of instructions for one of the two performance systems. These interface representations are called PF (for the articulatory-perceptual performance system) and LF (for the conceptual-intentional performance system).

On the assumption that the conceptual-intentional performance system is identical in all humans, the interface representation called LF must be largely identical in all languages. In contrast, the interface representation called PF varies from language to language, as can easily be observed.<sup>18</sup> It follows that the two interface levels PF and LF are not identical.

In the Minimalist Program, it is assumed that the LF interface level is the final stage of a derivation, and that the PF interface level is the reflection of an intermediate stage in the derivation. That is, at a certain point in the derivation, instructions to the articulatory-perceptual system will be issued. This point is called Spell Out. The part of the derivation before Spell Out is called *covert syntax*, the part of the derivation after Spell Out is called *covert syntax*.<sup>10</sup>

The problem of comparative linguistics is to find out how and why languages differ in their overt syntax. Recall that the principle of Procrastination dictates that movements take place as late in the derivation as possible. This principle, then, has to be violated to some extent in the grammar of certain, perhaps all, languages. The question is, Whv?

The only possible answer to this question is that Procrastination must be violated to ensure convergence at the PF interface level. In other words, certain elements that would count as illegitimate objects at PF have to be eliminated in overt syntax. Sticking to the minimalist assumptions made above, it must be the case that cortain inflectional features count as illegitimate objects at PF. These features, then, have to be checked and eliminated in overt syntax, through a process of movement of heads and phrases to positions in the functional domain. <sup>16</sup> There are two significant differences between overt syntax and covert syntax: binary transformations are only allowed in overt syntax (Chomsky 199231), and the Strict Cycle Condition does not apply in covert syntax (Chomsky 199233).

<sup>&</sup>lt;sup>18</sup> The point to be made here is actually more subtle. What differs in the PF representation in the various languages is the order or words and phonomes in a string. The way the corresponding instructions are handled by the articulatory-perceptual performance system is just a universal as the way the LF instructions are handled by the conseptual-instantion performance system. The difference between the two interface levels is that word order audor hierarchical order afference between the two interfaces levels is that word order audor hierarchical order affers interpretation in the conceptual-instantional at the LF interface, but not art the PF interface.

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not all inflectional	These points, which will also be adhered to throughout this book are:
were the case, overt J in all languages of ences in word order and French (Pollock	<ol> <li>Economy of derivations does not involve a 'shortest steps' requirement (section 3.1; cf. Zwart 1993c);</li> <li>Feature checking is matching of features between sisters</li> </ol>
uetrization between 2t be <i>visióle</i> as an legitimate objects at	(section 5.2, cf. 2Marr 1992d); 3. Directionality is not a possible linguistic parameter (section 3.3; cf. Kayne 1993).
t hat are not visible by the principle of tially harmful) at PF harmless) at PF are	3 Minimalist Extensions
mut: firsting is the only	3.1 Shortest Steps vs. Fewest Steps
'inis implues that tegories (Fukui and re no directionality ment. <sup>22</sup> The latter	In Chomsky (1992), economy of derivation (the requirement that derivations be as short as possible, see 2.3) is implemented in two, apparently contradictory ways:
13), who argues that	<ol> <li>Economy of derivation</li> <li>Use the shortest steps</li> <li>Use the smallest number of steps</li> </ol>
proach to syntax, as oach throughout this e left unresolved in	(1b) appears to be firmly rooted in the minimalist approach. Both Procrastinate (2) and Greed (3) can be reduced to (1b).
ear that certain other d with the minimalist	(2) Procrastinate Move as late as possible
t will briefly mention recent developments,	<li>Greed Move α only if moving α contributes to licensing α</li>
iniralist program as logical or genetic reasons. ce in the description of the	Both restrictions can be summarized as 'move as little as possible', which is equivalent to (1b). <sup>24</sup> (1a) is firmly rooted in the generative tradition. I will argue, however, that it is superfluous in the minimalist approach. Given that (1a) and (1b) are contradictory, we have to conclude that the shortest steps requirement does not exist.
y. ogram. For example, Case Liguration. See section 3.1 sky (1991), which includes	
antedate the emergence of	

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The surprising aspect of this mechanism is that *n* features count as illegitimate objects at PF. If that we syntax would be largely perhaps completely identical i the world. As we know, there are very distinct differer between even so closely related languages as English ar 1989).20

This, then, appears to be the locus of parame languages: an inflectional feature may or may not *illegitimate object* at PF. Those that are visible as ille PF will have to be eliminated in overt syntax. Those t at PF will not be eliminated in overt syntax, by Procrastination. Features that are visible (thus: potenti are called strong; features that are invisible (thus: he called weak.<sup>21</sup>

instance of parametric variation among languages. parametric variation is restricted to functional categ Speas 1986). It furthermore implies that there are parameters, such as directionality of governme implication is supported empirically by Kayne (1993) A minimal assumption is that the strong/weak dis movement is always leftward.

recent developments can be advantageously combined w approach (E. Hoekstra 1991, Kayne 1993). In the final section of this introductory chapter, I w a few theoretical points which result from the most rec This concludes the presentation of the minimalist app put forward in Chomsky (1992). I will adopt this appros study.<sup>29</sup> However, many parts of the approach are Chomsky (1992). At the same time, it has become clea

and which I consider as welcome additions to the min sketched above.

<sup>20</sup> English and Fyanch are called 'closely related' here not for typolo but because the sume set of functional categories appears to suffice two languages.

<sup>21</sup> See Kostar 1986, Pollock 1989 for the origin of this terminology

<sup>22</sup> In fact, government has no formal status in the Minimalist Prog assignment is reduced to feature checking in a specifier-head could for the consequences for the Empty Category Principle of Chound the action 'proper government'.

<sup>22</sup> Cortain crucial aspects of the analyses presented in this book an the minimalist program, however, as is clear from Zwart 1991a.

INTRODUCTION 19	This suggests that (1a) is superfluous as a condition on wh-movement. Interestingly, similar considerations make (1a) superfluous in the domain of head movement and raising to subject. Conditions on head movement are expressed in terms of the Head Movement Constraint (Travis 1984:131):	(6) Head Movement Constraint An X° may only move to a Y° which properly governs it It is generally assumed that the Head Movement Constraint reduces to the ECP (Travis 1984:133, Chomsky 1991:429). However, head movement constructions never show the kind of variation exemplified in (4)-(5), and nonlocal head movement, as in (7a), always appears to yield a crashing derivation, rather than a converging derivation that is hard to interpret	(7) a. Who kiss John will? b. Who will John kiss? This suggests that nonlocal head movement is ruled out by economy. However, it is not clear that (1a), rather than (1b), plays a role here. The question that must be asked first is, What is the trigger for verb movement in wh-constructions like (7)? It is generally assumed that the	verb in (7b) moves to the complementizer position, C. The principle of Greed dictates that the verb itself has something to gain by moving to C. Therefore, the verb movement in (7b) must also result in the elimination of a feature of <i>will</i> . There is ample evidence that verb movement to C in Germanic is closely linked to tense (Den Besten 1977:Appendix II). Consider the following facts from Dutch:	(8) Koopt Jan oon huis? buys John a house "Does John buy a house?"	<ul> <li>a. Jan een huis kopea?</li> <li>John a house buy.LNF</li> <li>John buy a house?"</li> <li>b. Kopen Jan een huis?</li> <li>buy.LNF John a house</li> </ul>	Assuming that the structure of yes/no questions matches that of wh-questions, (8) and (9) are comparable to (7). We may consider the counterpart of the wh-word in (7) to be empty in (8) and (9). This suggests that the verb movement in (8), as in (7b), targets C. As can be seen in (9), such verb movement only takes place when the verb is finite.
DUTCH SYNTAX	It is generally accepted that steps in a derivation may not exceed a certain length (cf. Chomsky 1973, 1981, 1986b; Koster 1978a, 1987; Rizzi 1990a). Thus, nonlocal movement yields a deviant sentence: (4) * <i>What</i> did he wonder where John put f ?	It is not a priori clear, however, whether (4) is bad because the movement of <i>uhat</i> from the position indicated by its trace <i>t</i> is nonlocal, or because <i>what</i> cannot be construed with a trace in a different local domain (in (4), a so-called wh-island). Research in the past decade has clearly gravitated towards the latter point of view. The Empty Category Principle (ECP), according to which empty elements must be properly governed (i.e., antecedent governed, following Chomsky 1986bi88) is essentially a condition on the	interpretation of traces (cf. Chomsky 1991:429). A trace can be construed with its antecedent if the two are connected by a chain consisting of local links. If not, the interpretation of the trace becomes more difficult. Crucially, as has been clear from the outset (cf. Chomsky 1973:244), wh-island constructions give trise to considerable variation in grammaticalityjudgments. Thus, (4) is relatively acceptable in comparison with (5):	(5) ** Where did he wonder what John put 17 Since any violation of economy yields a crashing derivation, the difference between (4) and (5) cannot be described in terms of economy. Moreover, the relatively mild ungrammaticality of (4) is unexpected if the derivation of (4) contains a violation of economy of derivation. Cinque (1990) and Rizzi (1990a, 1991b) have argued that wh-island	constructions involving argument traces are relatively grammatical because of the availability of an interpretation mechanism for these traces that does not rely on conditions on chain formation (cf. also Koster 1987, chapter 4). If so, it is clear that a theory of interpretation, incorporating	locality conditions on chain formation, holds more promise for an explanation of the local character of movement than economy of derivation. If this is correct, locality conditions on wh-movement reduce to a principle of interpretability. A wh-trace is most easily interpreted when	it is part of a chain which links it locally with its antecedent. If not, other options are open when the wh-trace is an argument trace, yielding a slightly degraded representation. Otherwise, the derivation will converge, but the trace will not be able to receive the required interpretation.
18	It is gene certain lengtl 1990a). Thus (4) * 7	It is not a priori clear, l of what from the posit what cannot be constru a so-called wh-island). Research in the pad point of view. The Em empty elements must following Chomsky	interpretatio with its ante links. If not, Crucially wh-island grammatical with (5):	<ul> <li>(5) ** 1</li> <li>Since any vic between (4) vic the relatively of (4) contain Oinque (7)</li> </ul>	construction because of th that does no chapter 4). I	locality con- explanation derivation. If this is principle of	it is part of , options are slightly degr but the truc

In terms of Chomsky (1992), we may suppose that C hosts a tense feature, comparable to the V-features of AgrS etc., which must be thecked by moving T(ense) to C (cf. Wilder and Cavar 1993). This triggers movement of the finite auxiliary in  $(Tb).^{26}$ 

Likewise, the movement in (7a) is never triggered, hence excluded by the fewest steps requirement (1b). At the same time, we may assume that the tense feature on the auxiliary in (7) must be checked against the tense feature in C. From this perspective, moving the infinitive to (1n (7a) robs the finite auxiliary of the possibility to check its tense feature. This again yields a violation of economy of representation, assuming the relevant peature to be strong (as the overt movement in (7b) bears out). More generally, movement of a head  $\alpha$  across a head  $\beta$  which contains a V. feature to be checked against the features of  $\alpha$  is trivially excluded by economy of representation, because it yields an interface representation with unchecked features.

Thus, economy of representation and the fewest steps requirement of economy of derivation suffice to exclude a standard nonlocal head movement construction like (7a).

In the domain of raising to subject, the shortest steps requirement excludes the superraising constructions in (10):

## (10) a. John seems is likely to win b. John seems it is likely to win

The sentences in (10) are derived from more basic representations in which *John* is the subject of *win*, generated inside the VP as previously assumed. As (11) shows, the subject position of the embedded clause is a

## (11) It seems John is likely to win

legitimate target for subject movement:

It seems, then, that the sentences in (10) are derived by moving John across a legitimate target for subject movement, in violation of the shortest steps requirement of economy of derivation (Chomsiry 1992:21). Homesons is immodived to here the for a state of the state

However, it is immediately obvious that (10a), at least, is excluded on standard minimalist assumptions regarding movement and feature checking. If John moves to the subject position of the embedded clause, as in (11), its features are thecked, and it will from then on be doomed to inertness (unless additional features like (popic) or (whl) are present). On the other hand, if John in (10a) is moved to the subject position of the » la section III.5.3.2 l will present a slightly different analyzis of verb movement to C. linking the phenomenon to agreement rather than tense.

matrix clause directly, the N-features in the AgrS of the embedded clause will remain unchecked. Hence, (10a) always yields a crashing derivation. In (10b), the N-features of the embedded AgrS can be checked against the features of it. However, in (10b) the problems lie eisewhere. Following Bennis (1986), we must assume that it is not a dummy pronout, inserted in the specifier position of AgrS, but an argument generated in the complement domain of a raising verb. If it is generated as an internal argument of serms, (11) results. In that case, *John is likely to win* must be analyzed as an adjunct clause associated with it, and *John* is the only candidate for checking the N-features of AgrS inside the adjunct clause. Hence, (10b) cannot be derived from the representation underlying (11), illustrated in (12a).<sup>28</sup>

## (12) a. seems [it,] [is likely John to win ],

Alternatively, one could assume that it is generated as the internal argument of the lower raising verb (assuming *be likely* to be a single raising verb, for ease of exposition). This yields the underlying representation in (12b):

## (12) b. seems [ is likely [ it, ] [ John to win ], ]

In (12b),  $\dot{\mu}$  could raise to the AgrSP associated with is likely, and John could raise to the AgrSP associated with seems. This would yield (10b), in violation of the shortest steps requirement. However, if (12b) were the structure underlying multiple raising verb constructions, (11) could not be derived without violating the shortest steps requirement either:  $\dot{u}$  would have to cross the AgrSP position associated with the lower raising verb have to cross the AgrSP position associated with the lower raising verb have the structure underlying multiple raising verb constructions. Therefore, no argument that assumes the structure in (12b) supports the shortest steps requirement.

I assume that the internal argument of raising verbs must be either it (in combination with a finite clause) or a nonfinite clause, but not a single finite clause (without it) or a combination of it and a nonfinite clause. This excludes (12b) as a possible structure. Consequently, there is no derivation of the sentences in (10) that violates the shortest steps requirement without also violating standard feature checking <sup>24</sup> Alternatively, John is likely to usin in (11) is not analyzed as an adjunct clause but as the subject of a Small Clause, of which it is the prediente (cf. Norv 1993), (11) would then be the result of predicate ruising, structurally similar to locative inversion in the analysis of Hoekstra and Müder 1990. This does not affect the argument, however, which is that John mut be listened inside the subortinate clause.

23 INTRODUCTION 23	The crucial point here is that if the strict cyclicity condition is obeyed, long distance wh-movement necessarily violates the shortest steps requirement of economy of derivation. Since the condition of strict cyclicity is a crucial part of the minimalist structure building process, the shortest steps requirement cannot exist. I therefore conclude that economy of derivation contains a fewest steps requirement only. The picture that emerges is that movement must take place as little as possible, and that if it takes place, it must immediately result in feature checking. No intermediate steps are allowed. This revision of economy of derivation will become especially relevant in the domain of head movement.	minimalist program g process of Gend mal theory of phra- sis that all phrases to of phrase structur $XP \rightarrow YP$	The structures described by (14) have the following tree structure representation: (15) $\sum_{YP} \sum_{X} xP$	$X^{*}$ $Z^{*}$ In (15), $XP$ is the <i>maximal projection</i> of the head $X^{*}$ , $YP$ is the specifier of XP, and $ZP$ is the complement of $X^{*}$ . If $X^{*}$ is a functional head, the N-features of $X^{*}$ can only be checked by moving an appropriate XP, say UP, into YP. Thus, the N-feature of $X^{*}$ cannot be checked when an adjunct is generated in YP, and UP is
22 DUTCE SYNTAX	requirements. Hence, superraising constructions are excluded by economy of representation, which requires features to be checked before the derivation reaches the interface state." It seems, then, that none of the standard phenomena indicating that movement must be local support the shortest steps requirement of economy of derivation. An even stronger argument against (1a) would be to show that the shortest steps requirement is incompatible with other minimalist principles. This can actually be demonstrated, as argued in Zwart (1993c). The argument can be summarized as follows. Recall that in the minimalist approach, representations are built up by joining two phrase markers (Generalized Transformations). By the condition of <i>strict cyclicity</i> , it is not allowed to insert one phrase marker inside another phrase marker. If follows from this condition that nonlocal	When more mean, as in (13), always violates the shortest steps requirement. (13) What do you think [ $e$ that he will do $t$ ]? In the traditional approach to (13), what moves from the position indicated by $t$ to the specifier position of the embedded CP, indicated by (1992-21), notifier that this derivation of the matrix CP. Chomsky (1992-21), notifier that this derivation violates the fewest steps	For the second s	process Generalized Transformation, it becomes clear that <i>e</i> cannot be introduced after the embedded CP has been joined with the matrix verb <i>think</i> . This derivation would violate the condition of strict cyclicity. <sup>23</sup> To comply with the condition of strict cyclicity, the intermediate empty wh- element <i>e</i> must be introduced before the embedded clause and <i>think</i> are joined together, hence, also before morement of <i>what</i> to the specifier position of the matrix CP takes place. We may assume that after the wh- movement has taken place, <i>e</i> functions as an intermediate trace in the

<sup>24</sup> Chomsky (1992:33) restricts the condition of strict cyclicity to overt syntux. This means that the empty element in the intermediate position could be generated in covert syntux but then Form Chain would no longer be a single operation in cases of overt wh-movement.  $^{27}$  We will return to the derivation of superraising constructions in section III.5.3.1.

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<ul> <li>INTRODUCTION 25</li> <li>INTRODUCTION 155</li> <li>Therefore, if the intermediate projection does not exist, X-bar theory reduces to a), the statement that there is a distinction between heads and maximal projections.</li> <li>Tokice that if the intermediate projections and maximal projections, the mechanism of generalized transformations can be simplified. Without the distinction between intermediate projections and maximal projections, the following two statements are required: <ul> <li>a. If a head is adjoined to a, the projection of a is a head, it is a noninead b.</li> <li>These two statements can be reduced to one:</li> <li>(20) a. If a p'is adjoined to a, the projection of a is a naninead b.</li> <li>These two statements can be reduced to one:</li> <li>(21) If a p'is adjoined to a, the projection of a is a naninead b.</li> <li>(23) a. If a projection of a is abo a head; that if a is an X; the projection of a is an X; the projection of a is an X? There projection of a is an X? The projection of a is a</li></ul></li></ul>	INTRODUCTION 25 Therefore, if the intermediate projection does not exist, X-bar theory reduces to a), the statement that there is a distinction between heads and maximal projections. Notice that if the intermediate projection does not exist, the nechanism of generalized transformations can be simplified. Without the
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(16) 179 X9 adjunet X X \* X The ungrammaticality of (17), for example, is explained by the fact that (16) is not a possible configuration for checking off the features of UP (*who* in (17)) against the N-features of X\* (*did*):<sup>20</sup>

ß

(17) \* Who suddenly did Bill discover?

Thus, YP in (15) is the *designated* checking position for the N-features of X°. The question is whether this follows from any independent aspect of the minimalist approach.<sup>30</sup>

Another question that the X-bar schema in (14) raises, is whether it is necessary to distinguish an intermediate projection X next to the maximal projection XP. It has been argued several times in the literature that the intermediate level X is redundant (Stuurman 1985, E.Hoekstra 1991). If it does not exist, (14) reduces to (18):

(18a) instantiates the possibility of adjunction of a maximal projection to another maximal projection. Since this possibility exists independently of X-bar theory, (18) can be reduced to (19):

4Z °X ← 4X (61)

(19) contains the following information: a) there is a distinction between heads and maximal projections, b) a maximal projection  $\alpha$  has a head of the same categorial status as  $\alpha$  (cf. Lyons 1968:331).

Obviously, b) is already expressed in the mechanism of generalized transformations (cf. section 2.1). As we have seen, a phrase marker  $\alpha$  is combined with a phrase marker  $\beta$  iff  $\alpha$  projects a mother node, which dominates both  $\alpha$  and an empty position, to be filled by  $\beta$ .

<sup>20</sup> Take the relevant N-features to be wh-features, af. Rizzi 1990b.

<sup>30</sup> Chomsky (1992:16f) includes UP in (16) in the checking domain of X°, in view of Kuyne's (1987) analysis of past participle agreement in wh-constructions in Romance (class lectures Pall 1991). This, however, does not detract from the observation that in general (3) is not a legitimute configuration for licensing UP, which calls for an explanation.

INTRODUCTION 27	<ol> <li>for α = X<sup>*</sup>, β = X<sup>*</sup>, and</li> <li>there is no γ γ × X<sup>*</sup>, such that γ dominates β and α dominates γ</li> </ol>	defined as follows: <sup>24</sup>	<ul> <li>(i) a and β are sisters, and</li> <li>(ii) β is a Projection</li> </ul>	(i) a and f are sisters, and (ii) f is a Sogment	We can now formulate the proposal regarding the special status of Projections as follows:	FEATURE StiARING α and β share morphological features only if α is the Projection of β	According to (25), the N-features and the V-features that are represented in a functional head $\alpha$ may also be present on the Projection of $\alpha$ . I assume that the special status of Projections results from the mechanism of generalized transformations. The only way for a head $X^*$ to be integrated in a larger structure is to project on XP Projection. Heads, without a Segment, on the assumption that not every head has a specifier associated with it (cf. Fukui and Speas 1986). The mechanism of generalized transformations therefore leads us to consider the combination of a Head and its Projection as an indivisible unit. <sup>38</sup> A Segment is added to a Projection have the same set of features. A Segment is added to a Projection need a Segment in order to be integrated in a larger structure. If follows that the Segment in order constitute an indivisible unit with either the Projection or the Head.
İNTRO	(23b) SECMENT a is a Sogmont of A iff	Specifier and $Adjunct$ can now be defined as follows: <sup>24</sup>	(24) a. Specifican ofβiff α is a Specifican ofβiff	b. ADJUNCT a is an Adjunct of β iff	We can now formulate the prop Projections as follows:	(25) FEATURE SHARING a and B share morphologica	According to (25), the N-features and the V-features that are repre in a functional head $\alpha$ may also be present on the Projection of $\alpha$ . I assume that the special status of Projections results fro mechanism of generalized transformations. The only way for a head be integrated in a larger structure is to project an XP Projection. Therefore, cannot exist without a Projection. They can, however without a Segment, on the assumption that not very head has a g associated with it (cf. Fukui and Speas 1986). The mechani generalized transformations therefore leaded us to consider the combi- of a Head and its Projection as an indivisible unit. <sup>35</sup> A Segment is added to a Projection need a Segment in the Segment is added to a Projection only in order to make roon specifier. But neither the Head nor the Projection need a Segment in to be integrated in a larger structure. It follows that the Segment in the outstrute an indivisible unit with either the Projection or the constitute an indivisible unit with either the Projection or the area and $\beta$ are and $\delta$ are not some as the dominates $\alpha$ and $\beta$ are size if there is no $\gamma$ such that $\gamma$ dominates the and the dominates $\beta$ and does not solve and does not dominated the transformation a transformation a the transformation or the constitute an indivisible unit with a the rest is projection or the weated that $\gamma$ dominates $\beta$ and does not solve and does not dominated that $\gamma$ dominates a trans.

asymmetric, irreflexive, and transitive relation between nodes in a tree structure.  $\alpha$  in the definitions in the ext that the and  $\gamma$  by generalized transformation. It is assumed in the leaftnitions in the ext that the status of  $\alpha$  as a segment or projection is irrelevant for the domination relation relation between  $\alpha$  and any  $\beta$ .

<sup>38</sup> In the definitions in the text, *domination* is understood in the classical sense, i.e. as an

only if target extension occurs.

even though complements are not generally regurded as adjuncts. <sup>24</sup> This definition of the Strict Cycle Condition differs slightly from the one assumed in Chomsky 1992:33, but the two definitions share the underlying idea that cyclicity is riolated

<sup>35</sup> Technically, the complement of a boad lpha is adjoined to lpha by generalized transformation.

α is a Projection of β iff (i) for  $\alpha = X'$ ,  $\beta = X''$ , and (ii) there is no  $\gamma, \gamma = X''$ , such that α dominates  $\gamma$  and  $\gamma$  dominates  $\beta$ 

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However, we must allow adjunction of an XP to a head  $\alpha$  when the XP is the complement of  $\alpha^{21}$  Apparently, only left-adjunction of an XP to a

head must be blocked. The ban on left adjunction of an XP to a head can

be derived from the condition of strict cyclicity.

Suppose  $\alpha$ , a head, has a complement. If so, it has projected an XP. Therefore, adjunction of YP to  $\alpha$  would involve projecting an additional XP *between*  $\alpha$  and the projection of  $\alpha$  XP (the mother node of  $\alpha$  and the complement of  $\alpha$ ). Let us take the condition of strict cyclicity to exclude precisely that. On this interpretation of the Strict Cycle Condition, leftOn this interpretation of the condition of strict cyclicity, adjunction of a maximal projection to a head can be excluded. However, the intuitive notion 'closeness' still has to be defined more exactly, to ensure that the I propose that the first XP projection of  $X^{\circ}_{\circ}$ , the sister of the specifier, has a special status. This special status is not expressed in terms of bar levels, but in terms of features. More specifically, I propose that the morphological features of a head  $\alpha$  are also present on the first XP

In order to define the special relation between a head and a specifier,

adjunct position in (22) is not close enough to X°.

Let us call the first XP projection of X° in (22) *Projection*, and the remaining XP projections *Segment*, according to the following definitions

(cf. Zwart 1992d):<sup>25</sup>

projection of a.

For  $\alpha$ ,  $\beta$  where  $\alpha$  dominates  $\beta$ , and X' = XP:

PROJECTION

(23) (23a)

adjunction of a head to  $\alpha$  is not excluded, since adjunction of a head does not involve the projection of an additional XP.<sup>22</sup>

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Hence, no complete feature sharing between a Head and a Segment is expected.<sup>36</sup>

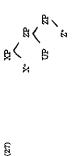
It has now become possible to define 'closeness', the proximity condition on feature checking needed to explain (17), in terms of sisterhood. The closest relation between two nodes that are not in a domination relation is the sisterhood relation. The most restrictive condition on feature checking therefore requires a sisterhood configuration. Let us propose this (following Zwart 1992d):

#### (26) FEATURE MATCHING Matching fastures of a and β takes place only if a and β are sisters

Suppose we want to check the features of an XP against the N-features of a functional head  $\alpha$ . By (25), the N-features of  $\alpha$  are also represented on the Projection of  $\alpha$ . By (26), XP must adjoin to a node carrying the relevant N-features, in order to create the sisterhood configuration required for feature matching. It follows independently that adjunction of XP to  $\alpha$  is excluded. Hence, the Projection of  $\alpha$  is the only possible target for adjunction for the purpose of N-feature checking.

In short, the specifier is the designated position for N-feature checking, because its sister is the only node the XP can adjoin to in which the relevant N-features are represented. Adjunction of XP to the functional head  $\alpha$  itself is excluded by the condition of strict cyclicity. Adjunction to a Segment of  $\alpha$  is excluded because the Segment of  $\alpha$  does not carry the N-feature of  $\alpha$ .

It also follows that the specifier position of the complement of  $\alpha$  is not a possible landing site for checking the features of an XP against the Nfeatures of  $\alpha$ . This configuration is illustrated in (27):



<sup>24</sup> This is not intended to exclude standard percelation of features from a head to its maximal projection.

 $^{T}$  I assume that the N-feature represented in the head  $\alpha$  is automatically eliminated as a result of the feature matching operation involving the specifier and the Freisettion of  $\alpha$ . Likewise for the V-feature of  $\alpha$  represented in the Freisettion II 4.4 for a refinement of the immodiately when the V-feature in  $\alpha$  is checked. See section III.4.4 for a refinement of the undyris which makes this assumption superfluous.

By (25), X° does not share its N-features with ZP. Hence, the sisterhood relation required by (26) is not established when UP is moved into the specifier position of ZP.

Procures postment of A. Notice that X" does govern UP in (27), assuming any standard definition of government (cf. Chomsky 1981, Aoun and Sportiche 1983). It therefore follows from (25) and (26) that government is not a sufficiently restrictive relation for licensing operations. If all syntactic relations involve feature checking in the functional domain, and if feature checking involves matching between sisters, it follows that government can be dispensed with as a meaningful relation in syntax (cf. Chomsky 1992:9). Chomsky (1992:85), noting that basic relations are typically local,

Chomsky (1992:8f), noting that basic relations are typically local, describes the head-complement relation as the core local relation. The head-specifier relation, in this view, falls into an 'elsewhere' category. If I am correct, there is no distinction between 'ore' local relations and 'elsewhere' local relations. All local relations require the same configuration: sisterhood. Sisterhood is relevant for 9-role assignment (by head-complement sisterhood), checking of V-features (by head-head sisterhood), and checking of N-features (by specifier-Projection sisterhood). The division of labor between the various sisterhood relations follows from the basic assumption that checking takes place in the functional domain, and from the condition of strict cyclicity.

As we will see later on in this study, adopting the restrictive matching condition (26) will have the effect that the definition of the notions checking domain and complement domain of Chomsky (1992) can be made more restrictive (see section III.4.3).

A second consequence of the assumptions made here is that an additional locus of parametric variation becomes available. At present, the only parametric variation in the system resides in the strength of the morphological features represented in the functional heads. The parameter setting forces or disallows overt movement to positions in the functional domain. The formulation of the feature sharing mechanism (25), however, allows a second parametric choice: the features of  $\alpha$  can or cannot be shared with the Projection of  $\alpha$ .

We may assume that functional heads carry a feature [±accessible], where the features of a [-accessible] head do not automatically spread to the Projection. I will propose that various operations affecting the functional head can remove the [-accessible] feature in this case. Since the N-features cannot be removed before a becomes accessible to the Projection, the operations that remove the [-accessible] feature are a precondition for N-feature checking in the relevant constructions. The [=accessible] feature, then, makes it possible to account for verb movements which appear to take place for no other reason than to make N-feature thecking possible. This will turn out to be a characteristic aspect of verb movement in Dutch.

#### 3.3 Directionality

Neither the structure building process of generalized transformations of Chomsky 1992 (section 2.1), nor the sisterhood condition on feature checking of Zwart 1992d (section 3.2) contains a specification of the linear order of head, complement, specifier, and adjunct. Superficial crosslinguistic examination suggests that languages may differ with respect to the linear order of these elements. In the tradition of generative grammar, the attested variation is described in terms of a parametric option: heads may be to the left or to the right. A head that governs to the left takes its complement to the left in the initial representation, yielding a basic OV structure.

In the minimalist approach, a directionality parameter is no longer available. First, parametric variation must be expressed in terms of the features of functional heads only. A directionality parameter would therefore not suffice to account for the ordering of elements in the lexical domain. Second, government no longer plays a role in the minimalist approach (cf section 3.2). Therefore, it is unclear whether a directionality parameter could be reduced to properties of an independently established grammeter i relation. Third, a directionality parameter would be redundant, since much of the word order variation can be accounted for by the interaction of overt and covert movement.

Kayne (1992) presented empirical evidence showing that movement into the functional domain is invariably leftward. The evidence consists in what we do *not* find, in comparing movement phenomena in the languages of the world. Thus, we can conclude from the general lack of Wh-movement to the right that the specifier position of CP is always to the left. Similarly, there are no known cases where verb movement danges a verb-complement order from VO to OV, which suggests that verb movement to the right does not exist. Hence, the functional projections hosting V-features must all be head initial. Also, the subject precedes the object in almost all languages of the world (Greenberg 1963, Universal 1). Assuming, in connection with this, that AgrSP is hierarchically higher than AgrOP, it also follows that the specifier of kgrSP is situated to the left. Likewise, if the complement of a preposition is extracted, the complement always ends up to the left of the preposition, never to the right, doin assumptions, are on the left hand side. For a fuller exposition of this line of argumentation, see Kayne (1993).

Let us therefore assume that functional projections are head initial, and that the specifier of functional projections are always to the left of the

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projection line. In other words, singulary operations invariably consist in left-adjunction to a Projection. As we will see, the assumption that the functional projections are universally head initial is problematic for the standard analysis of Dutch within the generative tradition. However, I will argue extensively in backer III that the relevant phenomena provide clear support for the head initial character of the functional projections in Dutch. That the specifiers of the functional projections in Dutch. The the repecifiers of the functional projections in butch the left I will assume without discussion.

Kayne (1993) in addition argues that the lexical projections in the world's languages are invariably head initial as well. This is an attractive hypothesis, considering the empirical evidence for the universal structure of the projections of the functional domain. However, empirical evidence in support of this hypothesis is infinitely more difficult to obtain, in view of the fact that the observable word order reflects an intermediate state in the derivation of a sentence. In other words, one never knows whether the constituents are in a basic position or not.

I will nevertheless present some arguments based on the syntax of Dutch multi-verb constructions and complex prepositional phrases in support of the hypothesis that the lexical projections in Dutch are head initial (chapter IV).<sup>28</sup>

Kayne (1993) also presents conceptual argumentation in support of the idea that all phrases are head initial. Kayne proposes that asymmetric ccommand invariably maps into linear precedence. In order for this mapping to be successful, it must be possible to express the relations between the nodes of a phrase marker that asymmetrically c-command elements for a set of ordered pairs  $< x_{ij} > 0$  the terminal elements  $x_{ij}$  thus expresses a relation between a different pairs of the proposes that the set of ordered pairs  $< x_{ij} > 0$  the proposes that the set of ordered pairs of the terminal elements  $x_{ij}$  thus expresses a relation between x and y. Kayne proposes that the set of ordered pairs of these roles i.e. a total, transitive, and antisymmetric ordering, i.e. a total, transitive, and antisymmetric ordering.

Thus, according to this proposal it must be possible to read the relation of each terminal element to all other terminal elements off of the set of ordered pairs. Crucially, these relations must be antisymmetric, i.e., it is

<sup>&</sup>lt;sup>28</sup> The position of the specifier in lexical projections is extremely unclear. Possibly, as Fukui and Speas (1986) suggest, laxical projections do not have a specifier (at late EHoekstra 1931). It am sympathetics to the idea, but will accept in the remainder of this book that at 1981). It has specifier, and that the extranal argument of the verb is generated there in the includes the set in the includes of the device in the remainder of the book that at the includes the set of the device in the includes of the device in th

excluded that two terminal elements L each other, where L stands for the relevant relation between these two elements.<sup>39</sup>

The axiom that the set of ordered pairs of terminal elements derived from the set of relations between the nodes of a phrase marker that asymmatrically c-command each other is a linear ordering of the terminal elements is called the Linear Correspondence Axiom (LCA).

In addition to the LCA, Kayne proposes that the relation expressed by the pairing of terminal elements is a *precedence* relation. I will refer to this hypothesis as the Extended Linear Correspondence Axiom (ELCA).40 Kayne shows that the adoption of the LCA explains many basic facts of phrase structure, such as binary branching and endocentricity. In this respect, the LCA is compatible with the mechanism of generalized transformations as presented in section 2.1. It follows from the ELCA that

In some respects, however, the LCA appears to be too restrictive, as Kayne notes. In fact, the LCA excludes adjunction of specifiers and that adjunction of adjuncts (i.e. in addition to adjunction of a specifier) is adjuncts. Kayne therefore modifies the definitions entering into the notion c-command in order to allow adjunction of specifiers. He argues, however, adjunction always takes place on the left hand side. excluded.

To see why adjunction of specifiers is difficult, consider the tree structure in (28), where y and x represent terminal elements:



Assume the following definition of c-command:

<sup>20</sup> 'Antiiyrmmetry' and 'totality' are two of the three defining properties of linear relations. Kayne assumes that the third definiung property, transitivity, also applies to the relations between the tarminal elements expressing the relations between the nodes that asymmetrically c-command each other.

this root node also dominates an abstract forminal element a, which, as Kayne argues, has to proceede all other terminal elements of the phrase markers, it follows that the linear traition between a nat the other terminal elements is also a precedence relation. Hence, the linear relation between terminal elements must always be a precedence relation. For linear relation elements in a phrase marker as a presedence relation from the hypothesis that every phrase marker contains a root node dominating all other nodes except itself. On the assumption that " Kayne (1993:section 5.3) derives the definition of the relation between the terminal smpirical justification of the Extended LCA, see above.

## $\alpha$ c-commands $\beta$ iff every $\gamma$ that dominates $\alpha$ dominates $\beta$

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C-command is asymmetric where, for  $\alpha$  c-commanding  $\beta$ ,  $\beta$  does not ccommand or

dominates x and Y dominates y, the ordered pair of these terminal elements  $< x_y >$  is also part of the set of ordered pairs expressing the relations between YP, XP, Y, and X. So now this set contains  $< y_y >$  and In (28), YP asymmetrically c-commands X and XP asymmetrically c-commands Y. YP dominates the terminal element y, and X dominates expressed in the ordered pair of terminal elements <y,x>. But since XP  $\propto$ ,y>. Hence, the relation between x and y (i.e., between a head and its the terminal element x. The relation between YP and X therefore can be specifier) is not linear, because it is not antisymmetric.

XP no longer c-commands Y. This can be done by excluding segments from To solve this problem, the pair <x,y> or the pair <y,x> must be Kayne proposes to modify the definition of c-command in such a way that the definition of c-command, assuming XP and XP in (28) to be two excluded. This can be achieved if either YP does not c-command X (kicking out the pair  $\langle y, x \rangle$  or XP does not c-command Y (kicking out  $\langle x, y \rangle$ ). segments of the same category.<sup>41</sup>

- a and 3 are not segments, and a excludes β, and α e-commands β iff (j) (ii) (iii) ê
- overy 7 dominating a dominates  $\beta$
- a excludes **h** if no segment of a dominates **h** (31)

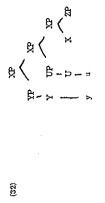
definition of c-command in (30). This gives the desired result that the relation between x and y in (28) is described by < y, >, hence is a linear In (28), XP is a segment, hence does not c-command Y by clause (i) of the relation (hence, following Kayne, a precedence relation).

Notice that the fact that the higher XP is a segment of the lower XP suffices to exclude that the lower XP c-commands Y. Since the higher XP is a segment, the lower XP does not exclude Y, and the c-command relation is barred by clause (ii) of the definition of c-command in (30) (cf. Kayne 1993, note 9).

XP is not a segment. According to the definitions of Segment and Projection proposed in section 3.2, the higher XP in (28) is a Segment, and It follows that the lower XP does not c-command Y, even if the lower the lower XP is a Projection. The Projection XP does not exclude Y in (28) <sup>44</sup> Following Chomsky 1986b:7. I will turn to the consequences of the definitions of Segment and Projection of section 3.2 below.

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because the Segment XP includes Y. Hence, the Projection XP does not ccommand Y, because of (30)(ii).<sup>42</sup> To see why adjunction is difficult, consider (32):



In (32), not only the specifier UP, but also the adjunct YP is adjoined to XP. YP asymmetrically c-commands U, yielding  $<y_1u_2$ , and UP asymmetrically c-commands Y, yielding  $<u,y_2$ . Hence the relation between the terminal elements y and u is not antisymmetric and therefore (32) is not allowed by the LCA.

Kayne concludes that multiple adjunction (i.e., adjunction of an element in addition to adjunction of a specifier, as in (32)) is universally impossible. It follows that adjunct elements, such as adverbs, can only be present in a structure as specifiers. Thus, for every adjunct there must be a head in the structure creating the required specifier position.

This seems overly restrictive, in the sense that numerous 'adjunct phrases' in various positions must be assumed. Kayne acknowledges this, but doubts "that other theories can do without such entities" (p.45). Be that as it may, it remains the case that the adjunct phrases are unacceptable from a minimalist point of view, if no demonstrable morphological features are associated with them.

Let us therefore try to make (32) acceptable for the LCA, by eliminating the asymmetric c-command relation between UP and Y.

The problem in (32) is that the middle XP does not dominate UP, because it is a segment. Kayne adopts the standard definition of domination in relation to segments of Chomsky (1986b:7):

(33)  $\alpha$  is dominated by  $\beta$  only if it is dominated by every segment of  $\beta$ 

Assuming all XPs in (32) to be segments, UP is not dominated by all segments of XP. Hence, there is no  $\gamma$  that dominates UP but not Y, and UP c-commands Y by (30)(iii).

4ª This requires that (31) be modified as: a cacleder 8 if no Segment of a dominates 8, whore an XP Segment is a Segment of the XP Projection, but an XP Projection is not a Segment of an XP Segment.

\_.. . . .\_

This problem disappears, however, if the distinction between Segments and Projections as defined in section 3.2 is accepted. According to the relevant definitions, only the top two XPs in (32) are Segments, and the lowest XP is a Projection. Applying the definition of domination in (33) now gives the result that UP is dominated by all Segments of XP. Y, on the other hand, is *not* dominated by all Segments of XP, Y, on the other hand, is *not* dominated by all Segments of XP, Y, and hence UP does not c-command  $Y^{46}$ 

This is the desired result. The pair <u, y> that is the image of the c-command relation between UP and Y disappears, and the relation between the terminal elements y and u is characterized by the pair <y, u> only. Therefore, (32), like (29), is allowed by the LCA.

It follows, however, that a third adjunction operation is excluded. In that case, the problems described above for (32) surface again, because the top three XPs would have to be regarded as Segments.

I will therefore assume throughout that adjunction of a single element in addition to adjunction of a specifier is possible. This will become relevant in the discussion of scrambling phenomena, in which I assume that adjunction of adverbs to various maximal projections is possible.

The upshot of this minimalist extension, however, remains that directionality specifications are redundant. Since directionality was considered to be a property of government, this result again undermines the conceptual and empirical basis for the relevance of the government relation in syntax. <sup>4</sup> This requires that (33) be redefined as: α is dominated by β, β α Segment, only if α is dominated by every Segment of β. This modification of dominate applies only whan β is a Segment, not when β is a Projection. Thus, X in (23) is dominated by the XP Projection. This is needed to ensure that X does not c-command XP in (23) (thanks to Marcel don Dikken for discussing the point with me).

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2

I	A MINIMALIST APPROACH TO THE SYNTAX OF DUTCH	This chapter contains four sections. Section 1 is intended as a reference section. It contains the basic facts of Dutch inflectional morphology and syntax that are discussed in this book. Section 2 reviews the standard analysis of these facts within the generative framework. Section 3 discusses the problematic aspects of the standard analysis on its own terms, i.e. as an implementation of the so-called <i>Government and Binding</i> approach. <sup>1</sup> In section 4, the consequences of the Minimalist Program for	the analysis of Dutch syntax are briefly sketched; it contains a review of the traditional analysis, this time on minimalist terms, and the first outline of a minimalist approach to the syntax of Dutch.	1. Phenomena of Dutch Syntax	1.1 Inflectional Morphology	1.1.1 Verbs	Dutch has an inflectional paradigm for the formation of the present and past tense verb forms. All other tenses are formed periphrastically. The present tense is formed as in (1), the past tense as in (2):	<sup>1</sup> See chapter I. note 3.	37

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	<ul> <li>1.1.2 Nominal projections</li> <li>Nouns in Dutch are inflected for number (singular and plural). The plural is formed by adding -en, pronounced -e in the South and West of the country (-e. a schwal), or -s to the stem.<sup>6</sup></li> <li>Nouns in Dutch have no Case inflection, with the exception of pronouns (see section 1.1.5).</li> <li>Gender agreement is marked on the adjective, only when used attributively in singular indefinite noun phrases. The masculine/feminine agreement suffix is zero.<sup>7</sup> In the plural, and in define noun phrases, the neuter suffix is zero.<sup>7</sup> In the plural, and in define noun phrases, the adjective invariably has a -e suffix. Fredicative adjectives show no agreement with the noun.</li> <li>Definite determiners are de (plural, and masculine/feminine singular) and het (neuter singular). The plural indefinite determiner is zero, the difference determiner accultion definite determiner is polos in the North and East of the second the plural suffix is provound are on. In the variety of standard Durch that is spoken in the North and East of the second the plural suffix is plural agreement in Duch.</li> <li>* In the variety of Standard Durch that is spoken in the North and East of the splural suffix the plural agreement in Duch.</li> <li>* See Kaster (1993) on other forms of adjectival agreement in Duch.</li> </ul>	<ul> <li>1.1.2 Nominal projections</li> <li>1.1.2 Nominal projections</li> <li>Nouns in Dutch are inflected for number (singular and plural). The plural is formed by adding -en, pronounced -e in the South and West of the country (-e- a schwal, or -s to the stem.<sup>6</sup></li> <li>Nouns in Dutch have no Case inflection, with the exception of pronouns (see section 1.1.5).</li> <li>Gender agreement is marked on the adjective, only when used attributively in singular indefinite noun phrases. The masculine/feminine</li> </ul>	The bare infinitive and the infinitive with <i>te</i> are used in infinitival complement clauses. In adjunct clauses only the infinitive with <i>te</i> is used. The present participle is used only as a secundary predicate or as an adjective.	that all the time Mary Lius is fun "This kussing Mary all the time is fun." (7) Jan Marrie kussen? Dat nooit! John Mary? Never!" "John kiss Mary? Never!"	mitive can be nominalized, a lauses (7) (cf. Koster 1984): alsmant Marie kussen althatima Marie	<ul> <li>(5) a. Jan heeft Marie gekust</li> <li>John has Mary kissed</li> <li>"John kissed Mary."</li> <li>b. Marie is door Jan gekust</li> <li>Mary is by John kissed</li> <li>"Mary has boon kissed by John."</li> </ul>	A MINIMALIST APPROACE 39
32     DUTGE SYMMAX       (1)     Present area       (2)     Pass Zer, Russen       (3)     Pass Zer, Russen       (4)     Pass Zer, Russen       (5)     Pass Zer, Russen       (6)     Pass Zer, Russen       (7)     Pass Zer, Russen       (7)     Pass Zer, Russen       (8)     Pass Zer, Russen       (9)     Pass Zer, Russen       (1)     Pass Zer, Russen       (2)     Pass Verh (mrn is kust when the stubjet procodes the studyet the studyet procodes the studyet the studyet procodes the studyet procodes the studyet the stu	East participle: Aussen East Participle: Aussend Pasent Participle: Aussend Pasent Participle: Aussend Pare Participle: Aussend Pare Participle: Aussend Pare Participle: Aussen Combination with a bare infinitive: a) Jan zal Mare kassen John will Mary Xias John will Any Kase The perfect tense is formed by a combination of one of the auxiliaries tebber 'have' and zijn' 'be' and a past participle: <sup>3</sup> "The -t in the past tense infloction is a d- if the verbal stem ends in a vowel or a voiced resonant." 'On the status of c, see III.1 Thes are hardiy ever used. 'In addition, there are subjunctive verb forms, <i>kusse</i> for the SC and <i>kussen</i> for the PL. These are hardiy ever used. 'On the status of c, see III.1 These are hardiy ever used. 'On the status of c, see III.1 The area of the auxiliaries, oither inflactionally in the case of the dusticiple: <sup>3</sup> 'A fore complexed by changing the tense of the auxiliaries, oither inflactionally in the case of the auxiliaries, oither full have biased.) or by a combination of have kined. Will have biased.) or by a combination of have kined. Will have biased.) or by a combination of have kined.)	Sare intructive: Kussen Infinitive with k: to kussen Present Participle: kussen Past Participle: gokust Past Participle: gokust Past Participle: gokust Jan Parte infinitive: Jan zal Marie kussen John will Mary kiss 'John will Mary kiss	non-tensed verb forms of Dutch are the bare infinitive with te, the present participie, and the past participle. <sup>4</sup> Non-tensed verb forms	e present tense 2SG verb form is <i>kust</i> when the subject precedes the and <i>kus</i> when the verb precedes the subject. This is the case in lizations and wh-constructions, for which see section 1.3. e imperative verb forms are <i>kus</i> for the singular and <i>kust</i> for the	Pass tenser 1SG kusten 1PL kusten Acias 2SG kuste 3PL kusten 3SG kuste 3PL kusten	rat terrse kus 1PL kuusen kuus 2PL kuusen kuust ser	DUTCH SYNTAX

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DUTCE SYNTAX

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singular indefinite determiner is een, apparently a weak form of the numeral 'one'."

1.2 Main Clauses and Embedded Clauses

1.2.1 The Position of the Verb

The neutral order of main clauses in Dutch containing a finite verb is Subject-Verb-Object (SVO):

- krust Marie kiases Mary Jam kust Man John kisses Mar "John kisses Mury" સં 3
- Marie kust Mary kisses ġ.
  - nal. \* John

For non-neutral word orders, see section 1.3.

The word order of main clauses containing no finite verb is SOV.<sup>3</sup>

- đ ම
- kussen Marie kiss Mary Marie kussen Mary kiss Jan kusson Mr. John kiss Ma Jan Maryie ku John Mary kis
   John Kasy Kis .

and a non-finite verb is SVOV, with the non-finite verb following the object. In (10), the finite verb is an auxiliary and the non-finite verb is a past participle. In (11)-(12), the finite verb takes an infinitival complement The neutral word order of main clauses containing both a finite verb clause, and the non-finite verb is an infinitive: <sup>3</sup> Zwarts (1992:176) argues that the indefinite determiner is an adjective, like the numeral provide 'n that case, the indefinite determiner would be zeron in both the singular and the plural. In connection with this, you that tern is inflocted as an adjective in certain dialects, e.g. Brahantish ('ne goeie mens 'a good man' vs. 'n goei phrt 'a good horse').

second cuss, a certain intonation expressing denial or disapproval is required, as in English "What? Me worry?" or "John kiss Mary? Over my dead body!". The sentences in the text express the correct word order generalizations, if not correct usage. <sup>6</sup> Nonfinite main clauses are used in narration and in certain questions. In the first case, modal particles like maar, expressing habituality or iteration, are often required. Acceptability also increases when the object is indefinite. A perfect example is: En kij maar *huizen kopen* (and he just houses buy). "And he just goes/went on buying houses". In the

A MINIMALIST APPROACH

Jam heeft Marrie gekust John has Marry kissod John has Kary kissod John has gekust Marrie John has kissod Mary Jam Marrie heeft gekust John Mary kissod has John Mary kissod has <u>م</u> J å ન đ 3 **6** 

- Jan wil Marie kussen John wants Mary kiss John wil Kussen Marie John wats kiss Mary Jan Marie wil kussen Jan Marie wil kussen Jan Marie kussen wil John Mary kiss wats م
  - J
    - ન
- તં 3
- Jan proboert Mario to kussen John tries Mary to Kuss
   John tries to kuss Mary
   Jan probeert to kussen Mario John tries to kuss Mary
   Jan Mario probeert to kussen å
  - d
- to kiss Mary Mary probeert te kusen Mary tries to kiss Mary to kussen probeert Mary to kiss tries Lol. Lol. ન્ન

position as the non-finite verb in (10)-(12), to the extent that the object of the most deeply embedded verb appears to the left of the cluster as a When a main clause contains one finite verb and more than one non-finite verb, the non-finite verbs form a cluster. This cluster occupies the same whole.<sup>10</sup> The finite verb again precedes the object:

- (13) a.
- Jan heeft Marie willen kussen John has Mary want kiss "John has wanted b kis Mary." Jan heeft willen Mary kussen John has wanted Mary kiss b. - Jan 1 John

In each of the grammatical sentences in (8)-(13), the finite verb is strictly adjacent to the subject, as is illustrated for (8a) in (14):

<sup>10</sup> The syntax of the verb clusters in Dutch is infinitely more complicated. A more detailed exposition will be given in chapter IV. See Even (1975) for seminal work. For recent studies, see Rutten (1991) and Eroekhuis (1992), and references cited there.

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kust Marie kisses Mary the adverb, see section 1.4. , the neutral word order is SOV. This is ess of the verb. <sup>11</sup> sees Mary the kust ary kisses a Mary <sup>2</sup> is Mary <sup>2</sup>	misleading, since the verb may be followed by complement clauses and adjuncts. See section 1.6. 1.2.2 Complementizers and Complementizer Agreement
see section 1.4. al word order is SOV. This rb: <sup>11</sup> darie darie dary tussen tis	1.2.2 Complementizers and Complementizer Agreement
st Marrie ses Marrie trie kunst try kases Mary: a Mary n Marie kussen n Mary iss Mary iss Mary iss Mary iss Mary	
uy kiases s Mary." h kussen Marie h kuse Mary h Mary Kas is Mary."	complement clauses concaring a mine vero must be introduced by one of the two complementizers of and dat, or by the combination ofdat (cf. De Rooij 1965a, Hoekstra and Zwart 1993a): <sup>13</sup>
g .	(19) a. Piet zei dat <sup>r</sup> ol <sup>r</sup> ofdat Jan Mario kuste Pers snid thatlifthat John Marv bisseed
Mary."	said that John Kased Mary. vroeg offoldat"dat Jan Marie seed ittehtethtor John Marie
	usked whether John kissed Mary."
	The choice between of dat, and ofdat is determined by properties of the
orders, see 1.3 and 1.4. rs are not employed in Standard Dutch. In , two types of embedded SVO constructions are 1965b). First, the <i>eriebte Rede</i> type discussed in rs(1900).	vero selecting the complement clause, but also by properties of the construction as a whole. For example, the complement clause selected by $zeggen$ 'say' must be introduced by $dat$ (see (19a)). But the complement clause selected by $zeggen$ can be introduced by both $dat$ and $ofdat$ when a wheelement has been extracted out of it (Hoekstra and Zwart 1993a):
ji kon niet komen Spoken Dutch s cuid not come	(20) Wie zei Piot dav7.06'0fåst Jan kusto? who suid Pete thav1619that John kissod "Who did Pete say John kissod?"
as outant come. ith an embedded SVO order in the complement	In many dialects of Dutch, the complementizers introducing a tensed complement clause can be inflected. The inflection expresses person and/or
te hii kon niet komen SpokenDutch	numoer agreement with the subject. A typical example is given in (z.1): (21) a. Piet zei dat <sup>w</sup> datta Jan Maria hutta
not come	Pets suid that/fhat-PL John Mary "Pats mid that Ithn bread Mary"
constructions will be discussed in section	b. Fiel and dather do fonges Marie kuste Pete suid that that I, the boys Mury kissed
il position in embedded clauses need not be e section 1.4. The term 'final position' is slightly	ree sua tan tao tao assea mary. This rhentmenen will be discussed extensively in section 111 3
	and procedure that by another a process of the procedure takes
ied clauses will be introduced by two dots () when presented . less clear about these phenomena (cf. Zwart 1990а.b, 1991а	<sup>14</sup> In addition to of, dat, and ofdat the combination also also possible, but restricted to substandard Dutch. <sup>16</sup> The morphology of the plural verb forms and noun forms in the example is adapted to colloquial speech. Complementizer agreement is absent in written Dutch.

\* Jan altijd kust John always kisses (14)

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On the correct position of the a In embedded clauses, the independent of the finiteness of

(15) a. "...dat Jan krest that John Krisses
 b. ...dat Jan Marrie that John Mary
 "..that John Karyes Mary

(16) a. Piet ziet Jan kuss
 Pete zees John Mar
 Piet ziet Jan Mar
 Pete zees John Mar

See also (11b) and (12b). For non-neutral word orders, Embedded SVO orders are colloquial Dutch, however, two ty used (cf. De Rooij 1965a, 1965b). 1 Weerman (1989) and De Haan (1)

Jan zei, bij kor John said be coul "Johnsaid that he couldn Ë

Second, a construction with an of a complementizer:

Jam zei dat h: John said that h: (IS)

The properties of these constr III.5.3.3.<sup>12</sup> The verb in the final posit adjacent to the object. See sectior

<sup>11</sup> Throughout this book, embedded clarin isolation.
<sup>21</sup> In previous work, I have been less clarete 23).

A MINIMALIST APPROACH 45	(25) Dk weet niet wat (°οΩ te doen I know not what if to do T don't know what to do."	The wh-word in this case never shows any inflection.	1.3 Topicalization and Wh-Movement	Dutch main clauses may be introduced by elements other than the subject. In that case, the finite verb immediately follows the first constituent. <sup>14</sup>	<ul> <li>(26) a. Weer Jan kust Marie</li> <li>again John Kusses Mary</li> <li>b. Weer kust Jan Maryie</li> <li>again Kisses John Mary</li> <li>"A conin Khary</li> </ul>	de jongens kussen	Mary the boys kass often b. Marye kassen de jongens vaak Mary kas the boys often "Mary the boys kass a lot."	<ul> <li>(23) a. "Waarom Jan kust Marie?</li> <li>(24) why John kisses Marie</li> <li>Waarom kust Jan Marie?</li> <li>Why does John Mary"</li> <li>"Why does John Mary"</li> </ul>	<sup>16</sup> Excopt when the verb itself is the first element, as in imperatives, counterfactuals, and yes'me-questions. Orders with the verb in third position are possible when the first	constructs and the vero are separated by an unservesse sentence on monocing proven law innove "emportal" now, dar (non temporal) then, exists "however, daarengen in contrast, innover "as knowns." It is not clear that these advehs are not part of the first constituent, even though their syntactic function clearly lies on the santance level. They are comparable to the Ancient Greek connective particles de but', gar 'as we know', and may also appear	inside the first construction (flowigh not preceding the learned, head of the first construction contrast with Ancient Greek). Gf. Zwicky 1986, Zwart 1991b.298. Other verb kirst orders involve topicalization in combination with a resumptive demonstrative pronoun ( <i>lan dia ken</i> ik (john that-one know I), cf. Koster 1978b and section 2.3) and stacking of adjuncts ( <i>Gueteren</i> , tijdens de paaze, zag ik Piet [yesterday during the break saw I Petel).
 				_							
DUTCE SINTAX	Complement clauses containing an infinitive with te, except those in the complement of raising verbs (like schijnen 'seem') and certain control verbs (like menen 'think'), may be introduced by the complementizer om,	ptional." If te is absent, so is om:"	Jan probeert (om) Marie te kussen/kussen John tries Mary to käs/tas John tries to kiss Mary" Jan schijnt ("om) Marie te kussen/kussen		vou vui vui v van vou van		Ik weet niet wie offedth?dat Marie gekust heeft I kanw not who iffthat/that Mary kissed has Tdon't know who Mary kissed." Tdon't know who kissed Mary."	The complementizer, if present, can be inflected in those dialects that have complementizer agreement. If the complementizer is absent, the inflection shows up on the wh-element:	Ik weet niet wat ofdatte de jonges gedaan hebbe I know not what ifhat-FL the boys done have T don't fnow what the boys have done." Ik weet niet watte de jonges gedaan hebbe I know not what-R the boys done have T don't know with the boys have done."	Embedded questions containing infinitival verb forms only are introduced by a wh-word, but not by a complementizer:	<sup>18</sup> In cortain infinitival adjunct clauses, such as purpose clauses, <i>on</i> is obligatory. <sup>18</sup> The cornebination of <i>on</i> and <i>x</i> appears to have been pleomatic at first. In Middle Dutch (±1200-1500), <i>its</i> was optional after prepositions like <i>om</i> . This is still the case in cortain (±1201-1500), <i>its</i> was optional after prepositions like <i>om</i> . This is still the case in cortain (±1201-1500), <i>its</i> was optional after prepositions like <i>om</i> . This is still the case in <i>cortain</i> (±1200-1500), <i>its</i> was optional after prepositions like <i>om</i> . (±1200-1500), <i>its</i> was optional after prepositions like <i>mosi</i> <i>cont</i> zien (partifiel for zee), 'good looking'. Alternatively, <i>om</i> could be left out in adjunct clauses with <i>ts</i> , like <i>vostn</i> die <i>aselee in fontfare</i> [urns the ashes in to receive] urns to receive the abbes in (Stoet 1977:202f). <sup>17</sup> Dat alone is strange, unless the matrix verb selects a noninterrogative complement clause.
44	Com the com verbs (b)	which is	ы ы (333) (333)	ű	The corr Emb	ofdat, or	(23)	The have co inflectio	(324) a. b.	Eml introdu	<sup>16</sup> In cert <sup>18</sup> The co: (±1200-11 dialects o dialects o on zien clauses w the ushes the ushes

A MINIMALIST APPROACH 47	<ul> <li>(32) a. ?? Marrie de jongens krassen? Dat nooit?</li> <li>Mary the boys Aiss Mary? Never: "Tab boys kas Mary? Never!"</li> <li>b. * Marrie kussen de jongens? Dat nooit! Mary hass the boys that never</li> <li>"Mary, the boys kiss? Never!"</li> </ul>	Wh-movement in embedded clauses does not cause a change of position for the verb: (33) awie (offotat) Jan geknet heeft who John (has) kissed has "warrom (offotat) Jan Marrie geknet heeft why "in (has) kissed Mary" "wry Join (fas) kissed Mary"	Nonwh-elements can also be fronted inside embedded clauses. For objects the fronting is only possible under certain conditions of intonation (see section 1.4). These frontings likewise never cause a change of position for the finite verthor.	<ul> <li>(34) adat MaRIE de jongens vaak KUSsen that Mary the boys action kies</li> <li>"that the boys kies Mary a lot."</li> <li>bdat daarvom de jongens Mary vaak kussen that therefore the boys Mary often kies</li> <li>"thut bocuuse of that the boys kies Mary a lot."</li> </ul>	Notice that the fronted elements in (34), unlike in (33), appear to the right of the complementizer <i>dat.</i> This suggests that these constructions do not involve topicalization (see section III.5.3). In infinitival complement clauses, topicalization is hard to identify. Wh-constructions do exist, but no effect on the position of the verb is visible:	<ul> <li>(35) a. Jan weet nict waar Marie te kussen John knows not where Mary to Kiss</li> <li>"John does not know whare to kiss Mary."</li> <li>John weet nict waar te kussen Marie</li> <li>John knows not where to kiss Mary</li> </ul>	<sup>28</sup> In embedded passive double object constructions, the indirect object prefermbly precedes the derived subject ( <i>dat de jorgers het boek grgeven werd</i> (that the boys the book grow was- SGI). Broekhuis (1992) argoes that in these constructions the subject is not in the subject position, so that it is unclear whether the indirect object is topicalized.
46 DUTCE SYNTAX	<ul> <li>(22) a. Wie Jan kust?</li> <li>Who John Kasses</li> <li>Who Aust Jan?</li> <li>Who kases John</li> <li>"Who kisses John?"</li> </ul>	In (26), the first element is an adverb, in (27), it is a fronted argument. These two constructions are grouped together as <i>topicalizations</i> . <sup>19</sup> In the <i>uni-constructions</i> (28)-(29), the first element is a fronted wh-phrase. Topicalizations and wh-constructions invariably trigger inversion of the subject and the verb in tensed main clauses. The topic/wh-element and the finite verb are strictly adjacent. The finite verb and the subject no longer have to be adjacent:	<ul> <li>(30) a. Marie ("vandaag) kuesen de jongens vaak Mary roday kass tie boys often b. Marie kuesen (vandaag) de jongens vaak Mary kies today the boys often "Mary the boys kies a lot (roday)."</li> </ul>	ទ	very marginal at best. However, it is clear that the verb must stay in the final position typical for non-finite verb forms: In al position typical for non-finite verb forms: <sup>18</sup> The term <i>topicalization</i> suggests that the first constituent is a <i>topic</i> . But the first constituent and also be a postopic a saming to be what the sentence is about constituent of contains and its the first constituent is a <i>topic</i> . But the first	constituent Mark is a focused part of the comment rather your asses, where we propose constituent Mark is a focused part of the comment rather hour a top of the other hand, subjects (even weak pronouns) can be topics in the 'aboutness' sense. It is not clear, however, whether prepead constituents in Dutch should about about the focus elements. As noted by Jansen (1378:107, 139:132) and Kooij (1978:34), franted constituents in Dutch do not generally receive a marked intonniton (ta Mark de an MALT kust den YARY, John Kissee), and appear to be part of the ground ruther than the focus in most cases. It inclumental in churterberine to of the ground ruther than the focus on a case. It intermental in churterberine formation are the focus ground distinction is intermental in churterberine formation between an UK. The focus comment distinction is	appears to be a function of linear ordering, but intenation may have an overruling effect. The focus-ground distinction appears to be more closely tinked to intenation. I will contains to use the serm topicalization for the fronting of XPs in Dutch, while keeping the terminological difficulties in mixed. (A positing Pi Entric Valletions, April 13, 1993, was very helpful to me in sorting out the terminological distinctions.)

DUTCH SYNTAX

1.4 Scrambling

The direct object in Dutch does not have to be adjacent to the verb. $^{21}$ Irrespective of the position of the verb, the direct object can always be separated from it by adverbs.<sup>22</sup>

- Jan hoeft (gistoren) Mario gekust John has yesterday Mary Kissed "John kissed Mary yesterday." તં (36)
- gokust heeft Marie (gisteren) Jan à
  - laissed yesterday
- (gisteron) Marie gokust heeft yesterday Mary kissed has John ц, ...dat that હુ (<u>3</u>
- gekust heeft ".that John kissed Mary yesterday." Jan Marie (gistervn) ..dat à
  - kased has that John Mary yesterday "..that John kissed Mary yesterday.

the word orders in the a- and b-sentences, respectively.<sup>23</sup> In the a-In the b-sentences, Marie has neutral pitch; the adverb gisteren receives an even, high intonation, which is continued up to the stressed syllable of the past participle, -kust, which is pronounced at an even higher pitch. In sentences, the stressed syllable of Marie, .rie, is pronounced in a higher pitch than the preceding elements of the sentence, which are neutrally In neutral speech, distinct intonational patterns are associated with pitched, and the past participle gekust receives an even, low intonation. (37b), the auxiliary heeft gets a neutral, hence lower, intonation.

have the low-high intonation described above for the a-sentences. In that case, everything following Marie will have an even, low intonation. More participle in the a-sentences above will have the rising pitch described above for the b-sentences. When Marie presents new information it will generally, any stressed element in the sentence may have a high intonation of its stress bearing syllable, and in that case everything when Marie presents old information, it will be evenly pitched, at the same level of intonation as the preceding elements. In that case, the past Many other intonational patterns are possible, however. In general following it will receive a flat, low intonation.

<sup>21</sup> Except when the direct object is topicalized and the finite verb is in second position. <sup>22</sup> For indefinite objects, see section IV.2.2.3.

<sup>23</sup> See Van Buuron (1980) for discussion of the general features of intenation in Dutch.

information (see section IV.2.2.4). Assuming that intonation is related to focus, the neutral intonation pattern in Dutch suggests that the position the adverb, as in the b-sentences above. As a result, indefinite noun phrases appearing to the left of an adverb receive a special interpretation, to the immediate left of the verb in embedded clauses is a default focus the a-sentences above, and new information when it occurs to the right of as is generally the case when an indefinite element presents old When a sentence has a neutral intonational pattern, the direct object will present old information when it occurs to the left of the adverb, as in position.

(1990), two types of scrambling exist. The first type is described above. Its type of scrambling, called focus scrambling by Neeleman, has entirely left of a subject, which is not possible through ordinary scrambling. The pattern indicated there is characteristic of focus scrambling. Other distinguishing features are its unbounded character, and the fact that The phenomenon that direct objects do not have to be adjacent to the verb will be referred to as scrambling.24 As demonstrated by Neeleman different properties. Through focus scrambling, objects may appear to the phenomenon is illustrated in (34a). The marked, balanced intonational nonscrambling elements, like resultative predicates, may display it as properties will be examined in more detail in section IV.2.2. The second well. Focus scrambling will be ignored in this study.

Indirect objects appear to the left of direct objects, and may be separated from them by adverbial material:

- Jan Marie (gisteren) het boek gegeven heeft John Mary yesterday the book given has "..that John gave Mary the book yesterday." ...dat that d (88) (88)
  - ?? ...dat م.
  - ..dat Jan het book Marie gegeven heeft that John the book Mary given has "..that John guve Mary the book."
- ..dat Jan het boek Marie terug gegeven heeft that John the book Mary back given has "..that John gave the book back to Mary." ΰ

(38b) is unacceptable in a neutral stress pattern, i.e. with Marie slightly focused. Almost any marked stress pattern makes (38b) acceptable, though. Thus, in (38c) the particle terug is in the default focus position, and the order of the cojects appears to be free. <sup>44</sup> This should not be confused with the use of the term scrambling for free order of meaningful elements. The term object shift would also be appropriate, but is also used for pronoun movement in the Scandinavian languages, where clifte placement would be a better de

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50	DUTCE	DUTCE SYNTAX	A MINIMALIST APPROACH 51
Indir right of t	Indirect objects expressed in a right of the direct object:	4	For reasons that will become clear in section III.2, I will refer to the weak pronouns as <i>clitics</i> (cf. Zwart 1992b). When a subject clitic is the first element in a main clause, it is
(39) a.	dat Jam not book aan Mar that John the book to Mary	aan Marye gegeven heedt to Mary given has	proclitic to the finite verb in second position. $\overline{x}$
ف	"that John gave the book to Mary." dat John aan Marie het boek that John to Mary the book "that John gave the book to Mary."	re the book to Mary." ann Marie het boek gogeven heeft to Mary the book given has ave the book to Mary."	(44) Tr Hach Marie gekust I have Mary hasod "I käsed Mary"
When th phenome	t direct object and the ind 1a are different, as will be	When the direct object and the indirect object are clitics, the word order phenomena are different, as will be discussed in section III.2.1.5.b.	In constructions involving subject-verb inversion, the subject pronoun is enclide to the verb. $^{28}$
1.5 Olitics	cs	_	(45) Marie bob'k gokust Mary have I kissod "Mary I kissod."
Dutch h: 1978a. B	Dutch has sets of strong and weak subject and object $1975a.$ Berendsen 1986. Everaert 1986. Zwart 1991a $^{26}$	Dutch has sets of strong and weak subject and object pronouns (Koster 1973a. Berendsen 1986. Everaert 1986. Zwart 1991a). <sup>25</sup>	In embedded clauses, the subject clitic is enclitic to the complementizer:
(40)	Strong subject pronouns		(46)datk Marie geknst hob that I Mary kissed have * ***********************************
	1SG ik 1PL v 2SG jij 2SG j 3SG hij/zij 3SG z	wij julis zij	Enclitic : 11 phrase
(11)	Weak subject pronouns		1)
	1SG 7k 1PL = 2SG jo 2PL = 3SG je/2e 3PL =	88 · S	(47) a. Murio heb ("gisteron) Tr nict gekust Mary have yesterday I not kissed "Mary Idia not has yesterday." bdat ("stereor) K. Mario nict ochret heb
(42)	Strong object pronouns		that yesterday I Mary "that I did not kiss Mary vestere
	1SG mij 1PL o 2SG jou 2PL j 3SG hem/haar 3PL h	aas julike hen, hun	
(43)	Weak object pronouns <sup>ze</sup>		77 The 3SG masculine cliftic is is exceptional, in that it cannot appear as the first element of a main clause, unless the main clause in question is the second element in a coordinated
	15G II:e 112C - 25G je 22PL - 3SG 'IW'T't 32PL -		construction. In that case, ar may be enclute to the conjunction ( <i>wars i zet pict attifie</i> for he- set not always! Yor he did not always sit down', from Nescio, <i>De uinreter</i> (1911), 6th impression, p. 15). <sup>24</sup> The encliticization does not bleed the devoicing of the final consonant of the verb. Thus, <i>word-ic</i> flound he) is pronounced (fontil instead of (fondil (Booij 1985).
<sup>26</sup> Object pronouns : 26 T	<sup>26</sup> () فاوخت به دامه مایش انترانه در مواودت اینمامیسه سده نظمیترد. 28 تر مرازندید به دام ماینمه دانت. داننده اینمه مایند. می میمی بازمانمه مرد	ouns are identical. 	

<sup>26</sup> Object pronouns and indirect object pronouns are identical. <sup>26</sup> In addition to the object clinics listed hore, some dialects of Dutch have a partitive object clinic 'r 'some'. The expletive/locative element er 'there' and the reflexive pronoun zich '(Latin) ec' are generally regarded as clinics, too.

A MINIMALIST APPROACH 53	In embedded clauses the object clitic again appears immediately to the right of the subject. <sup>30</sup> (53) adat Jan'r gekust heeft that John her kissed has	"that John Kissed her." b. "dat Y. Jan gekust heeft that her John kissed has	(54)dat Jan ("gistoren)'r gokust heeft that John yesterday har Kissed has "that John kissed her yesterday."	In double object constructions, when both objects are expressed as clitics, the two objects cluster together in the object clitic position. In the preferred order, the direct object precedes the indirect object, but the other order is also possible:	Jan hooft"tr gegoven John has it her givan "John gave it hor."	In Exceptional Case Marking constructions, the object of the embedded clause may precede the subject of the embedded clause if and only if the former is a clitic: <sup>31</sup>	<ul> <li>(56) a. Piet heeftr Jan zienkussen Pete has her John see kiss</li> <li>Piete saw John Jies har.</li> <li>b. Piete heeft Marya Jan zienkussen Pete has Mary John see kiss</li> <li>Teee saw John hiss Mary.</li> </ul>	1.6 Extraposition When the verb is in final position (see section 1.2), a limited class of elements may appear to the right of the verb or the verbal cluster. These phenomena are usually grouped together under the name of <i>extraposition</i> .	<sup>20</sup> See note 23. <sup>21</sup> The fuil noum phrase object of the embedded clause may precede the subject of the embedded clause only as un instance of focus scrambling, see section 1.4.
52 DUTCH SINTAX	<ul> <li>(48) a. Marie heb (?zistoren) ik niet gekust</li> <li>Mary have yestoriay. I not kässed</li> <li>"Mary I did not käss yestoriay."</li> <li>bdat (gisteren) ik Marie niet gekust hob</li> <li>that yesteriay in Mary not kässed have</li> <li>that 2013 chem Marie not kässed have</li> </ul>	Object clitics are enclitic to the finite verb in subject intitial main	vacues, and canno of separated 1.011 then. (49) Jan heeft ("gisteron)" gohust John has yesterday." "John kissed her yesterday."	nain clauses introduced by an e	<ul> <li>(50) a. Gisteren heeft Jan 't gekust</li> <li>yesterian has John her käsed</li> <li>"Yestariany John Sissed her."</li> <li>b. Gisteren heeft Jan gekust</li> <li>yesterian heeft Jan gekust</li> </ul>	ĝ	therefore has four yesteriny her Rissed That's why John Rissed her yesteriny." Object clitics, unlike subject clitics, can never appear in the first position (Kruisinga 1938:95, Merckens 1961:152, Koster 1978a:210, Travis 1984:123):	<ul> <li>(52) a. Zo heeft Jan goknet</li> <li>she-SCL has John Rissed</li> <li>"She kissed John"</li> <li>b. 'r Meeft Jan goknet</li> <li>b. 'r John Kissed her."</li> <li>"John kissed her."</li> </ul>	<sup>28</sup> In West Flemiah the order verb/complementizer.object.elitic-subject is grammatical (Haegeman 1991). I have also observed this in dialocts spoken in the South of the Netherlands (e.g. onder/ dar niet is [because there that not is] 'secanse it's not there', instead of Standard Dutch onder dar' niet is [because that there not is]).

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DUTCH SYNTAX

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Complement clauses invariably follow the verb:<sup>32</sup>

kuste kissed zei said ...dat Fiot zei dat Jan Mario that Pete suid that John Mary "..that Pete suid that John Kissed Mary" "...dat Fiet dat Jan Mario Kuste that Pete that John Mary kissed а. (57)

<u>م</u>

...dat Jan wilde proberen om Marie to kussen that John wanted try OM Mary to kiss "..that John wanted try to kiss Mary." ...dat Jan om Marie te knssen wilde proberen that John OM Mary to kiss wanted try સં (28)

á,

Adjunct clauses may also follow the verb, but they may various positions further to the left:

.dat Jan Mario kusto toon do film begon that John Mary bissed whon the morie started "that John Mary bissed whon the morie started" "dat Jan Mario toon do film begon that John Mary when the morie started" "that John Mary when the morie started "dat John Mary when the morie started "that John Mary when the morie started" "that John hoon do film begon Mary that John hoon do film begon Mary "that volan hoe morie started John Mary "that when the morie started John Mary" (59) a. ė.

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Relative clauses may appear to the right of the verb, but immediate right of their antecedent:

<sup>22</sup> Kastor (1989) notes examples of complement chauses to the left of a factive position. These constructions appear to have the focus scrambing characteric Thus Koster's example ...*dat dat (dat...) aday's berward heart* (...that 10kh ahv (that...)' is only grammatical with the intonational pattern found in focu constructions, with a halances of two stressed elements (in this case, seae, embedded chause must be stressed, as well as either *ada*/d' 'uhvay's or *betreur* 

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A MINIMALIST APPROACH 57	<ul> <li>(69) a</li></ul>	Predicative elements, like the locative PP in (68), invariably appear to the immediate left of the verb in embedded clauses: (70) a. "dat Jan de kast vond leeg that John fourd the closet empty" b. "dat John fourd the closet empty" that John fourd the closet empty"	2 Previous Treatments within Generative Grammar	This section briefly summarizes the standard analysis of Dutch syntax within the theoretical framework of generativo grammar. The standard analysis goes back to the pioneering work of Jan Koster and Hans den Besten in the 1970s. This work yielded the two cornerstones for every analysis of Dutch syntax in the two decades to follow. These two cornerstones are the following hypotheses:	<ol> <li>Dutch is an SOV language.</li> <li>In Dutch tensed main clauses the verb invariably moves to C.<sup>1</sup></li> <li>These two hypotheses, and their consequences, will be discussed in the following two subsections.</li> </ol>	$^{1}$ C is the position of the complementizer. It is assumed to be the head of a functional projection CP since Chamsky (19855) (cf. Figure 1 in section I2). Before that, the complementizer position was referred to as $COMP$ . The COMP position was not a functional bead, and could be adjoined to by maximal projections.
56 DUTCH SYNTAX	<ul> <li>(55) adart Jan verliefd is op Marie</li> <li>(45) that John in love is on Mary</li> <li>that John is in love with Mary."</li> <li>bdat Fan verliefd op Marie is that John in love on Mary</li> <li>that John is love with Mary."</li> </ul>	Jam de jas van de rus Jöhn the coat of the suster Jan de jas van de rus John the coat of the suster John the coat of the suster John was wearing Mary's sister's cout Jan Marye knuste tijdens John Marye knuste tijdens John Marye turing the morie, Jan Marie tijdens de film	taar Joan Juary auring us hur Assea ".that John kiesed Mary during the movie." (68) a. *dat het lijk was in de kast "that the body was in the closet "ther the hody was in the closet	<ul> <li>i.that the body was in the coeffic.</li> <li>i.datt het lift in de kast was that the body was in the closet was "that the body was in the closet."</li> <li>In (63)-(64), the PP can be regarded as a complement to the verb. In the a-sentences of (65)-(66) the PP appears to be extracted out of an AP</li> </ul>	and an NP, respectively. In (67), the PP is an adjunct and may in fact appear in various positions further to the left as well. In (68), finally, the PP is a locational predicate with <i>het lijk</i> the body as its subject. In this case is the PP not allowed to appear to the right of the verb in embedded clauses. <sup>23</sup> Appear to the same distribution as adjunct PPs, and hence may appear to the right of the verb in embedded clauses as well (cf. (67)):	<sup>24</sup> Another type of exception involves idioms containing FPs. These FPs may not appear to the right of the verb in final position, even if they ennot be unalyzed as predicates. Thus, whereas Dat kun, is op je vingers natalien (that can you on your fingers after-count) You can beck that (to vaculating) on your fingers has an idiomatic reading that is an invirtuable result', this reading is lost when the FP op je vingers var appears to the right of the verb natalien' check. See Koster (1993) for a minimalist account of the distribution of these FPs in Dutch.

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A MINIMALIST APPROACH 59	single verb movement transformation deriving the various main clause word orders of Dutch. This transformation (called <i>Verb Placement</i> ) moves finite verbs to the left of the subject and to the right of a clause initial position called COMP. <sup>6</sup> This COMP position must be substituted for by either the subject (in subject initial main clauses), or a wh-phrase (in wh- constructions), or a non-subject (in topicalizations). Koster defines Verb Placement as follows:	(1) Verb Placement	X - COMP - Y - V - Z	S.D. 1 2 3 4 5	S.C. 1 2 4+3 Ø 5 → 00L	Verb Placement turns the initial representation (2) into the intermediate representation (3):	<i>i</i> 2	COMP	Jan Marie kust	is (1)	COMP	V NP NP V     1   1 kust Jan Marie e	* See note 1 of this section.
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## 2.1 Dutch as an SOV Language

In generative grammar, a language L is defined as an SOV language if all possible word orders of L are derived from an initial representation in which the order of meaningful elements is Subject-Object-Verb.

It was concluded as early as Bach (1962) and Bierwisch (1963) that German is an SOV language in this sense.<sup>2</sup> German displays by and large the same word order phenomena as described for Dutch in section 1.2.1 (the position of the verb), 1.3 (topicalization and wh-movement), and 1.4 (scrambling).

Bach (1962) shows that the position of the finite verb in German main clauses (i.e. the second position) can be derived by a single transformation, if we assume that the basic order in German is SOV. To make sure that this transformation does not apply in embedded clauses, Bach makes crucial reference to the sentence boundary symbol in the description of the rule.<sup>3</sup> Bach's *Verb Second* transformation obligatorily moves the finite transformation to the right of the sentence boundary. This transformation follows the other rules which determine the order of subject and object, for instance. This ordering makes the formulation of a single rule governing verb movement possible.<sup>4</sup>

Koster (1975) is the first generativist treatment of the basic order question for Dutch.<sup>5</sup> In the spirit of Bach (1962), Koster argues for a <sup>2</sup> For a discussion of the status of Cerman in traditional grammatical frameworks, see Semplane (1981). In the 19th contary a consaoausa areas as to the SOV status of Proto-Indo-European and Proto-Germanic (cf. Beharghel 1878, Delbruck 1911). It was assumed that the present argumetric durateder of German is due to an unkinehed ahift from SOV to SVO status. After a period of uncertainty, the shift was apparently halfed around 1500-1500. For unclear reasons, the subedded clause word order reverted to SOV, whereas the main clause word order.

<sup>1</sup> This requires a distinction between a clause boundary and a seatence boundary, and a rule contains the first into the latter at some point in the derivation of a seatence in the proper contexts. \* Bach's view was challenged by J.R.Ross (1970), who concluded that German was an SVO language on account of the fact it allows fervariat grepping, which is unsynched in at ruly vers final language. Bach appears to have been convinced by this argument (cf. Bech 1971). Ross on his turn became convinced that German was SOV after his analysis of gapping was challenged by Maing (Maing 1977, as Koster 1975). So for the fact and the demonstration of the denormal of the demonstration of the defendance of the def

<sup>6</sup> The paper was first read at the first annual meeting of the Algemene Vereniging voor Taalwetenschap in January 1973, and published in the proceedings of that meeting as Dutch as a SOV Language (Kirank, ed., 1975).

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The COMP position is filled by subsequent transformations, so that the verb ends up in the second position in the final representation.

In (3), the finite verb is immediately dominated by the root node S. Thus, Verb Placement is a root transformation (see Emonds 1970). It follows that Verb Placement cannot take place in embedded clauses.

To be more exact, it must be stipulated that Verb Placement is a root transformations that take place in every cycle but the last. If the embedded clause word order were derived from the main clause word This is less attractive than positing Verb Placement as a last cyclic rule. Thus, by embedding Verb Placement in a general theory of possible transformations that are last cyclic only, but no known cases of order, we would be forced to accept a non-last cyclic verb postposing rule. transformation only, or a last cyclic rule. Koster notes that there are many

maintains Bach's result that a single rule takes care of the position of the transformations, and by characterizing it as a last cyclic rule. Koster finite verb in all constructions.

In addition, Koster presents an empirical argument for the basic SOV clauses in Dutch containing a particle-verb construction, the particle and the verb constitute a discontinuous category embracing all other categories order of Dutch which has become influential.<sup>7</sup> Koster notes that in main (except the first element):

Jan betav John called yesterday John called Mary up yesterday. Jan bolde gisteren op W ''' called yesterday up ? belde gisteren Marie called yesterday Mary đ £

8 g

- å
- Mary Marie Marie
- called yestoriday up boide op gisterena called up yesterday op bolde gistoren up called yesterday J
  - adol. \* Jan -15
- Mary Marie Mary

Koster assumes that verb-particle combinations are compound verbs, i.e. the particle and the verb are both generated in  $V.^{\delta}$ 

clauses; in that case Dutch has a basic SVO order. Or there is no rule This implies that one of two situations obtains in Dutch. Either there affecting the position of the particle and there is a rule moving the finite is a rule moving particles to the right in main clauses and embedded clauses, and a second rule moving the finite verb to the right in embedded

 $^7$  Koster (1975) also presents another empirical argument in support of the hypothesis that the main clause word order is derived from the embedded clause word order, involving the distribution of PPs in muin and embedded clauses.

<sup>a</sup> According to Kostar's present analysis, the particle is either incorporated as part of V or moved to the specifier position of a PredP (Koster 1993, cf. section IV.2.3).

rerb to the left in main clauses (Verb Placement); in that case Dutch has a basic SOV order.

It is obvious that the rule system connected with the basic SOV order is more economical.

Koster then proceeds to demonstrate that the particle in (4a) signals the basic verb position, by showing that the particle in the main clause has exactly the same distributional properties as the finite verb in the appear to the right of the finite verb in embedded clauses may appear to embedded clause. In particular, all and only those elements that may the right of the particle in main clauses (cf. section 1.6). This will go without demonstration here (see Koster 1975:119ff)

Koster's conclusion that Dutch is an SOV language has deeply influenced the study of Dutch syntax in the generative framework.

First, the analysis of the main clause word order of Dutch as involving a combination of verb preposing and topicalization has become standard (see among others Den Besten 1977, Thiersch 1978, Koopman 1984, Weerman 1989).

Second, the characterization of Dutch as an SOV language was often projection IP was head final as well.<sup>9</sup> In connection with this, it was features I(n/l) was established, it was concluded that its maximal considered to imply that the VP in Dutch is head final. Consequently, when the existence of the independent functional head for inflectional assumed that the finite verb in embedded clauses occupies the *Infi*position in overt syntax.

combination takes place by lowering the inflectional morphemes onto the verbal stem in V, whereas in Dutch, the verbal stem raises to the inflectional morphemes in Infl.<sup>10</sup> Since finite verbs are clause final in morphemes are generated in *Infl*, and have to be combined with the verbal stem in overt syntax ('at S-structure'). It was assumed that in English this These assumptions were based on the idea that the inflectional

infloctional morphenes as separate constituents (Zwart 1993d). The idea that N/FL is the halo of the clause appears to be due to Ron fields of the clause appears to the to Ron fields (2000 1991). This idea appears to have been wide-spread around the year 1980. The idea that R/R projects a regular X-but to have been wide-spread around the year 1980. The idea that R/R projects a regular X-but <sup>6</sup> The idea that inflectional elements are generated separately from verbal stems is already present in Chomsky (1957), and is rooted in the post-Bloomfieldian practice of considering structure, with a specifier and a complement, was first formulated in Stowell (1981:67), see also Posetsky (1982:253).

<sup>18</sup> The reordering of inflectional morphemes and lexical stems was introduced as a linear permutation rule in Chomsky 1957:62. This rule, later called Affir Hopping, did not yet have the histarchical dimension associated with the terms raising and *lowering*. The ruising *lowering* distinction was introduced in Emouds (1976) to account for differences in verb omition between French and English. The lowering rule is adopted as *Rule* R in Chomsky (continued...)

right of the VP in languages like Dutch and German. The same logic applies to the infinitives with te. Te was considered as an inflectional element, generated in *Infl*, and the verb stem was analyzed as raising to *te* in overt syntax. These assumptions have yielded a kind of typological truism, according to which SOV languages have head final functional embedded clauses in Dutch, it follows that Infl is located to the immediate projections.

assumed. Thus, the phenomena described in section 1.6 (known as extraposition phenomena) were considered to involve movement to the right across the verb. These rightward movements were also empirically motivated by the existence, in various languages, of constructions where A third major consequence of the assumption that Dutch is an SOVlanguage was that a number of rightward movement rules had to be clauses and PPs are separated from the elements they appear to belong to (cf. Ross 1967):

- 6
- ف اہ
- A book on linguistics came out today A book came out today on linguistics A book that I wrote years ago came out today d 6
  - A book came out today that I wrote years ago ف

grammatical relations. Since Dutch is an SOV language, one could according to which heads govern their complements only in a right-to-left fashion. SVO languages, like English and Italian, would have the opposite language has been the introduction of a directionality parameter for suppose there to be a canonical direction of government in Dutch, fourth major consequence of the analysis of Dutch as an SOV canonical direction of government. 4

assignment (Vergnaud 1979, Chomsky 1981), and Case is assigned to a direct object under government by the verb (Chomsky 1981). Clausal complements do not need to be licensed through Case assignment; in fact, they resist Case (Stowell 1981). One could assume that for that reason sentential complements flee from positions in which they would otherwise for the distribution of noun phrase complements and clausal complements (Reuland 1981). Noun phrases must be formally licensed through Case be assigned Case. Hence, in Dutch they move to the right of the verb, The idea that the verb governs to the left in Dutch suggests an account

#### ° (...continued)

1981. Chomsky (1991) proposes a combination of lowsting in overt syntax and ruising at LF for English (sometimes referred to as *yoyo-movement*), but this analysis was rejected in Chomsky (1992), where it is assumed that functional heads host abstract features instead of concrete morphemes. On this assumption, lowering is just the absence of overt verb movement.

where they are not governed by the verb and consequently cannot be assigned Case by the verb.<sup>11</sup>

## 2.2 Verb Movement to C

Koster's Verb Placement transformation moves the finite verb to a position to the left of the subject and to the right of the clause initial element come (followed by movement of a maximal projection to COMP). Den Besten (1977) modified this analysis slightly, by arguing that all root transformations involve movement to  $\text{COMP.}^{12}$ 

Thus, in Den Besten's influential analysis, the target of the verb The verb is adjoined to the right of comp, and the other preposed movement in finite clauses in Dutch is comp itself. Wh-movement, topicalization, and subject preposing also move constituents into COMP constituents are adjoined to the left of COMP.

transformations making up the other. Only one transformation per set may be chosen for each sentence.<sup>13</sup> Den Besten asserts that there are two sets of root transformations, the verb movement transformation making up one set and the other root

shifting to a sister position.<sup>14</sup> Thus, an element that is preposed out of known sister of S, all preposings must target COMP. Den Besten in addition presents some empirical evidence in favor of Den Besten's principal argument in support of the hypothesis that all root transformations involve COMP is based on the consideration that preposings must involve raising to a higher position, rather than leftward S has to move to the sister position of S, or higher. Since COMP is the only

(1989:25f). Recall from section 1.5 that Dutch subject clitics have to be the idea that verb preposing invariably involves movement to COMP adjacent to the complementizer in embedded clauses. As was illustrated there, the subject clitics similarly have to be adjacent to the finite verb in <sup>11</sup> The idea of directionality of government has had numerous other implementations (see a.o. Kayne 1384, Koster 1387, Bayer 1390). Space does not permit a full discussion of the relevant work in this study.

containing both fronted maximal projections and the verbloonplementizer. These two functions of COMP were later distributed among the specifier of CP and C, respectively.  $^{
m cr}$  Recall that before Chomsky (1996b) the clause initial element COMP was thought of as

<sup>13</sup> This distinction between two sets of root transformations to COMP forestadows the distinction between head morement to C and XP-morement to the specifier of CP (of Chomsky 1986b).

\* For the details of this argument the reader is referred to the original text. Den Besten (H04:0E)

<ul> <li>A.MANTMALIST APPROACH</li> <li>a. Peere behavpet, daß Johann Maria klasse</li> <li>(3) a. Peere behavpet, daß Johann Maria klasse</li> <li>(3) a. Peere behavpet, Johann Maria klasse</li> <li>(4) a. Peere behavpet, Johann Maria klasse</li> <li>(5) a. Peere behavpet, Johann Maria klasse</li> <li>(5) a. Peere behavpet, Johann Maria klasse</li> <li>(6) a. Peere behavpet, Johann Maria klasse</li> <li>(7) a. Peere behavpet, Johann Maria klasse</li> <li>(9) a. Peere behavpet, Johann Maria klasse</li> <li>(9) a. Peere behavpet, Johann Maria klasse</li> <li>(9) a. Peere behavpet, Johann Maria klasse</li> <li>(10) and Dutch.</li> <li>(10) and Dutch.</li> <li>(10) and Dutch.</li> <li>(10) and Dutch.</li> <li>(10) and a sity thras event, sineatly kneed had SUDA tasse the event, sineatly kneed the event.</li> <li>(10) and Dutch.</li> <li>(10) and Strink thras de event, sineatly kneed the south three event.</li> <li>(10) and Strink three strink three event.</li> <li>(10) and Strink three strink three event.</li> <li>(10) and Strink three strink three event.</li> <li>(10) Strink three strink three event.</li> <li>(10) Stri</li></ul>	Invariant movement to C in main clauses) will be Drietly steedned. <sup>14</sup> As will become clear in section 3.2, the complementary distribution of complementizer and verb does not prove Den Besten's analysis to be correct (cf. alse Travis 1991). I will argue in section III.4.1 that this complementary distribution of complementizer partition. <sup>16</sup> See anong many other Knyes (1982), Platznek (1983), Reinherg (1986), Maint and Prinzher (1981). The short list of distribution influeer (1984, 1991). Rhenherg, eds. (1986), Vitaret (1991a). The short list of distributes the destribution and Rivere (1992). Were Scould effects in Romance described in terms of Don Beston's analysis, see Rinzi (1990b), Leam and Rivere (1992). Verb Scould effects in northole-Surveyen languages are also strundardly described in therms of Don Beston's and Schuler (1991) for Coltic, among others, and Elack (1992) for Schuler (1992) for Scould effects in northol-Surveyen languages are also strundardly described in the terms of Don Scould effects in the section strundard (1993). Second effects in the section strundard (1993) for Coltic, among others, and Black (1992) for Scould effects in northol-Survey and Schuler (1991) for Coltic, among others, and Black (1992) for Scipiblo.
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topicalization constructions. This can be captured in a single statement if the verb occupies the complementizer position in topicalizations.

description of subject initial main clauses (1989.25). Den Besten since "the superiority of a grammar of Dutch that accounts for all verb As Den Besten admits, this evidence is neutral as regards the proper nevertheless concludes that the verb moves to COMP in this case as well,

preposings by means of one rule that moves the verb from a VP-final position (..) to one specified position in COMP, is evident" (*loc.cit.*). In a later modification, Den Besten argues that verb movement to COMP is not adjunction to the complementizer, but substitution in the position of the complementizer.<sup>15</sup> This explains why the preposed verb and the complementizer are never found in COMP together.<sup>16</sup>

complementizer om specifically requires a *te*-infinitive. Verb preposing is In this modified version, Den Besten clearly links verb preposing to tense. The COMP position is considered as a tense position, because the then redefined as Move Tense. This movement is blocked when the tense position (COMP) is already lexically filled, but obligatory whenever the complementizer dat specifically requires a finite verb, and the complementizer is absent.

complementizer and the finite verb in German. In certain embedded There is a very clear complementary distribution of the clauses in German the complementizer can be left out. In that case, the embedded clause has the main clause word order:<sup>17</sup>

- German Maria Mary küßt kisses küßt kisses Maria Mary Лоћади Јоћц \* Јоћапа Јоћп е; ε
  - م.

<sup>14</sup> This modification was published as Appendix II to Chapter 1 of Den Bosten (1383), but dates back from a presentation at G1OW 1378. The Appendix contains obtain obtain-as well, for instance in arguing for a landing site for Whelements outside COMP. This is a norther strap towards the development of a specifier of CP. This latter modification appears to be based on the analysis of topicalization of Koster (1978b).

14 In the adjunction analysis proposed by Den Besten in his original text, it was assumed that the complementizer is automatically deleted when the verb moves to COMP.

<sup>17</sup> The subjunctive (SURM) varb form shows that the embedded varb second clauses are really suberdimeed, according to Schwarz and Vidner (1989). Similar constructions are also possible in collequial Durtch, as Illustrated in section 1.2.1. Note, however, that the embedded verb movement in collequial Durtch is possible with the complementizer present, unlike in verb movement in collequial Durtch is possible with the complementizer present, unlike in

A MINDAALIST APPROACH 67	<ul> <li>(Koster 1975, Baltin 1982). According to the other analysis, topicalization involves base generation of the topic outside CP (Chomsky 1977, Koster 1978). In this analysis, the spec position of CP is occupied by an empty oracle of chansky) or a -possibly empty- demonstrative pronoun (the <i>d-word</i>, Koster, which is moved from within the VP. The latter analysis is supported by the existence of constructions like (12), in which the presence of the <i>d-word die</i> is optional:</li> <li>(12) Jan (die) ken ik niet the other analysis is "John I don't have".</li> </ul>	In both analyses, the placement of the subject in front of the finite verb in main clauses is considered to be a subcase of topicalization. Subjects may be resumed by a d-word as well: (13) Jan (die) komt niot (13) John doent come of	spe haa a n	Set. In It was discovered in the mid 1980s that scrambled objects in Dutch CC (a Contract of the contraction of the contract of the contrac	In (14), the trace across as an instan parasitic on The fact	
	mena of Dutch Syntax ection 2.1 have received the <i>t and Binding</i> framework of talysis derive from the basic SOV language and the verb and from the assumption that tch sentences are structured		e generated in <i>I</i> . The verbal combine the verbal stem and to tensed verbs nove on to <i>C</i> .	Let m embedded clauses. In the spec position of $CP$ (a c position of $IP$ . In the latter by another $XP$ , by way of the generative framework in	r (Jeu bescar 1505:30), has ne could argue that C is an sment features. In Chomsky re generated as a subpart of generated as a subpart of C 1984:41, Koopman 1984:214,	ement morphology originates up on the complementizer

2.3 The Standard Analysis of the Phenomena of Dutch Synta

The phenomena of Dutch syntax listed in section 2.1 have received the following standard analysis in the *Government and Binding* framework of generative grammar. Most features of this analysis derive from the basic assumptions discussed above: Dutch is an SOV language and the verb moves to C in main clauses.

It follows from the SOV status of Dutch, and from the assumption tha SOV languages have a head final *IP*, that Dutch sentences are structure as in (11):



The inflectional morphemes, including  $t_0$ , are generated in I. The v stem, generated in  $V_i$  raises to I in order to combine the verbal sten the inflectional morphemes. In main clauses, tensed verbs move on

The subject occupies the spec position of IP in embedded clauses. In main clauses, the subject either moves to the spec position of CP (s subcase of topicalization), or stays in the spec position of IP. In the latter case, the spec position of CP is occupied by another XP, by way of topicalization or wh-movement.

Complementizer agreement, first noted in the generative framework in Den Besten's Appendix II to his 1977 paper (Den Besten 1989:93), has given rise to two types of analysis. First, one could argue that C is an inflectional category, hosting abstract agreement features. In Chomsky (1981), these abstract agreement features are generated as a subpart of I. It could be the case that in Dutch they are generated as a subpart of (Bayer 1984a.249, Bennis and Haegeman 1984:41, Koopman 1984:214, Haider 1986:69).

According to a second analysis, the agreement morphology originate in I but is moved to C, where it shows up on the complementize (Hoekstra and Máracz 1989).

For topicalization, basically two analyses have been proposed. According to one analysis, the topic is moved to the spec position of CP

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argument position, Chomsky 1981). This has become a standard aspect of the analysis of scrambling in Dutch.<sup>21</sup>

The clitic status of the weak pronouns in Dutch is argued for in Koster (1978a:209f) and Van Riemsdijk (1978:33). Stowell (1981:120f) follows their argumentation and concludes that these clitics must be adjoined to a head position to the left of the VP.<sup>22</sup> In general, however, the consensus was that the Germanic clitics differ from the Romance clitics in that the former are adjoined to VP, whereas the latter are adjoined to heads former are adjoined to VP, whereas the latter are adjoined to heads shift *inside* VP, and the Dutch clitics are left-adjoined to VP. This explains why clitics show up further to the left than full NPs. Elements appearing to the right of the clause final verb position, such

Elements appearing to the right of the clause final verb position, such as clausal complements and adjuncts, relative clauses, PPS, and adverbials are assumed to have been moved there by rightward *extraposition*, crossing the final verbal position.<sup>22</sup>

This concludes the survey of the main aspects of the standard analysis of Dutch syntax within the *Government and Binding* framework. In the next subsection, I will discuss certain aspects of this analysis which are problematic within the set of assumptions which make up the Government and Binding framework.

## 3 Problems of the Standard Analysis

In this section, I will mention a number of problems connected with the traditional analysis of Dutch syntax as sketched in section 1.2. These are problems from the point of view of the relevant stage of the theoretical framework, i.e. the Government-Binding approach.

Obviously, theoretical developments, such as the emergence of the minimalist approach, necessitate reassessments of traditional analyses. 21 Latsr developments have made it clear that scrambling in Dutch also has many properties of A-movement, See Vanden Wyngraerd (1983a), and soction IV.2.2.2. 22 Stowell (1981) argues for a double headed VP in Dutch. The head position to the right is

<sup>22</sup> Stoweil (1981) argues for a double headed VP in Dutch. The head position to the right is the basic position of the verb, the head position to the left is the verb second position. In a formcle (fit 25, p.221) Stowell notes that "it may be that (..) the second position corresponds to the INFT position in S. suggesting that INFT should be included in the discontinuous verb complex".

<sup>23</sup> The alterrative analysis, according to which complement clauses are base-generated to the right of the final verbal position, faces the problem that different basic positions for clausal objects and noun phrase objects must be assumed (cf. Hoekstra 1987).

.....

However, it is important to note that the traditional analysis of the syntax of Dutch already had many problematic aspects, even within the framework of the Government and Binding approach. In fact, the traditional analysis is basically a pre-Government and Binding analysis, which failed to make the transition into the Government and Binding stage (even though its main points were widely accepted within that stage).

The comes as no surprise, therefore, that a further sharpening of the notions that became important in the Government and Binding era (such as economy of derivation and representation, visibility, Full Interpretation, feature checking), which yields the minimalist approach, makes the standard analysis untenable in a very obvious way. The problematic aspects of the standard analysis were already clearly present in the Government and Binding era.

#### 3.1 INFL

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In the standard analysis of Dutch syntax inflected verbs occupy the INFL position in overt syntax, in embedded clauses, or the COMP position, in main clauses. The underlying assumption in this analysis is that inflectional morphology is generated in INFL and has to be combined with a verbal stem in overt syntax (cf. Lasnik 1981).

A problem of this aspect of the analysis is that there are two ways to combine the verbal stem and the inflectional morphology. The verb can raise to DFL, but DFL can also lower onto the verb. This latter mechanism is assumed to apply in English (Emonds 1976, Chomsky 1981).

Assuming that INFL in English is occupied by the auxiliary do, by modal verbs like will, and by the infinitival marker to, constructions like (1) indicate that INFL is located to the left of VP.

a. John did not kiss Mary
 b. John tried to quickly kiss Mary

*Quickly* is a VP modifying adverb (instead of a sentence modifying adverb like *yesterday*). It is assumed to occupy a VP internal or VP adjoined position. Therefore, (2) shows that finite verbs in English may occupy a VP internal position:

(2) John quickly kissed Mary

On the assumption that inflectional morphology is generated in NFT. (2) must be derived from (3), and the inflectional morphology must have moved down to the verbal stem to yield (2).

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#### John -ed quickly kiss- Mary ଡି

clauses the finite verb is in second position, and in embedded clauses it is further to the right. Unlike Dutch and German, however, and like A similar example of lowering is provided by Swedish. Swedish, unlike English, displays the same asymmetry between main clauses and embedded clauses as Dutch and German (Kosmeijer 1986). Thus, in main English, embedded clauses in Swedish show an SVO word order. For this reason, the asymmetry between main and embedded clauses can only be demonstrated when the sentence contains an adverbial.

Furthermore, it is assumed that *inte* marks the VP boundary. Thus, Swedish has the following paradigm: It is assumed that the negative element *inte* 'not' is such an adverbial

Johann köpte inte boken John bought not book the "John didn't buy the book." Johann ٠ ف e Ŧ

Swedish

- inte köpte boken not bought book the John ×
- Johann köpte inte boken John bought not book the Johann inte köpte boken Johann not bought book the that that ð à, 3
  - "..that John didn't buy the book."

The word order in (5b) indicates that the finite verb is inside the VP in Swedish are identical, the set of assumptions leading to the analysis of verb raising to INFL in Dutch leads to an analysis of INFL lowering in embedded clauses in Swedish. Thus, whereas the phenomena of Dutch and Swedish.

Therefore, the choice for verb raising in the analysis of Dutch embedded clauses, instead of INFL lowering, is arbitrary.

The suggestion that the verb moves to INTL in embedded clauses in Dutch would be stronger if it resulted in perceptible changes in word

<sup>1</sup> It has been argued that Dutch and Swedish differ in one important respect, namely the number of different infloctional forms within a vertel paradigm (Holmberg and Plarack 1989). Vincer 1991b, Roberts 1993). Thus, Dutch has 3 different wer forms within the present indicative paradigm, ubarens Swedish has only 1 web form the all persons and numbers in each paradigm. However, that does not detract from the fact that the Swedish fulls were forms are clarify both marked and periced as finite, from the finite form. For the fact on the start efforts and also the infinitival from differs from the finite form. For the finite were forms are clarify both marked and periced as finite, from the finite form. For the and past are vecenized as such from the earliest period of language acquisition (Woddar were forms are recognized as such from the servicet period of language acquisition (Woddar

order. However, the verb-to-INFL movement, if it takes place, is always vacuous (Reuland 1990b).

This is not a necessary state of affairs. It could be that there are adverbial elements, or PPs, or clausal complements or adjuncts adjoined to the right of VP and that these elements were crossed by the verb on its way to INFL. But this can never be demonstrated.

First, the extraposition rule always moves clausal complements to the right. Apparently, this means to the right of NFL. Second, it is assumed that all verbs, including the non-finite forms, move to NFL. As a result, nothing is left behind to mark the original position of the verb. This In part, this is due to two other assumptions of the standard analysis, makes the verb raising vacuous by definition.

However, the conclusion that nothing is left behind to mark the infinitives obligatorily form a cluster, past participles appear to be included in the cluster only optionally. They may show up both to the left original position of the verb cannot be drawn as easily as that. First, while and to the right of the cluster:

- Jan Marie gekust zou moeten hobben John Mary kissed should must have --dat that d 9
  - Jan Marie zou mooten hebben gekust bissed should must have "..that John should have kissed Mary." ..dat Jan Marie zou mooten John Mary that ,ci

instance, cf. section IV.2.4). The verb clustering mechanism in its simplest Other orders are excluded in standard Dutch (but not in West Flemish, for form (adjunction to the right) yields (6b), not (6a). It may be the case then, that the past participle is left behind in the verb position in (6a).

If so, it should be possible for adjuncts that are right adjoined to VP to intervene between the past participle and the finite verb if the latter moves to INFL. But this is never the case:

- ..dat Jan Marie gekrust tijdens de film heeft that John Mary Esseed during the movie has ..dat Jan Mary tijdens de film gekrust heeft that John Mary during the movie kissed has • • Э
  - tijdens de film gekust heeft during the movie kissed has ,d
    - "..that John kissed Mary during the movie."

a verb clustering mechanism that moves past participles out of the VP, but to different positions in (6a) and (6b). A similar consequence applies to verb particles and resultative So the vacuous movement hypothesis for verb-to-INFL movement requires

predicates. Recall from the discussion of Koster (1975) that particles are assumed to be part of a compound verb, left behind when the verb is preposed. It must now be assumed that the particle does move along with

the verb to INFL, and is stranded there. Otherwise, the particle would mark the original position of the verb, and we would expect certain elements to be able to intervene between the particle and the verb in INFL. But this is never found:

- tijdens de film do da Marie Jan Marie John Mary ..dat that \* e. 8
- belde called belde called during the movie ,d
  - ..dat Jan Marie tijdens de film op that John Mary during the movie up "..that John called Mary up during the movie."

Similarly for resultative predicates:

- 3 6
- verfde painted de deur rood met één kwast the door red with one brush John John + ...dat that
- ..dat John met één kwast de deur rood verfde that John with one brush the door red painted "..that John painted the door red with a single bruh." dat that ,a

aothing may appear between them and the verb. This is not an attractive (9) can be replaced by the phrase net zo rood als de kast just as red as the These elements must also be assumed to move along to INFL, because conclusion, because resultative predicates can be phrasal (i.e. *rood* 'red' in closeť).

Thus the hypothesis of vacuous verb-to-INFL movement can only be maintained on the auxiliary assumption that all elements that *could* have marked the original position of the verb, whether heads or phrases, are moved along in the vacuous movement to INFL. This makes the hypothesis rather suspect.

hypothesis that adverbial scope is determined by hierarchical rather than SOV languages like Dutch, VP-internal elements are ordered in such a In addition, Reuland (1990b) presents an empirical argument against vacuous verb-to-DVFL movement in Dutch. This argument is based on the linear relations (cf. Reinhart 1976). Thus, an element higher in the tree has scope over an element lower in the tree, regardless of linear order. In way that the linear order equals the hierarchical order. Thus, both sentences in (10) have only one reading:

- ..dut Jan Marrie herhaaldolijk op beide waargen gejrust hoeft that John Mary repeatedly on both cheeks kissed hus "..that John repeatedly kissed Mary on both cheeks." ġ ê
  - .dat Jan Marie op boide wangen herhaaldelijk gekust heeft hat John Mary on both cheeks rapestedly kissed has .that John on both cheeks kissed Mary repeatedly." -dat that <u>م</u>

In (10a), John on several occasions kissed Mary twice, once on each cheek In (10b), John gave each of Mary's cheeks a streak of kisses.

adjoined to VP). If so, we may expect the linear order to be different from the hierarchical order: the right adjoined PP may be higher than the Since op beide wangen 'on both cheeks' is a PP, it can presumably be adjoined to the right of the VP?<sup>2</sup> This is not visible if all verbal material adverb. Thus we predict that (10a) also has the reading of (10b), which is has moved out of VP to INFL, yet it cannot be excluded. At the same time, herhaaldelijk 'repeatedly' must still be assumed to be inside the VP (or not the case.

We see here that the vacuous V-to-INFL movement hypothesis predicts a possibility that does not exist. This makes the V-to-INFL movement suspicious, if not impossible.

hypothesis below (section III.1). A final remark must be made here on the I will return to the problems of the vacous V-to-INFL movement nature of the lowering process.

trace. Chomsky (1991) solves the latter problem by assuming that the Lowering (or rightward movement) of inflectional morphemes to the verbal stem has been an aspect of generative grammar ever since its beginnings.<sup>3</sup> It is also very obvious that lowering is a problematic mechanism. Thus, it is countercyclic and it does not leave a c-commanded verb-INFL combination moves back to the INFL position at LF. This, however, yields other problems, having to do with economy of derivation. All these problems are due to the basic assumption that inflectional morphemes are generated in the INFL position.

1984, Zwart 1987, Zwart and Hoekstra 1989). In this assumption, languages like English and Swedish are characterized by the circumstance that inflected verbs procrastinate raising to INFL until LF. If that is the according to which inflected elements are generated in fully inflected form approach, it can be assumed that functional heads are not occupied by inflectional morphemes but by inflectional features (Travis 1984:139, Fabb correct approach, it is an open question whether verb raising to INFL in There is however a separate tradition within generative grammar (Lieber 1980, Williams 1981, Lapointe 1981, Reuland 1986). In this Dutch takes place in overt syntax or at LF. As we have seen in section I.2, the assumption that functional heads host features rather than morphemes is a crucial part of the Minimalist Program.

position to the right of the VP in Dutch, this does not automatically lead to the conclusion that Dutch has the suspect AVT. lowering mechanism. In sum, if doubt is cast on the existence of verb movement to an INFL

<sup>2</sup> This argument assumes that PP-over-V phenomenn involve movement to the right. <sup>3</sup> See note 10 of section 2.1.



#### 3.2 COMP

Den Besten (1977) argues that the verb invariably moves to C in main clauses in Dutch.

As pointed out in section 2.2, Den Besten's empirical arguments in favor of verb movement to C in Dutch relate to inversion constructions only. In these constructions, the verb is subject to the same adjacency conditions as the complementizer. Den Besten presents no direct evidence relating to the position of the verb in subject initial main clauses. He motes, however, that a grammar of Dutch containing only one verb movement nule (verb movement to C) is superior to a grammar having more than one nule (verb movement to C in inversion constructions, and movement to a lower position in subject initial main clauses).

This argumentation is no longer valid in the Government-Binding framework (Chomsky 1981). In this framework, particular movement rules do not exist anymore. Rather, all movements have the same format (Move  $\alpha$ , "move anything anywhere"). The output of the application of Move  $\alpha$  is subject to various grammaticality conditions, as specified by the modules of grammar (Case Theory, Theta Theory, Binding Theory, Bounding Theory, etc.; see Chomsky 1981, Koster 1987).

Consequently, rules can no longer be counted, and grammars can no longer be compared by counting the rules they need. In the Government-Binding framework, a movement can be ruled out only if it results in a representation which does not meet all grammaticality requirements.

Does Den Besten's observation that the verb moves to *C* in inversion constructions in Dutch lead to the conclusion that the verb also moves to *C* in subject initial constructions in Dutch?

To see this, we have to ask whether an alternative landing site for the verb movement is available. This depends on where DFL is situated in Dutch. If DFL is situated to the right of the VP in Dutch, then verb movement must target C. On the other hand, if Dutch is like English, and DFT is located to the left of VP, verb preposing may target DFL in one ase (the subject initial main clauses) and C in another (inversion constructions). Therefore, this point is likelf.

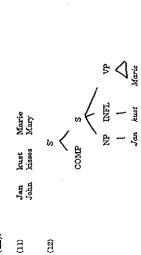
Suppose there is an INTL position to the left of the VP in Dutch.<sup>4</sup> Then we should wonder whether moving the verb to this INTL position in subject initial main clauses would violate any grammaticality requirements. If so, Den Besten's conclusion that all verb preposings target *C* still holds.

This was argued by Travis (1984).

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Consider sentence (11) and its analysis under the relevant assumptions (12):



It is not easy to see what would be wrong with the representation in (12) (assuming the VP is adomed with the required traces). The finite verb *kust* 'faisses' is in DFT, where the tense features are canonically located. The subject is in the 'structural subject position', where it is governed and assigned hominative Oase by DFT, as required by Case Theory (Chomsky 1981). (12) is a perfect structure.<sup>5</sup>

Thus, if there is an additional functional head to the left of VP in Dutch, it must be considered a serious candidate for hosting the verb in subject initial main clauses. Hence, it does not suffice to show that the verb moves to *C* in inversion constructions. It must be demonstrated for subject initial main clauses as well, or the hypothesis that there is V-to-C movement in subject initial main clauses must be rejected.

A different problem, closely related to the one discussed above, is posed by the behavior of subject clitics in subject initial main clauses. Recall that subject clitics have to be right adjacent to both the complementizer and the preposed verb in inversion constructions. If the verb always moves to C, one would expect subject clitics to always be right adjacent to the preposed verb. But this is not the case in subject initial main clauses:<sup>6</sup> <sup>6</sup> The tree structure in the toxt follows Choursky (1981). The conclusions would be the same if the structure of S (IP) proposed by Stowell (1981), adopted by Choursky (1986b), is assumed.

<sup>1</sup> Den Resten (1989:27) mentions that the 3SG subject clific & may not appear in the first position in subject initial main clauses. All other, clifics, however are fine in the first position. Crucially, & likewise may not appear right adjacent to the verb in neutral constructions.

(i) Beett's Marie gekust has he Mary kissed

(continued...)

<ul> <li>A MINIMALET APPROAGE</li> <li>A MINIMALET APPROAGE</li> <li>A MINIMALET APPROAGE</li> <li>A MINIMALET APPROAGE</li> <li>A MINIMALET APPROACE</li> <li>A functional head (INTL), thereby making movement of the finite verb to ReT. Fiber superbluous or unnecessary (see also Zwart 1991a, 1994a, 1991a, 1991a, 1991a, 1994a, 1994a, 1994a, 1991a, 1994a, 1991a, 1994a, 1991a, 1994a, 1991a, 1994a, 1991a, 1994a, 1994a, 1994a, 1994a, 1994a, 1994a, 1994a, 1991a, 1994</li></ul>	possibility that the complementarity of the complementizer and the fronted web in Dutch and German involves two positions (INFL and COMP) mther than one (COMP alone).
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(13) a. \* Heb'k Marie gekust haveI Mary Kassed

(declarative)

"I have kissed Mary." 'k Heb Marie gekust

b. Tr Heb Marie gekus I have Mary kissed

T have kissed Mary."

So if the position of the subject clitics tells us that the verb is in C in inversion constructions, it likewise tells us that the verb is not in C in subject initial constructions.

A third problem of the generalized V-to-C hypothesis concerns the grammatical trigger for verb movement to C. Den Besten (1989, Appendix II) assumes that C is a [+Tense] category, and he describes verb movement to C as Move Tense'. But the V-to-INET hypothesis requires that Tense is located in INTL. If C is really a [+Tense] category, one would expect the tense morphology (or the tense features) to be generated in C, and this would leave us without a trigger for V-to-INET movement. If the Tense morphology is located in INTL, then Tense cannot provide the trigger for the movement of the verb to C.

For this reason, it has been proposed that Tense is a feature of NFT, but that an independent language particular property requires that Tense be realized on the highest head (i.e. C) (cf. Platzack and Holmberg 1939).<sup>7</sup> While this is a possible instance of parametric variation between languages, an analysis along these lines leaves open the question why languages should differ at this point.

A fourth problem of the generalized V-to-C hypothesis concerns the complementary distribution of the complementizer and the fronted finite verb. This complementary distribution is clearly visible in German, where the complementizer may be absent. In that case, the embedded clause has the main clause word order (see section 2.2).

This complementary distribution is generally taken to provide an empirical argument for the correctness of the generalized V-to-C analysis (see e.g. Vikner 1991a). But Travis (1991) correctly objects that it might be that the complementizer, if present, wields some power over a lower

\* (...continued) "He kined Mary." (I asither share nor understand Den Bestan's judgmont that the 3SG weak (i.e. unartressed) prensum *[sij* may not occur to the immediate right of the complementizer or the verb in C.) "The hypothesia that Tonce must be realized on the hightest head leads to the question whether CP is alwayrs present in meutral order main chauses. CP is alwayrs present in acutral order main chauses. CP is alwayrs present in meutral order main chauses. CP is they prically the level for topicalizations and wh-movements. If CP is theant in other constructions, the proposed principle leads to the condition that the finite weth is in fort, in neutral order muin clauses in Duth. The hypothesis of I.co.C movement is also adopted in Stewell 1981, Peetes V 1982, Even 1982.

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(16) a. Had Jan Mario maar gekust had John Mary but kissod "If only John had kissod Mary." b. Had Jan Mario gekust, dm... Tu dohn Mary kissod then "If John Mary kissod, then." The obligatory verb second character of Dutch, then, appears to be the major explanandum of the grammar of this language. However, the traditional analysis offers no explanation for the fact that some constituent always has to precede the finite verb in Dutch. This is a serious inadequacy of the traditional analysis on any count.

It is clear from inversion constructions and embedded clauses that the subject in Dutch can be licensed in the specifier position of IP (the 'structural subject position). If that is the case, it is not clear why movement of the verb to C triggers an additional movement of the subject to the specifier of CP. Assuming that a trigger for verb movement to C exists, even when the specifier position of CP is not occupied by a whelement or a topic, this does not necessarily also force the subject to leave its licensing position and move on to the specifier position of CP. The crucial question in this respect is why Dutch neutral order main clauses are not VSO.<sup>9</sup>

It is important to note that invoking a 'verb second constraint' to account for the position of the finite verb in main clauses in Dutch is merely a way of concealing the problem. A 'verb second constraint' naturally matches the observations, but does nothing to explain them.

One might suppose that a Yerb second constraint forces the specifier of CP to be filled whenever C is filled. But this is an inadequate formulation, because nothing fills the specifier of CP when C is filled by a complementizer:

(17) Piet Zegr ("gistoren) dat Jan Marie gekust heeft Pete zays yesterday that John Mary Rissed has "Pete zays that John yesterday kissed Mary." Moreover, it is clear from long distance movement constructions that the specifier position of CP must remain empty in embedded clauses in order to provide an intermediate chain position: <sup>9</sup> Notice that the characterization of movement as 'move anything anywhere' does not make it tunnecessary to formulate a trigger for obligatory movements. In other words, it must be made precise what grammaticnility conditions are violated when the vorb moves to C and the subject stays behind in the specifier position of IP if and only if no other constituent complex the specific of CP.

A MINIMALIST APPROACH

Wie zei Piet t dat Jan t gekust had? who suid Pete that John kissed had "Who did Pete say John had kissed?"

(18)

Therefore, the requirement that the specifier of CP be filled must make specific reference to the preposed finite verb, which makes it *ad hoc*. Finally, even if we allow the verb second constraint to be formulated in this way, it is still unclear why languages should differ in this respect. Again, one wonders why Dutch is not a VSO language like the Celtic languages or Arabic.

The problems connected with the specifier position of CP that the traditional analysis of Dutch syntax faces are in fact more complicated. The traditional analysis of Dutch contrads that the finite verb always moves to C in main clauses. As a result, the placement of the subject to the left of the finite verb is regarded as a subcase of topicalization. However, there are clear differences between subjects and topics. These will be discussed in section III.5.1.

Here, it suffices to note that object clitics may not appear in preverbal position in tensed main clauses, while subject clitics may (see section 1.5, and references died there). An easy explanation for this would be to prohibit topicalization of weak elements, such as clitics, in general. But then the placement of the subject cannot be a subcase of topicalization, because firs would exclude subject cannot be a subcase of topicalization, because firs would exclude subject cannot by assuming that INT is located to the left of the VP in Dutch and German, and that the finite verb moves to INT in main clauses, and to C in topicalizations and wh-constructions.

This latter point has received some attention in the recent literature and certain interesting proposals have been made to derive the asymmetry between subject clitics and object clitics in a way that leaves the generalized verb-to-C analysis unaffected (Holmberg 1986, Rizzi 1991a). We will return to these proposals in section III.4.4.2.

3.4 Scrambling and Clitics

As we have seen, in the analysis of Dutch syntax within the Government and Binding framework, clitics, scrambled NPs, and sentence adverbials are all considered to be adjoined to VP. The order of elements is as in (19):

(19) Clitics - Scrambled NP - Sentence Adverb - Non-Scrambled NP

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There are several unsatisfactory aspects of this analysis.

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A MINIMALIST APPROACH 81	A second problem connected with the analysis of clitics and scrambling is the assumption that the sentence adverbs have a fixed position, namely adjoined to VP. It is clear from examples like (23) that adverbs can move further to the left:	<ul> <li>(23) adat gisterem Jan Marrie gekust hoeft that yesterday John Mary Kased has that John yesterday kased Mary.</li> <li>bdat John yesterday Mary probably that John yesterday Mary probably</li> <li>that John yesterday probably kissed Mary.</li> </ul>	In (23a), gisteren 'yesterday' has moved to the left, crossing the subject Jan 'John'. In (23b), two sentence adverbials are present. The object, Marie 'Mary', acopears to the left of one of the adverbs. macroschindik	'probably'. Referring to the positions indicated in (19), it must have moved from position [4] to position [2]. Still to the left of the object is the other sentence adverb, gisteren 'yesterday'. This means that [3] in (14) cannot be the sole position of the sentence adverbials. This implies that scrambling can actually take place to a position to	the <i>right</i> of a sentence adverb. As a result, we do not have a single clue as to where the object noun phrase really is in a standard scrambling paradigm like (24):	Jan gistoron Marie ged John yesteriay Mary kis Jan Marie gistoren	that John Mary yesterday. "that John Kased Mary yesterday."	A third problem, related to scrambling, is the question how the scrambled object is assigned Case. In the Government and Binding framework, objects are assigned Case under government by the verb (or by the trace of the verb). Government is defined as a relation between a	head and an element it c-commands (provided no other governors of the same element intervene). 'C-command' is a relation between elements in a tree structure such that the first branching node dominating the c- commander dominates the c-commandees. If an object is scrambled away from the verb (or its trace), it is no	longer c-commanded by the verb, hence it is no longer governed by the verb. Therefore, a scrambled object can only be assigned Case via the trace left behind in the scrambling process. This means that scrambled objects are formally comparable to topics and wh-elements, which likewise can only be assigned Case via the trace they leave behind as part of the	movement operation. In other words, scrambling must be At-movement.
<u></u> .	rom 775). the	133, Jyze fene tion		to a nce, ic is				***	ed with always in (20) (20) a	be the the rest	
80 DUTCH SYNTAX	First, it is unclear why the Germanic clitics should be different from the Romance clitics. The latter are considered to be heads (Kayne 1975). For that reason, they have to adjoin to heads, not to phrasal categories (Baltin 1982). As several authors have shown, the Dutch clitics have the	same head-like properties as their Komance counterparts (Koster 1973, Everaert 1986, Zwart 1992b). It therefore seems appropriate to analyze the Dutch clitics as heads as well In subject initial main clauses in Dutch, nothing may intervene between the finite verb and the object clitic. Cf. (20), repeated from section 1.5:	(20) Jam hoeft ("gistoren) 'r gekrast John has yestorday her Kässed "John kissed her (yesterday)."	In these constructions, then, the object clifics appear to be adjoined to a head. A problem arises in inversion constructions, however. In Romance, the object clific is pied piped with the verb, but in Germanic the clific is stranded in a position to the right of the subject.	L'a-t-il her has T "Did he bi	b. A.t-til l'embrasse? has Tha her hissed (22) a. * r'hooft Jan gekust?	her has John Kissed b. "Heoft'r Jan gekust? has her John Kissed	c. Heeft Jan'r gekust? bas John her Kased "Did John Kase her?" mt: :	1 ms is presumany one of the reasons why the Ducu church the generally been considered heads. <sup>30</sup> However, we have to note that this issue is intimately connected with the generalized V-to-C analysis. Assuming that the fronted verb is always in C, (22) tells us that the cliftic cannot be adjoined to the verb in (20) ather "this larges the adjoenery of the cliftic and the verb in (20)		" A notable exception is Stowell (1981.221).

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A'-movement, namely that it creates a configuration in which parasitic gaps are licensed. Kowever, we will see below that scrambling in all other Wyngaerd 1989a). For example, as already noted in Huybregts and Van We noted in section 2.3 that scrambling in Dutch has one property of respects resembles A-movement, like Passive and Raising (Vanden Riemsdijk (1985), scrambling, unlike wh-movement and topicalization, does not yield weak crossover effects:

- gekust kissed Jan beeft *Mari*e op *haar* voorboofd John has Mary on her forehead "John kissed *Mary* on *her* forehead." તં (32)
  - ? Wie 'n.
  - hebben zijn ouders onterfd? have his parents disinherit Who did his parents disinherit?" wbo

The absence of weak crossover effects, as in (25a), in contrast to (25b), is considered to be a test for A-movement.

targets a position in which the noun phrase in question can be assigned Case. If this is correct, our conception of scrambling in Dutch must change radically, because a position adjoined to VP is not the type of position in which Case is assigned, under standard assumptions of the Government In A-movement, the trace is not assigned Case, but the movement and Binding framework.

#### 3.5 Extraposition

A final problem of the standard conception of Dutch syntactic structure touches on the status of Dutch as an SOV language.

Elements appearing to the right of the final verb position in Dutch are movements create islands, i.e. constituents out of which no extraction is supposed to have moved there by a rightward movement called extraposition. It has been known since Ross (1967) that such rightward possible.

However, Dutch sentential complements, though appearing to the right of the final verb position, are not islands:

gekust heeft? kissed has Wir heeft Piet betreurd dat Jan t who has Pete regretted that John "Who did Pete regret that John kissed?" (<u>3</u>0)

In this respect, there is a clear contrast with non-complement clauses (T. Hoekstra 1983, Bennis 1986)

Jan t gekustheeft? John kissedhas rre neett Fict det betrourd dat who did Peto it regret that "Who did Peto regret it that John kissed?" \* Wie heeft Piet het betreurd (31)

In (21), het 'it' is the direct object of the verb, and dat Jan gekust heeft 'that John kissed' is construed as an adjunct to the direct object. In this case, the embedded clause is a clear island.

The fact that the embedded clause in (20) is not an island suggests quite strongly that it is in its basic position, and that no extraposition has arguments and sentential arguments, the former preceding the verb and the latter following it.<sup>11</sup> taken place (thus T. Hoekstra 1987). This has led several authors to suggest that Dutch has two different complement positions for NP-

categorial status of arguments is irrelevant for the encoding of thematic relations into syntactic structure (see Pesetsky 1982, Chomsky 1986a, that the Baker 1988). In this respect, then, the standard analysis is problematic, and, in fact, casts doubt on the basic assumption that Dutch is an SOV language.  $^{22}$ This, however, is incompatible with the important idea

#### 3.6 Conclusion

rules is more attractive. However, this evaluation metric is no longer valid in the Government and Binding approach, where all movement rules are reduced to one,  $Move \alpha$ . Verb movement to C in subject initial main clauses therefore needs independent evidence, but the evidence that is available suggests that the verb in these constructions is not in C but in problematic. Verb movement to NFL in embedded clauses is always vacuous. The hypothesis that this movement takes place is based on the syntax. However, this is not necessarily the case, given the possibility of The conclusion that this verb movement takes place in subject initial main clauses as well is based on the idea that a grammar containing fewer The crucial features of the standard analysis of verb movement are all assumption that inflected verbs must occupy the INFL position in overt lowering INFL to the verb (or procrastinating verb movement until LF). Verb movement to C can only be demonstrated in inversion constructions.

See Koster 1976a, 1969; De Haan 1979; T.Koekstra 1984, 1967; Bennis 1986.

<sup>&</sup>lt;sup>12</sup> As Marrel dan Dikken notes (p.c.), an additional argument against extraposition of sentential complements out of VP is the fact that the VP shows no theoring "effect. Thus, in *Vic ieb je certeid dat je zu verzen (whom* have you hold that you would come! the VP out  $\delta V$  which dat *je zo konten* that you would come is supposedly extraposed is still transparant witness the extractability of the indirect object wie who.''

a lower functional head to the left of the VP. Finally, the transparency of clausal complements suggests that the position to the right of the verb in embedded clauses is their basic position. This in turn casts doubt on the assumption that Dutch is an SOV language.

# 4 A Minimalist Approach to Dutch Syntax

In this section, I will reexamine the phenomena of Dutch syntax from a minimalist perspective. First I will discuss the two basic assumptions underlying the standard analysis of these phenomena: the hypothesis that Dutch is an SOV language and the hypothesis that the verb moves to C in all main clauses. Next I will review the problems of the traditional analysis discussed in section 1.3. It will turn out that these problems analysis discussed in section 1.3. It will turn out that these problems become even more serious if the minimalist approach is taken. Finally, I will sketch the outlines of an analysis of Dutch syntax which seems to be forced upon us by the assumptions of the Minimalist Program. This will serve as the starting point for the more detailed analysis of the syntax of Dutch in chapters III and IV.

## 4.1 Basic Assumptions

Recall that the two basic assumptions underlying the standard analysis of Dutch syntax are the following:

- Dutch is an SOV Language
   In Dutch tensed main claust
- 2. In Dutch tensed main clauses the verb invariably moves to C

The Minimalist Program does not immediately affect the first of these assumptions. It is imaginable that when the verb and its object are first combined in a binary operation, the direct object ends up to the left of the verb. However, as pointed out in section I.3.3, the minimalist approach in its most restrictive implementation leaves no room for a parameter determining the position of the object with respect to the verb at this initial stage in the derivation. Moreover, such a parameter would be superfluous given the fact that word order variation can be derived from interactions of over than covert movement.

In view of this, the question arises whether it is necessary to make a typological distinction between languages on the basis of their order of

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words in the initial stage of the derivation. We will return to this issue in chapters III and IV of this book, and I will argue there that, at least in Dutch, both the functional heads and the lexical heads take their complements on the right hand side.

The second assumption underlying the standard analysis, according to which the finite versh invariably moves to C in main clauses in Dutch, appears to be incompatible with the minimalist approach.

First, according to Figure 1 in section 1.2, the functional domain contains at least three head positions other than C. Therefore, Den Besten's (1977) conclusion that C is the only host available for the preposed verb is no longer valid.<sup>1</sup>

Second, verb movement to C, if it takes place, must be triggered by the need to eliminate a strong inflectional feature represented in C. However, inflectional features have designated positions in the Minimalist Program: the tense features are located in T, the subject agreement (Nominative Case) features are located in AgrS. Even if these features are strong in Dutch, they cannot trigger verb movement to  $C^2$ .

Third, even if the verb moves to C in subject initial main clauses, there has to be a trigger for movement of the subject to the specifier position of CP in these constructions. Again, the relevant trigger must be a strong Nfeature that has to be eliminated. However, the N-features for licensing the subject are not represented in C but in AgrS. Hence, unless the subject shows additional features which would warrant a further movement, it has to move to the specifier position of AgrSP, not CP. Movement of the subject to AgrSP, of course, is well attested in inversion constructions and embedded clauses. The default hypothesis appears to be if so, we must conclude that verb movement to C does not take place in subject initial main clauses in Dutch.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> One could argue that in Dutch, the heads of the AgrPs and TP are situated to the right of the VP. This would make C the only available heat for the preposed verb again. However, the exact location of the functional heads in Dutch is an empirical issue. We will return to this issue in chapter III, where I will argue that all functional projections in Dutch are head initial.

<sup>&</sup>lt;sup>2</sup> A way out would be to assume that tonee has to end up on the highest functional head. This could trigger werb movement to C. Howwer, this presuppose that all churses are CP, which is not a priori clear. In particular, neutral main clatuses may be complete as AgrSPs. If so, the requirement that tense end up on the highest functional head would trigger verb movement to AgrS.

 $<sup>^2</sup>$  This does not exclude the possibility, however, that subjects sometimes carry a topic feature, triggering additional movement to the specifier position of CP (Zwart 1991c).

The minimalist approach, then, suggests that a distinction be made in Dutch syntax between subject initial main clauses on the one hand, and topicalizations and wh-constructions on the other hand.

## 4.2 Problems of the Standard Analysis 2

In section 3.3, it became clear that certain aspects of the traditional analysis of Dutch are problematic, even from the point of view of the theoretical framework underlying it (the Government and Binding framework). In this section, I will show that these aspects make the traditional analysis downright untenable from the point of view of the minimalist approach.

#### 4.2.1 INFL

In the traditional analysis, it was assumed that the functional heads host inflectional *morphemes* rather than *features*. As a result, in embedded clauses in Dutch the verb must have moved to INFL (assuming that lowering is not an option, but see section 2.3.1). Consequently, INFL had to be located to the right of the VP in Dutch.

In the minimalist approach, the functional heads host inflectional *features* rather than *morphemes*. As a result, verbs are inserted in a structure (by means of Generalized Transformations) in fully inflected form. At some point in the derivation, the verb will have to move to the functional heads in order to check the features associated with its findetional morphology. But this movement may take place before or after Spell Out. Movement after Spell Out is even preferred, by the economy related principle of Procrastination.

Consequently, it is not surprising that the inflected verb should remain in a final position in embedded clauses in Dutch. We may assume that the verb is still in its base position, procrastinating movement into the functional domain. As a result, the position of the verb in embedded clauses in Dutch does not provide a single argument for the location of the functional heads in Dutch.

Recall from section 3.3 that the assumption that the finite verb moves to an inflectional head to the right of VP in embedded clauses is problematic anyhow. The movement is always vacuous, and predicts nonexisting scope phenomena (Reuland 1990b). These problems disappear under the minimalist assumption that the verb does not move in overt syntax in embedded clauses in Dutch.

#### 4.2.2 COMP

We have seen in section 4.1 that the assumption that the finite verb invariably moves to *C* in main clauses in Dutch is untenable in the minimalist approach. It comes as no surprise, therefore, that maintaining this assumption would yield the very problems noted in section 3.3.

In particular, Den Besten's (1977) argument in favor of the generalized verb-to-C analysis based on rule counting is not valid in the minimalist framework, any more than it was in the Government and Binding framework. The minimalist approach is unrestrictive in that it has no rules. On the other hand, it is very restrictive in that every movement must be motivated by a morphological licensing requirement. Economy, in other words, is not an evaluation metric for rule systems,

Economy, in other words, is not an evaluation metric for rule systems, as it was in the Extended Standard Theory, but a principle requiring that every single movement be motivated independently of the total of movements in a particular grammar. For this reason, we cannot conclude from the fact that some movements in Dutch target C, that *all* movements in Dutch target C. Every single movement to C must be motivated independently in terms of elimination of inflectional features.

Tense and agreement appear to be the features triggering verb movement and noun phrase movement in subject initial main clauses. These features are represented in T and AgrS. For all we know, then, the relevant movements target the checking domain of these functional heads, not the checking domain of *C*. The adjacency of the subject and the finite verb indicates that the subject and the verb are in the specifier-head configuration of a single functional category, presumably AgrS.

In contrast, other features like [+topic] and [+wh] appear to be relevant in topicalizations and wh-questions. These features are conventionally represented in C(as in Den Besten 1977). For all we know, then, these movements target the domain of C.

Therefore, from a minimalist point of view, the simplest analysis appears to involve two different movements, or, rather, two different targets for movement.

Ås we have seen, this analysis raises the question why verb movement is restricted to main clauses. The answer to this question mentioned in section 3.2 implies that the complementizer in *C* wields some power over the lower functional head so that this head need not be filled when the complementizer is present (cf. Travis 1984, 1991). This contenentize is presented to the hour what bind of the rest of the section of the section of the section of

This answer is problematic, because it is not clear what kind of influence could prevent the lower functional head to be filled. It remains to be seen to what extent this part of the answer is compatible with the minimalist approach. However, the second part of the answer is very much in line with economy of derivation. If movement to the lower functional head is unnecessary because of the presence of the

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Second, if direct objects in Dutch always move to a particular position, sentence adverbs cannot have a fixed position. This was already concluded in section 3.4. In particular, in a typical scrambling paradigm like (1), the direct object must be in a single position throughout, but the adverb must be further to the left in (1a) than it is in (1b). Consequently, it can no longer be maintained that sentence adverbs are always adjoined to VP.
<ol> <li>adat Jan gistoron Marie gekust heeft that John yesterday Mary kissed has</li> <li>bdat Jan Marie gistoren gekust heeft that John Mary yesteriay kissed has</li> <li>"hat John kissed Mary yesterday."</li> </ol>
Third, movement of the direct object cannot target VP, because the position adjoined to VP is not known as a position for licensing inflected elements. In the minimalist approach, it is more likely that the noun phrase movement targets the specifier position of AgrOP (Vanden Wyrgaerd 1989a). This is the designated position for checking the Case features of the direct object. Assuming that the N-feature of AgrO is the noun burden in Dutch, the need to eliminate these features yields a trigger for the noun burden compared in Dutch.
We have seen in section 3.4 that scrambling in Dutch has one property of A-movement: it creates the configuration needed for parasitic gap licensing. If we now assume that scrambling is movement to a position where Case is checked, we expect scrambling to look more like A- movement. Much recent research suggests that this is in fact the case, as are add pointed out in section 3.4. I will return to this issue in section 1V > 2.
Finally, if neither scrambled noun phrases nor sentence adverbs are adjoined to VP, object clitics (which appear to the left of both scrambled noun phrases and sentence adverbs) cannot be adjoined to VP either. This accords well with the generally held idea that clitics must adjoin to a functional head (Baitin 1982, Kayne 1991, Sportiche 1992).
4.2.5 Extraposition
In the standard analysis, it is assumed that elements appearing to the right of the verb in embedded clauses have undergone movement to the

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the the right (extraposition). This was shown to be problematic because ß nave undergone extraposed' clausal complements are not islands. right of the verb in emb In the standar

features, and for this reason they must target designated positions. There In the minimalist analysis, extraposition is an impossible movement. All movements must be triggered by the need to eliminate inflectional

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complementizer, this movement is automatically blocked by economy of derivation (Zwart 1991a).

time, we may conclude that, as before, the complementary distribution of the complementizer and the fronted verb does not provide an argument for We will return to this problem extensively in chapter III. In the mean

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the generalized verb-to-C movement.

## 4.2.3 The Specifier Position of CP

In the standard analysis, the specifier position of CP must always be filled. This is unexplained, even if the observation takes the form of a language particular and construction particular 'verb second constraint' (Vikmer 1991a).

domain. Each of these movements must be explained independently in A verb second constraint may match the observations, but should be derived in terms of movement of heads and phrases to the functional

terms of eliminating strong inflectional features. These explanations, then, provide the real challenge for the analysis of Dutch syntax. These explanations should take into account the differences existing between subjects and topics in Dutch that were briefly mentioned in section 3.3. These differences suggest that different features are involved in topicalizations and subject initial main clauses. If so, movement must target different positions in each case.

## 4.2.4 Scrambling and Clitics

phrase across a sentence adverb. The scrambled category adjoins to the VP, but to the left of the clitics (which are adjoined to the VP as well). A basic assumption of this analysis is that sentence adverbs have a fixed In the standard analysis, scrambling is optional movement of a noun position.

Every movement is triggered by the need to eliminate a strong feature. If optional, since the derivation will only converge when it takes place. The fact that the direct object and the verb (in embedded clauses) are not necessarily adjacent in Dutch indicates that at least sometimes the direct object moves away from the verb. Consequently, we must assume that direct objects in Dutch always move to a particular position. In other there is a strong feature that must be eliminated, movement cannot be First, optional movements are not allowed in the Minimalist Program In a minimalist approach, this analysis cannot be maintained. *w*ords, scrambling may seem to be optional, but in fact it is not.

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movement is blocked, the strong V-feature triggering the movement would not be eliminated, and the derivation would crash at PF.<sup>5</sup>

(triggering XP-movement). Assuming that the verb in (1) and (3) is in a derived position, there must be an N-feature triggering movement of the In subject initial main clauses, the subject is adjacent to the finite heads carry both V-features (triggering head movement) and N-features Therefore, something else must be going on. Recall that functional subject to a position in the functional domain in at least (1) and (3).

verb:

altijd kust Marie always kisses Mary , Jan John ତ୍ର

hosting the finite verb. If the finite verb moves to AgrS, the subject must This suggests that the subject is in a local licensing relation with the head

In this position, the N-features of AgrS are checked off against the inflectional features of the subject (person, number, and Case).<sup>6</sup> These Nfeatures, therefore, must be strong. If so, it is expected that the subject be in the spec position of AgrS.

occupies the spec position of AgrS in embedded clauses as well. (4)

The hypothesis that the N-features of AgrS are strong appears to account for the distribution of the subject. But how does this explain the distribution of the finite and non-finite verb? Apparently, this verb This is only possible if the V-features of AgrS (or T) are not themselves movement must be a subsidiary movement, required only as a last resort. suggests that this is indeed the case.

chapter III. The phenomena of complementizer agreement will be crucial to the analysis presented there. It will turn out that the functional head AgrS moves to C if and only if C is present, and that this AgrS-to-C movement obviates V-to-AgrS movement. I will argue that AgrS-to-C movement has a morphological reflex in the phenomenon of How exactly this works out will be the main problem to be studied in complementizer agreement in various dialects of Dutch. strong.

Let us next consider the distribution of elements in topicalizations and wh-constructions. These constructions show subject-verb inversion:  $^{6}$  For the same reason, assuming that the verb moves to C in (1) and (3) does not solve the problem why verb movement is restricted to main clauses.

" The picture is slightly more complicated if the N-feature for Case is represented in T.

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Marie Mary Marie Mary Jan kust John kisses Weer d છ

John , an lusses J kust Weer again فد

Again John Masses Mary."

Waarom Jan kust Marie? why John kisses Marie Waarom kust Jan Mari \* લં Ē

Jan Marie? John Mary فہ

why kieses John N "Why does John kies Mary?"

(1992) proposes to include features like [+topic], [+wh] in the set of Chomsky 1977) that topicalization and wh-movement involve movement to the CP-domain, these features must be characterized as N-features of of the clause. In the minimalist approach, these movements must be triggered by the need to eliminate a morphological feature. Chomsky morphological features. Assuming (with Koster 1975, Den Besten 1977, Topics and wh-elements typically move to a position in the left periphery the head of CP, C.

The sentences in (6)-(7) suggest that the features [+topic] and [+wh]are strong in Dutch.7 This would explain the preposing of the nonsubjects.

But again, this does not suffice to explain the distribution of the verb in these constructions.

Now we may assume that C also has a strong V-feature associated with topicalization and wh-movement, such that verb movement to C is required whenever the [+topic] feature or the [+wh] feature are present in topicalizations do not, or not always, require verb movement, could then be explained as an instance of parametric variation of the strength of the (i.e. in topicalizations and wh-constructions). The fact that English relevant features in C. Compare (6) with (8): ç

Again John kissos Mary \* Again kissos John Mary نم ته 8

For the moment this will suffice as an hypothesis, but we will see in section III.5.3 that this analysis must ultimately be rejected for an analysis linking the verb preposing in topicalizations and wh-constructions to AgrS-to-C movement.

Let us next consider scrambling and clitic placement.

<sup>7</sup> Watanabe (1992) suggests that the wh-feature is universally strong. He argues that in so-called wh-in-situ languages like Japanese the wh-feature is eliminated by movement of an empty operator to the spec position of CP.

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	A MINIMALIST APPROACE
(1992) clause	
wed to ent can	Kecall that there are two sets of extraposition facts. Ulausal complements must appear to the right of the final verbal position:
isitable	(10) adat Piet zei dat Jan Marie kuste
that if	that Pete said that John Mary
section	
ated as	that Pets that
un cron na Ivsis	All other extranosed material may also annear to the left of the final
	verbal position (illustrated here for adjunct clauses):
2 TIXE 8	dat Jan Mania Inuta taan dafilm
	4
	".that John Mary when the movie started." h dat Jan Mania taan da film haaan baste
	that John Mary when the movie started
	".that John Resea Mary when the movie started."
	cdat Jam toen de litte begon Marre kuste that fahn mkan the manie structed Marre Lissad
	t John Mary when the movie started.
vement.	
(AD)	that when the movie started John Mary Missed
that the	"that when the movie started John Jassed Mary."
e object	₩₩
	We may set the latter category apart, and consider them to be ireely
strong.	generated in the course of a derivation. We must make the same
een the	assumption to account for the fact that adverts occupy various positions
jject. In	in the scrambing paradigm.
ould be	Ulausal complements, on the other hand, appear to be internal
	arguments of a verb. An implicit assumption in the minimalist approach
enerate	is char there are a reaction and the short of the short o
nce. But	argument, it no movements take place, then, the vero and the complement
ed, they	clause are both in their initial positions in (10a).
d by the	Do complement clauses undergo movement? To answer this question,
ar what	we should look for inflectional features associated with the complement
domain	clause, and for functional projections in which these features should be
on that	incensed. In the absence of established knowledge in this respect, we chould envired that summismust along at loss three of the Durich time.
h. Some	שוטענע נטאומועני ניומי נטאוענינעניעני שמטפט, מי זכסטי עוטפר טי געב די מענע נין דין
possible	" See Kaan (1992) for an analysis of 'extruposition' of these elements.

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citics undergo head movement, they can only adjoin to the left. In se-III.2, I will adopt Sportiche's assumption that clitics are generate functional heads. On the other hand, the prohibition of right adjun of clitics of Kayne (1993) will turn out to be problematic for the ana proposes that clitics are generated as functional heads in the cl structure. However, also in this analysis, clitics must be allow be accounted for in terms of feature checking requirements, as is desi in a minimalist approach. Kayne (1993) argues that clitics are subj what we have called the Extended LCA (section I.3.3). It follows th undergo head movement. It is not clear whether this clitic movemen Clitic placement is not addressed in Chomsky (1992). Sportiche

In contrast, the Minimalist Program appears to fit scrambling glove. Consider the standard scrambling paradigm in (9): of cliticization in Germanic.

- (9) a.
- فد
- ...dut Jan gisteren Marie gekust heoft that John yesterduy Mary kissed has dat Jan Marie gisteren gekust heeft that John Mary yesterday kissed has "..that John kissed Mary yesterday."

must also be present in (9a). The obvious hypothesis, therefore, is th Recall that the minimalist approach does not allow optional move Consequently, the movement of the object which is clearly visible i N-feature of AgrO is strong in Dutch, triggering movement of the to the specifier position of AgrOP.

If this is correct, the N-features of both AgrS and AgrO are s Chomsky (1992:11) argues that there should be a symmetry betwee other words, the feature specifications of both Agr heads shou identical, in the ideal case. This appears to be the case in Dutch. Consider the consequences for adverbs. It must be possible to ger the inflectional systems associated with the subject and the obj

need to license inflectional features. But at present it is unclear features are associated with adverbs, and where in the functional d these features would be represented. Therefore, the assumption these in various positions in the course of the derivation of a sentenc this is an attractive consequence. If adverbs are not freely generate too must undergo movement. This movement should be triggered adverbs are freely generated is not unattractive.

Many other problems are associated with scrambling in Dutch. of these will be discussed in section IV.2.2.

in the minimalist approach, as we have seen. There is no known specifier to the right of the VP in which the features of extraposed elements could Turning to extraposition finally, this type of movement is not possible

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do not undergo movement.<sup>9</sup> This is corroborated by the fact that these clauses are not islands, as we have seen.

The observation that clausal complements in Dutch are not islands must be accounted for in terms of bounding theory. I will assume, following Chomsky and Lasnik (1991), that the notion of L-marking (Chomsky 1986b) is crucial in this respect. I will make the following assumptions. A maximal projection is transparent only if it is Lmarked.<sup>0</sup> A projection is L-marked only if its siter is an L-related head. A head is L-related only if its a lexical head or a functional head hosting features associated with a lexical head. Hence, clausal complements are L-marked by the lexical head V if they are in their basic position. If this is correct, it may very well be the case that Dutch has a basic

If this is correct, it may very well be the case that Dutch has a basic SVO structure. In the next two chapters, this minimalist analysis of the syntax of Dutch will be developed in more detail. <sup>9</sup> It is conceptually attractive to assume that clausal complements have a licensing position in the functional domain just like nown phrase complements do. If so, the facts from Dutch inclues that the licensuity position for clausal complements is not the same as the licensing petition is roum phrase complements.

<sup>16</sup> Following what was said in section I.3.1, "transparency' relates to chain formation rather than to movement. Thus, an empty category (trave) in a transparent phrase can be interpreted as a trace of the moved category, because the empty category and its untecodent that the same local domain, or because nothing prevents greatention of an informediate empty element in a peripheral position of the phrase containing the trace, which can serve as a link between the trace and its antecedent in case they are not in the same diate as a link between the trace and its antecedent in case they are not in the same local domain. It a pacedes phrase, generation of such an intermediate empty category linking the trace and its antecedent.

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## VERB MOVEMENT IN DUTCH: The Position of the Functional Heads

I have argued in section I.3.3 that the most straightforward implementation of the Minimalist Program does not involve a directionality parameter. This is also expressed in the extended version of the Linear Correspondence Axiom of Kayne (1993) (the *ELCA*).

The more detailed discussion of the phenomena of Dutch syntax in this chapter and in chapter IV will start from that angle. Many aspects of the standard analysis are built on the assumption that Dutch is an SOV language. In connection with this, it is also generally assumed that the functional heads in Dutch, with the exception of C, are generated to the right of the lexical projections. I will take issue with these two basic assumptions.

In this chapter, I will present several arguments in support of the idea that the functional projections in Dutch are head initial. These arguments include an analysis of the preposition/infinitival marker te (section 1), ditics in Dutch (section 2), complementizer agreement (section 3), and the position of the verb in subject initial main clauses (section 4) and in inversion constructions (section 5). In the course of this chapter, an analysis of verb movement in Dutch will be developed, in which the verb moves to AgrS in subject initial main clauses, and to C in inversion constructions (cf. section II.4.3).

The position of the lexical heads will be discussed in chapter IV.

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VERB MOVEMENT	As a preposition, te could take a deverbal noum as its complement. <sup>3</sup> In Old Brglish, Old High German, and Middle Dutch, and to the present day in certain dialects of Dutch, the prepositional status of $\varepsilon$ in this combination is apparent from the dative Gase morphology on the infinitival, yielding forms like $\varepsilon$ lesene. <sup>4</sup> These aspects of the history of $\varepsilon$ do not necessarily affect the analysis of present day $\varepsilon$ as an infinitival marker, generated in INFL. However, infinitival verbs do not strictly speaking require the presence of $t_e$ . Te is combinated in a number of contexts, listed below. The invariant morphological element in infinitival verbs in Dutch is not $t_e$ , but the suffix (e)n. If inflectional morphemes were generated in INFL, $\cdot(e)n$ , not $\varepsilon_e$ , should be generated there. Te is excluded in the following contexts:	<ul> <li>infinitival main verbs</li> </ul>	<ul> <li>Jan Marie ("te) kussen? Dat nooitl</li> <li>John Mary to läss that never "John läss Mary? Never!"</li> </ul>	<ul> <li>infinitival imperatives</li> </ul>	<ul> <li>("Te) stoppen!</li> <li>te stop</li> <li>"Stop!"</li> </ul>	<ul> <li>infinitivals used as subjects or objects<sup>6</sup></li> </ul>	<ul> <li>(3) a. ("Te) kussen is leuk</li> <li>to käs is finn."</li> <li>"Xisaing is finn"</li> <li>b. "Jan Mario ("te) kussen leerde</li> <li>that John Mary to kas taught</li> <li>"that John taught Mary Jässing."</li> </ul>	<sup>a</sup> Historically, the Indoeuropean infinitive is coasidered to be a verbal noun in the accusative Case, eading in <i>-onor</i> , where <i>-m</i> is the accusative Case suffix, <i>-no-</i> a nominaliring affix, and <i>-</i> a binding vowel (Krahb-Weid 1969.116). In Germanic, the or nor to the ording was lost, in North Germanic tho <i>-n</i> of the nominaliring affix was lost as well. In West Germanic, the infinitive appears to have been aligned with other nours, acquiring a full set of Case eading. <sup>4</sup> Yaancker (1963:142), Landheer (1951:78), Bayer (1993), and references diod there. <sup>6</sup> In the b-sentence, the infinitive occurs to the left of the matrix verb, like object NP3. When the infinitively appears to the right of the matrix verb, like object NP3. When the infinitival, and te is possible: dat <i>Van Marie lerred</i> ( <i>to</i> ) kuser that John taught Mary to biest infinitival, and te is possible: dat <i>Van Marie lerred</i> ( <i>to</i> ) kuser that John taught Mary to biest.
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## 1 The Syntax of te

The Dutch morpheme *t*e, a cognate of English *to* and German *zu*, is generally considered to be an infinitival marker. On the assumptions underlying the standard analysis of Dutch syntax, *t*e must be generated in DFL. Since *t*e invariably appears to the immediate left of the infinitival verb, the standard analysis of infinitival constructions involves raising of the infinitival verb to DFL, with right-adjunction of the verb to *t*e. As noted by Giusti (1991), this analysis, though generally adopted, has

As noted by Giusti (1991), this analysis, though generally adopted, has never received any empirical justification. Giusti attempts to fill that gap by proposing an analysis of infinitival preposing in German which crucially relies on the assumption that infinitival verbs adjoin to *zu* in INFL.

In this section, I intend to argue for two points. First, ke is not an infinitival marker and is not generated in INFL. Consequently, the adjacency of ke and the infinitival verb does not support rightward movement of the infinitival verb and adjunction to ke in INFL. Second, the infinitival preposing facts studied by Giusti have no bearing on the issue of the position of either ke or INFL.

### 1.1 The Status of te

## 1.1.1 Origin and Distribution of te

There is little doubt that the Dutch morpheme  $t_{\sigma}$ , commonly characterized as an infinitival marker, originated as a preposition. This preposition, taking dative complements, is morphologically related to English  $t_{0}$ , German zu, and Gothic du. Its meaning would be roughly equivalent to *towards, onto, at,* and  $f_{0}r^{.1}$ .  $T_{\sigma}$  as a preposition is no longer in productive use in Dutch, except in combination with place names (te Groningen 'in Groningen').<sup>2</sup>

<sup>1</sup> Other infinitival markers like Scandinavian at(b)(ad), French à, Flemish var, and the morphomes on (Dutch), um and am (German, cf. Bhatt and Schmitt 1993), and for (English) dorive from prepositions of the same semantic field.
<sup>3</sup> Te doos figure in idiomatic expressions like thuis < te huis '(at) home'.</p>

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- nominal infinitives
- wordt vervelend becomes boring meisjes (\*to) kussen girls to kiss Dat alsmaar meisjes (\*te) kuss that all the time girls to kies "This kissing girls all the time gets boring." £
- complements of auxiliary verbs .
- Jan wil Marie (\*te) kussen John warts Mary ta kiss Jan komts to kiss Mary Jan komt Marie (\*te) kussen John comes Mary to kiss John comes and kisses Mary. đ 6
  - ف
- complements of perception verbs and causative verbs<sup>6</sup>
- ("te) kussen to kiss ಡ 6
- ("te) kussen to Jaiss Piot ziet Jan Mario (\* Petc sees John Mary tx "Peot sees John Mary." "Piot Laat Jan Mary tx Pete lets John Mary tx "Petc lets John Kasy Mary." ݥ.

Te is required in the following contexts:

- complements of prepositions and nouns
- \_door Marie \*(te) kussen by Mary to kiss ь e
- ف
- by Mary to fiels "...by kissing Mary: "...by kissing Mary: John holds there of Mary to kiels "John loves it to kiels Mary." de mogelikthetid Marie "(te) kussen the possibility of kielsing Mary" ი

\* In Middle Dutch. & was not excluded in the complement of causative doen 'do': doen te weren 1et know' (Stoett 1977:203).

VERB MOVEMENT

- in tough-constructions<sup>7</sup>
- Marrie is moeilijk "(te) kussen Mary' is bard to kiss Ber vraso and do as in "(te) ontvangen A vaso OM the sahes in to receive "A vase to receive the sahes in." ಕ á 6
- in gerundives
- d 6
- dat... that Marie is "(te) vertrouwen Mary is to trust "Mary can be trusted." En dan "(te) bedenken di and then to think th ف
- in the complement of control verbs<sup>a</sup>
- Jan probeert Marie "(te) kussen John tries Mary to kiss "John tries to kiss Mary." Jan meent intelligent to be John, thinks he, is intelligent." d å (j
- in the complement of certain raising verbs
- Jan schijnt Marie gekust "(te) hebben John seems Mary kissed to have "John seems to have kissed Mary." 3

<sup>7</sup> In Middle Dutch, and still in certain dialects (West Flemish, Groningen) & does not appear in combination with *om* in adjunct clauses: *mosi om zien* beautiful to see (Stoett 1977:204). Alternatively, *om* can be left out in Middle Dutch adjunct clauses: *vate die asschen in tonfare* 'trans the ashes in to receive').

<sup>e</sup> în Flemish dialects, *t*e appears to be abseat in certain cartrol complements (cf. De Rooij 1969).

VERB MOVEMENT 103	1.1.2 Further Properties of te	It is tempting to consider Dutch te as a prefix attached to an infinitive. However, there are at least four reasons not to describe te as a prefix. First, as shown by the distribution of te in 1.1.1, te appears to have the syntactic function of a complementizer/preposition. Such elements are not generally described as prefixes, but as (functional) heads. Second, te and the infinitive can be separated in certain dialects of Dutch, especially Gronings (Schuurman 1987).	<ul> <li>(14) a. Zai begon te toavel schoon moaken she started to table clean make "She started to clean the table."</li> <li>b. Hai zat te lean teahe."</li> <li>b. Hai zat te newspapers read "Ele was reading newspapers."</li> </ul>	Schuurman (1987) observes that this construction does not have most of the expected properties of incorporation constructions. For instance, as is clear from (14b), the noun phrase intervening between <i>te</i> and the infinitive can be marked for number. Also, the intervening constituent can be a complete Small Clause:	(15) Hest volk genog te heu in schuur bringen? inve-2SG people enough to hay in barn bring "Do you have enough poople to bring the hay into the barn?"	These and other phenomena studied in Schuurman (1987) make it unlikely that the Groningen construction is an instance of incorporation. Consequently, & cannot be a prefix attached to the infinitive here. Third, te can in some dialects appear on the 'wrong' infinitive (Vanacker 1969):	 bom te komen werken for to come work "to come and work."	The complementizers on (Standard Dutch) and voor (Southern dialects) introduce adjunct clauses or control complements. Te is required on the infinitive heading the complement of these complementizers. In the sentences in (16), this infinitive is an auxiliary verb <i>komen</i> (come. This verb does not require $x$ on the head of its complement (cf. (5b)). The construction in (16b), therefore, is as expected. In (16a), $x$ appears to have
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in durative constructions<sup>9</sup>

Jan staat Marie "(te) kusecu John stands Mary to kiss "John stands and kisses Mary, "John kisses Mary (for some hime)." ឡ

in infinitival questions

wist niet wat "(te) doen (13) a.

knew not what to do Jan wist niet wat "(te) John knew not what to do "John didn't know what to do." Wat "(te) doen?

۵.

"What should we do?" ta G what

In all of the examples (1)-(13), the non-finite tense on the verb is expressed by the morpheme -en. This, then, appears to be the infinitival morpheme. Like all tense markers in Dutch, -en is a bound morpheme

appearing as a suffix to the verb. Te, on the other hand, may be present or absent, depending on the configuration in which the infinitival verb appears. Te, then, appears to be involved in expressing a syntactic relation rather than tense. In this respect, te looks like a complementizer or a preposition, more than like an inflectional element.

of an infinitive, but not that the tense features of the infinitive are represented in te. Also, the intimate connection between te and the infinitival may be due to the circumstance that te is no longer productively used as a preposition, rather than to the presence of infinitival features as a tense marker rather than as a preposition. However, this would be strange given the fact that there is a clear infinitival marker -en on Dutch This does not exclude the possibility that te in Modern Dutch functions infinitives, and given the fact that te is excluded in a number of contexts where infinitivals appear. What we can say is that te signals the presence in te.

In the next subsection, I will investigate the properties of te in a little more detail. <sup>9</sup> If the durative verb is an infinitival, le is optional. Jan heeft Marie staan (us) kussen '(lit.) John hus Mary stand (to) kiss', John kissed Mary (för a while). This also happens whenever the durative verb is in the complement of the auxiliary hebben 'huve'. In that case the durative thes always take the form of an infinitival instead of a past purticiple (the Infinitivius Pro Participio or IPP effect).

VERB MOVEMENT 105	On the other hand, one 20 suffices when the two infinitives share the same object: (20)om boeken te kopen en (te) lezen	for books to buy and "to buy and read books."	When one of the infinitives is a particle verb and the other is not, <i>te</i> cannot be left out when the two infinitives are coordinated:	(21) aom kinderen op te voeden en "(te) verwennen for children up to feed and to spoil	to reuse and spoul chuidren." bom Einderen to krijgen en op *(te) voeden for children to get and up to fred ".to get and spoil children."	But when the two verbs are construed with the same particle, <i>te</i> can be left out again:	(22)om_ dat bericht door te faxen of ((door) te) bellen for that message on to fax or on to call	".to forward that message by fix or phone."	Apparently, a complete parallellism between the two infinitives is required for leaving out the second $te$ . This suggests that leaving out $te$ is an instance of gapping. If so, $te$ cannot be a bound morpheme. This methods of a non-non-non-non-non-non-non-non-non-non	LOIS SULLOSS AS AL ARGUMENT AGAINST ANALYZING & AS AN INDULTIVAL marker. A more positive approach to the phenomena at hand will not be	attempted here. An interesting suggestion might be that te started out as a preposition/complementizer, on a par with at in Scandinavian and to in English. <sup>13</sup> The combination of te with the infinitival complementare on is considered at the construction is Missilly Durity (Gaust 1007).	present day Standard Dutch, however, te is regularly combined with om	in infinitival clauses (with the exception of raising complements and control verbs selecting states like <i>mener</i> think?). Apparently, the syntactic	function of te has changed. One possibility could be that te has been	reduced to a cluck. Anis may be supported by the observation that z, unlike English zo, cannot be stressed. I will leave this as a subject for	intucer schoy.	<sup>13</sup> See Lencho (1992) for arguments that to is a complementizer.	<sup>16</sup> Possibly, the reduction of <i>t</i> e to clicic status has not been completed in the Grouingen dialect. This makes it unnecessary to analyze the Groaingen phenomena studied in Schuurman (1987) as incorporation phenomena.	
 																			-
104 DUTCH SYNTAX	shifted to the complement of the auxiliary. Let us refer to this phenomenon as $te$ -shift. <sup>10</sup> Te-shift is an unexpected phenomenon if $te$ should be analyzed as a needed of the infinitival work <sup>11</sup>	Fourth, one to suffices for two coordinated bare infinitives. <sup>12</sup>	torn in LA. to live and "to live and die in LA."	This is impossible with prefixes like perfective ge-:	(18) _om in L.A. geboren on "(ge)storren to zijn for in LA born and died to be "to be born and have died in LA"	The properties of the coordination of <i>te</i> -infinitivals are peculiar and merit further exposition. <i>Te</i> must be present on both infinitives if one of them has an object:	i in L.A. te wonen en kinderen	for in LA to ive and children ".to live and get children in LA."	boum in L.A. kindetren te krugen en "tre) sterven for in L.A. children to get and to die "to get children and die in L.A."		<sup>10</sup> Te-shift appears in purts of East Flanders, Antwerp, and in Belgian and Dutch Erabaar. It is apparently unrohred to Verb Projection Raining, which is predominant in the West of Belgiam (Vanacker 1970). Geel is in the Belgian province of Antwerp, just south of the Dutch part of Erabaat.	$^{\mathrm{H}}$ A possible explanation for the phenomenon of te-shift is that the relevant construction is derived from a construction in which both infinitives have te. According to my observations	of Brubantish, k-shilt is most frequest with auxiliary verbs like <i>sizaa</i> ' stand'. <i>liggen</i> 'lie', zitzen 'sit', etc. These are aspectual verbs, expressing duration. When tensed, these verbs take	an infinitival complement with te. When nontensed, these verbs take a te-less infinitival comolement in Standard Dutch, but te is retuined in several dialects (Shepberd 1946:60 on	Maastricken). If this is also the case in terbift dialects, the relevant constructions could be derived from a <i>te-V te-V</i> order by deletion of the first <i>te.</i> Weijnen (1352:51) reports that	Bredero (1585-1518) allows deletion of either ic in such constructions. I leave this for further study.	<sup>12</sup> Examples with more than two verbs are also possible, as in <i>LA</i> is <i>een moole stad om in te</i> <i>wonen, werken, en sterren</i> "LA is a grest city to live, work, and die in." It about do noted that	no an order spencers accept contrations of ours manuates as an are compression of the judgments are me and several other native speakers from various regions of the country, the judgments are perfectly clear. For others, at least the relative judgments reported in the text are correct.	

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1.2 Preposing of Infinitivals

DUTCH SYNTAX

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In this subsection, I will discuss an argument advanced in Giusti (1991) in support of the idea that INFL is generated to the right of the VP in German. The argument assumes that German zu (Dutch  $z^{2}$ ) is an infinitival marker generated in INFL. I will assume that too, for the sake of the argument. Giusti contends that certain phenomena of infinitival preposing can only be accounted for on the assumption that the infinitival verb raises to INFL and adjoins to zu. The argument is based on German facts, but the facts in Dutch are similar, and both the argument and my refutation of it are applicable to both languages.

#### 1.2.1 Giusti (1991)

In Dutch and German, past participles and infinitives can be preposed. The phenomenon is illustrated in (23) with examples from Dutch:

- Gekust hoeft Jan Marie nict kissed has John Mary not "Join did not KISS Mary" Russen wil kiss wunts John Mary not 'John does not want to KISS Mary." (23) a. **م**,

The preposed element in (23) may include complements of the verb, as well as VP-adverbs:

- Sael Marrie gekust heeft Jan niet quikly Mary kissed has John not "Kiss Mary quiekly is not what John did." Sael Marrie kussen wil Jan niet quiekly Mary diss waats John not "Kiss Mary quiekly is not what John waats." 4 ۵, (54)

It is generally assumed that the sentences in (24) are derived from the representations in (25) by moving the complement of *heeft* 'has' and *wil* 'wants', respectively, to the specifier position of the matrix  $\mathrm{CP}^{10}$ 

<sup>15</sup> I will leave the status of the complement of auxiliary verbs open.

VERB MOVEMENT 109	Second, it is not clear that the initial element in the remnant topicalization cases is really preposed to the specifier of CP instead of generated in a sentence initial position to the left of the specifier of CP (cf. II.2.3). Notice that, at least in Dutch, the so-called <i>d-word</i> optionally appears between the preposed verb projection (or clause) and the verb in C:	<ul> <li>(29) a. Gekust (dat) heeft Jan Marie niet kassed that has John Mary not "John did not KISS Mary."</li> <li>b. Kussen (dat) wil Jan Marie niet kas that wants John Mary not "John does not wants to KISS Mary."</li> </ul>	Following the analysis of topicalization in Koster (1978b), we may assume that in (29) the d-word dat has been preposed, leaving a trace, and that the preposed VPs are generated in a left adjoined position. <sup>17</sup> The d-word analysis is independently needed for examples of VP- preposing where reconstruction of the preposed VP does not give a grammatical result. An example is given in (30):	<ul> <li>a. Meisjes kussen (ant) doet Jan niet</li> <li>(30) a. Meisjes kussen (ant) doet Jan niet</li> <li>Girls kiss taat does Join not</li> <li>Trässing gris is not something John does.</li> <li>b. Jan doet niet meisjes kussen</li> <li>b. John does not kiss gris.</li> <li>a. Dat doet Jan niet</li> <li>c. Dat doet Jan niet</li> <li>a. Thati a does John not</li> <li>That a does John not</li> <li>That a does John not</li> <li>That a does John not</li> </ul>	As can be seen, reconstruction of the d-word does lead to a grammatical result. Surprisingly, the pattern of (30) is repeated when the object of the preposed verb is not part of the preposed constituent:	" See section 5.3 for a more detailed analysis of topicalization.	
DUTCH SYNTAX	scrambled into the matrix clause, because of the opacity of the complement of verbs like <i>ermuntern</i> 'encourage. As a result, preposing of a clausal category like in (26b) will result in (27), not in (26a): (27) Den Bericht zu schruben hat er mich ermuntert has he aeouraged	To make this solution work, another problem must be solved. Suppose we choose to prepose a VP instead of a clausal category in (26a). Then, assuming again that <i>den Bericht</i> can be scrambled out of the VP, (26a) would still be expected to be a grammatical instance of remnant topicalization.	The provide the VP in (26) is completely empty. The proposed category has to be at least an IP, and inevitably contains the scrambled object as well. Hence, (27) is the only grammatical outcome. The upshot of this discussion in Giusti (1991) is that it provides evidence for the following two assumptions:	<ol> <li>The verb moves to INFL in embedded clauses in German</li> <li>IP is head final in German</li> <li>IP is head final in German</li> <li>The first assumption is directly supported by the analysis of remnant topicalization of zwinfinitivals. The second assumption is not directly supported by this analysis, unless it is assumed that scrambling is adjunction to VP. In that case, zw schreiben in (27) would precede den Bricht if IP were head initial, contrary to fact.</li> </ol>	In the react sectory, I will turn out that if topicalization is studied from famil IP in German. It will turn out that if topicalization is studied from a minimalist point of view, the argument vanishes. 1.2.2 A Minimalist Analysis	Giusti's (1991) analysis of infinitival preposing obscures two points that I think are essential to an understanding of the phenomenon. First, it is a remarkable fact that only non-finite verbs can be preposed. See (28), from Dutch:	<ul> <li>a. Schrijven deak ik niet dat hij dat boek wil write think l aot that he that bok wants T don't think he wants to WRITE that book.</li> <li>b. * Schrijft deak ik niet dat hij dat book writes think I aot that he that book</li> </ul>

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niet zot kussen Marie (dat) doet Jan Marie that does John Mary iciss Si Si doet Marie niet does Mary not kiss that does Jol "John does not KUSS Mary." Kussen Jan John Ŧ ,á સં គ្ល

niet aot John does not kiss Mary." Dat doet Jan Marie that does John Mary v

John does not X Mary.

(31c) is only grammatical when a certain verb is present in the context or the discourse so that its lexical content can be subsituted for X in the translation. A similar phenomenon is found in (32)

 Russen? Dat doot Jan Marie niet kiss that does Join Mary not Kiss? That is not something John does Mary.
 # Het is mooi weer. Dat doot Jan Marie It is nice weather. that does John Mary (32) a.

цę Dot Remarkably, constructions with dat as a placeholder for a verb or verb projection are only grammatical when there is at least one verb left:

\*(doet) does Kussen? Dat denk ik niet dat Jan Marie kiss that think I not that John Mary "Kiss? I don't think John does that Mary." 

Let us now consider these phenomena from a minimalist point of view. Two questions should be answered. First, how is it that finite verbs cannot be preposed? Second, why is it that there always has to be one verb left This is reminiscent of the impossibility to prepose finite verbs (cf. (28)). in the non-preposed part of the construction?

features are not checked off against each other, the V-features of the The first question is easy to answer. A finite verb carries a feature associated with the finite inflection. This feature must be checked off against the corresponding features in the functional domain. If these relevant functional head will not be eliminated at the interface levels and The second question can be answered along the same lines. Consider the derivation will crash. Notice that this answer is only valid if the dword is unable to check off the relevant features. So let us assume that. a standard case of remnant topicalization:

niet not Gekust (dat) heeft Jan Marie kissed that has John Mary "John has not KUSSED Mary." (34)

Under the d-word analysis, (34) is derived from (35):

VERE MOVEMENT

niet ] not dat that beeft Marie has Mary Lan John 33)

In (35), the d-word dat is reconstructed in the final verbal position. However, as we have assumed, dat is not equipped with the features needed to match the V-features of the functional heads in (35). For instance, Marie, the object of the understood verb, checks its Case features in the spec position of an AgrO somewhere in (35). This AgrO also has V-features, and these must be checked as well. Dat cannot do that.

'has'. This verb can check off all the V-features present in the functional heads needed in the derivation of (34). In fact, the minimalist approach predicts that in remnant topicalization constructions there always has to be at least one verb left in the non-preposed part of the construction. Without this verb, certain V-features (associated with AgrS, AgrO) would Fortunately, there is another verb left in (35), the auxiliary verb heeft remain unchecked, and the derivation would not converge.

This analysis presupposes a particular organization of the functional domain with respect to the lexical domain. More exactly, it must be embedded clause may be part of the functional domain of the matrix clause. Thus, the AgrO associated with Marie in (35) must not be generated in the embedded clause but in the matrix clause. Only then will assumed that the functional projections associated with elements of an the matrix verb be able to move through AgrO and check the relevant Vfeatures.

to account for the position of the embedded subject and object in Exceptional Case Marking constructions (see also Kaan 1992, Haegeman We will see in section 2 that this assumption is independently needed 1992a). For now, let us assume that this is at least a possibility.

We are now in a position to address Giusti's (1991) argument. Consider again the constrast in (26), now exemplified in Dutch:

- a. \* To kussen heeft Piet Jan Marie gestimuleerd to kiss hus Pete John Mary stimulated (36)
  - Tete stimulated John to KISS Mary." Te kussen heeft Jan Marye niet geprobeerd To kussen has John Mary not tried "John didn't try to KISS Mary." ف

As noted by Giusti, the complements of the verbs that allow the construction in (36b) (like *proberen* 'try', German versuchen) show transparency effects. Giusti mentions clitic placement and scrambling from the embedded clause into the matrix clause as exemples. See (37) for an example of scrambling into the matrix clause in Dutch:

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- -dat that đ 63
- Jan Marrie geproboerd heeft to kussen John Mary tried has to kiss Jan geprobeerd heeft Marrie to kussen John tried has Mary to kiss ..dat à.
  - that John tried "..that John tried to kiss Mary."

assumption made above: apparently the AgrOP needed to check off the the specifier position of AgrOP (cf. section II.4.3), this confirms the features of the embedded object may be part of the functional domain of Since scrambling in the minimalist approach is analyzed as movement to

In contrast, verbs like *stimuleren* 'stimulate' (and German *ermuntern* 'encourage') do not show these transparency effects. Crucially, no scrambling into the matrix clause is allowed: the matrix clause.

- ...dat Piet Jan Marie gestimuleerd heeft to kussen that Pete John Mary stimulated has to kiss "..that Pete stimulated John to kiss Mary." (38) a. \* فہ
  - te kussen to kiss ..dut Piet Jan gestimuleerd heeft Marie that Pete John stimulated has Mary "..that Pete stimulated John to kiss Mary."

This implies that in these constructions the functional projections associated with elements in the embedded clause cannot be part of the functional domain of the matrix clause.

This has a major consequence for remnant topicalization in these constructions. Consider (36a):

gestimuleerd stimulated (36) a. Te kussen heeft Piet Jan Marie to kiss has Pete John Mary "Pete stimulated John to KUSS Mary." In the d-word analysis, (36a) looks like (39a), derived from (39b):

- Te kussen dat heeft Piet Jan Marie gestimuleerd to kiss that has Pete John Mary stimulated [Piet heeft Jan [ Marie dat]] gestimuleerd] Pere hus John Marie that stimulated т т à.

present in the context or the discourse. Marie is a direct object of this verb, and has features to be checked in the specifier of an AgrOP. Since stimuleren 'stimulate' takes an opaque complement, Marie must check its features in an AgrOP inside the complement clause. Consequently, the Vfeatures of the head of this AgrOP must be checked by a verb in the In (39b), as in (35), dat stands for a verb the lexical content of which is embedded clause. But there is no such verb in the embedded clause, just

the d-word dat. As a result, the V-features of the AgrO in the embedded clause will remain unchecked, and the derivation will crash.

terms, in accordance with the minimalist approach. The analysis provides an explanation for the contrast noted by Giusti (1991), but in addition In this analysis, the contrast in (26) and (36) is explained in general explains why preposing of finite verbs is impossible, and why there always has to be at least one verb that is not preposed.

A minor result of this analysis is that Giusti's conclusions as to the infinitivals in German (and Dutch) are not valid. The impossibility of preposing *zu schreiben* and stranding *den Bericht* in (26a) has nothing to preposing zu schreiben robs the embedded clause of its only verb. This *Bericht* is grammatical, because the functional projections associated with the embedded clause are part of the functional domain of the matrix do with the position of zu schreiben. (26a) is ungrammatical because makes it impossible to check the V-features of the functional heads of the embedded clause. In (26b), preposing of zu schreiden and stranding of den clause. This assumption is independently needed to account for scrambling position of INFL and the occurrence of verb movement to INFL in of den Bericht into the matrix clause. As a result, the V-features of the functional heads of the embedded clause can be checked by the matrix verb.

ungrammatical for independent reasons: *den Bericht* has been scrambled out of an opamie Amain Tr. out of an opaque domain. The correct paradigm is (26)' below:

- "Zu schreiben hat er mich ermuntert den Bericht to write has he me encouraged the Report "Re accouraged me to write the report." Zu schreiben hat er den Bericht versucht to write has he the report tried ಡ ه. (26)
  - "He tried to write the report."

It is clear that (26'a) is wrong for the same reason that (28b) is wrong. There is no verb left to remove the V-features of the functional heads of the embedded clause.

This analysis predicts that (28b) becomes grammatical again when the embedded clause contains a second verb selecting a transparent complement. This is correct.

te proberen to try Te kusson heeft Piot Jan gestimulcerd Marie to kiss has Pete John stimulated Mary "Pete stimulated John to try to KISS Mary." <u>6</u>

Compare also the following (Dutch) contrast:

		VERB MOVEMENT 115
		2 Clitics in Dutch
paque		In this section, and in the following sections, I will provide positive evidence in support of the hypothesis that the functional projections in Dutch are head initial. The first piece of argumentation comes from an analysis of clitic plenomena in Dutch.
bben e bben	·	weak pronouns in Dutch and conclude that they are syntactic clitics (section 2.1.). Second, I will discuss the categorial status of clitics, and adopt the hypothesis that clitics are generated as heads of functional projections (section 2.2). It then follows from the distribution of the clitics in Dutch that there are functional heads to the left of the VP in Dutch. In
re, in left to in the		section 2.3, an attempt at a minimalist analysis of clitic placement will be made. The argumentation goes back to Zwart (1990b), and has been developed in subsequent work (Zwart 1991a, 1992b). <sup>1</sup>
n that draw fverb		<ol> <li>The Status of the Weak Pronouns in Dutch</li> <li>I.1 Types of Clitics</li> </ol>
as an hat <i>te</i> prove r that		In Zwicky's 1977 discussion of clitics from the point of view of generative syntax, three classes of clitics are distinguished: <i>simple clitics</i> , <i>special</i> <i>clitics</i> , and <i>bound words</i> are unaccented bound morphemes that can be associated <i>Bound words</i> are transcented bound morphemes that can be associated with a variety of hosts, like Latin <i>-que</i> 'and'. <i>Simple clitics</i> are phonologically reduced free morphemes that show no special syntax, like English 'im in (1):
srated is not ced in rom a		(1) I can't stand'im [stronm] Special cliftics are unaccented bound forms that act as variants of stressed free forms, and show special syntax, like French le in (2):
II.3.1 hesis, ation, VFL in pirical ccious		<sup>1</sup> Jaspers (1969) was the first to conclude from the distribution of clifics in Dutch that there must be functional heads to the left of VP in Dutch. However, his conclusion is not generalized over all functional heads in Dutch. Hangeman (1991) applies the analysis of clifics in Dutch of Zwart (1991a) to West Flemish and reaches identical conclusions as to the position of the functional heads. See also Cardinaletti and Roberts (1991) and Cardinaletti (1992a) for the functional heads. See also Cardinaletti (1992b) for the functional heads. See also Cardinaletti and Roberts (1991) and Cardinaletti (1992b) (Further discussion of clifics in Germanic.

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. а. 31

Marie Mary wijsgomaakt wise-made Gelcust to hebbon heeft Piet Jan wijsg kissed to have hus Pete John wise-n "Pete made John believe to have kissed Mary."

te hebben to have Gekust beeft Piet Jan wijsgemaakt Marie kissed has Pete John wise-made Mary "Pete made John believe to have kissed Mary." has Pete John wise-made ò.

Like *stimuleren* 'stimulate', *wijsmaken* 'make believe' takes an o<sub>l</sub> complement:

gokust to he kissed to have \* -dat that (42) a.

gekust te hek kissed to have Fiet Jan Marie wijsgemaalt heeft Peek John Mary wis-made hus Piet Jan wijsgemaalt heeft Marie Peek John wiss-made has Mary -dat that ف

Marie in (42) cannot be scrambled into the matrix clause. Therefo "..that Pete made John believe to have kissed Mary."

(41a) Marie is stranded in the embedded clause, without a verb check the V-features of AgrO. In (41b), the auxiliary is left behind embedded clause, and the construction is grammatical again.

(28b) is ungrammatical. Hence, this paradigm does not allow us to In short, (26'a) and (41b) are ungrammatical for the same reaso conclusions as to the position of INFL in Dutch or to the occurrence o movement to INFL in infinitival constructions.

#### 1.3 Conclusion

or suggest that INFL is generated to the right hand side of the VP, of the infinitive raises to INFL in embedded clauses. However, even if we assume that te is an infinitival marker, gene infinitival marker, generated in INFL. Consequently, the fact th There does not appear to be a compelling reason for analyzing te invariably appears to the immediate left of the infinitive does not

supported by any empirical considerations. The argument advanc Giusti (1991) disappears once the phenomena are considered fr in INFL, the hypothesis that INFL is located to the right of the VP minimalist perspective.

This ties in with the observations made earlier in section concerning the hypothesis that IP in Dutch is head final. This hypot I concluded there, is not supported by empirical argument considering the fact that the proposed movement of the verb to D embedded clauses is always vacuous.

argumentation in support of the hypothesis that the functional projections In the remaining sections of this chapter I will consider some emp

in Dutch are all head initial.

		VERB MOVEMENT	117
	(9)	Weak subject pronouns	
ifficult to tell apart. mini raduction as in		ISG R IPL we 28G jo 2PL - 3SG ie/ze 3PL ze	
bran reuceach, an an	£	Strong object pronouns	
·		ISG mij 1PL ons 2SG jou 2PL jullio 3SG hem/haar 3PL bea, hun	
elated to unreduced	(8)	Weak object pronouns <sup>3</sup>	
t case, they may be al syntactic status in		ISG mo IPL - 2SG ie 2PL -	
by its full variant:			
zibed in phonological 6. Ascribed in terms	The que compare as simpl	The question arises whether these weak pronouns show special syntax compared to the strong variants. In other words, should they be regarded as simple clifics or as special clifics in Zwicky's terminology?	cial syntax be regarded
	2.1.2 PI	2.1.2 Phonological Reduction	
ing strong variants:	Berends from the is baset specialit they ara is not a for a generi	Berendsen (1986) argues that the weak pronouns in Dutch are not derived from the strong pronouns through phonological reduction. His argument is based on the observation that the weak pronouns may have a specialized meaning which the strong pronouns lack. This indicates that they are stroned in the lexicon as weak pronouns, and that their weakness is not a result of phonological rules. For example, the weak forms of the 2SG and 3PL pronouns may have a generic interpretation ('people'), but the corresponding strong forms may	not derived s argument ay have a licates that ir weakness s may have s forms may
s in French are not simple paration blocks full variants trem of intonation does not a, the pattern of intonation om that position, as in <i>tuez</i> -	(9) 4 4	Ze zergen zoveel they say somuch "They/people say a lot." Zij zegren zoveel they say somuch "They/*people say a lot."	
	<sup>9</sup> In addit	<sup>3</sup> In addition to the object citics listed here, some dialects of Dutch have a partitive object	artitive object

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DUTCE SYNTAX

le vois him see <u>з</u>...

ଶି

Simple clitics and special clitics are sometimes diff. Simple clitics are obviously the result of phonologic casual speech. Accordingly, in (1) the clitic can b

I can't stand him [stænd him] ଚ

unreduced variant:

But special clitics are often morphologically rely variants as well, as in French *le* and *lui*. In that ( analyzed as simple clitics that have achieved a special some way (Zwicky 1977:6).

Accordingly, the clitic in (2) cannot be replaced by

luí vois him see ក្តី \* €

Thus, the behavior of simple clitics is to be descriterns, whereas the behavior of special clitics is to be

of syntax.<sup>2</sup> The weak pronouns in Dutch, repeated here from obviously morphologically related to the correspondin

Strong subject pronouns 6

1PL wỹ 2SG jullie 3SG zij
ik ji hij/zij
280 DS 280 DS 380 DS

<sup>2</sup> From the facts presented here, it cannot be concluded that clitics i clitics. It may be that the natural pattern of Freach seatence intotatin in certain positions. Elowere, it can be shown that the general patte restrict the occurrence of French clitics. In affirmative impertuives, requires stress on the ultimate, but this does not restrict clitics from *LB* faill him<sup>1</sup>.

clitic 'r some.

VERB MOVEMENT 119	<ul> <li>(13) a. Daar gaat ie/hij</li> <li>there gees he</li> <li>"Here goes. he</li> <li>"There goes. 'he</li> <li>Daar kun je/'jij donder op zeggen</li> <li>there can you thunder on say</li> <li>"You can bet your bortom dollar."</li> </ul>	These examples can easily be multiplied. For example, numerous stock phrases containing a pronoun require the weak variant. The stock phrases in (14) are not of a productive type, and the weak pronouns are obligatory. When made productive, as in (15), the phrases allow both weak and strong pronouns. (14) a. Dank jerjou thank you b. Ben jerjou b. Ben jerjit 1 are	Are you crazy?" c. Denk jo <sup>m</sup> jij? TDe you think so? d. Zie je <sup>m</sup> jij see you "You see." (15) a. Lk dank jefjou	<ul> <li>that you</li> <li>b. Ben jojiji nu helemaal gek geworden?</li> <li>are you now wally crazy become</li> <li>"Are you completely out of your miad?"</li> <li>c. Deark jojii nog welecas ann vroeger?</li> <li>think you still sometimes on earlier</li> <li>"Do you still think of the old days sometimes?"</li> <li>d. Zie jojiji wat ik bedoel?</li> <li>"Do you see what i mean"</li> </ul>	Berendsen argues as follows. Assuming that idiomatic expressions are stored in the lexicon, then under a phonological reduction analysis the pronouns in the idiomatic expressions should be associated with a feature lobligatory reduction! In a lexical storage analysis the weak pronouns are available from the outset and no feature specification is needed. Since the feature [obligatory reduction] is ad hoc, the lexical storage analysis must be preferred. This argument is not entirely satisfactory, because idioms may be stored in the lexicon <i>as phrases</i> (DiScuillo and Williams 1937). If idiomatic expressions for some reason are <i>learned</i> with the pronouns in reduced
118 DUTCE SYNTAX	<ul> <li>(10) a. Je leeft maar één keer</li> <li>you live but oac time</li> <li>"Youtaddressee/you(poople) ouly live once."</li> <li>b. Jij leeft maar één keer</li> <li>you live but one time</li> <li>"You(addressee)/"you(poople) ouly live once."</li> </ul>	Similarly, the weak 3PL pronouns (both subject and object) can be used to refer to both persons and things, whereas the strong 3PL pronouns can only be used to refer to persons (cf. Kayne 1975, 86); <sup>4</sup> (11) a. Ze <sup>4</sup> zij zijn uit voorraad they are out stock <sup>They are out stock</sup> b. Ik hob ze <sup>4</sup> hen gerepareerd <sup>They are them repaired</sup>	This semantic specialization is unexpected if the weak pronouns are derived from the strong pronouns by phonological rules. Hence, it must be the case that the weak pronouns and the strong pronouns, though morphologically related, are stored in the lexicon separately. Berendsen also shows that in ISG and 2SG only weak pronouns are used as SE-anaphora (in the terminology of Reinhart and Reuland 1991). <sup>6</sup> Thus:	<ul> <li>(12) a. It scham me"mij</li> <li>I shame me</li> <li>Tm ashamed.</li> <li>D. Jij schaamt jer"jou</li> <li>you shame you</li> <li>"You're ashamed."</li> <li>Again, if the weak pronouns are phonologically reduced forms of scrong pronouns, this syntactic specialization of the weak pronouns is</li> </ul>	unexpected. In addition. Berendsen argues that separate storage of weak pronouns in the lexicon is needed to account for the fact that certain idiomatic expressions involving pronouns allow only the weak form. The examples Berendsen gives are of the following type: Berendsen gives are of the following type: assumed that people cannot be repaired. * It is assumed that people cannot be repaired.

VERB MOVENENT 121	<ul> <li>(13) Q Qui as tu vu? A LuivLe "Who did you see?" - "Him."</li> <li>In Dutch, the weak pronouns cannot be modified, conjoined, and used in isolation, whereas the strong pronouns can (Kuster 1978a, Everaert 1986):</li> </ul>	<ul> <li>(20) a. Dood hen tween a future a bill them two kill them two b. Dood ze ("tween bill them two ("21) a. Dood hem en haar kill him and her b. Dood hem en haar branches b. Dood hem and her bill him and her bill bill bill bill bill bill bill bil</li></ul>	, heb je ge m'*'m 10 did you : 5:82) in a 7 stresse	<ul> <li>(23) Je la<sup>*</sup>LA préfère</li> <li>I her prefer</li> <li>T prefer her."</li> <li>This is true for the weak pronouns in Dutch also:</li> <li>(24) Dt want you</li> </ul>	However, reduced pronouns in English ('simple cliftics' in Zwicky's terminology) cannot bear contrastive stress either. * There are curious exceptions to this rulo. See note 2 of this section, and the following piece of dialogue I caught in the film "Nuit d'été en ville" (Michel Deville, director, 1991):	<ol> <li>Sha: Tu ne me contair par you NEC me know NEC "for dont knowme."</li> <li>He: Tu ne TE contair par you NEC YOU know NEC "for dont know yourself."</li> </ol>
		·				
120 DUTCE SYNTAX	form, then the fact that they are always used with the pronouns in reduced form does not imply that weak pronouns are stored in the leadoon. It is a common property of idiomatic expressions to require phonologically reduced forms. An example not including pronouns is given in (16). Again, this does not show that phonologically reduced forms are lexically stored.	(15) Hui knuipt m als een ouwervoude dief be piaches him like an old thief Te is very much afraid that he wil be caught. Berendsen's argument implies that ouwe 'old' is also lexically stored separately from oude 'old'. In that case, we seem to be missing a generalization, considering the existence of pairs like gouden-gouwe 'golden', koude-kouwe 'old'.	Nevertucless, perensents o observations do warraurus conclusion that the status of the weak pronouns in Dutch is not due to a phonological reduction operation taking place <i>during sentence production</i> . This forms the first piece of widence that these weak pronouns are 'special cliftic' rather than 'simple cliftics', in Zwicky's terminology.	2.1.3 Heads or Phrases Baltin (1982), building on earlier work by a.o. Kayne (1975:81ff), argues that cliftics are heads (lexical nodes' in his terminology, Baltin 1982:4). According to standard argumentation, this is demonstrated by the fact that cliftics cannot be modified, conjoined, or used in isolation. We can use these tests to determine the status of the weak pronouns in Dutch. However, it appears that these tests are of simple cliftics and simple clifts.	Consider the following examples from French (Kayne 1975): (17) a. Ne tue qu'eux deux NEG kill than TEEY wo "Kill only the two of them." b. Tue-les (eleux) "Kill them two "Kill them two	<ul> <li>(18) a. Tue Jean et Marie kill John and Mary</li> <li>b. Tuc-le ("et la) kill him and ber</li> </ul>

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VERB MOVEMENT 123	to their status as 'weak' elements in general, since the English reduced pronouns perform exactly like unsuspected cliftics in these tests. Nevertheless, it may very well turn out be the case that the weak pronouns in French and Dutch are heads rather than phrases (and possibly this would yield the conclusion that the weak pronouns in English are heads as well). However, this should be decided on the basis of word order phenomena. The crucial test must demonstrate that the weak pronouns occupy positions that cannot be occupied by noun phrases.	2.1.4 Word Order 1 In French, the weak object pronouns occupy positions that noun phrases cannot occupy:	<ul> <li>(31) a. Je le"Fierre vois</li> <li>(31) a. Je le"Fierre vois</li> <li>(31) a. Je him."</li> <li>b. Je vois Fierrevia</li> <li>I see Fierrevia</li> <li>T see Pierrevia</li> </ul>	<ul> <li>(32) a. I./*Pierre as-tu vu ?</li> <li>him/Peto have you seen "Eave you seen him?"</li> <li>b. As-tu vu Pierrewle?</li> <li>As-tu vu Jeerrewle?</li> <li>"Have you seen Pete?"</li> </ul>	<ul> <li>(33) a. Le/"Pierre voir sernit dangereux him/Pete see would be dangerous</li> <li>"To see him would be dangerous."</li> <li>b. Yoir Pierre/"Is sernit dangereux</li> <li>see Pete/him would be dangerous</li> <li>"To see Pete would be dangerous</li> </ul>	Kayne (1975) argues that the weak pronouns differ from full noun phrases in that they are adjoined to V. On the assumption that only heads can adjoin to heads (Baltin 1982, Chomsky 1986b), this would effectively identify the French weak pronouns as heads. As heads, these weak pronouns would have a special syntactic status, and therefore fall in the category of special clifics in the terminology of Zwicky (1977). The English reduced pronouns do not obviously occupy positions that cannot be occupied by phrasal noun phrases: (34) Ive seen im/John
	from simple and use in s clitics and ng reduced		modification, mple clitics corouns with	e that Dutch 1 in Everaert rding to this t):	clitics, since	w us to draw they do not a Dutch. suggest that ion is of great the stressed, to be related

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I want ya''YA'YOU ଶ୍ଚି In other words, this test does not distinguish special clitics fr clitics.

Similarly, the tests involving modification, conjunction, a isolation do not allow us to draw the line between simple ( special clitics. Compare the following examples involving pronouns in English:

- Kill him over there [=that man over there] Kill'm (\*over there) ыр (326)
- Kill him and her Kill'm (\*and 'r) ಕ ಸ 5
- Q Who did you see? А <u>Him'\*\*</u>ш (38)

Thus, the tests for clitic status involving stress, mu coordination, and use in isolation generalize over sim (phonologically reduced pronouns) and special clitics (weak pron

special syntax). Consequently, we cannot use them to argue weak pronouns are special clitics.

This is also true of another test for cliftc status mentioned i (1986) in connection with Dutch weak (object) pronouns. Accort test, cliftics cannot be topicalized (Koster 1978a, Travis 1984):

片고 Hem/"m zie him see "Him. I see." හි

Again this does not obviously identify weak pronouns as c reduced pronouns in English cannot be topicalized either:

#### Him/\*\*m I like (<u>3</u>0)

To conclude, the tests discussed in this section do not allow a line between simple clitics and special clitics. Therefore t serve to determine the exact status of the weak pronouns in

The tests mentioned here are also generally taken to su weak pronouns are heads, rather than phrases. This distinction significance for the nature of the position these pronouns are in or moved to. However, the fact that weak pronouns cannot t modified, conjoined, used in isolation, or topicalized appears to

VERB MOVEMENT 125	(39) C spec.AgrS AgrS spec.AgrO AgrO VP	dat Piet Marie/haur hooft zien kussen	The next question is, where to fit in the subject of the embedded dause. This subject is formally an object of the matrix verb <i>zien</i> 'see'. This can be concluded from the objective case of the embedded subject when it is a pronoun:	(40)dat Piet hem"hij Marie heeft zion kussen that Peto him/he Mary has see kiss "that Pete saw him kiss Mary."	Hence, the embedded subject must be the specifier of an AgrO as well (Vanden Wyngaerd 1989b, Haegeman 1992a). Apparently, this AgrO is located between the AgrS and the embedded AgrO designated for licensing the embedded object:	(41) C spec.AgrS AgrS spec.AgrO AgrO spec.AgrO AgrO VP	dat Fict Jan/hem Maric/haar heeft	The three noun phrases in (41) are moved from positions inside the VP in such a way that their paths cross: <sup>8</sup>	(42) SUBJ-1 SUBJ-2 OBJ-2 [3-1 V-1 [5-2 V-2 6-2]]	Piet Jan Marie zien kussen	As (38) shows, a derivation in which the paths of the embedded subject and the embedded object do <i>not</i> cross crashes. This is surprising, given the observation that dependencies are generally nesting rather than crossing	(resetary 1962).	<sup>9</sup> The auxiliary <i>heeft</i> "has is left out in (42) for expository reasons. The lower case s and o indicate the traces of the subject and object, respectively. The numbers indicate the hierarchy	of the verbs and the affiliation of the arguments with these verbs at the initial stage of the derivation. It is assumed that the subject is first generated inside VP (Kithgawa 1986, Sporthab 1983, many otherse	<sup>9</sup> Pesetsky (1392) formulates a Path Contninneat Condition prohibiting crossing paths. Efforever, this condition was devised for dependencies involving A-positions. If the specificr position of an AgrP is an A-position, we do not automatically expect the Path Containment Condition to be applicable. It appears to be the case that movement to an apreement projection is generally crossing rather than assting (cf. Chomsky 1992:26; Chomsky derives the crossing character of movement to AgrP from the shortest steps requirement of economy of derivation, an option which is not available to us if we abandon the shortest steps requirement, as proposed in section [1,3,1].
DUTCE SYNTAX	Ваve you seen im/John ?	To see im/John would be dangerous	This confirms their status as simple rather than special clitics. <sup>7</sup> As shown in section II.1.5, the weak pronouns in Dutch in certain constructions occupy positions that cannot be occupied by noun phrases (see also Jaspers 1989, Zwart 1991a, Haegeman 1991, 1992a). Maid: in model documents	-	that Pete her John has see kiss "that Pete saw John has Nee kiss bdat Pete Jam 'r heeft zien kussen that Pete John her has see kiss "that Pete saw John kiss her."	adat Fiet Marie/haar Jan heeft zien kussen that Pete Mary/her John hus ste kiss	t Pete saw John kiss Mary/h Piet Jan Maric/haar		In (37)-(38), Jan is the subject of the embedded clause. The object of the embedded clause, Marie/her/'r can precede the subject of the embedded	clause only if the object is a weak pronoun. In the minimalist approach, the paradigm in (37)-(38) must be	analyzed as follows. Assume that the functional domain in Dutch has a syntactic structure as in Figure 1 of section 1.2.2. Recall that we have assumed that in Dutch, direct objects always move to the specifier of Acord Constraint of 1.4.9.	the control arter's the assumption is necessary if we choose not to accept optional movement. Therefore the object of the embedded clause in (38) must be the specifier of an AgrO head. The subject of the matrix	clause in both (37) and (38) is assumed to be in the specifier position of AgrSP (section II.4.3). It goes without illustration here that the object of	the embedded clause cannot precede the subject of the matrix clause. Therefore, the structure of (37) must have the following rough frame:	<sup>7</sup> However, the distribution of noun phrases and pronouns differs in double object constructions and particle verb constructions (cf. Johnson 1991); <i>they looked up the information</i> vs. * <i>they looked up it</i> . This suggests that English weak pronouns are special clitics as well. I will leave this for further research.
124	(35)	(36)	This A const (see	const (37)		(38)			En C emb	clau I	ana. synt assu	1:5 1:5 1:5 1:5 1:5 1:5 1:5 1:5 1:5 1:5	clau Agri	The	<sup>7</sup> Hor const <i>info</i> r clitic

VERB MOVEMENT 127	get its Case features checked. After that, no further movement is allowed, by economy. The weak pronoun moves further to the left. We don't know where it moves and what triggers the movement, but we do know that weak pronoun movement targets a different syntactic position than noun phrase movement. Here we have the kind of evidence that allows us to conclude that the weak pronouns in Dutch are 'special differ' in the sense of Zwicky (1977). Like the differs in French, and unlike the weak pronouns in English, the weak pronouns in Dutch move to a position that cannot be occupied by a full pronoun or a full norm phrase. Consequently, if Kayne (1975, 1991) is correct in identifying the clitic position as a head position, we must assume that the weak pronouns in Dutch occupy bead positions. If so, there is at least one functional head to the left of the VP and to the right of C in Dutch.	2.1.5 Word Order 2	Several other word order phenomena of Dutch support the hypothesis that the weak pronouns in Dutch are (special) clitics.	a. Scrambling Recall from section II.1.5 that clitics cannot appear to the right of sentence adverbials (Koster 1978a):	<ul> <li>(44) adat Jan gisteren Marie gekust heeft that John yesterday Mary kissed has "that John kissed Mary yesterday."</li> <li>bdat Jan ("gisteren) 'r gekust heeft that John yesterday her kissed has</li> </ul>	This fact again shows that clitics and full noun phrases move to different positions. In section II.4.3 I argued that the direct object <i>Marie</i> in (44a) moves to the specifier position of AgrOP. The sentence adverb gisteren 'yesterday' may be adjoined in various positions, both to the right and to the left of the position of the direct object (cf. section 1.3.3). (44b) now shows that the dilite moves to a position where it cannot be separated from the subject by adjunction of an adverb. This gives an indication as to the nature of the position occupied by the clift. We know from subject initial main clauses that the spec of AgrS (occupied by the subject) and AgrS (occupied by the finite verb) cannot be separated:
				<u></u>		•

embedded object cross is to assume that the AgrO designated for licensing One way to ensure that the paths of the embedded subject and the the embedded object is generated in the complement of the matrix verb. However, it can be shown that this would not be correct.

complement clause allow preposing of the *te*-infinitival of the embedded clause with stranding of the object of the embedded clause. Following our reasoning, this should only be allowed if the matrix verb is capable of te-infinitivals one verb always has to remain behind. I argued that this is explained on the minimalist assumption that the V-features associated eliminating the V-features associated with the AgrO designated for licensing the embedded object. This is only possible if the AgrOP in which the embedded object is to be licensed is part of the functional domain of Recall from section 1.2.2 that in constructions involving preposing of with the object of the embedded clause have to be eliminated by this verb. As Giusti (1991) demonstrates, matrix verbs selecting a transparent the matrix verb.

must be in the functional domain of the matrix clause. Crucially, the embedded object in an Exceptional Case Marking construction in West Flemish has to appear to the left of *nie*: negative element nie 'not' in West Flemish (Dutch niet) is in the spec of Liliane Haegeman (1992a) also presents an argument in support of the hypothesis that the 'embedded AgrOP' should be in the functional domain of the matrix clause. This argument is based on the assumption that the NegP (Haegeman 1992b). If *nie* expresses sentential negation, this NegP

- \_dan'k eur da werk aie en-een zien doen that i her that work not NEG have see do "..that I haven't seen her do that job." \* ġ ف (e<del>1</del>
- .dan'k eur nie da werk en-oen zien doen that I her not that work NEG have see do

clause, the AgrO associated with the embedded object must be in the If nie is in the specifier position in the functional domain of the matrix functional domain of the matrix clause as well.

Therefore, the crossing paths in (42) cannot be explained by assuming that the two AgrOPs involved belong to different functional domains. The strict ordering of the two AgrOPs therefore has to be explained in another

appear to the left of the embedded subject when the embedded object is a weak pronoum (37a). This indicates that there are different forces at work here. The full noun phrase object is forced to move to the spec of AgrO to way, which does not directly concern us here.<sup>10</sup> What concerns us here is the fact that the embedded object *does* 

10 See note 9.

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DUTCH SYNTAX

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gekust kissed Mario Mary (\*gisteren) heeft has yesterday John <del>(</del>22)

follows if we assume that the clitic adjoins to AgrS.<sup>11</sup> This approach makes the prediction that the object clitic can appear The strict adjacency of the subject and the object clitic in (44b) now

to the right of the sentence adverb if the sentence adverb appears to the left of the subject. This prediction is borne out:

- (46) a.
- ...dat gisteren Jan 'r gekrast hooft thas yesterday John her Kissed has "Latd John kissed her yesterday." Gisteren hoeft Jan 'r gekrast yesterday has John her kissed Yesterday John kissed her." ݥ.

Notice that movement of the object clitic cannot be forced, in view of the grammaticality of (37b), repeated here:

..dat Piet Jan 'r heeft zion kussen that Pete John her has see kiss "..that Pete saw John kiss her." (91E)

Since the embedded subject Jan is in a specifier position of AgrOP, and sentence adverbs may appear to the left of AgrO, we predict that the presence of a sentence adverb between *Piet* and *Jan* in (37b) will not interfere with the possibility of having a clitic to the right of *Piet*. This prediction is also borne out:

heeft zien kussen has see kiss ..dat Piot gistoren Jnn 'r h that Pete yesterday John her h "..that Pete saw John kiss her yesterday." Ē

I agree with Haegeman (1992a) that the following is ungrammatical:

\* ...dat Piet Jan gisteren 'r heeft zien kussen that Pete John yesterday her has see käss (89)

This sentence is grammatical when the embedded object is a full noun phrase:

<sup>11</sup> See section 2.3 on the issue of the direction of clitic adjunction.

VERB MOVEMENT

Piet Jan gisteren Marie heeft zien kussen Pete John yesterday Mary has see kiss dat Piet Jan gisteren Marie I that Pete John yesterday Mary ? "...that Pete saw John kiss Mary yesterday."

(<del>1</del>3)

. ...

positions. The ungrammaticality of (48) suggests that in (37b), (47) the Again, the object clitic and the full noun phrase appear to occupy different object clitic is adjoined to the AgrO associated with the embedded subject, Jan.

Consider finally a peculiar fact concerning weak pronouns and scrambling, not present in all dialects of Dutch.<sup>12</sup> In section IV.2.2.3, I will argue that indefinite objects in Dutch move to specifier position of assumption appears to be that scrambling is an obligatory movement of movement of definite noun phrases only. The optimal minimalist AgrOP just like definite objects do. This is at variance with the standard analysis of scrambling, according to which scrambling is an optional

all noun phrases carrying the relevant Case feature. In fact, scrambling of indefinite noun phrases is very well possible, but as soon as an indefinite noun phrase appears to the left of a sentence adverbial, it acquires a specific reading (see De Hoop 1992 for a recent discussion). Consider the paradigm in (50):

- (20) B
- dat Jan vaak meisjes kust that John often girls kisses "..that.John often kisses girls." ..dat Jan meisjes vank kust that John girls often kisses that John girls often kisses فہ
  - "..that John kisses girls often."

has scope over *often*, which results in a reading involving multiple kissing events per girl.<sup>13</sup> In (50a), there is only one kissing event per girl, whereas in (50b) meisjes

<sup>12</sup> The paradigm is present in southern dialects. My intuitions relate to the Brahantish dialect spoken in the Middle South of the Netherlands and the Northern Central part of Dutch speaking Belgium. Haegeman (1991) demonstrates the existence of a similar paradigm in West Flemish.

<sup>10</sup> If the verb in (50) is contrastively stressed, the adverb appears to be able to take wide scope again. The judgments in the text are about noutral stress patterns. In addition to the readings discussed in the text, (50a) lacks, but (50b) has, a generic reading of the indefinite noun phrase.

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VERB MOVEMENT 131	However, when one of the objects is a weak pronoun, the weak pronoun always has to precede the full NP:	<ul> <li>(53) a. "dat Jan 't Marie gegevon hoeft that John it Mary given has ".that John gave it Mary."</li> <li>D. 77dat Jan Marie 't gegeven hoeft that John Mary it given has</li> </ul>	<ul> <li>(54) adat Jan 'r het boek gegeven heeft that John her the book given has "that John guve her the book"</li> <li>b. *dat Jan het boek 'r gegeven heeft that John the book her given has</li> </ul>	When both objects are weak pronouns, the order is free, with a slight preference for the order Direct Object-Indirect Object. <sup>16</sup>	<ul> <li>(55) adat Jan 't'r gegeven heeft that John it her given has "that John grve it her."</li> <li>b. ?dat John grve it gegeven heeft that John her it groen has "that John grve her it."</li> </ul>	These facts lend <i>prima factic</i> support for the hypothesis that the weak pronouns in Dutch are (special) clitics, and move to positions unavailable to strong pronouns and phrasal noun phrases. Full noun phrases have to move to a position in which they can be licensed; the specifier of a functional head. Apparently, it is required that the functional projection designated for iscensing the Indirect Object is tranked in between the AgrSP and the AgrOP. <sup>37</sup> But none of these considerations are relevant for the position of the double object clitics.	<sup>44</sup> Unlike in West Flemish, the double object clitics in Dutch ennot be split. Neither can they adjoin to the complementier, as is also a possibility in West Flemish, as well as in several dialects spoken in the South of the Netherlands. Cf. Elaegemma (1392a). T assume here that Indirect Objects are noun phrases and that they are licensed in the specifier postion of an AgrOF. As Bon Dicken and Mulder (1391) show, the Indirect Object behaves in licensing parasitic gaps. The assumption that both objects print like the Dicken and Mulder (1391) show, the Indirect Object behaves in licensing parasitic gaps. The assumption that both objects problem objects prove to their licensing parasition in overt syndar in Duch also accounts for a problem discussed in Den Dicken and Mulder (1391). This is the fact that both objects more to their licensing position in overt syndar in Duch also accounts for a problem discussed in Den Dicken and Mulder (1391). This is the fact that the over other the reading objects in the order of the three argument on phrases). This is the fact that the over other there were and after each of the three argument on phrases). This is a copulated more and the solute position in over additional under our assumption that sectambling parasignes do not involve additional movements of the objects, but adjunction of the adverb in different positions. In other words, the relative position of the volue of the the adverb in different positions is.

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Now in the relevant dialects indefinite plural noun phrases can be replaced by a partitive weak pronoun 'r.'' This pronoun has to precede

 ...dat Jan vank 'r kust that John often there kisses dat Jan 'r vank kust that John there often kisses "..that John often kisses some." (51) a.

the sentence adverbial:

,a

In this respect, 'r behaves exactly like the weak object pronouns of Standard Dutch discussed above.

But, crucially, (51b) has both the reading of (50a) and the reading of (50b), with a clear preference for the reading of (50b).<sup>14</sup> Thus, scopal relations appear to be determined on the basis of linear order where phrasal noun phrases are concerned, but not where weak pronouns are concerned. This is unexpected if weak pronouns do not have a special syntactic status.

b. Double Object Constructions The neutral order of constituents in double object constructions in Dutch is Indirect Object-Direct Object:

- (52) a.
- a. ..dat Jan Marrie het book gegeven hoeft that John Mary the book given has "..that John grew Marry the book"
   b. ?? ..dat Jan het boek Marie gegeven hoeft that John the book Mary given has

<sup>14</sup> The partitive weak prosoun 'r should not be confused with the SSC feminine weak pronoun 'r in Standard Dutch. The 'r in (51) appears to be morphologically related to the quantitative 'r there'in Standard Dutch (Bech 1952). In Berbants, the SSC feminine weak object pronoun is ze ruther than 'r Cfannole Ramselan', p.c.). <sup>16</sup> The wide scope reading for 'r is triggered in sentences like (i).

Soms kus ik 'r vaak en dan weer kus ik 'r maar 66n keer "Someimes I kiss ei eiten and then again I kiss of but once." з

In embedded clauses, *som*s 'sometimes' obligntorily follows the weak pronoun. which shows (just like (51b) does) that scope is not determined by linear order where clinics are involved.

udat [ld (\*soms) 'r (soms) vaak kus "..that I sometimes kias ci often." Э

In addition. (51b) lacks the generic reading mentioned in note 13.

This once again shows that the weak pronouns are syntactically different from the full noun phrases.

According to many speakers, including me, (52b) is grammatical when the double object verb contains a particle:

(56) a. ...dat Jan Marie het boek terug gegeven hoeft that John Mary the book back given has

- "..that John gave Mary the book back." b. ...dat Jan het boek Marie terug gegeven heeft that John the book Mary back given has
  - that John the book Mary back given has "..that John gave the book Mary back."

Furthermore, sentence adverbs can appear on either side of each of the two objects in both sentences in (56). Therefore, it cannot be the case that in (56) *Marie* is not in a position in the functional domain. Also, a marked stress pattern enhances the acceptability of (52b):

(57) ? ...dat Jan het boek MaRIE gegeven heeft

57) ? ...dat Jan het boek MaRUE gegeven heeft that John the book MARY given has "..that John gave MARY the book." These observations, however, do not detract from the conclusion that in double object constructions, weak pronouns and full noun phrases display different syntactic behavior. None of these manipulations are needed to make the Direct Object-Indirect Object order acceptable when the two objects are clitics.

### 2.1.6 Conclusion

It is clear from the word order phenomena in Exceptional Case Marking constructions, scrambling constructions, and double object constructions that weak pronouns and full noun phrases do not occupy the same positions in Dutch. This is explained if the weak pronouns are clitics, on the standard assumption that clitics adjoin to functional heads, whereas full noun phrases move to the specifier position of an Agreement Phrase.

It follows that there are a number of functional head positions to the left of the VP in Dutch. The exact distribution of these functional heads will be investigated in the next section.

VERB MOVEMENT

## 2.2 Clitics as Functional Heads

## 2.2.1 Base Generation versus Movement

There is a general consensus in the generative literature as to the status of cliftics: they are heads. Our conclusion that object cliftics in Dutch are heads ties in with that generalization.

More controversy surrounds the question of whether clitics are generated in head positions or in argument positions.<sup>1</sup> The analyses taking the former option are generally referred to as 'base generation analyses' (Strozer 1976, Jaeggii 1980, Borer 1984). The analyses taking the other option are generally referred to as 'movement analyses' since in this type of analysis the clitic has to move from the argument position to the head position (Kayne 1975, 1991). The distinction in terms of movement vs. base generation is only partly felicitous, since nothing in principle excludes head movement of a base generated' clitic (cf. Sportiche 1992). Nevertheless, I will use the terms 'movement' and 'base generation' to refer to the two types of analysis, as is usual.

As Sportiche (1992) argues, there are sound arguments for both the movement analysis and the base generation analysis of clitics. I will mention just a few for each type of analysis.

First, the movement type of analysis is supported by the fact that clitics induce past participle agreement in French (Kayne 1987): <sup>1</sup> Many issues are concealed by putting the controversy in these terms. Thus, if one assumes that elities are generated as heats, it could be that they are generated as affixes to the verb, or as determiner elements inside a DP, or as functional heads of some sort. Similarly, if cirbits are generated as phrasel arguments, it could be that they are adjoined to the verb, or that they move to the specifier position of a functional head adjoin to a functional head adjoin to a functional head antity move to that they move and adjoin to a functional head antityes have been applied in the literature, to my knowledge. See Hasgeman (1992a) and Eleveration (1992b) and Eleveration of these options. It assume, following Baltin (1982) and Kayne (1991), that elitics are always associated with a functional head. This leaves us with bosically two options and arguments and adjoin to that they core are adjoin to the functional heads of these are generated as functional heads. This leaves us we forestarily the former to the options. If assume, following Baltin (1982) and Kayne (1991), that elitics are always associated with a functional head, it have they are elitics are always associated with a functional head, it have us the course of a constraint of the functional heads of the functional heads. This leaves us we forearcally and a functional heads of the options. The latter option grees back to Kayne (1975), the former to Starzet (1976).

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- les chaises the chairs a repeint(\*es) has repainted(AGR) Jean John ಕ Э
  - John repainted the chairs.
    - les a ropeint(es) Леап ف
- John them has repainted(AGR) John repainted them."
- les chaises que Jean the chairs that John ن
- a repeint(es) has repainted(AGR) "the chairs John repainted"

but not in the latter, overt movement of the object takes place. In Kayne's analysis, past participle agreement is a morphological reflex of movement the fact that clitics induce past participle agreement indicates that something, presumably the clitic itself, must have moved through the of the object through the checking domain of an agreement head. Hence, in (1b,c), but not in (1a), the past participle *repeint* 'repainted' may agree with its object. What differentiates (lb,c) and (la) is that in the former,

A second observation supporting the movement type of analysis is that clitics have to be in one local domain with the verb of which it expresses phrase movement. Thus, in (2), from Dutch, neither the clitic nor the full noun phrase may be non-locally construed with the embedded verb, whereas in (3) both the clitic and the full noun phrase may appear in the one of the arguments, unless this local domain is transparent for noun specifier of the agreement phrase identified by Kayne.<sup>2</sup> matrix clause.

- kust kisses ...dat Fict zict dat Jan 'r/Marrie thar Pete sees that John ber/Mary "..that Pete sees that John kisses her/Mary "...dat Pict 'r/Marie Zict dat Jan that Pete her/Mary sees that John ಕ ଷ
- ..... r.et 'r/Mario ziet dut Jan kust that Pete her/Mary sees that John kisses "..that Pete sees that John kisses her/Mary" فر

agreement to be impossible in that case. Therefore, the past participle agreement phrase must be different. I will not discuss this issue here. (Originally, agreeing past participles were predicates of a resultative Small Chense (cf. Yoadryes 1337). In Old Franch, the order Aureliary-Object-Participle was still possible, and the participle agreed with the object in this construction, in contrast to the order Auxiliary-Participle-Object, which was also possible but showed no agreement (Bourcie: 1346:330). Sneijders-De Vogel 1919:204, Foulet 1968:104). <sup>2</sup> Chomsky (1991) takes the past participle agreement phrase identified in Kayne (1987) to be AgrOP. However, this is not very likely, since in that case the full noun phrase object would have to move to this specifier position at LR, and we would not expect participle The resultative construction has disappeared in Modern French.)

VERB MOVEMENT

Piet Jan 'r/Marie ziet kussen Pete John her/Mary sees kiss --dat that

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"..that Pete sees John kiss her/Mary"

they both move up when such is required or allowed. The latter argument is most familiar from Romance, but Haegeman in close connection with the verb (say, as a sister of the verb), and that This suggests that both the clitic and the full noun phrase are generated

discovered that clitic placement in Germanic is always contingent on (1992a) shows that it applies equally well to Germanic. Haegeman scrambling (taken to be movement to spec of AgrO), in the sense that clitic placement is impossible wherever scrambling is impossible.<sup>3</sup> This appears to be a strong argument in favor of the movement analysis of clitics.\*

The base generation type of analysis is supported by the phenomenon of clitic doubling, where the position of the argument associated with the clitic is taken by a full noun phrase:

River Plate Spanish		Florentino			West Flemish		
a Juan	hum we-saw John "We anw John."		5		zie	she	
vimos	we-saw w John.	e porls	he speal	is speakir	kont	COLLES	coming."
ន	TWe su	Mario	Mario	"Mario	ŝ	she	"She's
ಕ		æ			ΰ		
(4)							

twice, once as a clitic, and once as a full noun phrase or pronoun. This In this type of construction, a certain argument of the verb is expressed seems to argue against generating the clitic in an argument position.

Thus, both the movement analysis and the base generation analysis of cliticization phenomena are supported by *prima facie* evidence. For this reason, Sportiche (1992) concludes that both analyses are basically right, and I will follow him in this respect.<sup>5</sup> It is shown in Zwart (1992b) that the contingency of clitic placement on scrambling explains the limited character of clitic placement in mainland Scandinavian languages (which lack scrambling).

verb picks up its inflectional endings in syntax, provides a strong argument in favor of a movement analysis and against base-generation" (15). The argument runs as follows: if the elitic is base-generated on V or as an AGR head, it would have to appear in between the <sup>6</sup> Haverkort (1992) argues that "(t)he recent elaboration of phruse structure. whereby the (continued...)

<sup>&</sup>lt;sup>3</sup> Eloworer, there is not a biconditional relation between cliffe placement and scrambling, as sbown in section 2.1.4. In Exceptional Case Marking constructions in Dutch, the clifte moves to a position unavailable to the full noun phrase.

VERB MOVEMENT 137	<ul> <li>(5) adat Jan Yr gisteren gogeven heeft that John it her yesterday. "hat John grow it her yesterday."</li> <li>b. edat Jan Y gisteren for yesterday.</li> <li>b. edat Jan Y gisteren for yesterday.</li> <li>b. edat an Y gisteren for yesterday.</li> <li>b. edat an Y gisteren for yesterday.</li> <li>c. edat t' Jan Y gisteren grown heeft that John it yesterday given has</li> <li>c. edat t' Jan Y gisteren given has</li> <li>c. edat t' Jan X gisteren given has</li> <li>We have assumed in section 2.1.5.a, that the object clitics in Standard Dutch must be adjoined to AgrS, and (5c) indicates that <i>cli</i> object clitics in Dutch may not move on to adjoin to C.</li> <li>Recall from sections II.4.3 and 2.1.5 that I have argued that direct objects and indirect objects in Dutch have to move to the specifier position of an AgrOP in overt syntax. If object clitics always adjoin to AgrS in Dutch, we predict that they cannot appear to the right of phrasal objects. This is correct, as the following examples from section 2.1.5 show:</li> <li>(6) a. <i>M</i> dat Jan Manie t geven heeft that John Mary it given has "that John mary it given has "that John gave it Mary."</li> </ul>	In West Flemish (WF), a Dutch dialect spoken in the West of Belgium, the situation is more complicated (Haegeman 1991). First, object clitics may move to C. (7) a. da Jan Yze gisteren geseven eet WF "that John grow it her (Do-cl) vestarday given has "that John grow it her yesterday" b. dat ze Jan gisteren gegeven eet "that ich her yesterday" c. dat Jan ze gisteren gegeven eet that it her John grow it her yesterday" a at t Jan ze gisteren gegeven eet that it John grow it her yesterday" "that John grow it her yesterday" As can be seen in (7b-c), the object clitics in West Flemish may move to C as a cluster, or one of the clitics may move to C leaving the other one behind. As in Standard Dutch, adverbs may not separate the subject and the object clitic(s):
DUTCH SYNTAX	In particular, Sportiche argues that clitics are base generated as heads of independent projections, Clitic Phrases, and that at some point in the derivation the specifier position of the Clitic Phrase has to be filled by an empty noun phrase. This noun phrase is generated as an argument of the verb, associated with the dittic. It is lexicalized in clitic doubling phenomena and the locality effects associated with clitic placement are constructions, but empty in all other clitic constructions. The agreement phenomena and the locality effects associated with clitic placement are caused by the movement of the (empty) noun phrase from the argument position to the specifier position of the Clitic Phrases. Sportiche argues for the existence of a number of Clitic Phrases on top of AgrSP and dominated by CP. I will not follow his proposal in this respect. Instead, I will argue that the Clitic Phrases are equal to the generated as heads of these Agreement Phrases. <sup>6</sup> My main argument for assuming that Sportiche's Clitic Phrases are really Agreement Phrases is based on an analysis of the intricate facts of object cliticization in West Flemish (cf. Haggeman 1991, 1992a; Zwart 1992c). To the extent that the assumption that clitics are pheads of agreement phrases yields a rather straightforward analysis of West Flemish object cliticization, we may conclude that the introduction of Clitic Phrases, which would essentially double the work done by the Agreement Phrases, is unmotivated.	2.2.2 Object Clitics in West Flemish. In Standard Dutch, object clitics form a cluster (cf. II.1.5): *(continued) *(continued) *(conti
136	In of indk deriva empty verb, verb, verb, causec positio Spheno causec positio fener; my respec famili gener; positio object leady verb, v	2.2.2 Object In Standard (continued) verbal stem at argument pres verb movement (1992), and im (1992), and im (1992), and im Sportiche (1992) Case phrases, p.c.)

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VERB MOVEMENT 139	direct object clitic and the subject Jan. <sup>7</sup> Therefore, the object clitic must be in a position lower than AgrS in (9b). Thus, the facts from West Flemish show that there must be at least three clitic positions: C, AgrS, and a head position to the right of AgrS.	Haegeman (1991) argues that this third cliftc position is the head of an Agr projection designated for the licensing of the indirect object. Haegeman assumes the following structure for the functional domain in West Flemish: (12) CP	C AERS SUBJ AERS AERS AEROP	AgrO	AL CONVERSION	Haegeman assumes for West Flemish what we have assumed for Standard Dutch, namely that both direct objects and indirect objects move to the	specifier position of an Agreement Phrase in overt syntax, and that the Agreement Phrase designated for licensing indirect objects is higher than the Agreement Phrase designated for direct objects (see section 2.1.5.b). Haegeman also assumes the movement analysis of cliticization: the clitics are generated as arguments of the verb and moved to a head	position at some point in the derivation. Haggeman argues that the clitics first move to the specifier position of the relevant Agreement Phrase, and from that position adjoin to the first head up. After that, subsequent head movement is possible to all the heads higher in the tree.	<sup>7</sup> Rocall from section 1.3.2 that XPs may not intervene between a bend and its specifier. In other words, whenever a phrase α and a boad β are soparated from each other by auother phrase, α and β are not in a specifier-head configuration.
138 DUTCH SYNTAX	a. "d.a Jan gistoren 't ze gegeven eet that John yesterday it her given has b. "dait Jan gisteren ze gegeven eet that it John yesterday her given has	As for Standard Dutch before, we may conclude that the object clitics in West Flemish are in AgrS when immediately following the subject. The facts in (7) therefore show that there are two object clitic positions in West Flemish: C and AgrS. Another difference between Standard Dutch and West Flemish is that in West Flemish the direct object clitic may appear to the right of a phrasal indirect object (cf. Dutch):	<ul> <li>(9) ada Jan 't Marie gegeven eet that John it Mary given has "that John gave it to Mary."</li> <li>bda John Mary 't geven eet that John Mary it given has "that John gave it to Mary."</li> </ul>	However, as in Standard Dutch (cf. (6b)), the indirect object cliftic may not appear to the right of the phrasal direct object in West Flemish:	<ul> <li>(10) ada Jan ze dienen boek gegeven eet that John her that book given has "that John gave hat book"</li> <li>bda Jan dienen boek ze gegeven eet that John that book her given has</li> </ul>	Also as in Standard Dutch, the object clitic may never appear to the immediate right of an adverbial:	<ul> <li>(11) ada Jan Mario 't gisteren gegeven eet that John Mary it yesterday given has "that John yesterday gave it to Mary."</li> <li>b. *da Jan Marie gisteren 't gegeven eet that John Mary yesterday it given has</li> </ul>	The paradigm in (9) shows that there is a clitic position to the right of AgrS in West Flemish. In (9b), the direct object clitic $x$ if cannot be adjoined to AgrS, because the indirect object <i>Marie</i> intervenes between the	

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141 VERB MOVEMENT 141	This conclusion supports Sportiche's (1992) proposal to analyze clitic placement as a combination of a) base generation of clitics in head positions and b) movement of corresponding, possibly empty, phrases to the spec positions of these heads. However, it does <i>not</i> support Sportiche's proposal to identify the heads the clitics are generated in as heads of <i>separate clitic phrases</i> .	Suppose clitics are generated as heads of separate clitic phrases. These clitic phrases are all stacked between C and AgrS, as illustrated in (13) (the specs and intermediate projections have been left out): (13) CP	SCIP SCIP IO-CIP DO-CIP ArrisP ArritoP	AgerDO AgerDO TP	(10b) can now be excluded in the following way. The direct object clitic is generated in DO-CI (the head of the direct object Clitic Phrase). There is no indirect object clitic. Nevertheless, we must assume that the indirect object Clitic Phrase is present, and that the indirect object moves to the spec of the indirect object Clitic Phrase in overt syntax. This yields the order indirect object - direct object clitic in (10b). Similarly, the subject	has to move to the spec of the subject Clitic Phrase (S-CiP). In other words, regardless of the presence of clitics, we have to assume that all Clitic Phrases are always there, and that overt nour phrase movement does not target Agreement Phrases but Clitic Phrases. This amounts to saying that Sportiche's Clitic Phrases are in fact the familiar Agreement Phrases. This argument can be repeated in a variety of ways. For instance, verb movement can be seen to target the same positions in constructions with clitic arguments as in constructions with phrasal arguments. Consider Dutch. In subject initial main clauses, the finite verb immediately follows the subject:
	ead is the The direct the direct the direct that there that	rect object ber AgrOP he head of he indirect he indirect	f the lower to the spec . Thus, the t object. in a base the clitics trase and ld be base	e that the be indirect Thus, the The direct	OP, and to spectively. rr adjoined the spec of ct may not	of a "base m: there is ignated for iargument mple, the scurption n the AgrP at the generated as generated as

It follows from these assumptions that the higher AgrO he lowest clitic position. Consider cliticization of the direct object. T

object first moves to the spec of the lower AgrOP. From there the dim object cliticizes to the head of the higher AgrOP. Subsequently, the dim object clitic may move to the head of AgrSP and to C. It follows that th are three clitic positions in West Flemish.

It also follows that the indirect object may precede the direct objec ditic, as in (9b). The indirect object moves to the spec of the higher AgrO in overt syntax. If the direct object citic, after adjoining to the head of this AgrOP, does not move on, it will appear to the right of the indirec object. It also follows that the direct object may not precede the indirec object. It also follows that the direct object moves to the spec of the lowe AgrOP in overs yntax. The indirect object citic, after moving to the spec of the higher AgrOP, can only adjoin to AgrS and move on to C. Thus, th indirect object ultic will always appear to the left of the direct object.

of the higher AgrOP, can only adjoin to AgrS and move on to C. Thus, th indirect object clitic will always appear to the left of the direct object. These results of Haegeman's analysis are maintained in a bas generation analysis of cliticization.<sup>4</sup> Under such an analysis, the clitic would not first move to the spec of an Agreement Phrase an subsequently adjoin to a higher head. Rather, the clitics would be bas generated as functional heads themselves.

Consider again direct object clificization. We now assume that the direct object clificization. We now assume that the direct object clific is base generated in the lower AgrO head. The indirect object moves to the spec of the higher AgrOP in overt syntax. Thus, the indirect object moves to the spec of the higher AgrOP is on the point clific may also move on, to the head of the higher AgrOP, and to object clific may also move on, to the head of the higher AgrOP, and to object clific may also move on, to the head of the higher AgrOP, and to object clific may also move on the object clific secretively. On the other hand, the indirect object clific secretation is respectively.

On the other hand, the indirect object clitic is generated in, or adjoin to, the head of the higher AgrOP. The direct object moves to the spec the lower AgrOP in overt syntax. It follows that the direct object may r precede the indirect object clitic, as in (10b).

Haegeman's analysis, and its reformulation in terms of a 'base generation' analysis, allows us to draw an important conclusion: there is a relation between the position of the functional projections designated for the licensing of phrasal arguments and the possible position of argument clifics corresponding to these phrasal arguments. For example, the explanation for the ungrammaticality of (10b) is based on the assumption that indirect object clifics cannot appear in a position lower than the Agr designated for the licensing of indirect object phrases.

<sup>\*</sup> Recall that at this point, the choice between 'movement' and 'base generation' is not the sure. Since we have adopted Sporticite 5 (1392) iden that clints are base generated as insue. Concloral loads, we need to determine the nature of these heads: are they heads of separate Clintic Pranse, or the heads of the familiar Agreement Phrases?

Vere Movement 143	slightly from the structure of the functional domain adopted in the Minimalist Program (cf. section 1.2.2, Figure 1). In particular, TP (the projection of the tense features) is the lowest functional projection in Haegeman's structure, whereas in the structure I have adopted, TP is situated in between AgrSP and the AgrOPs. In Chomsky (1992), TP is considered to be closely associated with AgrSP, a reflection of the traditional close association of tense and agreement (cf. Chomsky 1981). Far from being able to decide where TP should be located, I would like to consider here the question whether Haegeman's results will be lost when her structure is rejected in favor of the structure adopted in section I.2.2. It will turn out to be the case that Haegeman's analysis of clitic placement. West Premish can be maintained under the assumptions of the Minimalist Program. The structure of the functional domain adopted in the Minimalist Program, and in this book, is illustrated in (15) (cf. (12)).	(13) CP CP CP CP CP CP CP CP CP CP CP CP CP C	Recall that the following word order pattern has to be explained: in a double object construction in West Flemish, the direct object clitic may precede or follow the phrasal indirect object, but the indirect object clitic

must precede the phrasal direct object. The relevant facts are repeated here for convenience:

DUTCH SYNTAX

niet not know it ("vandaag) weet't today Ă а. (<del>1</del>4)

Dutch

niet (\*vnndang) weet't "I don't know (today).\* à,

know it not "I don't know (today)." today I-SCI

clitic must be generated as the head of the subject Clitic Phrase, and we must conclude that the verb is adjoined to the head of the subject clitic phrase. This makes sense, since there is an object clitic in (14b) as well, which indicates that the verb must be at least as high as the head of the object Clitic Phrase. But, returning to (14a), in (14a) there is an object clitic as well, which indicates that the verb must be as high as the head of the object Clitic Phrase in (14a) as well. Consequently, we must have been wrong in assuming that the verb is in AgrS in (14a), rather, it must have been in the head position of the subject Clitic Phrase (considering the adjacency effect), even though there is no subject clitic around. Again, existence of separate Clitic Phrases, in addition to Agreement Phrases. I will therefore continue to assume that Clitic Phrases do not exist. I finite verb is in AgrS and the subject in spec of AgrS. In (14a), the subject is a full pronoun. However, the word order facts are exactly the same when the subject is a clific, as in  $(14b)^3$  In the latter case, the subject there turns out to be no empirical distinction between AgrSP and the subject Clitic Phrase. As a result, there is no empirical evidence for the We have argued in section II.4.3 that in subject initial main clauses, the

the clitics may undergo head movement. This will be the subject of section 2.3. First, I will make some minor adjustments to the analysis of adopt Sportiche's (1992) proposal, but assume that argument clitics are base generated as heads of agreement phrases. Associated with the clitics are full noun phrases, which may be overt or empty, and which move to the spec positions of the agreement phrases at some point in the derivation. In addition to being generated as heads of agreement phrases, cliticization in West Flemish presented above.

## 2.2.3 Clitic Doubling in West Flemish

The structure of the functional domain of West Flemish according to Haegeman (1991), illustrated in (12) in the previous section, differs  $^3$  There is one difference between subject initial clauses introduced by a full prozoun and subject initial clauses introduced by a clitic. In the former, the subject and the finite verte can be separated by modul particles like *echter* burf, *rut* "(non-temporal) now." This is impossible when the subject is a clitic.

144

West Flemish

Jan 't Marie gegeven eet John it Mary given has ".that John gave it to Mary." that the đ á

đ

ଡି

Jan Marrie 't gegeven eet John Mary it given has that John Mary it gi "..that John gave it to Mary."

gegeven oet given has ...da Jan ze dienen boek that John her that book '..that John gave her that book." -da that ę 69

gegeven eet da ¥ à

given has Jan dienen boek ze John that book her that

of this word order pattern presented in section 2.2.2, based on Haegeman (1991). The direct object clitic is generated in the lower AgrO, and may object moves to the spec of the higher ÅgrO in overt syntax. Hence, the direct object clitic may precede or follow the phrasal indirect object. The indirect object clitic is generated in the higher AgrO. The phrasal direct indirect object clitic may only appear to the left of the phrasal direct It is easy to see that the position of TP does not affect the explanation stay there or move on to the higher AgrO, T, AgrS, or C. The indirect object moves to the spec of the lower AgrO in overt syntax. Hence, the object. In sum, Haegeman's analysis of the word order pattern in (9)-(10) stays in force when the minimalist structure of the functional domain in (15) is adopted.

words, (15) predicts that there are two clitic positions between the position consequence. Because TP now dominates both object agreement phrases, an additional head is available for the object clitics to move to: T. In other of the subject (spec.AgrS) and the position of the indirect object (the spec However, the adoption of the minimalist structure has one non-trivial of the higher AgrO), namely T and AgrS, whereas (12) predicts that there is only one such position, namely AgrS.

At this point, the West Flemish subject clitic doubling phenomenon becomes relevant (Bennis and Haegeman 1984; Haegeman 1990, 1991; De Geest 1990; Zwart 1992c). This phenomenon demonstrates that there is a landing site for clitics between AgrS and the higher AgrO, and hence, that there must be a TP between AgrSP and the higher AgrOP.

In West Flemish, subject clitics may be doubled by a pronoun. The pronoun obligatorily follows the subject clitic, but may be separated from it by the finite verb and by object clitics. The phenomenon is illustrated in (16)-(19).<sup>20</sup> <sup>16</sup> In the examples, ze and 't are always clitics, and zie is always a full pronoun. The initial consonant of ze devoices when ze adjoins to C or to a verb in C.

VERB MOVEMENT

Marie komt comes contes komt she she that she-CL Mary ..that she comes. dat she-CL -dase -dase \* <u>م</u> ej (9E)

zie 3he d

9

komt Ze komt she-CL comes "She's coming." Ň Zie ۵

comes 0 N she-CL komt she Zie ť

sheell CO田 CS

..daso zie 't gekocht eet that she-CL she it bought has "..that she bought it." ...dase't zie gekocht eet that she-CL it she bought has d <u>م</u> (18)

cese zie 't gekocht bas she-CL she it bought "..that she bought it." Gisteren ceso yesterday has sl લ (6T)

gekocht bought yesterday has she-CL it she "Yosterday she bought it." Yesterday she bought it." ئە.

(17) shows that the clitic has to precede the doubling pronoun. (17a), (18b), and (19b) show that the clitic and the doubling pronoun can be constructions. These sentences also show that embedded clauses and topicalization constructions are identical in relevant respects, assuming the verb is in C in the latter (Den Besten 1977). (16) shows that the feminine 3SG clitic ze can be doubled by the full pronoun zie 'she', but not by a full noun phrase with the same features. separated by the finite verb and by object clitics, respectively. (18) and (19) demonstrate the distribution of object clitics in clitic doubling

and finite verb changes from Clitic-Verb in (17) to Verb-Clitic in (19). This suggests that the finite verb moves to different positions in the two types If we compare (17) and (19), we notice that the order of subject clitic of construction.

I have assumed (in section II.4.3), that in subject initial main clauses in Dutch, the verb moves to AgrS, whereas in topicalizations, the verb moves to C (Den Besten 1977). Apart from the clitic doubling phenomenon, which is absent in Standard Dutch, subject clitics in Standard Dutch and in West Flemish display the same behavior. Standard Dutch has inversion of the subject clitic and the finite verb in copicalizations, like West Flemish:

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kont Ň (20) a.

she-CL comes Morgen komt ze tomorrow comes she-CL

Dutch

6.

We may assume, therefore, that the analysis of verb movement proposed for Dutch carries over to West Flemish, and that the verb is in AgrS in (17) and in C in (19).

Applying the base generation analysis of cliticization, we may further assume that the subject clitic is generated in AgrS in (17), and that the finite verb adjoins to AgrS. In (19), the verb apparently skips AgrS on its way to C. This part of the analysis will be presented more fully in sections 2.3 and 3.3.2).<sup>11</sup> If the finite verb is in AgrS in (17), the doubling pronoun must be further down. Assuming, with Haegeman (1991) that the doubling

pronoun is a phrase and not a clitic, it must be in the spec position of a lower functional category. This lower functional category cannot be one of the object agreement phrases, as the presence of the doubling pronoun in the spec of an object agreement phrase would make noun phrase movement to this spec position impossible. This would leave the features in the head of the relevant agreement phrase unchecked, and would yield a crashing derivation. Therefore there must be a functional projection between AgrSP and the higher AgrOP. This supports the structure of the functional domain in (15), as adopted in the Minimalist Program.

If this is correct, we predict that object clifts may adjoin to the head of TP. This can be tested in double object constructions. In double object constructions, the doubling pronoun precedes both objects when the objects are full noun phrases. When the objects are clifts, they either precede or follow the doubling pronoun:

geven	given	бечев	given		дечев	given
					å	G
boek	that book	e R	she		book	¥.
dienen	that boo	t boek	ok		zie dienen boek	that boo
		1910	å t		Ĩ	
Marie	Mary sock	die	the		210	she
ñ.	sne ury that l	Marie	Mary	ъ	Marie	Mary
27ee	Snewul nas sne Mary that book "She gave Mary that book"	Z'ee	she-CL has	[same readin	Z.ee	she-CL has
		٠			*	
63		à			ij	
3						

[same reading]

M

<sup>12</sup> Recall that I have assumed that economy of derivation does not contain a shortest steps requirement (section I.3.1).

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È	
SYNTAX	
DUTCH	
5	
Ā	

### 2.2.4 Conclusion

in are the heads of the well-known agreement phrases for licensing subjects, objects and indirect objects. Again following Sportiche, I have assumed that clitics may undergo additional head movement. The In this section, I have argued, following Sportiche (1992), that the clitics contra Sportiche (1992), that the functional heads the clitics are generated properties of the relevant movement phenomena will be discussed in in Dutch are generated in functional head positions. I have also argued, section 2.3.

phenomena of Dutch again lead to the conclusion that there are functional heads to the left of the VP in Dutch. On this assumption, the intricate word order facts of clitic constructions in West Flemish can be accounted If clitics are generated in functional head positions, the word order for if the structure of the functional domain proposed in Chomsky (1992) is adopted.

## 2.3 Clitic Movement and Verb Movement

interesting way with verb movement, as is also clear from illuminating work by Kayne (1991), Ouhalla (1989), and Haverkort (1992). In the previous sections, I have argued that the Dutch clitics are heads, and I have adopted Sportiche's (1992) proposal, according to which clitics are base-generated as heads of functional projections. In this section, I will discuss one further aspect of the syntax of clitics, namely the fact that clitics may undergo head movement. This clitic movement interacts in an

As has become clear in this work, the interaction of verb movement and clitic placement cannot be described in an attractive way if a strict to achieve a maximally elegant analysis, the verb must sometimes be version of the Head Movement Constraint (p. 19) is maintained. In order allowed to skip the functional head hosting the clitic.

This aspect of the analysis of clitic placement is not problematic from the minimalist point of view, if the minimalist extension is adopted according to which economy of derivation does not involve a shortest steps requirement (section I.3.1). I will therefore assume that it is in principle possible for the verb to skip heads.

" (...continued)

Verb inversion in topicalization constructions in Dutch and West Flemish unexplained. See Zwart (1992c) for extensive discussion.

see in this section that there is reason to suppose that clitics in Germanic invariably adjoin to the right. This puzzling aspect of the analysis can A second important aspect of clitic placement is the directionality of clitic adjunction. Kayne (1991, 1993) assumes that clitics invariably adjoin to the left. This follows from the ELCA (section I.3.3). However, we will only be maintained if clitics are somehow exempt from the ELCA.

several respects. In the Minimalist Program, optional movements are not From a minimalist point of view, clitic placement is problematic in allowed. However, we have seen that in West Flemish, object clitics may appear in at least four well discernable positions: C, AgrS, T, and AgrO. These four possibilities are illustrated in (1).

- West Flemish gegeven given Valère Marie Valery Mary Gisteren ee't Valère yesterday has it Valery ತ 3
  - zie Marie gisteren gegeven she Mary yesterday given "Yesterday Valery gave it to Mary." she-CL has it she Mary Z'eo't ف.
- gegeven "She gave it to Mary yesterday." Zee zie 't Mario gisteren she-Cl has she it Mary yesterday ჟ
  - civen "She gave it to Mary yesterday."
- gegeven given Zee zie Marie 't gisteren she-CL has she Mary it yesterday "She gave it to Mary yesterday." ÷ð

As Haegeman (1991) shows, the pattern in (1) can be derived by assuming that clitics may optionally move from head to head. Optional movement, however, is not a part of the minimalist approach.

Similarly, in the Minimalist Program all movements must be triggered by 'morphoiogical' requirements. Thus, movement is excluded unless the movement contributes to eliminating (abstract) inflectional features. It is not at all clear that clitic movement is related to any kind of feature checking.

A third problem is that it is unclear how differences in cliticization between languages should be parametrized in minimalist terms. In the strength of the inflectional features represented in the functional heads (section 1.2.4). Differences in strength yield different amounts of overt between, say. Standard Dutch and West Flemish, a parametrization in terms of strength of inflectional features does not immediately suggest <u>Minimalist Program, parametric differences are expressed in terms of the</u> movement. However, if we consider the differences in cliticization

<sup>1</sup> Optional clitic movement is also attested in clitic climbing constructions (see Rizzi 1982;1).

itself. <sup>2</sup> Recall that in Dutch, object clitics always form a cluster, whereas in West Flemish, the object clitics can be scattered:	(4) X* t
dat Jan 't'r gegeven heeft that John it her given has "that John gave it her." *dat't Jan 'r gegeven heeft thet it Jan her given has	However, there are several languages in which cliticization can be to involve adjunction to the right. For example, when object clitics Flemish move to C, they always appear to adjoin to the right ( This has also been argued for subject clitic movement in embedded
.da Valère 't ze gegeven eet West Flemish that Valery it her given has that Valery gave it her." dat Valery pare ze gegeven eet that it Valery her given has that Valery ther given has	and topicalization constructions in Dutch (Den Besten 1977, Zwart Adjunction to the right would yield a structure as in (5): (5) $X^{*} - C_{1}$
Thus, it is not clear what a minimalist approach to cliticization should look like. On the other hand, it is clear that some 'minimalist' approach to the phenomena of cliticization is called for. For example, clitic movement does not appear to be lowering. Haegeman's (1991) analysis of object clitics in West Flemish, discussed extensively in the previous section, is built on the crucial assumption that indirect object clitics cannot lower to a position to the right of phrasal direct object clitics cannot lower to a position to the right of phrasal direct objects. Similarly, clitic movement is bounded, as many analyses of clitic climbing have brought to light (cf. Rizzi 1982, Kayne 1989, Ouhalla 1989, Haverkort 1992). These are all familiar properties of movement, and consequently, a restrictive theory is as desirable for cliticization as it is for other movement processes. Devising such a theory lies outside the scope of this book. Shill, I wish to explore one aspect of clitic movement in some detail, because the phenomena of Dutch cliticization give rise to it. This aspect concerns the direction of clitic adjunction. Kayne (1991, 1993) are progres that clitics invariably adjoin to the left.	<ol> <li>I agree with Kayne (1991:648) that the correct analysis of citta should involve a uniform direction of adjunction. It is true that lar and even constructions within a language, differ as to the relation of clitic and verb But Kayne (1991) demonstrates that the mech verb movement is powerful enough to derive these differences. It this, we seem to be missing cortain (potential) generalizat parametrizing the direction of adjunction.</li> <li>If clitic placement in Germanic must be analyzed as right-adjit must be the case that clitics are generated as heads of ag projections, basically following Sportiche (1992). I also flowed S in assuming that clitics may undergo additional head movementow propose the following:</li> <li>(6) 1. When a clitic a moves to a functional head movementow propose the following:</li> <li>2. When a verb a moves to a clitic β, a adjoins to the right.</li> </ol>

<sup>2</sup> Harverkort (1992) argues that differences in the syntax of clitics can be parametrized in terms of opacity of the functional heads T and Agr. As in Pollock (1939), only verb movement to a transparent functional head is grammatical. This verb movement removes barriers (as in Chomsky 1986), 1991), which makes clitic movies the possible. This is a promising opproach which seems feasible in a minimalist framework. Rowever, it is undear to me how the subtle differences between Standard Dutch and West Flemish may fall out from this type

of parametrization

ics in West t (cf. (3b)). ed clauses be argued urt 1991a)

In view of anguages, ttive order thanism of iticization ations by

Recall that agreement Sportiche djunction. ent. I wil

(4) results.

s to the

bt of **B**.

Still assuming Kayne's (1993) hypothesis that syntactic adjunction invariably takes place to the left, these generalizations suggest that clitic placement is not a syntactic adjunction operation.

Let us consider the consequences of the proposed clitic adjunction

adjacent to the subject, and the object clitics are right adjacent to the finite verb. In topicalizations and wh-constructions, the verb is in C, and the object clitics are right adjacent to the subject. In infinitival clauses, in the following way. In embedded clauses, the object clitics are right adjacent to the subject, and the verb is inside the VP. The object clifics may not adjoin to C. In subject initial main clauses, the finite verb is right generalizations for Dutch and French. The distribution of object clitics and verbs in Dutch can be summarized

VERB MOVEMENT 153	Otherwise, we would expect the object clitic to appear right adjacent to the verb in C in topicalization constructions, contrary to fact: (8) • Daarom/Waarom heeft't Jan gegeven there for has it ber John groen	s in Dutch now, in Dutch are pro mbedded clauses ated in (9)-(11) ( heb tr giste har yestenday." have it her yeste have the ryste	<ul> <li>(10) adat (*gistorea) "k "the gogoven heb that yesterday L-Cl it her given have "that I give it her (yesterday)."</li> <li>bdat (gisteron) ik "the given heb that yesterday I it her given have "that I gave it her (yesterday)."</li> <li>(11) a. Daarom heb (*gisteren) "k "th gegoven the there for have yesterday."</li> </ul>	<ul> <li>Little way I gave it are yearcow.</li> <li>b. Daarom beb (gasterm) it 't'r gegeven there for have yesterday I it her given "That's why I gave it har yesterday."</li> <li>Assuming that subject clitics are generated in the head position of AgrSP, the Clitic-Verb order in (9a) is as expected under our analysis. The finite verb moves to AgrS, and adjoins to the right of the subject clitic. The object clitics subsequently adjoin to the right of the Clitic-Verb complex.</li> </ul>	<sup>4</sup> The properties of topicalizations and wh-constructions are illustrated with examples of topicalization only. The adjacency of the subject clitic and the finite verb in subject initial main clauses cannot be domonstrated by inserting to nordinary adverbial like givercary yrans for the subjects and finite verbs are also nordinary adverbial like givertary instended. The element exits - however, which is part of a group of modul particles expressing intersonational connection (much like the Addent Corect particles name in the part of a group of modul particles expressing intersonational connection (much like the Addent Corec predicts name how, grave for, dar then, etc. studied by Wackernagel 1392), does bring out the difference. The particles of the group, which also includes numbers for, dar then, as well as certain obsers, may separate the first constituent and the first verse in Dutch, and may even be seen to split the first constituent, in constructions like Ref erset howfdatuk eckter var Barriers is brilliant.
152 DUTCH SYNTAX	the verb follows the object clitics, but the object clitics are not adjacent to the verb. In imperative constructions, the verb is in the first position and the object clitics are right adjacent to the verb. These observations are illustrated in $(7)$ .	<ul> <li>(7) adat Jan Yr gisteren gegeven heeft that John ic her yesterday given has that John grow it her yesterday given has that it her John gisteren gegeven heeft that it her John yesterday given has to John has it her yesterday given as gisteren gegeven there it her yesterday given the Daarom/waarom heeft Jan Yr gisteren gegeven there forwhere for has John it her yesterday. "That's why John give it her yesterday."</li> <li>a. John with Ann Yr gisteren gegeven heeft Jan Yr gisteren gegeven there forwhere for has John it her yesterday. "That's why John give it her yesterday." "John with Ann Yr gisteren given here John Yby dia give it her yesterday."</li> </ul>	Join it her tumorrow give that never Join give it her tumorrow? Never!" Give it her tomorrow? Never!" Give it her tomorrow I have assumed that object clittics are generated as heads of agreement phrases. I have also argued that the subject moves to the spec of AgrSP in overt syntax in Dutch, and that in subject initial main clauses in Dutch the finite verb is in AgrS. Therefore, the adjacency of the object clittics and	the subject in (7a,d,e) and of the object clutes and the verb in (/c) suggest that after being generated in the AgrOPs, the object clitics move on to AgrS by head movement. We have also assumed that when a verb moves to a head containing a clitic, or when a clitic moves to a head containing a verb, the adjunction always takes place on the right hand side. This leads to the following conclusions for head movement in Dutch. a) In subject initial main clauses, the verb skips the AgrO heads where the clitics are generated, and moves across these heads to AgrS (possibly landing in T first). b) In tunicalizations and wh-constructions, the verb in addition skips AzrS and	moves to C in one swoop. <sup>3</sup> These conclusions are forced upon us, because if the verb were to land in any head occupied by a clitic, a Clitic-Verb order would result. Therefore the verb has to skip the AgrO heads, and the clitics have to adjoin to the verb, instead of the other way around. Similarly, the verb and the clitic cannot merge in AgrS before the verb moves on to C. <sup>3</sup> This analysis of verb movement to C will be motivated more extensively in section 3.3.2.

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155									a clitic in Agr.O. In (17), the of the subject clitic in the right of the clitic-verb to the right of the clitic al head is targeted in erb complex skips Agr.S, othe Clitic-Verb complex the subject clitic in Agr.S, the subject clitic in Agr.S, and subject clitic in a the subject clitic in a the subject clitic in a the subject clitic in a the clitics.	
					٨	>	٨	>	in Agr subjection of the of ight of ight of ight of the ver the the the the the the the the the the the the the the the the the the the	
	٨	>	\$	>	Agro	001+V 001	Agro	법 전 전	idjoins to the right of the clitic in AgrO. In (17), and adjoins to the right of the subject clitic in et clitic adjoins to the right of the clitic-verb the finite verb adjoins to the right of the clitic to whatever functional head is targeted in t so doing, the Clitic-Verb complex skips AgrS, quently right adjoins to the Clitic-Verb complex filte right adjoins to the Subject clitic in AgrS, oves to X (=C) in one swoop. The clitics interplat of the verb in C. in that clitics invariably adjoin to the $left$ , a as easily obtained. Consider the following as in (14) and (15).	~
VERE MOVEMENT	Agro	OCL OCL	Agro	ಕ್ಷಣ	ŧ		ŧ		the right of ms to the t diplus to the verb adjoins to the ver function the Clitic ght adjoins to adjoins to $\chi = CO$ in the verb in the verb in the verb in the verb in the verb in the verb in the verb in the	AgrO
VERB MC	۴	A+2	ŧ	技	AgrS	sci sci sci	AgrS	SCI SCI	adjoins to 1 and adjoin the finite to whate to whate to whate to whate to whate to whate the finite tight of the that clithes to that clithes to the	٤ı
	AgrS	scr scr scr	AgrS	SCL+V+OCL SCL+V SCL+V+OCL	×	V+OCL V+OCL	×	v+SCL+OCL	Inite verb adjoins to the right of t skips AgrO and adjoins to the rig skips AgrO and adjoins to the rig $x_i$ , the object clift adjoins to the S. In (18), the finite verb adjoins to moves on to whatever function ructions. It so doing, the Clifte-V clifts subsequently right adjoins to the clifts subsequently right adjoins to the be verb moves to X (=C) in the verb moves to fithe verb in C assumption that clifts invarial cannot be as easily obtained. he sentences in (14) and (15).	AgrS
	(=14a)	гыЩ	(=14b)	비법	(=15a)	<sup>나 비</sup> 비 년 2	(#ISb)	гцЦ	In (16), the finite verb adjoins to the right of the clitic in AgrO. In (17), the finite verb skips AgrO and adjoins to the right of the subject clitic in AgrS; after that, the object clitic adjoins to the right of the clitic-verb complex in AgrS. In (18), the finite verb adjoins to the right of the clitic- in AgrO, and moves on to whatever functional head is targeted in inversion constructions. In so doing, the Clitic-Verb complex skips AgrS, and the subject clitic subsequently right adjoins to the Subject clitic in AgrS, while the finite verb moves to $X (=C)$ in one swoop. The clitics while the finite verb moves to $X (=C)$ in one swoop. The clitics rubesquently adjoin to the right of the verb in C. Under the assumption that clitics invariably adjoin to the <i>left</i> , a similar result cannot be as easily obtained. Consider the following derivations of the sentences in (14) and (15).	(=14a)
	(16)		(17)		(18)		(13)		the fit AgrS AgrS AgrS AgrS AgrS AgrS AgrS AgrS	(20)

Dutch The ungrammaticality of (12) also shows that subject clitics in Dutch do not adjoin to the left of the verb in C. Likewise, the subject clitics do not adjoin to the left of the complementizer in embedded clauses: Accepting Kayne's (1991) point that the direction of adjunction in cliticization should be universal, (12) and (13) indicate that this direction A comparison of Dutch and French further strengthens this point. In constructions involving both object clitics and subject clitics, French and French Dutch French (14) illustrates the pattern in neutral order main clauses in French and conclusion that verb movement to C in Dutch skips AgrS. Otherwise, the finite verb and the subject cliftic would merge in AgrS, and the order Clittic-Verb would be expected in topicalizations and wh-constructions, In (10)-(11), the subject clitic apparently moves to C. Again, as expected, the clitic adjoins to the right of whatever element is in C. This analysis, like the analysis of object cliticization above, leads to the gegeven given gegeven given Dutch display completely opposite patterns: DUTCH SYNTAX Daarom 'k heb 't'r there for I-Cl have it her "That's why I gave it her." is to the right rather than to the left. "..."7k dat heb 't'r I-Cl that have ither "..thatIgaveither." gezien? gezien 1 Secn seen seen scen P it have you see it?" "Did you see it?" heb je't g have you it se "Did you see it?" tu Pas v you it have e "You saw it." je hebt't j you havo it s "You saw it." l'as-tu contrary to fact: \* તં ತ فہ م (14) (12) (13) 154 (73) (73)

Dutch, (15) the pattern in inversion constructions in French and Dutch. These patterns are SOV, SVO, OVS, and VSO, respectively.

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V OCL+V

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On the assumption that cliticization invariably involves right adjunction, these patterns can be derived fairly easily, as demonstrated above. The derivations are summarized in (16)-(19) below:

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TCH
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XYEN

		2	>	2	>
Δ	>	Agro	5 S S S S	AgrO	岌岌岌
AgrO	V+OCL OCL	E-	oci+V cr	۲	
ħ	V+OCL	AgrS	OCIT+V+SCL SCL SCL SCL SCL	AgrS	scr v+scr
AgrS	tos sot	×		×	10S+V
(m14b)	чц	(=15a)	<sup>니</sup> 티日오	(#15b)	111
(21)		(22)		(23)	

In these derivations, it is assumed that both verbs and clitics always adjoin to the left of an element in the higher head position. In (20), it must be assumed that the verb moves to T. skipping AgrO, and that the AgrS will be impossible, however, as this would yield the order *fas-tu*, which is not the correct order in neutral declarative constructions. In (21), the verb adjoins to the left of the object clitic in AgrO, and the complex possibly moves on to T. However, the verb will never end up in AgrS, just like in derivation (20), as this would yield the order *hebit je*, which is ungrammatical in any type of construction in Dutch. As a result, we could an onlonger maintain that the finite verb is in AgrS in subject initial main clauses in Dutch, which leaves the general adjacency of the subject and the finite verb unexplained. In (22), the verb will skip the AgrO position as in (20), after which the object clitic adjoins to the left of the verbed clitic in AgrS. This derivation (23), however, yields some serious problems again. Here the verb moves to AgrS in one swoop, adjoining to the left of the subject clitic in AgrS. After that, <sup>4</sup> An alternative derivation would involve an additional movement of the V+OCL complex to C, with subsequent left adjuaction of the subject click to the V+OCL complex in C. This would leave unexplained why the casuing SCL+V+OCL order is impossible in inversion constructions (where work movement to C is much more plaudile). It will not do to resort to a Verb Second Construint' here, because if such a construction to solve, the alth adjuation of the subject click to the V+OCL complex the order the adjuation of the subject click to the V+OCL complex.

<sup>6</sup> An alternative derivation would have the verb move to AgrS in one swoop, with subsequent left adjunction of the object clitic to the Verb-Clitic complex in AgrS.

VERB MOVEMENT

the complex may move on to C. However, the object cliftic will have to remain in a fairly low position, unless we assume, contra Kayne (1991), that adjunction of the cliftic to a trace in AgrS is a possibility. If not, we are in trouble, because the object cliftic arguably occupies AgrS (as can be concluded from the adjacency of the object cliftic and a phrasal subject, if there is one present), or even constitutes a cluster with the verb and the subject cliftic and to be object the possibility cannot be derived if cliftic adjunction is invariably to the left.

In sum, the derivations of the patterns in (14) and (15) are problematic in several respects if we assume that clitics invariably adjoin to the left. These problems are absent if we assume that clitics invariably adjoin to the right.

An interesting result of this approach is that cliticization basically works the same in French and in Dutch, in spite of the commonly held view that the clitic systems in Romance and Germanic are basically different. In the description of the phenonemena proposed here, the differentes in the syntax of cliticization between French and Dutch result form different applications of verb movement in the two languages. The works what principle the verb movements are different in the two languages, and by what principle the verb is allowed to skip functional heads.

It follows from the requirement that V-features be checked that such movement should not leave any features unchecked. Hence, if a verb is seen to skip a head, it must be the case that the features of the skipped head are checked in a higher functional head. This could be the result of independent functional head movement. In section 3.1 will argue that independent functional head movement of AgrS to C has the result that the V-features of AgrS are checked in C. This suggests that functional head movement takes place whenever verb movement is seen to skip functional heads.

Space does not permit me to discuss this issue more fully here. It may suffice to state that a description like the one given above allows us to derive certain predictions for the syntax of verb movement and functional head movement from the attested orders of clitics and verbs.

The analysis of the clitic-verb orders in Dutch and French support the adjunction generalizations in (6). This is a somewhat puzzling result, considering that we have adopted Kayne's generalization that adjunction always takes place on the left hand side. It needs to be investigated to what extent clitic placement is subject to the ELCA deriving Kayne's generalization. This is another issue that has to be left for further research.

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## 2.4 Conclusion

In this section I have argued for the following points:

- Dutch weak pronouns are special clitics in the sense of Zwicky (1977).
- Dutch cliftics are generated in the head of agreement phrases.
   Cliftics may undergo additional head movement, involving
- adjunction to a functional head. 4. Clitic placement in Dutch involves either right-adjunction of the clitic to a functional head, or right adjunction of a verb to a clitic.

It follows from the first two of these points that the agreement phrases in Dutch are head initial. One of the consequences of the third point is that eithes may adjoin to T. I argued that this takes place in West Flemish. It follows that TP in Dutch is head initial as well. The fourth point is more contentious. However, this point does not affect the general conclusion to be drawn from this section, which is that the functional projections in Dutch are head initial.

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## 3 Complementizer Agreement

In this section, the phenomenon of complementizer agreement (cf. section II.1.2.2) will be presented and discussed. The analysis of this phenomenon provides a second piece of evidence in support of the hypothesis that the functional projections in Dutch are head initial. This argument is based on the observation that certain Dutch dialects have one type of agreement for the complementizer and the verb in C, and another type of agreement for the complementizer and the verb in C, and another type of agreement degreement dialects). In these dialects, the verb in subject initial main clauses has the second type of agreement. This leads to the conclusion that in the relevant dialects AgrS is situated to the left of the VP.

This section is organized in the following way. After a presentation of the relevant facts in section 3.1, previous analyses of complementizer agreement will be discussed in section 3.2.1 will demonstrate, contra Horekstra and Marácz (1989), that complementizer agreement is a reflex of *abstract* Agr-to-C movement, rather than movement of an overt agreement morpheme from Agr to C. Finally, in section 3.3 the phenomenon will be analyzed in minimalist terms.

# 3.1 Complementizer Agreement Phenomena in Germanic Dialects

Numerous dialects of Dutch, German, and Frisian display a phenomenon of complementizer agreement, where the complementizer is inflected for person and/or number and agrees with the subject.<sup>1</sup> At the same time, the finite verb is also inflected. The inflectional morphemes used are generally identical, but not always (cf. Van Haeringen 1958 and below).

The paradigms are mostly defective. For instance, Bast Netherlandic has an agreeing complementizer only in the first person plural (1PL), South Hollandic only in 1PL and 3PL, Frisian only in 2SG, Munich

<sup>&</sup>lt;sup>1</sup> The complementizer agreement phenomenon is well documented. The following is a list of references. For Dutch dinlocts: Van Haeringen (1339: 1355), Van Ginneken (1393), Weijnen (1393), Do Virse (1344), Vanndker (1394), Do Visser (1379), Goenan (1390), Bennis and Haegeman (1394), Stroop (1397), Do Geest (1390), Haegeman (1390, 1391), Hoelstar (1993); for Frisina dialects: Elosehman (1395), De Haan and Weerman (1396), Vanser (1393), Kienekman (1392); for Geman (1395), For lessen (1392); for Gernan dialects: Weise (1397), De Haan (1392); for Gernan (1395), Bayer (1398), Marcine (1392); for Gernan (1395), Bayer (1398), Bayer (1398), Marcine (1393), Kufaer (1393), Bayer (1393), Bayer (1393), Law (1393), Law (1393), Law (1393), Law (1393), Law (1392), Reitzer and Mardar (1393), Zwart (1393), Law (1393), Law (1393), Law (1393), Law (1392), Shlonsly (1392), anong othere.

191	Groaingea	Frisian	Munich Bavarian	Luxemburgish	e complementizer is 1erb. However, Van ialects in which the ment (v) differ.	East Netherlandic	Brabactish arities connected with third example where	s. They are representative in able to check (cf. Stroop car in subject initial main being element, as in West rop possible (d <i>é liegde</i> [that
VERB MOVEMENT	<ul> <li>(3) aof ik kom</li> <li>whether I come</li> <li>bof-s toe koms</li> <li>whether 2SC you come-2SG</li> </ul>	<ul> <li>(4) adatet (do) jûn komst that-SSG you toight come-2SG</li> <li>dat (er) jûn komt that he toight come-3SG</li> </ul>	<ul> <li>(5) adamid ich komm</li> <li>sothat I come</li> <li>bdamidaš kommasi</li> <li>sothat-25G come-25G</li> <li>cdamidaš kommds</li> <li>sothat-27L come-27L</li> </ul>	<ul> <li>(5) aob ech will</li> <li>whether I want</li> <li>bob's du wills</li> <li>bob's du want-25G</li> <li>cdatte mir willen</li> <li>ctatt'L we want-PL</li> </ul>	In these dialects, the agreement morpheme on the complementizer is identical to the agreement morpheme on the verb. However, Van Haeringen (1958) reports on East Netherlandic dialects in which the complementizer agreement (c) and the verbal agreement (v) differ.	(7)datte wij speult that-IPLe we play-IPLv The same appears to be the case in Brabantish. <sup>3</sup>	(8)dade gullie komt that 2PLc you come-2PLv Depending on the analysis of the phonological regularities connected with Cliticization, the West Flemish 2SG may provide a third example where	<sup>3</sup> The Brahantish facts are from the dialect of my native town, Oss, They are representative the situation in other Brahantish dialects, as far as I have been able to deek (cf. Stroop 1987). The de morphene is not a clitic, because it cannot appear in subject initial main clauses, whether independently or in onjunction with a clitic doubling element, as in West Flemish, Elowever, the presence of de does make referential prodrop possible (de <i>lingde</i> (that lie-2SG) you're lying (that)).
DUTCH SYNTAX	Bavarian only in 2SG and 2PL. West Flemish has a complete paradigm (Geoman 1980, Haegeman 1990). 1. In large areas of the Netherlands (West Friesland, North Holland, 2. Ath Hollond, elso in the Contor and East of the contror Wan Haedringen	Sound from any and the occurs, and part of the second from the second from the second from the form of the second from the form of the second in the Northeast and the Southeast, dialects and in Dutch dialects spoken in the Northeast and the Southeast, as well as in Frisian, there is an agreement morphome for $2SG$ (and as well as in Frisian, there is an agreement morphome for $2SG$ (and as sometimes $2PL$ ) - $s(t)^3$ . Luxemburgish combines the two types of	agreement (Bruch 1973). The Brabantish dialect of Dutch has a morpheme de for 2SG/PL (Stroop 1987). The Flemish dialects of Dutch have a full paradigm, with a morpheme -n for ISG, 1PL, and 3PL, presumably a zero morpheme (2) for 2SG, and a -t morpheme for 3SG/2PL (cf. Goeman 1980, Haegeman 1990). The following are examples from the Dutch dialects South Hollandic	<ul> <li>(Van Harringen 1939), West Flemish (Haegeman 1990), and Groningen (Van Ginneken 1939), from Frisian (Hoekstra and Marácz 1989), and from the German dialects Munich Bavarian (Kuther 1961) and Luxemburgish (Bruch 1973).</li> <li>(1) adat ik kom</li> </ul>	that I come datto we kommo that.PI we come.PI. davo.k lk komea davo.iSc1 f come.ISG	e be con	that SFG she sto come-SFG that SFG she sto come-SFG that LPL we we come-LPL darC-j grunder kount $[O < t]$ that 2PL you you come-2PL that 3PL they they come-3PL that 3PL they they come-3PL	<sup>1</sup> The status of the -s(t) ending on the complementizer in Germanic dialeets has been hotly debated for about at least a century now. The -s- element, which also shows up in the verbal agreenant, appears to be indexiond. but it may be the case that the -st ending combines a complementizer. Agreement element and a subject clific. See section 3.2. For recent discussion, cf. Van der Meer (1991) and De Haan (1992).
160	Bavarian or (Goeman 19 In large Santh Halla	Journ 11014 1939, 1958) dialects and as well as sometimes	agreement (Bruch de for 2SG/PL (S) paradigm, with a 1 morpheme (2) for Haegeman 1990). The following	(Van Haering (Van Ginneke the German d (Bruch 1973). (1) a.	ф. (2) е	ات ت مر	રું ન્ય છે.	<sup>1</sup> The status : debated for al agreement, al complementi discussion, cf

	VERB MOVEMENT	163
Ťer (cf. 2b vs	I will argue that this parallelism is not coincidental. However, let us first consider previous treatments of the Germanic	manic
West Flomish	comprementater agreement phenomena.	
	3.2 Frevious Analyses	
	3.2.1 Base Generation or Movement	
the verbal	The complementizer agreement phenomenon in Germanic has often been	n been
unutal main b inversion	taken to indicate that in the relevant languages (Dutch, German, Frisian) C is an inflectional category. This leads to an analysis in which the	risian) ih the
	agreement features are generated in C (see section II.2.3 and references cited there: cf. also Goeman 1980).	rences
st Netherlandic	There is an obvious connection with the standard analysis of verb	f verb
	movement in main clauses in these languages. According to this analysis, the verb moves to C in all tensed main clauses (Den Besten 1977). If C is	alysis, If C is
	analyzed as an inflectional category, it becomes understandable that the verb has to move to C whenever O is not occuried by the complementizer	at the ntizer
Brabaatish	This analysis of verb movement in Germanic as attraction by a C	y a C
	hosting inflectional features was first proposed by Den Besten in a 1983 Amondation to 1077 amondation and an amondation and an and a solid and and a solid and a solid and a solid and a	1983 11983
	тарренцих ю ша тэчи рарег. 1ша арренцих защинатисе ше таки ронны of Den Besten (1978). Den Besten proposes that verb movement in Dutch	pounts Dutch
West Namiah	(and German) is actually tense movement: movement of a tensed verb to a tensed $C^6$	erb to
	However, Den Besten (1989:93) is very careful not to confuse the tense	tense
	feature in C with the agreement features in C. He notes that "these	"these
	person endings (on agreeing complementizers) must be generated in a position separate from the complementizer position, () because deletion	d in a sletion
in Standard	of a lexical complementizer does not force a person marking to delete as !	lete as
whether the most 1993).	The phenomenon Den Besten has in mind is best illustrated with the	th the
1202 T 102 E	following example from Luxemburgish (Bruch 1973:106).	
Standard Dutch	(13) datt) s de spazéiere gaang bas with whom that 25G you walk gone are "with whom you went for a walk."	
nt morpheme is treduce in 3SG, that the J of the	<sup>4</sup> The theoretical possibility that complementizer agreement is phonetically or phonologically determined has been discarded as early as Van Haeringen (1939), and will not be considered here (see also Roeksema 1956).	logically usidered
blitic, but I have	<sup>6</sup> This is essentially the same mechanism as movement for feature checking purposes in the Minimulist Program.	s in the

DUTCH SYNTAX

the complementizer agreement and the verbal agreement differ (cf 2c);<sup>4</sup>

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9	ġ	L-CHAD-	9	1EIOM	~
		that 2SG you	you	come-2SG	
		"that you come."			

- ú
  - ...da-t-j ij komt that 3SG he he come-3SG ".that he comes."

In dialects where the complementizer agreement and the agreement differ, the verb has verbal agreement in subject initial clauses, and complementizer agreement in subject-verb inv constructions.

- Ä East Net! Wij spoul-t\*-e we play IPLv/c Waar spoul-e\*-t wij? where play IPLo'v we "Wheredowe play?" ಕ .ċ (10 10 ම
  - you come 2FL/v/c Wanneer kom-de<sup>n</sup>-t gullie? when come 22LeV you Gullie kom-t/\*-de you come 2PLv/c đ ,ci
- when come.--"When do you come?"
- Gie kom-V\*-O you coma 25Gv/c Kom-O-J\*-t-j gie? come 25GeV you you \*Are you coming?\*\* (II) a. 6.

This is reminiscent of a peculiar agreement phenomenon in St Dutch, where the choice of the 2SG morpheme depends on wheth verb preceeds or follows the subject (section II.1.1.1; cf. Goeman 1

Standa loop-t\*-0 walk 2SG loop-0/\*-t jij walk 2SG you Jij you Danr there đ

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<sup>4</sup> Lillane Hacgeman (p.e.) suggests that in (2b) the complementizer agreement morp not zero but a phonologically reduced 4- morphane. However, this 4- does not reduce where the catexat appears to be the same (2b). Possibly, one could argue that the 3CM subject tiltice is underlyingly different from the j of the 2SG subject clicic, bu not seen any analyses in support of this possibility.

VERB MOVEMENT 165	correlation cannot be attested, it is unlikely that the I-to-C parameter determines the presence of overt complementizer agreement. Let us therefore turn to the three phenomena Hoekstra and Marácz relate to the I-to-C parameter, and see whether these phenomena constitute a cluster setting the complementizer agreement dialects apart.	a. Referential Pro-drop Some dialects showing overt complementizer agreement allow referential pro-drop. Below are examples from Frisian and West Flemish, both taken from Hoekstra and Marácz (1939).	<ul> <li>(15) a. Komst (do) jún?</li> <li>Frisian come-2SG you tonight</li> <li>To you come baight?</li> <li>bdatst (do) jún komst</li> <li>that-2SG you tonight come-2SG</li> <li>".that you come baight."</li> </ul>	<ul> <li>(16) a. Goa-Q-se (zie) goan werken? West Fiemish (cf. (2)) go 3SG she-CL ahe go work</li> <li>"Is she guing to work?"</li> <li>bda-Q-se (zie) komt</li> <li>btat SGG she-CL she come-3SG</li> </ul>	It can be shown in the case of Frisian that in the absence of overt complementizer agreement referential pro-drop is not possible.	<ul> <li>(17) a. Komt "(er) jún? Frisian come-3SG he tonight</li> <li>"Is he coming: "outjint"</li> <li>bdat "(er) jún komt that he bonight come-3SG</li> <li>that he comes bonight."</li> </ul>	In the case of West Flemish this cannot be demonstrated, because West Flemish has a complete complementizer agreement paradigm. However, it is clear that referential pro-drop in West Flemish is related to subject cliticization rather than to complementizer agreement. If the subject clitic is left out and complementizer agreement retained, referential pro-drop is impossible. Consider the following 3FL examples:
	ins. Ind bal e:	utch ent	person which parate ra and	in the searing	the of • T-	ith ácr the ges zer	liscuss ae 1-to- psis in I will f there aust be esence
164 DUTCE SYNTAX	In (13) the complementizer is optional, but the agreement ending remains. Den Besten analyzes the complementizer as a tense element (T) and the agreement ending as a person (P) element, and notes that the T-P ordering in the inflected complementizers is mirrored in the verbal morphology, where the person morpheme follows the tense morpheme:	(14) zee lach-t-en they laugh PAST 3PL Accepting Den Besten's point that the complementizer agreement	Marácz (1989).	3.2.2 I-to-C Movement Hoekstra and Marácz (1989) assume that C and I interact in the following way. C is the canonical locus for a "T-marker", a scope bearing	element marking I for a specific tense feature. The relation between the T-marker in C and the tense feature in I can have two types of instantiation: either the T-marker binds tense, or tense moves to the T-	marker (following Baker 1970). Languages may be parametrized with respect to tense movement. In view of this, Hoekstra and Maráaz introduce the <i>I-to-C Parameter</i> . In Floekstra and Maráaz propose that this parameter divides the Germanic languages and dialects into two groups. The languages positively specified for the I-to-C parameter show complementizer	agreement, the others do not. In support of their analysis, Hoekstra and Marácz present and discuss three phenomena which they relate to a positive specification for the 1-to- C parameter. These phenomena are: referential pro-drop, verb ellipsis in irrealis: complement clauses, and complementizer cliticization. I will illustrate these phenomena below. Hoekstra and Marácz' analysis raises the following question. If there is a parameter governing overt complementizer agreement, there must be a cluster of properties that to a certain extent correlate with the presence

of complementizer agreement. More exactly, the phenomena Hoekstra and Marácz discuss shouid be present in those Germanic dialects that have overt complementizer agreement, and absent in all others. If such a

VERB MOVEMENT 167	When we consider other Germanic dialects, there appears to be no correlation whatsoever between complementizer agreement and referential pro-drop. Hoekstra and Marácz (1989) mention the case of Zurich German as problematic for their generalization (cf. Cooper and Engdahl 1989). This dialect shows referential pro-drop, but no complementizer agreement:	<ul> <li>(20) adass (d'du) in Züri wohasch Zurich German that you in Zurich live-2SG</li> <li>that you live in Zurich.</li> <li>bthat you live in Zurich.</li> <li>b. (d'du) nach Zürich hunnach whether you come to Zurich.</li> </ul>	Conversely, Hollandic dialects that show complementizer agreement never allow referential pro-drop.	<ul> <li>(21) a. Komme *(ze)? South Hollandic comc-PL they</li> <li>"Are they coming?"</li> <li>bovve *(ze) komme</li> <li>whether-PL they come-PL</li> </ul>	In short, there seems to be no significant correlation between overt complementizer agreement and referential prodrop in the Germanic dialects. Certain dialects lacking overt complementizer agreement do have referential pro-drop, others that do have overt complementizer agreement lack referential pro-drop. Pending the analysis of the Frisian type referential pro-drop, it may even be the case that not a single example of referential pro-drop in Germanic is related to complementizer agreement.	b. V-ellipsis In Frisian infinitival complement clauses with an 'unrealized future' reading, the infinitive, along with the infinitival marker/preposition te 'to', can be left out. <sup>8</sup>	(22) Jan is fan doel om nei Ljouwert ta (te gean) Frisian John is of purpose for to Leeuwarden to to go "John intends to go to Leeuwarden."	This is impossible in Standard Dutch.	<sup>7</sup> (centinued) which West Flemish) pro-drop is licensed by cliticization. Even so, it cannot be maintained that hace is a correlation between pro-drop and complementizer agreement. <sup>1</sup> In (22), the directionality is expressed by the circumposition <i>reita</i> , the second element of which is not to be confused with the preposition/infinitival marker te.
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Goa-n-ze (zunder) werk con? go 3PL they-CL they work have "Are they going to have a job?" Goa-n ei ,ci (18)

West Flemish

"(zunder) werk een? they work have Are they going to have a job? go 3PL they

ત્તં (61)

-da-n-20 (zunder) goan werk een that 3PL they-CL they go-3PL work have ".that they are going to have a job." ...da-n "(zunder) goan werk een that 3PL they go-3PL work have م.

..da-n \*(zunder) goan we that 3PL they go-3PL wo ".that they are going to have a job."

'they'. This full pronoun can be dropped, but not if the subject cliftic is absent, as in (18b) and (19b). Note that in these examples the complementizer agreement (-n-) is present, but unable to license In (18a) and (19a), the subject clitic ze is doubled by a full pronoun zunder referential pro-drop.

to the extent that it became unrecognizable as such, which made the optional addition of a pronoun possible. The similarity of the complementizer agreement to the verbal agreement would then be The same may be the case in Frisian. The status of the Frisian complementizer agreement morpheme has been a subject of debate for a long time (see Van der Meer 1991, De Haan 1992 for recent discussions). It has been argued that this morpheme is really a subject clitic, reduced accidental.

morpheme and its variants are combinations of an agreement morpheme and a subject clitic (Hoeksema 1986, Visser 1988, De Haan 1992). If this is correct, again referential pro-drop could be related to cliticization rather than to complementizer agreement.<sup>7</sup> It may well be the case that something along these lines took place, but the presence of the -s- preceding the -to-/-te-/-t morpheme is unaccounted for in this scenario. It is likely, therefore, that the -sto $^7$  However, pro-drop in Frisian apparently may be licensed by the verbal 2SG agreement alone, witness examples like (i) (from De Haan 1992).

Moatat my helpe must.25G me help "You've got to help me." Э

Also, as pointed out to me by Josef Bayer (p.c.), even if there is historical evidence for the presence of a clibe element in the Frisian type inflected complementizer, this element does not function as a clitic anymore. Therefore, it may be the case that in certain languages and dialects, among which Frisian, pro-drop is licensed by agreement, and that in others (among (continued...)

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VERB MOVEMENT 171	Let us now turn to Hoekstra and Marácz's description of complementizer ditricization in terms of I-to-C movement. Hoekstra and Marácz offer an explanation for the fact that the complementizer clitic in (25) cannot be deleted (unlike the full complementizer in Dutch). Their suggestion is that in Frisian the complementizer has to remain overt because I must be hosted by a lexical item after moving to C. <sup>13</sup> This analysis predicts that all dialects that have complementizer agreement must have something in C in relative clauses, either a clitic or a full complementizer. Tais complementizer can be left out ( $\emptyset$ indicates a phonetically empty element):	(32) don vent die Ø hier gewoest eet the man who here been has "the man who was here"	West Flemish being a complementizer agreement language, we must assume, in Hoekstra and Marácz's analysis, that I-to-C takes place, and therefore that C cannot be emptied. Hoekstra and Marácz (1989-80) note that in this case the empty complementizer can be identified by spec-head agreement in CP, which is probably correct. But this leaves unclear why spec-head agreement does not also permit deletion of the complementizer clitic in Frisian in (25b). In fact, there are many dialects in which complementizer agreement appears even if the complementizer is deleted. In addition to (13), consider the following fast from South Fiollandic and Luxemburzish:	<ul> <li>(33) a. jonges die-e werk wille</li> <li>South Hollandic</li> <li>guys who PL work want-PL</li> <li>"guys who want a job"</li> <li>b. van die rame. waar-e ze de gordijne mee spanne of these frames where PL they the curtains with draw.PL</li> <li>"the type of frames which they draw the curtains with"</li> </ul>	<ul> <li>(34) a. Géi wuer s de wëlls Luxemburgish go where 25G you want-25G</li> <li>"Go where you want" de acii Leit dei-en dat behaaptea?</li> <li>b. Kenns de dei Leit dei-en dat behaaptea?</li> <li>b. Kanw-25G you these people who PL that chaim-PL</li> <li>"Do you kaow the people who chaim that?"</li> </ul>	<sup>13</sup> This explanation is not incompatible with the structure of the complementizor system in (31), assuming that I-to-C movement targets the highest head in the complementizor system.

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Standard Dutch that she tonight comes "(dat) ze vanavond komt COLLEG se jûn komt he tonight comes that she tonight \*(dat) tinkt thinks denkt thinks ਸ਼ ਸ਼ੁੱਸ਼ ਸ਼ ġ فہ <u>8</u>

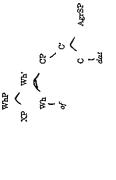
Frisian

In (29a), dat cannot be replaced by the complementizer clitic:

Frisian	
komt	comes
núi	tonight
3	she
21	that-CL
tinkt	thinks
* By	Ъе
(03)	

These facts suggest the following analysis.

1991, Hoekstra 1992a. Muller and Sternefeld 1993, Hoekstra and Zwart 1993a). Constructions like (27) suggest that the complementizer system consists of (at least) a Wh-phrase, headed by  $o'_{\rm f}$ , and a second phrase, Let us assume that the Frisian complementizer clitic is a reduced form of dat. Let us also assume that the complementizer system is more complex than standardly assumed, following much recent work (Culicover headed by *dat*. This is illustrated in (31):



31)

transformations. It follows from economy of derivation that structures are kept as simple as possible. In other words, the levels CP and WhP are added only if their presence is needed for convergence. Since the embedded clauses in (29) have no Wh-character, the Wh-level dees not have to be added in the derivation of these sentences. It follows that in (29), C is the highest node in the complementizer system. In (25), on the other hand, both the WhP and the CP must be present. down fashion, through a system of phrase structure rules and In Chomsky (1992) structures are built up in a bottom-up fashion, by successive application of generalized transformations, instead of in a top-

We can now make the following generalization: complementizer cliticization in Frisian is possible when Wh is present. The process can be described as movement from C to Wh. This movement is impossible when Wh is absent, which explains (30).

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In these constructions, the complementizer agreement appears to be attached to the wh-phrase. In view of the fact that complementizer agreement regularly shows up on heads rather than on phrases, it must be assumed that in (33) and (34) there is an empty complementizer hosting the complementizer agreement.<sup>14</sup> If so, one cannot claim that Ito-C movement requires C to be lexically filled, as Floekstra and Marácz do.

In sum, the complementizer cliticization facts do not allow us to make any generalizations over complementizer agreement dialects.

#### d. Conclusion

It seems fair to conclude that the four properties listed by floekstra and Marácz (1989) in connection with their I-to-C parameter do not constitute a cluster separating languages with overt complementizer agreement from languages without overt complementizer agreement.

This suggests that the I-to-C parameter as proposed by Hoekstra and Marácz has a very limited scope: it governs the presence or absence of overt complementizer agreement morphology only. This is an unsatisfactory state of affairs. A particular parameter setting generally has a number of tangible syntactic consequences, rather than a single morphological effect.

In section 4, I will argue that the I-to-C parameter is real, and that the syntactic consequences of the I-to-C movement (better: Agr-to-C movement) are pervasive. In particular, Agr-to-C movement will play a key role in the explanation of the verh movement patterns of Dutch, German, Frisian, and the Mainhand Scandinavian languages. From this perspective, *ouric* complementizer agreement is just a morphological reflex of abstract functional head movement, which happens to be suppressed in the standard varieties of Dutch and German (see Zwart 1993a).

First, however, let us consider the phenomenon of complementizer agreement from a minimalist point of view.

# 3.3 A Minimalist Analysis of Complementizer Agreement

The starting point of the analysis of complementizer agreement that I will propose in this section is the idea that complementizer agreement is a reflex of functional head movement (AgrS-to-C movement, cf. Hoekstra and Marácz 1989). I will mainly be concerned with two questions. First,

<sup>14</sup> The presence of an empty complementizer in (32)-(33) is supported furthermore by the absence of verb movement in these constructions.

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how can the functional head movement that yields complementizer agreement be described in minimalist terms? This means that we must identify a trigger for movement in terms of morphological feature checking requirements, and that the movement must meet conditions of economy of derivation and representation. Second, how does the functional head movement that gives rise to complementizer agreement interact with verb movement to AgrS becomes unnecessary.

This section has four subsections. In section 3.3.1, the feature checking This section has four subsections. In section 3.3.1, the feature checking requirement giving rise to Agr5-to-C movement is discussed. I will conclude that AgrS-to-C movement serves to help eliminate the N-feature of AgrS. In section 3.3.2, the properties of double agreement dialects are discussed. This will reinforce our earlier conclusion that the finite verb is appetrs of complementiare agreement and the double agreement phenomenon are investigated. Finally, in section 3.3.4, the relation between complementizer agreement and verb movement is discussed.

## 3.3.1 AgrS-to-C Movement

Within the theoretical framework adopted in this book, complementizer agreement phenomena are problematic in two respects.

First, assuming that all languages have a functional domain with the structure in (35), we expect AgrS, not C, to be the locus of agreement (cf. Figure 1 in section I.2.2):

# (35) [ CP [ AgrSP [ TP [ AgrOP [ VP ]]]]

Complementizer agreement is *subject agreement*. In the Minimalist Program, subject agreement features are located in the head position of a functional projection AgrS. These features must be checked off against the person/number features of the subject. Checking takes place in spechead configurations exclusively. For this reason, the subject has to move to the seconform of AgrS at some point in the derivation. From this point of view, it is surprising that subject agreement features show up morphologically in C.

A second problematic aspect of complementizer agreement is that it never seems to be specifier-head agreement. Thus, assuming that the complementizer is in C, we expect the subject to appear in the spec of CP when the complementizer shows subject agreement, contrary to fact:

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West Flemish		:	South Hollandic	
Lik da-n-k komen	5076日8 13-1		komme	come-PL
da-n-k	Pol 1841	come."	datte	that PL.
ų.	-1	".that]	97.	thev
સં			<u>م</u>	
(36)				

they that.PL come.PL "..that they come." c. \*..doe of.s koms

Groningen

you whether 2SG come-2SG "..whether you come." Similarly, when the verb shows the complementizer agreement, the subject always follows it. This can be seen in dialects where the verbal agreement (v) differs from the complementizer agreement (c) (from now on: double agreement dialects):

(37)	ಕ	W.ij We	*speul-e/speul-t nhv 1Pf.c/nhv 1PLv	East Netherla
	,e	"We ar	e playing." • / *Speul-t wii?	
	5	play 11 Are w	play 1PLc / play 1PLv we "Are we playing?"	

ndic

In (37b), the verb arguably occupies the C position. Accordingly, it shows complementizer agreement morphology. As can be seen, the subject never appears in the specifier position of the head hosting the verb when the verb shows complementizer agreement morphology. Thus, although complementizer agreement is subject agreement, it does not seem to be spec-head agreement.

The first of these problems could be solved by assuming that the complementizer dat is in AgrS, instead of in C. This, however, would leave the second problem intact. Such a solution would also lead to the conclusion that the verb is in AgrS in subject-verb inversion constructions only, assuming that a verb with complementizer agreement morphology is in the same position as the complementizer. This is not an interesting conclusion, for the following reason.

In double agreement dialects, the complementizer agreement shows up in topicalizations and wh-constructions. As in Standard Dutch, the topic/wh-element and the fronted verb are obligatorily adjacent:

(38) a. Daarom ("atrid) specule wij therefore always play-LFLe we "That's why we play (ali the time)." b. Waarom ("atrid) speule wij? why always play we "Why are we always playing?"

East Netherlandic

VERB MOVEMENT

If we take adjacency to be a diagnostic of a spec-head configuration, (38) indicates that the topic and wh-element are in the spec of the head occupied by the verb carrying complementizer agreement morphology. If this head is AgrS, the topic/wh-element would be occuping the spec of AgrSP. But the spec of AgrSP is the designated position for licensing the subject. Even if the subject does not have to appear in the spec position of AgrSP in overt syntax, it will have to move there at some point in the derivation. This is impossible if that position is occupied by other elements.<sup>1</sup> This makes it unattractive to assume that the verb is in AgrSP in (38).

Consequently, it is unattractive to assume that the agreeing complementizers are in AgrS.<sup>3</sup> This leaves us with the two problematic aspects of complementizer agreement mentioned before: C is not a designated agreement position, and complementizer agreement is never spec-head agreement.

In agreement with Zwart (1991b), I will adopt the following solution to these problems:

Complementizer agreement is a morphological reflex of AgrSto-C movement. AgrS-to-C movement is a case of *functional head movement*: the movement of a functional head independently of overt verb movement.<sup>1</sup>

Consider how AgrS-to-C movement solves the two conceptual problems associated with complementizer agreement.

First, since complementizer agreement results from AgrS-to-C movement, the features involved in complementizer agreement can properly be represented in AgrS, the designated head for subject agreement. <sup>1</sup> It could be argued that the topic/wh-element is removed from the spec.AgrS position before the subject moves there, without leaving a trace. This requires a trigger for the additional movement of the bojic/wh-blement. If such a trigger exists, one wonders what the trigger for the movement of the topic/wh-element to spec.AgrS was.

<sup>2</sup> Many analyses in the literature incorporate a more flexible approach to subject licensing. It is assumed, in these analyses, that the subject may be licensed in a lower specifier position or in the VP, under certain circumstances. This would leave the spec position of AgrS arrainable for fronted non-agreeing elements like uptics and wh-elements. As a matter of methodological principle, I will not consider this possibility before having tested a stricter version of the minimalist approach to syntax. This stricer version implies that the specifier position of the minimalist approach to syntax. This stricer version implies that the specifier position of a lead a is a designated licensing position for checking the features represented in c. As a result, this specifier position can only be excupied by elements currying the features corresponding to the features of c.

<sup>1</sup> Independent functional head movement is also proposed in Chomsky (1992:10), Bobaljik and Cartie (1992).

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Second, since agreement originates in a lower functional head (AgrS), we expect subject agreement to be checked in the specifier position of that head, not in the specifier position of C. In short, the AgrSP shill is the designated projection for subject agreement, even though the head of AgrS moves to C<sup>4</sup>

Thus, the hypothesis that AgrS moves to C removes the problematic character of the Germanic complementizer agreement morphology. In section 4, I will argue that the AgrS-to-C hypothesis does more than that is also explains the well known asymmetry between main clauses and embedded clauses in Dutch, German, Frisian, and Mainland Scandinavian. Howver, we first have to further investigate the properties of AgrS-to-C movement from a minimalist point of view.

Recall that in the minimalist approach, every movement has to be triggered by the need to eliminate morphological features. Moreover, the economy-related principle of *Greed* prescribes that the moved element should benefit directly from the movement. We may wonder whether this applies to AgrS-to-C movement as well.

What morphological feature might be removed through the application of AgrS-to-C movement? Obviously, this morphological feature has to be represented in AgrS itself. If not, AgrS-to-C movement violates the *Greed* principle. We may therefore make the following conjecture:

# AgrS-to-C movement eliminates a feature of AgrS.

Recall that AgrS hosts two features: a V-feature and an N-feature. The former has a counterpart in the features of the verb, the latter in the features of the subject noun phrase. Since complementizer agreement is subject agreement, it must be the N-feature of AgrS which is eliminated through AgrS-to-C movement (cf. Zwart 1991b).

However, at this point a problem arises. In the minimalist approach, N-features are eliminated through XP-movement, not through head movement. Thus, the N-feature of AgrS is standardly eliminated through novement of the subject to the specifier position of AgrSP. In complementizer agreement dialects, like in Standard Dutch, the subject moves the specifier position of AgrSP in overt syntax. Why does this not suffice to eliminate the N-features of AgrS?

I would like to propose the following solution to this problem. In section 1.3.2, I argued that feature checking invariably involves feature matching between sisters. The specifier is the designated position for

 Chomsky (1992:19) argues that functional head movement changes the status of the spec position of the lower functional projection (cf. also Bobaljik and Carnie 1992). I will discuss this proposal in section 4.3.

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checking the N-features of a head  $\alpha$ , because it is the sister of the Projection of  $\alpha$  (the first XP projection of  $\alpha$ ). I have assumed that the special status of the Projection of  $\alpha$  is not expressed in bar-level status, but in feature content: the Projection of  $\alpha$  may share the morphological features of  $\alpha$ . If the Projection of  $\alpha$  shares the N-features of  $\alpha$ , movement of the relevant XP to the specifier position of  $\alpha$  suffices to get the Nfeatures of  $\alpha$  checked.

In section 1.3.2. I suggested that the N-features of  $\alpha$  may not be automatically present on the Projection of  $\alpha$  as well. There is some room here for parametric variation. If  $\alpha$  is [+accessible], the N-features of  $\alpha$  will also be present on the Projection of  $\alpha$ . In that case, movement of the relevant XP to the specifier position of  $\alpha$  suffices for N-feature checking. If  $\alpha$  is [-accessible], the features of  $\alpha$  will not automatically spread to the Projection of  $\alpha$ . In that case, something has to happen to  $\alpha$  in order to make it possible for the N-features of  $\alpha$  to spread to the Projection of  $\alpha$ , so that feature checking under sisterhood can take place. This approach suggests that in certain constructions or languages, a

functional head must be affected in some way before its N-features can be checked. In these constructions, movement to the specifier position of that head does not suffice. It is a quite general phenomenon that movement of an XP to the

At us a quire general phenomenon that movement of an Ar to the specifier position of a functional projection  $\alpha$  is accompanied by movement of the verb to the head of  $\alpha^{i}$  Still, it is not *always* the case that XP movement is accompanied by head movement. For example, wh-movement to spec of CP triggers verb movement to C in English, but not in French:

- (39) д. When did John arrive? b. \* When John arrived/did arrive?
  - (40) a. Quand Jean est-il arrivé?
     When John is ho-Cl arrived
     When did John arrive?
     b. Quand est(il) Jean arrivé?
    - b. \* Quand est(-il) Jean arrivé? when is (he-Cl) John arrived

This state of affairs can be described in two ways.

First, one could analyze English C as having both a strong N-feature and a strong V-feature, and French C as having a strong N-feature and a weak V-feature. The strong N-feature of C would force the wh-element to move to spec of CP in both English and French (abstracting away from the possibility of wh-in-situ). The strong V-feature of C would force the <sup>4</sup> This phonomenon underlies e.g. the Wh-Criterion of Rizzi (1990b), and the Neg-Criterion of Haspeman and Zanuttini (1991).

verb to follow suit in English, but in French, verb movement to C would be excluded because of the weak V-feature in C.

languages, C would have a strong N-feature and a weak V-feature. However, the difference could be that C is [-accessible] in English and Alternatively, one could assume that the N-features and V-features of C are specified in the same way in both English and French. In both [+accessible] in French. This would explain the obligatory verb movement in (39), and the absence of it in (40).

will become important in section 4. Only in the second approach is verb movement to a functional head with a weak V-feature possible. In the first approach, the relation between strength of V-features and verb movement approach, and the second approach the *conditional* approach. Returning now to AgrS-to-C movement, I would like to propose that in There is one interesting difference between these two approaches that is too direct to allow this. Let us therefore call the first approach the *rigid* 

V-features, and that in addition AgrS is specified as [-accessible].<sup>6</sup> As a result, the specifier position of AgrSP has to be filled by the subject, but movement of the subject does not suffice to get the N-features of AgrS complementizer agreement dialects AgrS has strong N-features and weak checked. Since AgrS is [-accessible], the N-features of AgrS are not present on the Projection of AgrS (the sister of the specifier), and feature checking under sisterhood cannot take place. Therefore, something has to happen What I would like to propose is that AgrS-to-C movement serves this to AgrS to make the N-feature of AgrS spread to the Projection of AgrS.

AgrS-to-C movement makes AgrS [+accessible]

purpose:

to the Projection of AgrS (the sister of the specifier of AgrS). As a result, checking of the N-features of AgrS under the required condition of Thus, as a result of AgrS-to-C movement, the N-features of AgrS spread sisterbood can proceed.

Notice that if this is correct, AgrS-to-C movement obeys the principle of Greed. After all, it is the strong N-feature of AgrS itself that is going to be eliminated through the movement of AgrS to C. Accepting the conditional approach to feature checking, then, we may draw the following conclusion:

AgrS-to-C movement indirectly eliminates the N-feature of AgrS.

<sup>6</sup> I will argue in section 4 that these specifications carry over to Standard Dutch

Thus, the proposed AgrS-to-C movement is a minimalist type of movement.

N-feature checking in complementizer agreement dialects can now be summarized in the following way. The N-feature of AgrS is strong. For AgrS is specified as [-accessible], which would block N-feature checking unless AgrS is affected in such a way that it becomes [+accessible]. For this reason, AgrS moves to C, which makes AgrS [+accessible] (by aypothesis). As a result, the N-feature of AgrS spreads to the projection of AgrS, and N-feature checking can take place under sisterhood. This accounts for our earlier observation that AgrSF remains the locus for checking the features of AgrS, even after AgrS-to-C movement has taken this reason, the subject moves to the spec of AgrSP in overt syntax. However, the N-feature can only be eliminated if AgrS is [+accessible]. place.

the result that the verb must move to AgrS in all and only those constructions in which C is absent. This accounts for the asymmetry In section 4, the interaction of AgrS-to-C movement and verb movement will be discussed in greater detail. I will argue that verb movement to AgrS is another way to make AgrS [+accessible]. This has between main and embedded clauses in Dutch, and allows us to maintain the minimalist assumption that in subject initial main clauses the finite verb is in AgrS.

One aspect of the interaction of AgrS-to-C movement and verb movement will have to be dealt with now, however. This concerns the morphology of verbs in C, especially in the dialects we have called *double* agreement dialects.

## 3.3.2 Double Agreement Dialects

In double agreement dialects the complementizer agreement and the verbal agreement differ. As mentioned before, the verb in these dialects has verbal agreement in subject initial main clauses, and complementizer agreement in subject-verb inversion constructions. This is illustrated in the following examples, partly repeated from section 3.1.

speul-th-o n n ಣೆ (**₹**1)

East Netherlandic

- 'n.
- wo play ir wi? Waar specifor t wi? where play IPLo'v we "Where do we play" specifi
  - J
- play-1PLv ...datte wij that-1PLc we

Gullie kom-t'-de

Brabantish

come 2PLv/c ġ.

ದ

(<del>7</del>5)

- Wanneer kom-de/"-t gullie? when come 2PLc/v you When do you come?"
  - kom-t -dadde gullio that-2PLc you đ
- come-2PLv
- come 2SGv/c kom-V-Ø Gie you ē. Ŷ

West Flemish

- gie? come 2SGc/v you you Kom-O-j/- t-j ف
  - Are you coming?"
- come-2PLv gie kom-t "..that you are coming." that 2SGc you you -0-ep ij

carry over to the subject-verb inversion constructions in (41b), (42b), and (43b)? Does the analysis of complementizer agreement developed in section 3.3.1

In the analysis of complementizer agreement presented above, AgrS moves to C indepently of verb movement. In the b-sentences in (41-43) however, the verb moves to C overtly (following Den Besten 1977). If the independent functional head movement from AgrS to C. This suggests that in subject-verb inversion constructions, AgrS-to-C movement is part verb moves through AgrS on its way to C, there is no room for and parcel of the movement of the lexical verb to C.

agreement), and another type of agreement shows up on the verb in subject-verb inversion constructions and on the complementizer (the Recall that in these dialects, one type of agreement shows up on the verb in subject initial main clauses and in embedded clauses (the verbal complementizer agreement). This is illustrated in the following table (cf. However, this yields a serious problem in double agreement dialects.

^	( <i>-</i> t)
AgrS	( <del>,</del> (-£)
o	د (-د)
position of verb:	agreement

Accordingly, morphology cannot change in the course of a derivation. If we can associate verbal agreement morphology with verb movement to AgrS, and complementizer agreement morphology with verb movement to But if verb movement to C goes through AgrS, the verbal agreement subject initial main clauses are AgrSPs, as we have assumed throughout, In the Minimalist Program, verbs are inserted in fully inflected form.

morphology apparently has to change into complementizer agreement morphology, which is not allowed.

At this point we may wonder whether there is any reason for V-c (the verb with complementizer agreement morphology) not to move to C across AgrS. This would obviously violate the Head Movement Constraint (see section I.3.1). According to this constraint, heads can only move to the next head up. In Chomsky (1992), the Head Movement Constraint is reduced to the shortest steps requirement of economy of derivation.

intervening functional head  $\gamma$ , the derivation will not converge if  $\gamma$  contains V-features that must be checked by  $\alpha$ . In this core case of Head Movement Constraint violations, the Head Movement Constraint is However, I have argued in section I.3.1 that economy of derivation does not involve a shortest steps requirement. The fact that head movement is as restricted as it is follows from the feature checking requirements that are independently established in the minimalist approach. If a levical head a moves to a functional head  $\beta$ , across an completely redundant.

Suppose  $\alpha$  is an inflected verb,  $\beta$  is C, and  $\gamma$  is AgrS. Movement of the verb to C across AgrS yields a crashing derivation, because this would leave the V-features of AgrS unchecked. Thus, the effects of the Head Movement Constraint are trivially derived.

We may assume that the V-feature of AgrS is present on both members AgrS does not yield a crashing derivation. The verb adjoins to AgrS in C before verb movement takes place. This yields a chain (AgrS,t), where AgrS is adjoined to C, and t is the trace in the original position of AgrS. This derivation is not allowed by the Head Movement Constraint, but it is allowed by the minimalist principles which the Head Movement Constraint must be derived from. This supports our earlier conclusion that Suppose next that AgrS moves to C by independent head movement of the chain (AgrS,t). In this situation, movement of the verb to C across and checks the V-features of AgrS under the required sisterhood condition. the shortest steps requirement is not part of economy of derivation.

morphology on the verb in C. This is unexpected if the verb moves to C verb moves to C directly, skipping AgrS. Such a movement was seen to through AgrS. Instead, the morphology on the verb in C suggests that the Let us now return to the double agreement dialects. The problem we the preceding discussion to be essentially correct, this is not a problem, if it can be shown that the verb movement to C across AgrS is part of a minimalist faced was to account for the appearance of complementizer agreement violate the Head Movement Constraint. Assuming derivation.

First, we have to wonder whether the verb movement to C is triggered by the need to eliminate morphological features. This topic will be treated

more fully in section 5. Since AgrS moves to C, adjunction of the verb to AgrS serves to eliminate the V-feature of AgrS.

Secondly, we have to wonder whether the movement across AgrS (instead of through AgrS) is minimalist. Normally, this would not be the case, since movement across AgrS precludes checking AgrS's V-features. However, in this case AgrS moves to C itself. As discussed above, this means that V may check AgrS's V-features in C. So on both counts, verb movement to C across AgrS contributes to convergence.

A third question to ask is why movement across AgrS is preferred to movement *through* AgrS, instead of the other way around. The theory allows only one type of answer here: skipping AgrS must be the more economical derivation. Consider why this is in fact the case.

If economy of derivations does not contain a shortest steps requirement, it reduces to the requirement that the number of steps in a derivation be as small as possible. Assuming that AgrS-to-C movement turns C into a position where the V-features of AgrS can be checked, the V-features of C and AgrS can be checked in one step by moving the verb to C across the original AgrS position. Movement *through* AgrS is not barred by feature checked requirements, but would yield a derivation with more verb-movement steps. This is excluded by economy of derivation.<sup>7</sup>

This answers the third question that the analysis of V-to-C movement in double agreement dialects poses. In sum, the proposed analysis, which involves a violation of the former Head Movement Constraint, is fully consistent with the Minimalist Program.

The agreement phenomena in double agreement dialects can now be derived in the following way. In these dialects, complementizer agreement is present on the complementizer and on the verb in inversion constructions. In subject initial main clauses, the verb shows another type of agreement, which we called verbal agreement. The verb must be generated in V in fully inflected form, either with complementizer agreement or with verbal agreement. A verb with complementizer agreement or with verbal agreement. A verb with complementizer agreement cannot move to AgrS, and a verb with reales therefore may not involve. verb movement to C, and the derivation of inversion constructions may not involve verb movement to C, and the derivation of inversion conclusions. First, subject initial clauses are not expanded up to the CP <sup>7</sup> One might argue that the addition of the verb movement step is compensated by the circumstances that independent functional head movement of AgrS to C is no longer necessary. If the verb moves to C through AgrS, AgrS gets a free ride to Rowever, in choosing the most economical derivation we are no interested in the global number of steps, but in the question whether each step is necessary or superfluous. From this perspective, AgrS-to-C movement is irrelevant in determining the most economical V-to-C movement.

level. As a result, the verb can move only to AgrS, and the verbal agreement must appear. Second, the verb may not move through AgrS in inversion constructions. This follows from economy of derivation, as discussed above.<sup>8</sup>

In the next section, the morphological aspects of the double agreement phenomenon will be discussed in more detail.

## 3.3.3 Morphological Issues

We have now reached the following description of the agreement pattern in double agreement dialects. When the verb stays in V or moves to AgrS it shows verbal agreement morphology. When the verb moves across AgrS to C, it shows complementizer agreement morphology. In this subsection, I will try to be a bit more explicit about the relation between syntax and morphology in this pattern.

In the minimalist approach, elements enter the syntactic component in fully inflected form. This implies that in complementizer agreement dialects, there must be a paradigm of complementizers? A feature must be associated with each form of the paradigm. This feature has to match the feature of AgrS after AgrS-to-C movement.

It is tempting to suggest that complementizers universally carry features that have to match the features of lower functional heads. If this is correct, an explanation must be found for the fact the complementizer agreement is typologically rare. I will return to this issue in section 4.2.

If complementizers carry a feature, the question arises what kind of feature this is. Since complementizer agreement is subject agreement, one could argue that the complementizer feature is an N-feature. However, this raises the previously mentioned issue why subjects cannot be licensed in the specifier position of CP.

I would like to suggest that the feature carried by the complementizer is not an independent N-feature, but a duplicate of the N-feature of AgrS. When AgrS adjoins to C, its features have to match the relevant features of C, carried by the complementizer. The duplicate feature may be automatically eliminated when the N-feature of AgrS is eliminated. This <sup>6</sup> The question arises whether topicalization of the subject in double agreement dialects would give rise to verbal agreement on the verb or complementizer agreement. The facts are that in these cases the verb always shows verbal agreement, This is also the case in the Shandard Dutch SG, where the verb shows the double agreement pattern (III gaal/\*ga YOU gp.). The derivation of these constructions therefore must involve verb movement to AgrS before the verb movement to accevently, topicalization in these constructions does not involve independent AgrS-to-C movement.

<sup>6</sup> Goeman (1980) reaches the same cocclusion.

can be thought of as a result of the AgrS-to-C movement. Alternatively, we may assume that the duplicate feature is invisible at the interface levels, and hence need not be eliminated.<sup>10</sup>

Viewed in this way, the presence of a particular duplicate feature does not represent a *trigger* for movement, but a *condition* for movement. Put differently, AgrS-to-C movement is possible on condition that the duplicate feature be non-distinct from the relevant feature of AgrS.

The concept of a duplicate feature allows us to set up a paradigm for verbs in double agreement dialects. As always, particular inflectional verb forms cannot be derived in the syntax. Hence, both the complementizer agreement verb form (V-c) and the verbal agreement verb form (V-v) must be present from the outset.

We can now say that the feature specification of V-c is equal to the feature specification of V-v, and that V-c in addition has the duplicate feature associated with the complementizer agreement. Thus, a particular V-v form like East Netherlandic speult will be (+present,[1PL,/Gagr]], and the corresponding V-c form speule will be (+present,[1PL,,dagr]], where agris the duplicate feature of the N-feature of AgrS.<sup>11</sup> I will assume that when the verb has a paradigm of forms in which one form is [F-agr] and another form is [Cagr] the verb in C must take the marked (+agr] form. Thus, the condition of MS-vo-C movement is that the duplicate feature of the element in C must be maximally non-distinct from the relevant feature of AgrS.

The mechanism of complementizer agreement can now be pictured as follows. AgrS moves to C, creating a chain (AgrS,4). This movement serves to make AgrS [+accessible], so that the N-features of AgrS can be checked. A condition on AgrS-to-C movement is that the features of the complementizer or the verb in C be maximally non-distinct from the features of AgrS. In double agreement dialects, this condition is not met when a verb with verb in O be moves to C, because verbal morphology is associated with a feature [Øagr] in double agreement dialects, and another verb form with the duplicate feature [+agr] is available. <sup>10</sup> Notice that complementizer agreement never replaces the agreement on the verb. In this proper, complementizer agreement is fundamentally different from do-support. If the complementizer agreement feature is too weak to perform agreement on its own, it may ulso be weak enough not to owned no adject at the LF interface. <sup>11</sup> Notice that the duplicate feature is part of the person/number feature specification, not an independent feature. Thus, the two verb forms (one with verbal agreement morphology) one with complementizer agreement morphology) constitute a paradigm with. The person/number paradigm. The feature specification follows Jakobson (1938), where the unmarked value is neither + nor  $\cdot$ . Consequently, we can assume that the duplicate feature is precification in that the unmarked for the the unmarked with the unmarked  $2n_{\rm eff}$  specification in single agreement that the duplicate feature is precised in that the unmarked value is neither + nor  $\cdot$ .

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In complementizer agreement dialects that do not display the double agreement pattern, the morphological technicalities are more straightforward, since the agreement of the complementizer is directly linked to person or number. Thus, the South Hollandic plural complementizer can be represented as [PL/Øagr], and the singular complementizer can be represented as [SG,Øagr]. Agr5-to-C movement meets the nondistinctness condition on complementizer agreement in a trivial way.

distinctness condition on complementizer agreement in a trivial way. In single agreement dialects which do not show complementizer agreement, neither the verb nor the complementizer shows a morphological paradigm in connection with AgrS-to-C movement. Hence, we may characterize the verb forms and complementizers as [@agr] in each case. As a result, AgrS-to-C movement is not excluded in these dialects, since the unmarked specification of the duplicate feature does not violate the non-distinctness condition on AgrS-to-C movement.

# 3.3.4 Complementizer Agreement and Verb Movement

In the analysis presented thus far, AgrS-to-C interacts with verb movement. In embedded clauses, where AgrS-to-C takes place, the verb does not move to AgrS. In subject initial main clauses, where AgrS-to-C cannot take place, the verb moves to AgrS. This is especially clear in double agreement dialects, in which the morphology of the verb varies depending on whether the verb moves to AgrS or to C.

I have proposed that AgrS-to-C movement and verb movement to AgrS serve the same goal. Both operations have the effect that AgrS becomes [+accessible], i.e., the Projection of AgrS may take over the features of AgrS. As a result, the N-features of AgrS can be checked by feature matching between the subject in the specifier position of AgrS and its sister, the Projection of AgrS (cf. section 1.3.2).

This analysis makes the prediction that all complementizer agreement dialects show the verb movement asymmetry between main clauses and embedded clauses illustrated for Standard Dutch in section II.1.2.1. This prediction is borne out, as the following facts show:

-					•	
( <del>44</del> ) 3.	ಕ	28	komme	morge		South Hollandic
		they	come-PL	they come-PL tomorrow		
	<u>م</u>	-datte	20	morge	komme	
		ł	•		1	

that.PL they compared Komme-PL

that-PL they tomorrow co "...that they come tomorrow."

VERB MOVEMENT

DUTCE SYNTAX

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Wreat Flamich			Groningen		Frisian		Munich Bavarian		Luxemburgish	
Tt. Torman unrediance	come-1SG	dan-k vandoage komen that-ISG I-CI today come-ISG "that I come today."	Doe koms nnit vou coms-25G not	pë t	komst	you come-250 courtan datst-do j'un komst that-25G you tonicht come-25G	kommsd	you america wu damidsd ned kommsd sothar.28G not ame-28G	Du wëlls nët	you want-2SG not ob s du nët wëlls
	đ	ف	ë	۵,	ė	ف	સં	à	ਲਂ	,e
(	<u>}</u>		(46)		(47)		(48)		(49)	

In the dialects illustrated, the adverb follows the finite verb in main clauses (the a-sentences), but precedes it in embedded clauses (the bsentences). In each of these sentences, a reversal of the verb-adverb order would be ungrammatical, just like in Standard Dutch.

At this point, recall the discussion of the syntactic properties of complementizer agreement dialects in section 3.2.2. It turned out that othere is not a cluster of syntactic properties which all (or most) and only complementizer agreement dialects share, and which could therefore be associated with AgrS-to-C movement. As (44-49) bear out, there is a syntactic phenomenon associated with abstract AgrS-to-C movement which is invariant across complementizer agreement dialects, namely the absence of verb movement when AgrS-to-C takes place.

Notice, however, that AgrS-to-C cannot be restricted to constructions with *overt* complementizer agreement. Many complementizer agreement dialects do not show a full complementizer agreement paradigm. For example, the complementizer agreement asymmetry is pervasive in all complementizer agreement asymmetry is pervasive in all complementizer agreement dialects, regardless the person or number of the verb. This is accounted for on the assumption that the element in C bas an unmarked [Oagr] duplicate feature when there is no sign of overt complementizer agreement. The presence of this feature still allows AgrS-

to-C movement, since the unmarked feature is non-distinct from the Nfeature of AgrS.

From here, it is only a small step to assume that dialects of Dutch without complementizer agreement, such as Standard Dutch, have AgrSto-C movement as well. We may assume that in these dialects, the complementizer invariably carries the unmarked (Gagr) duplicate feature which allows AgrS-to-C movement. On these assumptions, the absence of verb movement in embedded clauses in Standard Dutch would be accounted for. This will be the starting point of the discussion of the verb movement asymmetry in Standard Dutch in section 4.

To conclude this subsection, recall that Standard Dutch is in a sense a double agreement dialect. This may be concluded from the agreement pattern in the second person singular (cf. Goeman 1992);<sup>12</sup>

omt''h bBe kom come	
Jij komt"kom you come Wanneer kom"komt jij? when come vou	

(<u>2</u>0)

Standard Dutch

"When do you come?" c. \_\_dat jij komt"kom that you come The two verb forms can now be analyzed as in double agreement dialects. In the verbal paradigm there is a subparadigm connected with the second person singular. According to this subparadigm, *komt* is [25G,79ag1 and *kom* is [25G,+ag7]. As a result, only *kom* is allowed in C, because *kom kon* the feature that is maximally non-distinct from the features of Ag72. If is not likely that the final -t in (50b) is elided, because of the impossibility of such elision in the third person in identical contexts (*Trancere Snatt 'son List*' 'when the 250 Also, under an elision analysis one predicts that the fand. - will also wup again when the 250 pronoun is modified, e.g. in *ook iji* 'also you'. However, this is not the case. Remarkably, *"warrares form ook jiji* (when come also you' and *"warrares form ook jiji* (when one-t also you! also youl are such each appenently because of a requirement that the 250 web form be able to pass as a 350 web form (considering the pair *form jiji/kom thij* (come youcomes be able to pass as a 350 web form (considering the pair *form jiji/kom thij* (come youcomes when the, and the grammaticality of *warrare home of hij* (when come-t also youl and *warrares' kom oiji jioh* to *warrare home to kiji* (when one-t also youl are usenteer *kom hiji yook jiji (when one holiso* you!), thents to Eric Hookstra for this observation). The ungrammaticality of *"warneer komt ook jij* (when come-t also youl argues strongly against an elision analysis of the 250 web form *kom. (I*n thet *warneer kom ook jij* (when come also youl is slightly better than *warneer komt ook jij* (when come-t also youl, in withen come also youl is slightly better than *warneer komt ook jij* (when come-t also youl, in wy judgmenter.

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### 3.4 Conclusion

In this section, I have described complementizer agreement as a morphological reflex of AgrS-to-C movement. It has also become clear that AgrS-to-C movement is an abstract functional head movement, which may take place independently of verb movement. AgrS-to-C movement has novement superfluous. This will be discussed more fully in section 4. If verb movement and complementizer agreement do interact in the way suggested here, it becomes unlikely that AgrS-to-C movement be restricted to dialects with overt complementizer agreement. In accordance with this, it has become clear that there is not an obvious cluster of syntactic supperties which all and only overt complementizer agreement full action share.

Another important conclusion that can be drawn from the analysis presented here is that Dutch has a separate functional projection for subject agreement, AgrSP. This confirms the starting point of this book, according to which the structure of the functional domain of Dutch is as assouned in the Minimalist Program. The analysis presented here provides strong confirmation for the applicability of the Minimalist Program to the syntax of Dutch.

Finally, the analysis of double agreement dialects (which possibly include Standard Dutch) allows us to draw a conclusion as to the central double agreement dialects, verbs in C carry special agreement, identical to the agreement dialects, verbs in C carry special agreement, identical to the agreement on the complementizer. In subject initial main clauses, the verb last the ordinary verbal agreement. Hence, the verb cannot be in C in these constructions. Since the verb has clearly moved out of its basic position, and, furthermore, is obligatorily adjacent to the subject, the verb must be in a lower functional head in subject initial main clauses, agreement dialects. In the spirit of this section, this conclusion carries over to other dialects of Dutch, including Standard Dutch.

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## 4 The Verb Movement Asymmetry

In section II.4.3, I argued that the most straightforward implementation of the minimalist approach to the syntax of Dutch entails that in subject initial main clauses in Dutch, the finite verb is not in C but in AgrS. This leaves one question open: Why does verb movement to AgrS not take place in embedded clauses as well?

In this section, I will present an analysis of this asymmetry between main clauses and embedded clauses. The central ingredient of the analysis will be independent AgrS-to-C movement.

will be independent AgrS-to-C movement. AgrS-to-C movement was argued to take place in complementizer agreement dialects in section 3. I will now argue that the analysis presented there carries over to Standard Dutch. The upshot of the analysis will be that movement of AgrS to C makes movement of the verb to AgrS superfluous.<sup>1</sup>

to AgrS superfluous.<sup>1</sup> If this analysis of verb movement is correct, it constitutes another argument in support of the hypothesis that all functional projections in Dutch are head initial.

This section is organized in the following way. In section 4.1, the analysis of verb movement and complementizer agreement developed in section 3 is applied to Standard Dutch. In section 4.2, the hypothesis is advanced that in Germanue, all and only verb movement asymmetry languages (Dutch, Frisian, German, Mainland Scandinavian) have abstract Agres-to-C movement blocking verb movement in embedded clauses. Finally, the effect of functional head movement on the status of specifier positions is discussed in sections 4.3 and 4.4.

# 4.1 The Verb Movement Asymmetry in Dutch

4.1.1 Generalizing AgrS-to-C Movement

The position of the finite verb in main clauses and embedded clauses in Dutch is illustrated in (1), repeated from II.1.2.1: <sup>1</sup> The question why movement of the verb to C in embedded clauses is excluded will be discussed in section 6.3.

- Marrie Marry krust kisses kust kisses Marie Marie Jan John Jan \* ed. Э
- ė
- Marie kuases Jan kust Marie John kisses Mary Jan Marie kust "..that John kisses Mary." ..dat Jan kust M that John kisses M Mary Halo \_\_dat that à đ ଖି

As explained in section II.4.3, the subject and the finite verb have to be adjacent in subject initial main clauses:

- \* d ම
- kust Marie kisses Mary altijd Marie
  - à,
- always Mary Jan nltijd kust Mari Join always kisses Mary Jan kust altijd Ma John kisses always Mary. "John always kisses Mary."

I take this to mean that the subject and the verb are in a spec-head configuration in (la).

Assuming that in neutral constructions the subject cannot move to a position higher than the spec of AgrS, and considering that the subject appears to the left of sentence adverbials (as in (3b)), we may conclude that the verb is in a functional head position in (1a), presumably AgrS.

If correct, this analysis of verb movement in subject initial main clauses provides a compelling argument in support of the hypothesis that AgrSP is head initial in Dutch.

However, the analysis cannot be considered complete if no explanation is provided for the absence of verb movement to AgrS in embedded clauses (cf. (2)).

complementizer is present. Standardly, this is taken to indicate that the finite verb and the complementizer vie for the same position, C (Koster 1978a, Den Besten 1989, Lenerz 1985). If this view were correct, the position of the finite verb in (1) would have no bearing on the issue of the Verb movement in Dutch and German never takes place when the position of AgrS and T in Dutch.<sup>2</sup>

When two elements are in complementary distribution they do not accessarily have to be represented in one position. The presence and

<sup>2</sup> Importantly, if it were correct that the finite verb in Dutch always moves to C, this would not prove, or even suggest, that functional projections in Dutch are not head initial. On the contrary, this analysis would imply that CP in Dutch is head initial, and, in the absence of evidence to the contrary, we would have to draw a similar conclusion for the other functional

position of each element has to be explained independently, and the apparent interaction of the two elements has to be described in terms of what explains their distribution in the first place.

same position in Dutch does not provide an explanation for the distribution of the complementizer and the verb. This explanation can only be reached if there is an independent reason for the verb to move to the At this point, the problem posed by the pattern in (1)-(2) can be formulated as follows. If the complementary distribution of the complementizer and the verb is explained by the fact that the verb has to move to the complementizer position, there must be a trigger TR for verb movement to C.<sup>3</sup> But if TR exists, it must force the verb to move to C in Thus, postulating that the verb and the complementizer are in the position of the complementizer when the complementizer is not present.

embedded clauses as well. Since movement of the verb to C in embedded

clauses is blocked by the presence of the complementizer, embedded clauses like (2a) are predicted to be ungrammatical. This is contrary to fact, hence TR does not exist. If TR does not exist, there is no reason for

the complementizer in Dutch can only be explained by assuming that the verb does *not* move to the complementizer position. Fortunately, this way of accommodating a complementary distribution is neither logically nor theoretically impossible. It may be the case, for instance, that the It turns out, then, that the complementary distribution of the verb and presence of a complementizer in C makes movement of the verb to a lower the verb to move to C in (1a) either. functional head superfluous.

An analysis along these lines was first proposed by Travis (1984, 1991). Travis argues that the verb movement in (1) is a function of the topmost functional head in (1) is not properly governed; therefore it has Empty Category Principle (ECP), applied to heads. Empty heads, in her view, must be either properly governed or filled. Assuming that subject initial main clauses are IPs (i.e. AgrSPs, in later terminology), the to be filled by the verb, moving to I (AgrS). In (2), on the other hand, the

features to begin with. The features that are conventionally associated with C are not associated with the verb itself, but with other grammatical features like tense, and aspect accessed on the other hand, do not have apparent 'complementizer features'. It may be necessary to draw a latitation between Intentional heads that are associated with grammatical features of the verb and functional heads that are not. If so, Agr and T belong to the former and C to the latter. This distinction is independently proposed in Chomsiv and Lasnik (1991:37), who call the former category *L-related* L-relatedness is redefined in terms of the presence of *V*-features in Chomsky (1992:40), where it is suggested that C is not L-related (see section 5.3.1). <sup>1</sup> We might conceive of TR as a V-fenture of C. However, it is not clear that C contains V-

empty head I is governed by the complementizer in C. This makes verb movement to I superfluous.<sup>4</sup>

Travis' reduction of Germanic verb movement to the ECP has been criticized in Schwartz and Vikner (1989), Schwartz and Tomaselli (1991:270), Vikner and Schwartz (1991) (cf. also Holmberg 1986:123f, Tomaselli 1990:131).

the obligatory verb movement in (4), from German, is not expected if we assume that the matrix verb governs the C-position of the embedded verb.<sup>6</sup> Schwartz and Vikner (1989:41) argue that

gegessen? gegessen? enten Womit glaubte sie hatte das Kind das Brot with what thought she had the child the bread "What did she think the child are the bread with?" Womit glaubte sie das Kind hatte das Brot with what thought she the child had the bread \* Womit ರ ð, €

eaten

- The matrix verb glauden 'think' optionally takes a complement clause without a complementizer. In that case, the verb moves to the second position in the complement clause:
- Sie glaubte das Kind hatto das Brot gegesson she thought the child had the bread enten "Sle blought that estim the bread." Sie glaubte das Kind das Brot gegessen hatt she thought the child the bread onten had 4 6
- hatte à.

yields subject-verb inversion. Schwartz and Vikner argue, correctly, that this subject-verb inversion is not expected if the matrix verb governs the As (4) shows, extraction out of the complementizerless embedded clause empty C-position.

various verb movements associated with the paradigm in (1)-(2) are not explained by the ECP. However, even if Travis (1984, 1991) was misguided in reducing verb movement to the ECP, this in no way invalidates her description of the verb movement asymmetry in Dutch and Following Schwartz and Vikner (1989), we may conclude that the

This prevents movement from occurring in (embedded clauses in German) (Travis 1991:357)." The iden that verb movement in embedded clauses is superfluous from the point of view of \* More exactly, Travis assumes that the governing head identifies' the empty head position. In order for a head to be identified, its feature complex must be complete. "If the feature complex of a node is complete (as it must be in order to be identified), the node is "filled". economy of derivations was first proposed in Zwurt (1990b), as far as I can soe (cf. also Zwart 1991a:85).

<sup>6</sup> This assumption seems reasonable from an extraction theory point of view. Therefore, I will ignore the other options discussed by Schwartz and Vitner (1988), Cf. Zwart (1991a) for more Viscrassion

German. The crucial point in that analysis remains that the presence of a complementizer in C blocks verb movement to a lower functional head, This is the type of analysis we need, as I have argued above.

I will therefore assume in what follows, that Travis' description of the \$ supplement her analysis with the correct trigger for verb movement in verb movement asymmetry is essentially correct. I also hope

The key elements of this part of the analysis have all been introduced in section 3, on complementizer agreement.

others do not, no cluster of syntactic properties could be identified which Recall that two interesting conclusions about complementizer agreement dialects have emerged. First, although some dialects of Dutch (and German, and Frisian) show overt complementizer agreement and all dialects of Dutch (and German, and Frisian) have one syntactic correlates with the presence of overt complementizer agreement. Second, property in common: the verb movement asymmetry.

movement in section 3. AgrS-to-C movement takes place to ensure the elimination of the strong N-feature of AgrS. It was assumed that the N-feature of AgrS can only be eliminated if the N-features of AgrS are present on the Projection of AgrS, the sister of the specifier of AgrSP. This sisterhood configuration (section I.3.2). Thus, movement of the subject to to the N-features of AgrS if and only if AgrS is [+accessible]. I assumed Complementizer agreement was analyzed as a reflex of AgrS-to-C follows from the generalization that feature matching requires a the specifier position of AgrSP does not suffice if the Projection of AgrS has no access to the N-features of AgrS. The Projection of AgrS has access that AgrS is [-accessible] in complementizer agreement dialects, and that AgrS-to-C movement makes AgrS [+accessible].

represented in AgrS, and N-feature checking under sisterhood cannot take Consider now what happens in subject initial main clauses. Again, the N-feature of AgrS is strong. This forces movement of the subject to the spec of AgrS. However, this does not suffice, since AgrS is [-accessible]. Because of that, the Projection of AgrS has no access to the N-feature place. Therefore, AgrS has to be made [+accessible] in some way.

I would like to propose that verb movement to AgrS has the same Thus, verb movement to AgrS, like AgrS-to-C movement serves to make effect as AgrS-to-C movement: it makes a [-accessible] AgrS [+accessible] checking of the strong N-features of AgrS possible.

Verb Movement to a head  $\alpha$  makes  $\alpha$  [+accessible]

The question arises what AgrS-to-C movement and verb movement to AgrS have in common that could yield the effect that AgrS is made [+accessible]. I will return to this issue in section 4.4.

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Importantly, this analysis makes it possible to characterize the V-feature of AgrS as weak. If the V-feature of AgrS is weak, movement of

the V to AgrS must be procrastinated until LF, unless violating Procrastination is the only way to contribute to convergence.<sup>6</sup> In embedded clauses, the independent AgrS-to-C movement makes AgrS absence of verb movement to AgrS in embedded clauses follows from the [+accessible], hence verb movement to AgrS is superfluous. Thus, the system. In neutral order main clauses, no AgrS-to-C movement is possible,

and verb movement to AgrS takes place as a Last Resort operation. The net result is that AgrS is filled by the verb if and only if the C constructions, verb movement is excluded by the economy related principle of Procrastination. This result follows from two assumptions regarding position is absent. In embedded clauses, and in topicalizations and whcomplementizer agreement dialects:

The N-feature of AgrS is strong AgrS is (-accessible)

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Program, it follows directly that the complementizer agreement dialects From these assumptions, and the general assumptions of the Minimalist should display the verb movement asymmetry.

complementizer agreement dialects of Dutch. It is now the optimal hypothesis to assume that Standard Dutch has AgrS-to-C movement just Standard Dutch shows the same verb movement asymmetry as the like the complementizer agreement dialects of Dutch.

This hypothesis is legitimized by the observation that no syntactic properties are crucially associated with *overt* complementizer agreement morphology. The AgrS-to-C movement underlying complementizer agreement is very likely to cause some syntactic effect. On the assumption that AgrS-to-C movement takes place in all dialects of Dutch, AgrS-to-C movement has a very tangible syntactic consequence in that it makes Vto-AgrS movement superfluous. I will therefore assume that the analysis of verb movement in complementizer agreement dialects developed in section 3 carries over to all dialects of Dutch.<sup>7</sup> <sup>6</sup> Recall that Procreastination can be violated without effect on grammaticality. Crucially, movement of the verb to a functional head carrying a weak V-feature does not violate Greed, since the V-feature would have to be checked at some point in the derivation anyhow.

 $^7$  The hypothesis that AgrS-to-C movement takes place in dialects without overt complementizer agreement is also compatible with the analysis of the morphological aspects of AgrS-to-C movement presented in section 3.3.3. I have argued there that dialects writhout overt complementizer agreement have an unmarked [20gr] duplicate fouture on the complementizer. AgrS-to-C movement is not blocked, because the complementizer does not contain a trubitate feature which is distinct from the features of AgrS.

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are weak. An asymmetry of this kind could not exist if the V-feature of AgrS were strong. This would force the verb to move in both main and embedded clauses. On the other hand, if the V-feature of AgrS is weak, the absence of verb movement in embedded clauses is expected. It is exactly the independently established principle that Procrastination can

be violated (cf. Chomsky 1992:45) that makes it possible to have verb movement in one type of clauses only. Thus, the absence of verb movement in embedded clauses in Dutch follows from economy of derivation.<sup>9</sup> The presence of verb movement in subject initial main clauses follows from the need to fill AgrS, in order to eliminate the N-feature of AgrS. Verb movement in topicalizations and wh-constructions, I claim, is an entirely different matter, which will be the

topic of discussion in section 5. If this analysis is correct, the conclusion that the Dutch IP-system is head initial is fully legitimate. In the following subsection, I will briefly review a number of standard arguments that have been adduced in the literature to support the view that verb movement in Germanic verb second languages' invariably targets C.

# 4.1.2 Arguments For Generalized V-to-C Movement

languages) that I will discuss in this section are mainly drawn from Den Besten (1977:passim), Holmberg (1986:94ff), Tomaselli (1990:25f), Vikner The arguments for generalized V-to-C movement in Dutch (and related (1991a:53f), and Thráinsson (1991).

As I showed in section II.3.2, some of the more familiar arguments merely show that the verb is in C in inversion constructions.<sup>10</sup> These are not arguments for generalized V-to-C movement. I will therefore leave them out of the discussion. For the moment, I will accept these arguments as showing that the verb moves to C in inversion constructions.

The following phenomena have been argued to support generalized Vto-C movement in Dutch and related languages:

- The finite verb is not fronted in embedded clauses
- The fronted verb and the complementizer show the same distributional effects 나 야
  - Narrative inversion
  - Auxiliary deletion in Swedish
- <sup>16</sup> Cf Den Besten 1977 (1989:25). ° Cf. Zwart 1990b, 1991a:85.
  - <sup>11</sup> See section 5 of this chapter.

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DUTCH SYNTAX

Текв Мочемент 199	N-feature of AgrS can be checked. Verb movement and complementizer agreement interact exactly in the way predicted by our analysis. <sup>14</sup> Thus, the complementary occurrence of complementizers and verb fronting follows from our analysis, as well as the apparent exceptions to this complementarity.	b. The fronted verb and the complementizer show the same distributional effects.	And prenomenton 1 have in mind ngures in a classical argument in Jen Besten (1977:256), which is already present in Paardekooper (1961). Paardekooper and Den Besten show that subject ditics in Dutch must be adjacent to both the complementizer and the fronted verb:	<ul> <li>(10) adat je gistoren ziek was that you yesterday iil were "that you wore iil yesterday."</li> <li>b. edat gistoren je ziek was that yesterday you iil were</li> </ul>	<ul> <li>(1.1) a. Waaroom was je gosteeren ziek?</li> <li>why were you vesterday?</li> <li>"Why were you ill yesterday?"</li> <li>b. "Waaroom was gosteren je ziek?</li> <li>why were yesterday you ill</li> </ul>	Den Besten's conclusion was that the fronted verb in (11) is in the same position as the complementizer in (10). However, we cannot conclude from this paradigm alone that the fronted verb is always in the complementizer position. This can only be concluded if the order <i>verb-subject cliftc</i> also shows up in neutral main clauses. As (12) shows, this is not the case:	<ul> <li>(12) a. Was jo gistoron ziek (declarative) were you yesterday ill Wou wenilyesterday?</li> <li>b. Jo was gistoren ziek you were jilyesterday ill "You were ill yesterday."</li> </ul>	If anything, the distribution of the subject clitics in Dutch shows that the fronted verb is <i>not</i> always in the complementizer position. Conversely, it is easy to show that the complementizer and the verb do not show the same distributional effects in a number of cases. For	<sup>14</sup> See section 5.3.3 for a more detailed analysis of embedded verb movement constructions in Ducch.
198 DUTCH SYNTAX	(3) hy sei dat hy hie der gim sin oan he suid that he had there no sense oa "He suid that he dida't foel like it." Assuming generalized V-to-C movement, there must be a recursion of CPs in (8) (De Haan and Weerman 1986). <sup>13</sup> In other words, both dat and hie	in (8) must be in a head C, and <i>h</i> y must be in the spec of the lower C. In our analysis, (8) can be described as movement of the embedded verb <i>hie</i> 'had' to AgrS.	Verb movement to AgrS in embedded clauses is excluded, in our analysis, by economy of derivations. The V-feature of AgrS is weak, therefore overt movement of the verb to AgrS is not triggered. In subject initial main clauses, the economy-related principle Procrastination is over-moled by the independent reconvisionment that is a observed.	C movement, AgrS must be filled by the vertue of the advector of the checking possible. In embedded clauses it is not necessary to overrule the economy principle, because, as we have assumed, AgrS moves to C. Given this analysis, (8) also instantiates an overruling of the economy principle Procreatination Such verminian can only take olabor if for some	Presson, Agrs-to-C movement came place. We predict, therefore, that reason, Agrs-to-C movement cannot take place. We predict, therefore, that embedded verb movement and complementizer agreement never cooccur. Fristan being a complementizer agreement language, we can test this prediction immediately. As (9) shows, complementizer agreement is only possible in Fristan when the embedded verp remains in final possibion (Van	der Meer 1991): (3) a. Beit sei datst do soks net lenuwe moast Frisian (3) a. Beit sei datst do soks net lenwe must-2SG "Dad said that you should not believe such things." b. Heit sei dat"datst do moast soks net leauwe dat said that wu should not believe such not believe "Dad said that wu should not believe such not believe	In (9a), complementizer agreement appears. This, we have argued, signals AgrS-to-C movement, which makes AgrS (+accessible) and makes V-to- AgrS superfluous. In (9b), the impossibility of complementizer agreement shows that AgrS-to-C movement has not taken place. (Accessible) and the verb must move to AgrS to make sure AgrS becomes (+accessible) and the	<sup>12</sup> Holmberg (1396:110) proposes CP-recursion for similar facts in Swedish. Holmberg argues that CP-recursion (his S-recursion) is justified by the observation that the order TOFIC-YERB- SUBARDT is also possible in ombedded verb soond chanses (cf. Platzack 1988:259). See also Marácz (1989) for extensive discussion of CP-recursion.	

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Verb Movement	standard analysis. I will therefore postpone discussion of this fact until section 5. All other constructions in which the fronted verb and the complementizer show a parallel distribution are inversion constructions. These involve counterfactuals (15), conditionals (16), and imperatives (17):	<ul> <li>(15) a. Was jij optijd gekomen</li> <li>were you on tine come</li> <li>"Ead you been on time"</li> <li>h. Als jij op tijd gekomen was</li> <li>"f you on time come was</li> <li>"f you had been on time"</li> </ul>	(1.6) a. Ben je optijd refyou are otime b. Als je optijd bent ff you are otime. are	<ul> <li>(17) a. Wees jij nou eeaas op tijd!</li> <li>be you now once on time</li> <li>"Be on time for a change!"</li> <li>b. Dat jij nou eens op tijd bent!</li> <li>that you now once on time are</li> <li>"Make sure you are on time for a change!"</li> </ul>	All these constructions have no non-inverted counterpart. Therefore, they are useless if we want to find out whether the verb moves to C always. c. Narrative inversion. Den Besten (1977; 1989:32) notes the existence in Dutch of constructions with the verb in the first position:	<ol> <li>Atijn, ik naar die vent toe.</li> <li>so I to that guy pri</li> <li>Begünteile me tooh een verhaal op te hangen starts-he me nodal a story on to hang</li> <li>2. 77 Hij begünt me tooh een verhaal op te hangen he starts me modal a story on to hang</li> </ol>	"So I went over to this guy, and he starts to tell mo a (cruzy) story (you wouldn't bolieve it)." As Den Besten indicates, this construction is particularly used in a certain narrative style of spoken Dutch, and is extremely effective in telling a story vor a joke. Narrative inversion does not occur in complement clauses.
DUTCE SYNTAX	example, subjects immediately precede the verb in neutral order clauses in Dutch, but are not allowed to precede the complementizer: (13) a. Jan (*altijd) kust Marie b. * .Jan dat Marie kust	John that Mary "that John kisses Mary "that John kisses Mary "thu topics immediated" tctions, but are not allow	<ul> <li>a. Honden ("attijd) bijt Jan (altijd) dogs always bites:</li> <li>"Dogs, John always bites:</li> <li>"Dogs, John always bites:</li> <li>"booden dat Jan aluays bites</li> <li>"that John always bites dogs."</li> </ul>	(13b) is puzzling on the standard assumption that the complementizer takes over the Nominative Case assigning property of the verb in embedded clauses. In that case, it is unclear why the verb would assign Case under spec-head agreement in (13a), whereas the complementizer apparently cannot assign Case under spec-head agreement in (13b). In our analysis, the subject is always assigned Case (nore accurately, other or the subject is always assigned Case (nore accurately,	aways gets its reactures checked, in a susterbood configuration in Agrich (see section 1.3.2 for the reduction of spec-head agreement to sisterhood). This excludes (13b), on the assumption that the complementizer is in C. (14b) apparently demonstrates that topics cannot be in the specifier position of CP, when C is occupied by a complementizer. Since I have chosen to adopt Den Besten's analysis of topicalization as involving verb movement to C, (14b) is as much a problem for my analysis as it is for the	<sup>4</sup> In collequial Dutch, constructions like (i) can be heard overy now and then. According to my intuition, the verb has to appear between the preposed adverb and the complementizer in embedded clauses (i). If so, (i) should presumably be analyzed as long distance scrambing rather than as movement to Spee.CP. (See Van den Berg 1992 for possibly related constructions in Middle Dutch.)	Redeche morgens dut je zoa kommen I thought tomorrow that you would come T thought thur you would come comorrow. dat it morgens datcht dath za kon kommen that I though that you would come tomorrow. "that i though that you would come tomorrow."

"Sanctioning by preceding discourse or pragmatics' appears to be generally possible in standard cases of narrative inversion like (18). The inverted continuation in (18.2) inevitably conveys the information that the two actions described are contiguous, and presumably also causally related. The non-inverted continuation in (18.2) characteristically lacks this information. We could describe the narrative inversion in (18.2) as containing an empty operator in the specifier of CP, which is pragmatically interpreted as indicating contiguity. <sup>18</sup> In the present tense, narrative inversion constructions are ambiguous between a conditional and a non-conditional reading: (22) Speel ik een aas, speelt mijn partner troef play I an ace play an ace, my partner troef play I an ace play an ace, my partner troef (22) means: everytime I play an ace, my partner always trumps, or: when I played an ace, my partner trumped. The conditional interpretation is forced when an adverb like <i>altijd</i> 'always' is added in the second clause; therein a conditional interpretation as a subordinate claus. The second clause; and in the present tense, narrative inversion constructions make a great the interform a conditional interpretation as the second clause; therein a conditional interpretation about this is that if a sory is opened with a narrative interform the interpretation about this is that if a sory is opened with a narrative interior observed with the more formal of site when a define the suboral allows practake with the more formal of site when a define the suboral and the second to clause. The adverse are the opening sentence must and to be Swart wear'. Curcially, in the assents the opening sentence must be followed by what looks Beyrt wear'.	<ul> <li>(20) (Ook) al hield Jan van Marie, Marie zag meer in Piet also if held John of Mary Mary aw more in Piet There though John loved Mary, Mary like Peeb better."</li> <li>The element (ook) al can be modified by zelfs 'even':</li> <li>(21) Zelfs (ook) al hield Jan van Marie,</li> <li>(21) Zelfs (ook) al bield Jan van Marie,</li> <li>(21) Zelfs (John loved Mary,,</li> <li>"Found be the element in spec, CP triggering verb movement in the familiar vary (see section 5). In that case, (19) can be derived from (20) by a kind of topic drop (cf. Cardinaletti 1990).</li> <li>(21) Pollowing Cinque (1990). Cardinaletti (1990:75) argues that topic drop involves an empty operator binding a pronominal variable. The construction is only possible if the operator is "sanctioned by the preceding discourse or by pragmatics".</li> <li>"Sanctioning by preceding discourse or pragmatics".</li> <li>"Sanctioning by preceding discourse or pragmatics" bererally possible in standard cases of narrative inversion like (18). The inverted orbituation that the</li></ul>
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Den Besten analyzes the inversion in (18) as verb preposing (to C) without XP-preposing (to the spec of CP). It is unclear, however, why XPmovement is suppressed in this construction, and how the lack of XPmovement is related to the special character of this construction.

in our analysis, since we have assumed that the subject always moves to the spec of AgrSP. The marked character of the inversion in (18) can then Let us follow Den Besten in assuming that the verb in the inverted construction in (18) is in C. If so, the order Verb-Subject is not unexpected

be analyzed as an additional movement of the verb to C. At this point, there are two possibilities. Bither there is an empty element in the specifier of CP in (18.2) which triggers the verb movement (see section 5), or there is no such empty element, and (18.2) is a kind of verb topicalization'.

Verb topicalization without a triggering element in spec,CP would be strange from a minimalist point of view. It could only take place if C hosted a particular V-feature which is strong in these constructions only. This would make a very ad hoc analysis.<sup>16</sup> Verb topicalization in narrative inversion constructions generally does not show specific stress features on the fronted verb. This also makes an analysis focusing on properties of the verb alone doubtful.

An analysis involving an empty operator triggering movement to Spec,CP in narrative inversion constructions appears to be more promising.

First, as Den Besten (1977;1989:33) observes, certain narrative inversion constructions come close to being conditional or concessive constructions:

Efield Jan van Marie, Marie zag meer in Piet beld John of Mary Mary saw more in Peto "Although John loved Mary, Mary liked Pete better." 61

The particular flavor of these constructions suggests the presence of an operator, just like in the conditional and counterfactual constructions (15-<u>(</u>9

Constructions like (19) can even be supplemented with a sentence initial element al or *ook al* (best translated as 'if and 'even if).<sup>17</sup>

<sup>16</sup> I assumed such an analysis in Zwart (1991a:79).

" Ook "also is used as a concessive particle in constructions like al schreeunden ze ook nog zo hard 'even if they yelled as hard as they could".

likewise, adding a temporal adverb like opeens 'suddenly' forces the temporal interpretation:

- troef trump ti oef Speel ik een aas, spro... play I an ace plays my partner aaway. "Proryime I play an ace my partner always trungs." Speel ik een aas, speelit mijn partner of once alay I an ace plays my partner at once alay I an ace plays my partner trumped." ÷ م. (33)
  - trump

In both cases, the adverb dan 'then' can be used to introduce the second clause:

- troef trump troef Speel ik een aas, dan speelt mijn partner altijd play I an ace then plays my partner always "Everytine I play an ace, my partner always trumpa." mijn partner opeens mijn partner altijd م (24) a.
  - suddenly trump play I an aco then plays my partner s "I played an ace. Then my partner suddenly trumped." Speel ik een aas, dnn speelt play I an aco then plays

This suggests that in (23) an empty dan is present, the interpretation of which is determined contextually. Likewise, it appears reasonable to receiving a conditional or temporal interpretation by the same mechanism. Second, the presence of an empty operator can be concluded from the assume that there is an empty operator present in the first clause, The interpretation of dan is consecutive in (24a), and temporal in (24b).

fact that narrative inversion constructions do not allow (additional) topic drop phenomena (cf. the argument in Cardinaletti 1990). Thus, (25a) cannot be shortened to (25b), without loss of the narrative inversion interpretation:

- Sla ik die vent voor zijn bek strike I that guy for his mouth (25) a.

  - "So I knock this guy in the face." Sla ik voor zijn bek فر
    - "I will knock (him) in the face." Sla ik voor zijn bek strike I for his mouth

be used in story telling, and there is no expression of contiguity. (25b) present, not to an immediately preceding situation, like in narrative in Kuang (1984). Following Huang, the interpretation of the empty object Crucially, (25b) lacks all the properties of narrative inversion: it cannot connects to a discourse situation in which a certain person is saliently inversion constructions. Consequently, (25b) is preferably used as an (25b) is only grammatical as a topic drop construction of the type studied pronoun is mediated by an empty operator, which is discourse bound. answer to a question like What will you do about that guy?

operator, the absence of the narrative inversion interpretation in (25b) follows immediately. This explanation is not available if narrative On the standard assumption that the specifier of CP can host only one inversion does not involve an empty topic/operator in CP.

A third argument linking narrative inversion to the presence of an empty topic in CP is that narrative inversion is limited to languages in which topics trigger verb movement to C. Thus, narrative inversion is absent in English and French, but present in German and the Scandinavian languages.<sup>19</sup>

To summarize, narrative inversion is characterized by the presence of an empty operator in the specifier position of  ${\rm CP}^{2k}$  This empty operator is interpreted contextually, and gives the narrative inversion construction its special flavor. As will become clear in section 5, operators in the spec of CP always trigger movement of the finite verb to C.

about narrative inversion is not the position of the subject, but the element in the spec of CP triggering verb movement to C. What is special Thus, the special character of narrative inversion is not explained by the lack of XP-movement to spec of CP, but by the presence of an empty position of the verb.

The absence of narrative inversion in complement clauses now ties in with the general observation that topics are not allowed to precede the complementizer in Dutch (see 14).

If this is correct, narrative inversion cannot be presented as an argument for general V-to-C movement in Dutch. <sup>18</sup> For Old French, see Roberts (1993, section 2.1.2), Vance (1988). In Icelandic, verb-first clauses are more general than in other Cermanic languages (Thráinsson 1985:172). Following Sigurðsson (1990:41) we may assume that anrative inversion is only a subtype of a larger class of verb-first constructions in Icelandic. Narrative inversion, unlike the other verb-first constructions in Icelandic, is limited to root clauses.

<sup>20</sup> I will not be concerned with the question what the empty operator binds. The analysis of narrative inversion here shares certain aspects with the analysis of imperntives in Beukema and Coopmans (1989) and Den Dicken (1992b). Curiously, it appears to be the case that the empty operator facilitates parasitic gap interpretation. (i) is surprisingly good, on a par with (ii), from Den Dikken (1992b);

ik [zonder gin to kijken] dat boek weg I without gin to look that book away

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- Log Ik [zoudor gg in to kijken] dat boek weg put I vubnut kin in olok that book awa T put dowen tab bot writhout louing (1) in-Leg (zoudor gg in a kit as kijkenal weg dat book put writhout gelia to lok away that book "Put down that bod without looking (1) in-

### Swedish ha-deletion.

main clauses and in topicalizations and wh-constructions, the finite verb is in the second position. In embedded clauses, the verb is further to the Swedish shows the same pattern of verb movement as Dutch with respect to the asymmetry between main and embedded clauses. In subject initial right.

In the next section, I will argue that in Swedish, this verb movement asymmetry is due to the same interaction of AgrS-to-C movement and Vto-AgrS movement as in Dutch. Thus, in subject initial main clauses in Swedish, the verb is again not in C but in AgrS.

<u>8</u>. This makes it possible to address here another argument advanced in all main clauses of Dutch, Swedish, and related languages (Den Besten the literature to support the hypothesis that the finite verb moves to C

1977, Platzack 1986, Holmberg 1986). In Swedish, the auxiliary ha have' is optionally deleted in embedded clauses, but not in matrix clauses:

- (har) varit sjukk has been ill pan Lott Hat Han (26) a.
  - he he måste must
- (ha) varit sjukk have been ill ,ci
  - he Han
- ų
- "(har) varit sjukk has been ill han varit sjukk? he been ill he •(Har) has ъ

Platzack (1986) and Holmberg (1986) both advocate an analysis of this phenomenon in which auxiliary deletion is the default case. This makes the non-deletion in (26c,d) the marked case.<sup>21</sup>

Platzack (1986) stipulates that the auxiliary can be deleted unless the auxiliary is in C. This suffices if the verb is in C in both (26c) and (26d). The simplicity of this rule may count as an argument for generalized V-to-C movement.

heads that are not properly governed cannot be involved in assigning assignment (under Holmberg's assumptions, after having moved to C), and the verb is not properly governed. Hence, the verb may not be empty in Holmberg (1986:176,197) derives Platzack's stipulation from a theory of visibility of empty heads. In particular, Holmberg argues that empty Case. In main clauses, the verb is involved in Nominative Case main clauses.

Importantly, Holmberg's derivation of Platzack's stipulation removes the argument for generalized V-to-C movement in main clauses. If (26c)

<sup>21</sup> Thus, preserving the Peathouse Principle, contra Andersson and Dahl (1974).

is not a CP but an IP (or an AgrSP), the verb will not be properly governed, and hence cannot be deleted.

Holmberg's analysis can be transferred to the minimalist framework to assist in the elimination of the N-feature of AgrS. We can translate Holmberg's generalization, saying that the Swedish auxiliary may not be without problems. If we are correct, the auxiliary moves to AgrS in (26c) empty if it assists in N-feature checking in overt syntax.

these constructions, the verb moves to C directly, without landing in AgrS constructions is needed to make N-feature checking in CP possible. We Under our assumptions, this also captures the non-deletability of the auxiliary in inversion constructions like (26d). We have assumed that in first. I will argue in section 5.3 that verb movement to C in inversion may assume that in yes/no-questions like (26d) the specifier position of CP is occupied by an empty operator which checks the N-features of C. I will argue the lexical presence of the auxiliary is a necessary condition for this N-feature checking operation, making C [+accessible].

This analysis is independently confirmed when the deletability of auciliaries in embedded clauses is considered (Tolmberg 1986:198). Here, there is a contrast between control infinitivals and Exceptional Case Marking constructions. The auxiliary can be deleted in the latter, but not in the former:

- તં 63
- passiv passive Det tir bra att PRO "(ha) litst den tis ig tood to have read it Jag auster honom flan varit för I consider him have been too ف
- "I consider him to have been too passive."

 $h\alpha$  is not involved in checking the features of the embedded subject. In the control construction (27a), PRO must be licensed in the embedded clause.<sup>22</sup> Assuming that in non-finite clauses no AgrS-to-C movement it cannot be deleted follows from our assumption that the lexical verb is involved in N-feature checking when AgrS-to-C does not take place. In the Exceptional Case Marking construction (27b), the embedded subject honom is licensed in an AgrOP in the matrix clause. Thus, the auxiliary takes place, the auxiliary will have to be involved in checking the Nfeatures of PRO (either in overt or in covert syntax). Hence, the fact that

<sup>22</sup> I follow Chomsky and Lasnik (1391) in assuming that PRO must be lieensed (its features must be bedeed) in a specifier-head configuration, like all other arguments of the verb. Adaphing the proposals made bhere, we may assume that PRO has vial features, which must be matched with Null features in a functional head, presumably AgrS. If this implies that AgrS also has Null 'Acatures, we may assume that only infinitivula are fit to check these features. This would explain the general impossibility of having PRO in finite constructions.

VERB MOVEMENT 209	<ul> <li>(3) a. Han kommer ikke Danish, Norwegian he comes not "He's not coming."</li> <li>b. Lordi han ildek kommer because he not comes "because he's not comes</li> </ul>	<ul> <li>(4) a. Han har inte varit sjuk</li> <li>be has not been iii</li> <li>b. Jatt han inte har varit sjuk</li> <li>that he not has been iii</li> <li>"that he hasn't been iii.</li> </ul>	The Germanic languages that do not show the relevant asymmetry are Icelandic, Faroese, Yiddish, and English. Only (dialects of) Dutch, German and Frisian have remnants of complementizer agreement. In the Mainland Scandinavian languages no trace of complementizer agreement has been attested in the literature. It is often said that the Mainland Scandinavian languages lack agreement, which is a statement about morphological agreement. There is no overt person agreement tense paradigm consists of only one form in Danish, Porrversian, and Swedish, ending in -e.r.	However, when agreement is considered to be an abstract syntactic licensing relation we cannot simply conclude from the absence of an overt agreement paradigm that a language lacks agreement. Saying that Swedish lacks agreement is like saying that English noun phrases lacks Case. There are several independent reasons to assume that Mainland Scandinavian languages do have abstract agreement. First, Mainland Scandinavian dialects do show overt person agreement. For example, the Swedish <i>Ålvdalsmål</i> dialect shows a <i>full</i> person agreement paradigm in the plural (1PL -um, 2PL -er, 3PL -c) (Platrack 1988, Vimer 1991b). <sup>2</sup> Likewise, many Norwegian <i>Midlandsk</i> dialects show a nuber distinction in the verbal paradigm, e.g. <i>Hadlingdal</i> (SG -a/-e, PL -ze) (Trond Trosterud, p.c.; see also Trosterud 1989, quoted in Vikner 1991b). <sup>3</sup>	<sup>2</sup> Platrack (1988) notes that Ålvdalsmål does not show the verb movement asymmetry, i.e., the finite verb precedes the sentence adverbials in embedded chauses. According to Levander (1909:1303), quoted in Platrack (1988:233), this is the only possible word order in embedded clauses. <sup>3</sup> Vireland (1981:870) also recorts the number naradiem in the central <i>Midliturdes</i> disherts.
•••				· · ·	

4.2 The Verb Movement Asymmetry in Other Germanic Languages

verb fronting is indirect. When the complementizer is present, ÅgrS moves to C, making verb movement to AgrS superfluous. When the complementizer is absent, verb movement to AgrS is necessary. Both movements are needed to make sure that the N-features of AgrS are relation between the absence of the complementizer and the presence of In section 4.1, a mechanism was proposed to account for the complementary distribution of complementizers and fronted verbs in Dutch and German, without having to assume that verb fronting always targets the complementizer position. This mechanism implies that the checked.

This analysis is most clearly supported in the complementizer agreement dialects of Dutch, in which AgrS-to-C movement has an overt morphological reflex. I have argued, however, that AgrS-to-C also takes and that the analysis of the verb movement asymmetry involving an interaction of AgrS-to-C movement and verb movement to AgrS carries over to these dialects. Foremost among these dialects, of course, is place in dialects of Dutch which do not show complementizer agreement, Standard Dutch.

The strongest hypothesis now appears to be that AgrS-to-C movement explains the verb movement asymmetry in all Germanic languages that display it. Conversely, the absence of such an asymmetry ought to follow from the lack of AgrS-to-C movement.

The Germanic languages that show the relevant asymmetry are Dutch, German, Frisian, and the Mainland Scandinavian languages (Danish, Norwegian, Swedish). This is illustrated in (1)-(4).<sup>1</sup>

German	<b>Frisian</b>
Johann küßt Maria John kisses Mary "daß Johann Maria külöt that John Mary kisses ""that John Kisses Mary."	Lk sjoch in hynder I see a horse Lat ik in bynder sjoch that I a horse see ".that isee a horse."
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<sup>1</sup> The Mainland Scandinavian facts are taken from Malling (1979). Ten Cate-Silfwerbrand (1973). Haugen (1937), unless indicated otherwise. The Frisian facts are adapted from Reuland (1990a).

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DUTCH SYNTAX

211	Danish	operative in the res are obviously be checked in the para agreement s and eliminating e interface levels. oonsequently, the grS-to-C, and the etween main and afforwardly. ent is never overt that do show an e distribution of distribution distribution distribution distribution di distribution distribution distribution distribution di	plural eading of verbs tation also obtains in evertheless abseat. verbal and nomiaal
VERB MOVEMENT	<ul> <li>(5) a. manden er syg man the-MASC is ill "the man is ill" er syg b. barnet er syg b. er syg t. jeig malede huset gront</li> <li>c. jeig malede huset the-NTR green-NTR</li> </ul>	It would be strange if this agreement system were only operative in the nominal syntax. More generally, since agreement features are obviously present in noum phrases (DPs), these features have to be checked in the syntax. This means that the structure of a clause must contain agreement phrases containing the designated positions for checking and eliminating the agreement features before the derivation reaches the interface levels. I will therefore assume that the absence of morphological agreement does not exclude the presence of abstract agreement. Consequently, the Mainland Scandinavian languages can be said to have AgrS-to-C, and the fact that these languages show a similar asymmetry between main and embedded clauses as Dutch and German follows straightforwardly. This raises the question why complementizer agreement is never over a greeement paradimavian. At this point, it may be relevant to consider the distribution of complementizer agreement in Dutch dialects. The distribution of complementizer agreement of the South Hollows straightform and the supect of the embedded verb is plural. Hoekstra observes that this type of agreement is found only when both the verbal plural form and the the subject of the embedded verb is plural. Hoekstra observes that this type of agreement is found only when both the verbal plural form and the the nominal plural form sand the verbal plural form sand the three when the verbal plural form sand the	<sup>6</sup> It does not follow from this observation that all dialects in which the plural ending of verbs and nouns are identical show complementizer agreement. This structure also obtains in Standard Dutch, for instance, where complementizer agreement is nevertheless abseat. <sup>7</sup> Abstracting away from subregularities and irregularities in the verbal and nounsing paradigm.

Second, the Mainland Scandinavian languages generally do show a morphological difference between finite verb forms and infinitival verb forms. The infinitival ending is  $\epsilon$  in Danish and Norwegian, and  $-\alpha$  in Swedish. Infinitivals are generally characterized as lacking tense, although some have argued that tense is also present in infinitival forms (notably Stowell 1991.400). There is no question, however, that there is an agreement opposition between infinitivals and finite verb forms. This agreement opposition is morphologically encoded in the Mainland Scandinarian languages. Thus, although an internal person/number paradigm is absent, the finite verb form in itself does show the presence of agreement.

Third, Wexler (1991) shows that children acquiring Germanic pass through a stage where they master agreement and verb movement, but not tense (i.e., not the difference between present and past tense). This holds for both Dutch (an overt agreement language) and Swedish. If Swedish were to lack agreement altogether, we could not express Wexler's findings in a satisfactorily generalizing way. On the other hand, if Swedish does have abstract agreement, we can simply say that at this early stage children acquire abstract agreement. Fourth, Mainland Scandinavian languages do show overt agreement

Fourth, Mainland Scandinavian languages do show overt agreement phenomena in the nominal system. Noun phrase internal agreement is illustrated in (5), predicative agreement in (6).

stor	5C big man	tor	SEV-3
틥	a-MASC	et si	a-NTR 5
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(...continued)

relevant dialects equals the infinitival ending. Presumably, the differences are oaly of an orthographic nature.

<sup>4</sup> Chomsky and Lasnik (1991) argue that infinitivals do have abstract agreement (Null Agreement) which licenses the empty subject in control complements, PRO.

<sup>6</sup> Of course, the child does not know it masters abstract agreement. The point is that the child loarns the difference between finite verbs and nonfinite verbs, and that the former have been a different position. This can all be done on the basis of positive evidence, vero when over agreement paradigm. If Worder (1991) is correct, what children acquire first is the realization of abstract formal syntactic relations, and the realization of rahatons with a some semantic impact, such as tense, is acquired later. To avoid misunderstandings: I also semantly in the form, a verb in a second that set of the context of the set of the different acquire first as the realization of abstract formal syntactic relations, and the realization of rahatons with assure statement between the set of 
These preconditions for complementizer agreement appear to be absent in the Mainland Scandinavian languages and dialects. A cursory check of Norwegian dialects shows that either the nominal and verbal plural forms are different, or the singular and plural verbal forms are identical.

In Standard Danish, Norwegran, and Swedish, the nominal plural form ends in *-er*, just like the verbal plural form.<sup>6</sup> Thus, one of the preconditions for complementizer agreement is met. However, the other precondition for complementizer agreement is not met, since there is no morphological opposition between singular and plural in the verbal paradigm.

This is also true of the Norwegian dialects I checked which show similar endings for the verbal plural forms and the nominal plural forms. For instance, the dialects spoken in the North of Norway generally show a plural ending *e* both in the nominal and in the verbal paradigm. However, these dialects also do not show a morphological opposition between singular and plural in the verbal paradigm. As in Standard Norwegian, there is only one present tense agreement form (ending in *e* in these dialects) (Lockertsen 1984).

Other Norwegian dialects, especially in the Midlandsk area, do show a morphological opposition between singular and plural in the verbal paradigm. However, all the dialects I have been able to check fail to meet the other precondition for complementizer agreement: the non-distinctness of the plural ending in the nominal and the verbal paradigm.<sup>9</sup> Thus, the Midlansk dialects reported in Vigeland (1981:86f) have in the present tense a singular ending - e or  $\varnothing$  and a plural ending - $\varpi$  ([e], according to Trosterud, p.c.). Indefinite plural ending.<sup>9</sup> For several stems, the ending is - $\sigma_i$ , but this vowel does not have the same quality as the plural ending indicated by  $\varpi$ above (Trosterud, p.c.).

Similar conclusions can be drawn for older stages of the Mainland Scandinavian languages. Thus, the facts from Middle Danish reported by Vikner (1991a.131) show that the nominal plural ending is *-er* whereas the verbal plural ends in *-e*. Old Norse had a full person agreement paradigm in the plural, again excluding complementizer agreement. If I am correct, the absence of overt complementizer agreement in

Mainland Scandinavian is related to the fact that the nominal and verbal

<sup>8</sup> In actual fact, there are several types of plural formations for nouns. The formation with er appears to be the more productive one. It should also be noted that the parallelism between the nominal and the verbal plural breaks down when the noun in question is definite, as in Swedish *bitder* 'pictures' versus *de bitderra* "the pictures'.

<sup>2</sup> ] owe a debt of gratitude to Trond Trosterud for providing me with the nocessary detailed information about the nominal and verbal paradigms of the Norwegian dialects discussed for a.

paradigms in the Mainland Scandinavian languages and dialects fail to meet the preconditions for the appearance of overt complementizer agreement. There is no reason, however, to conclude from the absence of overt complementizer agreement that AgrS-to-C movement does not take place. In this respect, Mainland Scandinavian is comparable to Standard Dutch and Standard High German, where the AgrS-to-C movement hypothesis provides a satisfactory account for the verb movement asymmetry in these languages. The optimal assumption, therefore, appears to be that AgrS-to-C movement takes place in Mainland Scandinavian as well, explaining the asymmetry between main clauses and embedded clauses with respect to the position of the finite verb in the familiar way.

## 4.3 The Status of Specifier Positions

In this section, I will discuss the following question: Does AgrS-to-C movement turn the specifier position of CP into a checking position for the N-features of AgrS? This question can also be phrased differently: Does not AgrS-to-C movement disqualify the specifier position of AgrS as a checking position for the N-features of AgrS?

These questions are relevant for the validity of the analysis of verb movement in subject initial main clauses proposed here, since this analysis entails that AgrS-to-C is a precondition for checking the Nfeatures of AgrS in the specifier position of AgrSP. Consequently, it cannot be the case that AgrS-to-C movement disqualifies the specifier position of AgrS as the checking position for the N-features of AgrS. The idea that AgrS-to-C movement turns the specifier position of CP into a checking position for the N-features of AgrS. The idea that analysis of subject initial main clauses proposed here. If AgrS-to-C movement had this effect, we could assume that AgrS moves to C in subject initial main clauses as well, and then the subject would have to move one the specifier position of CP to get its N-features checked. Consequently, we would lose our argument for the head initial status of AgrSP.

More generally, the issue under consideration here touches on the question whether licensing positions are derived from head movement or fixed. I will argue that the restrictive theory of feature matching under sisterhood advanced in section I.3.2 provides an answer to this question. The idea that functional head movement changes the status of the

The idea that functional head movement changes the status of the specifier positions involved has been put forward several times in the literature. In this view, AgrS-to-C movement would disqualify the specifier position of AgrSP as a position for checking the N-features of AgrS. Instead, the specifier position of CP would become a derived checking

position for the N-features of AgrS.<sup>1</sup> This has been suggested as a way to refute a forceful argument against the generalized V-to-C analysis of Dutch and German in Travis (1984:121), based on the impossibility of moving weak pronouns to the specifier position of CP.<sup>2</sup>

The idea that head movement creates derived checking positions will be illustrated and discussed in section 4.3.1. This discussion hinges on the definition of checking domain proposed in Chomsky (1992) to account for the properties of multi-argument verb constructions. I will onclude that the proper analysis of these constructions does not require the definitions to be set up as proposed in Chomsky (1992). In section 4.3.2, I will propose a more restrictive definition of checking domain, based on the theory of feature matching in section 1.3.2.

The conclusion will be that functional head movement may create derived checking positions for V-features but not for N-features.

This raises the question, whether AgrS-to-C movement in Dutch does not make the specifier position of CP available as a licensing position for the subject. This issue will be illustrated and discussed in section 4.3.2. The conclusion will be that the specifier of CP in Dutch never qualifies as a licensing position for the subject, and that Travis' argument is valid.

## 4.3.1 The Effect of Functional Head Movement

### a. The Problem

It is commonly assumed that heads can enter into a relation with other elements (e.g. for the purpose of 9-role assignment or feature checking) only under certain conditions of locality. Thus, there is a limited set of positions in any X-bar representation that a certain head  $\alpha$  can access. Chomsky (1992:16) calls this set of positions the *domain* of  $\alpha$ .

The domain of  $\alpha$  is the set of nodes contained in the maximal projection of  $\alpha$ , except  $\alpha$  itself and the projections of  $\alpha$ .<sup>3</sup> A head  $\beta$  which is adjoined to  $\alpha$  will also be part of the domain of  $\alpha$  (Chomsky 1992:16).

<sup>1</sup> See Rizzi and Roberts (1989:5 and 25 note 3), Rizzi (1991a), Chomsky (1992:44 and 65 note 303). Bobujik and Carnie (1982). Bobujik and Jonas (1983). In the referring to some of these works, the generalizations in the text use a terminology which is updated in the obvious wuy. <sup>2</sup> Travis arguing against the ideat that subjects pin Dutch and German move to the specifier position of CP, as this would imply topicalization. Topicalization of weak element, such as watek pronouns, is excluded. Since weak tablect pronouns many precede the verb in main clause. Alten positioning cannot involve topicalization (cf. Koster 1976a:214). See Eiclamberg (1986:125), Cardinaletti (1990), Rizzi (1991a), Vikner and Schwarrz (1991).

<sup>a</sup> a co*ntains* ß if some segment of a dominates ß (Chomsky 1992-15). As *maximal projection* of a is understood the highest segmeat of the least maximal projection dominating a ('the least full-autegory maximal projection dominating a').

In that case, the domain of  $\beta$  will equal the domain of  $\alpha$ , with the exception that  $\beta$  itself is not part of the domain of  $\beta$  (ibid.). Thus, the effect of head movement of  $\beta$  to  $\alpha$  is that  $\beta$  acquires the domain of  $\alpha$  as its domain.

It is slightly misleading to speak of the domain of  $\beta$ , when  $\beta$  adjoins to  $\alpha$ .  $\beta$  heads a chain CH =  $(\beta_{\lambda})$ . Therefore, not  $\beta$  itself enters into relations with elements in the domain of  $\beta$ , but the chain CH =  $(\beta_{\lambda})$ . Thus, adjunction of  $\beta$  to  $\alpha$  has the effect that the domain of  $\alpha$  becomes part of the domain of the chain  $(\beta_{\lambda})$ .

Chomsky further assumes that the domain of a head is divided into two complementary subdomains: the *complement* domain and the *residual* domain (Chomsky 1992:17). Of these, only the former is strictly defined: the complement domain of a head  $\alpha$  is the complement of  $\alpha$  and everything dominated by the complement of  $\alpha$ . The residual domain of  $\alpha$ is what is left of the domain of  $\alpha$  when the complement domain is felt out. Intuitively, the complement domain is relevant for  $\theta$ -role assignment, and the residual domain is relevant for  $\theta$ -role assignment, and

The set of nodes accessible to the head must be further reduced to comply with minimality (cf. Chomsky 1986b:42). For this reason, Chomsky defines as the *minimal domain* of a head  $\alpha$  the set of nodes in the domain of  $\alpha$  that are not dominated by another node of the domain of  $\alpha$  (1992:16).<sup>4</sup>

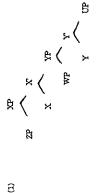
The minimal domain of  $\alpha$  can now be divided again into a minimal complement domain and a minimal residual domain. The minimal complement domain is called *internal domain*, and the minimal residual domain is called *checking domain* (Chomsky 1992:17).

The internal domain of  $\alpha$  consists of the complement of  $\alpha$ . The checking domain of  $\alpha$  consists of the specifier of  $\alpha$ , including, possibly, an element adjoined to the specifier of  $\alpha$ , and furthermore by elements adjoined to  $\alpha$  (a raised head) or to projections of  $\alpha$ .<sup>6</sup>

• Chomsky (1992) adopts the modification of the definition of dominate proposed in Chomsky (1998): following May (1985): is adominated by four if a is dominated by the very segment of 9. This interests the minimal domain somewhar, so as to include elements adjoined to the specifier of a. To exclude these elements from the minimal domain, dominate would have to be replaced by contain, since alements adjoined to the specifier of a. To exclude these elements rank adjoined to the specifier of a. To exclude these elements adjoined to the specifier of a. To exclude these elements adjoined to the specifier of a. The specifier of a are specifier of a additional domain, dominate would have to be replaced by contain, since alements adjoined to the specifier of a are specifier of a additional by the specifier of a substance of the science of the specifier of a substance of the specifier of the specifier of a substance of the su

<sup>a</sup> In particular, elements adjoined to the maximal projection of a are also part of the checking domain. This cause is included to accommodate Kitarae (1987) manylysis of Ferach past participle agreement in which constructions, where Kayne assumes that the wheelement moves through a position adjoined to the agreement phrase associated with part participle agreement (instead of the agreement phrase associated with part participle agreement (instead of the agreement phrase associated with part participle agreement (instead of through a specifier position of this agreement of the checking domain.

Let us now consider the effect of head movement on the definition of the internal domain and the checking domain of the moved head. The definitions provide a head  $\beta$ , which will move to  $\alpha$ , with an internal domain and a checking domain before the movement takes place. In (1),  $\beta = Y$  and  $\alpha = X$ :



Then the internal domain of Y in (1) is (UP), and the checking domain of Y in (1) is (WP).

Chomsky (1992:17) notes that after Y is moved to X, we do not want to 'redefine' the internal domain and the checking domain of Y. Rather, a new object, the chain (Y, t), has emerged from the movement operation. For this new object, we have to determine the internal domain and the checking domain again. As noted above, the domain of a head  $\beta$  which adjoins to a head  $\alpha$  equals the domain of  $\alpha$ .

In (1), the internal domain of  $\alpha = X$  is (TP), and the checking domain of  $\alpha = X$  is (ZP). This would imply that in (2), resulting out of (1) after moving Y to X, the internal domain and the checking domain of the chain (Y,t) will also be  $\{YP\}$  and  $\{ZP\}$ , respectively.



Elowever, Chomsky (1992:19) slightly revises the definition of the minimal domain so as to exclude YP from the minimal domain of the chain (Y, t), and to include WP in the internal domain of this chain. As before, the first maximal projection dominating the head of the chain determines the outer limit of the domain of the chain. In (2), the first maximal projection dominating Y is XP. Thus, all nodes represented in (2) are potentially part of the domain Y except XP.

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In the previous definition, X and X were also excluded from the domain of Y. This was done by the stipulation that the domain of  $\alpha$  can only contain nodes that are *distinct* from  $\alpha$ . Chomsky now proposes that the domain of a chain CH ( $\alpha_1, \alpha_1$ ) can only contain nodes that any  $\alpha_*^6$ 

This excludes YP from the domain of the chain (Y,t) in (2). YP contains  $t_i$  a member of the chain (Y,t). Consequently, WP is included in the domain of the chain (Y,t). WP is not dominated by another node in the domain of the chain (Y,t), therefore WP is also in the minimal domain of the chain (Y,t).

This leaves one question open: Is WP in the internal domain of the chain  $(Y, \mu)$  or in its checking domain? UP is obviously in the internal domain of the chain  $(Y, \mu)$ , and ZP is obviously in the checking domain of this chain. But WP is stuck in between.

Consider the relevance of this question for our investigation. The checking domain of a head  $\alpha$  consists of the set of nodes accessible to  $\alpha$  for the purpose of feature checking. We have assumed that in Dutch, AgrS moves to C in order to make it possible that the N-features of AgrS be decked off against the features of the subject in the specifier position of AgrS. AgrS-to-C movement creates a chain (AgrS.). If the specifier position of AgrS is not in the checking domain of the chain (AgrS.), AgrS to-C movement could never serve the purpose of checking the N-features of AgrS.

Chomsky (1992:19) proposes that the complement domain of a chain  $(\alpha_t, \alpha_n)$  consists of the complement of  $\alpha_i$  and whatever it dominates. Recall that the complement of a head  $\beta$  which is adjoined to  $\alpha$  is the complement of  $\alpha$  of  $\alpha$ . Thus, in (2), the complement of Y equals the complement of X, i.e. YP. YP itself is excluded from the complement domain of the chain  $(Y_t)$  is since it contains a member of this chain, t. But WP, dominated by YP, is part of the complement domain, of the chain  $(Y_t)$  is part of the complement domain, of the chain  $(Y_t)$  is part of the complement domain, of the chain  $(Y_t)$ .

This implies that movement of a head  $\beta$  to a head  $\alpha$  disqualifies the specifier of  $\beta$  as a checking position for the features of  $\beta$ . This conclusion puts our analysis of AgrS-to-C movement in joopardy. If AgrS-to-C movement is geopardy. If AgrS-to-C movement disqualifies the specifier position of AgrSP as a checking position for the N-features of AgrS, the requirement that the N-features of AgrS-to-C movement.

 $^6$  Notice that this revision also covers the original case, where CH is a trivial chain (consisting of only one member). The nodes of  $\alpha$  that are non-distinct from  $\alpha$  (i.e. the projections of  $\alpha$ ) also contain  $\alpha$ .



Let us therefore turn to a critical examination of the way the internal domain of a chain is defined in Chomsky (1992).

### b. Larsonian Structures

In Chomsky (1992), the internal domain of a chain resulting from head movement consists of the complement and the specifier of the foot of the chain, say  $\beta$  (i.e., the internal domain of (Y,t) in (2) is (WP,UP)). Before head movement, the specifier of  $\beta$  does not belong to the

Before head movement, the specifier of  $\beta$  does not belong to the internal domain of  $\beta$ , but to the residual domain (also, the checking domain). Thus, head movement enlarges the internal domain of  $\beta$ . More correctly, head movement of  $\beta$  to  $\alpha$  creates a chain ( $\beta$ ,t) with an internal domain consisting of the minimal domain of t, the trace of  $\beta$ .

Recall that the internal domain contains the positions relevant for 9role assignment. We can now say that head movement makes an additional position for 9-role assignment available.

This ties in with the analysis of Larson (1988a,b) of multi-argument verbs like put in (3):

### (3) John put the book on the shelf

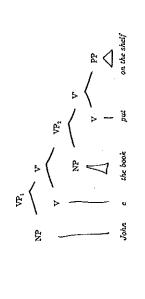
The verb put appears to have two internal arguments, roughly characterized as a theme (*the book*) and a location (*on the shelf*). On the assumption that syntactic representations consist of binary branching structures, constructions like (3) pose a problem, since the two internal arguments of *put* cannot both be a complement of the verb *put*.

To solve this problem, Larson (1988b) proposes that (3) be analyzed as containing two VPs, each with a head, a specifier, and a complement. The second VP is the complement of the first VP. Put is generated in the head of the second VP, and the head of the first VP is empty.<sup>7</sup> This yields the following structure for (3): <sup>7</sup> See Roekstra (1991) for a similar analysis, in which the head of  $VP_2$  is empty and the lexical verb is generated in the head of  $VP_1$ .

VERB MOVEMENT

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(3) is derived by moving *put* to the empty head of VP<sub>1</sub>. This head movement yields a chain (*put*,). Before head movement, *the book* is outside the internal domain of *put*. After head movement, *the book* is in the internal domain of the chain (*put*,*t*).

Thus, the definitions in Chomsky (1992) exactly give the required result for multi-argument verb constructions, under the assumptions of Larson (1983).<sup>8</sup>

However, it is not clear that these definitions have similar results outside the domain of multi-argument verb constructions.<sup>9</sup> For instance, if  $\beta$  is a functional head moving to  $\alpha$ , yielding a chain ( $\beta$ ,t), the specifier of t will belong to the internal domain of the chain ( $\beta$ ,t). However, this result is void, since functional heads do not assign a  $\theta$ -role.<sup>10</sup>

Thus, it looks like Chomsky's definition of the internal domain of head movement chains is *ad hoc*.

Recall that the crucial point in Chomsky's definition is that the internal domain of the chain  $(\alpha_i, \alpha_i)$  consists of a subset of the nodes of the complement of the *head* of the chain,  $\alpha_i$ . Let us change this definition slightly, and propose that the internal domain of the chain,  $\alpha_i$ .<sup>11</sup>

This will have the consequence that the specifier position of a moved head will not become part of the internal domain of the chain resulting from the head movement. Being outside the complement domain of the chain, it will automatically become part of the residual domain of the

In fact, the definitions are set up so as to achieve this result Cf. Chomsky 1992:19.

<sup>9</sup> The same point is made in Broekhuis and Den Dikken (1993). <sup>10</sup> Chomsky (1996b) assumes that I assigns a 9-role to the VP. However, I know of no constructions where it has been argued that a functional head (or a chain headed by a moved functional head) assigns a 9-role to an element in a specifier position.

11 Chomsky (1992:17) argues that head movement chains always consist of maximally two members, so that  $\alpha_{\rm s}=\alpha_{\rm s}$ 

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are not part of the domain of the chain, the specifier position of the foot of the chain will then be in the minimal residue of the chain, hence in its chain. On the assumption that nodes containing a member of the chain checking domain

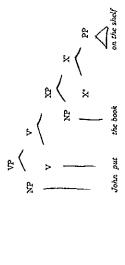
This is a desired consequence for us, since now the specifier of AgrSP will be in the checking domain of the chain (AgrS.#) resulting from AgrSto-C movement.

movement does not enlist the specifier of the foot of the chain in the internal domain of the chain, the generalization is lost that the theme theAnother consequence, however, is that the Chomsky-Larson analysis of multi-argument verb constructions is no longer available. Since head book is an argument of the verb put in (3).

branching principle. In particular, it has been argued often that constructions like (3) contain a Small Clause of which the theme is the argument verb constructions is not the only theoretically acceptable way to reconcile the properties of these constructions with the binary At this point, we are fortunate that Larson's analysis of multisubject and the location the predicate.<sup>12</sup>

This would give (3) the structure in (5).<sup>13</sup>

6



The book is not an internal argument of put, but an external argument of According to the structure in (5), put takes a propositional complement. on the shelf.

<sup>12</sup> Hockstra (1984:234), Zwart (1991e).

<sup>14</sup> I assume that Small Clauses have an empty head (cf. Kayne 1993:section 3), but I will not be concerned with the question of the internal structure of Small Clauses at this point. See Den Dikken (1992a) for extensive discussion.

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This gives multi-argument verb constructions of the type in (3) the same analysis as resultative constructions like (6):<sup>14</sup>

John put the book down John ran the pavement thin പക G

these constructions may be due to our knowledge of the world, since it cannot be avoided that John actually handled the book in order to put it but an external argument of thin. An analysis in which ran has been moved up in the same way as put in (3) does not seem to be available here. Likewise, we could argue that the book in (6a) and (3) is not an respectively. The interpretation that the book is an argument of put in down or on the shelf (cf. Kayne 1985, Hoekstra 1988, Sybesma 1992, argument of put, but an (external) argument of down and on the shelf, In (6b), it is clear that *the pavement* is not an internal argument of *ran* Mulder 1992).<sup>15</sup>

fundamental idea underlying the Larsonian structures, namely that "all arguments are initially structured within the VP in subject-predicate The Small Clause analysis of constructions like (3) captures the form, with outermost elements being hierarchically most subordinate" (Larson 198Sb:8).

The two analyses differ in the role played by the verb put. In the Larsonian analysis, put is generated as the head of a lower VP, whereas in the Small Clause analysis the head of the Small Clause is empty, and put is generated as the head of the (higher) VP.

In terms of Generalized Transformations, the first step in creating a Larsonian structure for (3) is to combine *put* with the PP on the shelf. In

See Den Dikken (1992a) for a Small Clause analysis of constructions like John put the book down on the shelf.

shorter sth into pieces) the theme receives a theta-role from the verb (which is impossible if it were a Small Clause subject. This is evidenced by the contrast between the dary shartered is porriager into pieces and "the bady shortered by the contrast into portions. I agree with Chartier and Radoll Math in this claus of constructions, there is a clase connection between internal theta-role from *shatter*. If we follow Syboema (1992) in analyzing causativo constructions as multi-verb constructions, it seems reasonable to assume that *shatter* is embedded under an empty causative, and that *the baby* is the external argument of the <sup>16</sup> Carrier and Randnil (1992) urgue that the Small Clause analysis is inappropriate for resultatives. See Dea Dikken and Hoeksten (1993) for a convincing reply in defense of the Small Clause analysis. Relevant for our discussion are Carrier and Randall's arguments in support of the idea that in resultative constructions with obligatorily transitive verbs (like the verb shatter and the theme the porringer the oatmeal, which is responsible for the limited set of possible themes. However, it does not follow that the theme receives an causative verb, and the theme the external argument of break, as in *the porringer shattered.* For detailed argumentation, see Boekstrn and Zwart (1993b). CE. also Den Dikken and Hoekstra (1993).

the Small Clause analysis, the first step consists in combining the PP on the shelf with an empty head  $^{16}$ 

It may seem unattractive to start out a derivation by expanding an empty head. However, this is not an argument against analyzing (3) as involving a Small Clause. If Hornstein and Lightfoot (1987) are correct, Small Clauses *generally* contain an empty head. Thus, if Small Clauses exist at all, we must accept the possibility that derivations start out by expanding an empty head.

Let us assume that the empty head of a Small Clause is a copular verb, indicated by capital BE. Then the Small Clause constructions in (6) can be paraphrased as in (7):

(7) a. John put [the book [38 down]]
 b. John ran [the pavement [38 thin]]

The derivation of these constructions then starts out by combining BE and

a predicate. Likewise, (3) must be paraphrased as (8), in the Small Clause analysis:

(8) John put [the book [BE [on the shelf]]]

More generally, we can state that a PP cannot function as a predicate unless it is first combined with a copular verb."

The Small Clause analysis of (3) thus yields a 'small predicate' BE on the shelf, instead of a 'small predicate' put on the shelf. BE on the shelf is then predicated of the subject the book, just like BE thin is predicated of the parement in (7b). Then, by another application of Generalized Transformation, the resulting subject-predicate combination the book BE on the shelf is combined with put.

In a Larsonian analysis, the derivation of (3) starts out by combining put with the PP on the shelf. The resulting 'small predicate' is combined with an external argument the book, which is combined with an empty verb to yield the larger predicate e the book put on the table. Put is then moved to e in order to enlarge the internal domain of put: the book becomes the internal argument of the chain (put, t).<sup>13</sup> <sup>16</sup> Alternatively, if Small Clauses do not contain a head, the Small Clause results from combining the PP on *the shelf* with the subject *the book*.

<sup>17</sup> See Hockstra and Mulder (1990) for an analysis of motional and positional unergative verbs which appear to take PP arguments, e.g. *walk (into the room)*, as copular verbs. <sup>18</sup> This is a reformulation of the analysis in Larson (1988a, 1998b) in terms of the Minimalist.

<sup>14</sup> This is a reformulation of the analysis in Larson (1988a, 1998b) in torms of the Minimalist Program, as in Chomsky (1992:18f and Fall term class lectures of 1991). In Larson's original analysis, put ruises to the head of the higher VP in order to assign Case to the theme the book in the specifier position of the lower VP.

This analysis has two problems which the Small Clause analysis does not have. First, the movement of put to the head of the higher VP is not obviously triggered by morphological requirements. Chomsky (Class Notes, 1991) suggests that verbs are specified in the lexicon for the number of internal arguments that are associated with it. Let us call this the ID value (for *Internal Domain*). Put has ID = 2, because it requires a theme and a location. If put is the head of the lower VP, as in a Larsonian analysis, it has only one argument, the location on the shelf, in its internal domain. Chomsky suggests that put moves to the head position of the movement, the book belongs to the internal domain. As a result of the movement, the book belongs to the internal domain of the chain (put,). Thus, put moves to satisfy its ID value.

This amounts to saying, in pre-minimalist terms, that *put* moves in order to assign an internal 9-role. This runs counter to what seems to be one of the core ideas of generative syntax, namely the idea that generation whereas movement of elements (singulary operation) is motivated in terms of thematic relations, whereas movement of elements (singulary operation) is motivated in terms of morphological relations (such as structural Case, number, person). This idea is prominently present in the minimalist framework, which restricts the composition fracture the chick. We could of course define the ID value is independently movement in such a way that the ID value is independently needed.

Chomsky (1992:29f) argues against the idea that the initial representation is a full fledged 'D-structure'. But even if we adopt the structure building process of generalized transformations, it appears that there has to be some order in the way structures are built up, to the extent that heads are first combined with their complements rather than operations, or thing prevents generation of complements in the external domain. A stricter version of the minimalist approach would be to maintain that singulary operations are driven by morphological licensing requirements only.<sup>30</sup>

<sup>10</sup> Including the ID value in the set of morphological features loads to the consequence that elements are always generated in order to climinate "morphological" features. We could maintain that a verb with ID = 1, like *kiss*, is generated and combined with a direct object to a satisfy the ID value of *kiss*. Obviously, this structues the meaning of the term "torphological" somewhat.

<sup>20</sup> Chomsky (1992:23) mentions easy to please constructions as problematic for the concept of D-structure. He suggests that John is any to please outpies a nonb-position, and hence cannot appear at D-structure. However, if we assume that be always has a Small Chunse complement, John is generated in the position of external argument of the Small Clause, hence in a R-position. This assumes a structure is [[John]](case) to please[]).

VERB MOVEMENT 225 put is first introduced as the lower verbal head, taking a PP as its	complement, and then moves up to the higher verbal head to make sure that the theme noun phrase is included in the internal domain of $put$ (or the chain ( $put$ ;)), is not satisfactory. Positive evidence that on the shelf in (3) is a predicate rather than an adjunct or a complement can be obtained if we consider the Dutch counterpart of (3):	(3) Jan zette het boek op de plank John put the book on the shelf T ant shell show on the shelf	In embedded clauses, the <i>FF op at plank</i> on the shell has to appear to the immediate left of the verb:	<ul> <li>(10) adat Jam het book gistoron op de plank zette that John the book yestorday on the shelf put</li> <li>b. "dat Jam het book op de plank gistoron zette that Join the book on the shelf yestraday put</li> <li>c. "dat Jam het book gisteren zette op de plank that John the book yestorday put</li> </ul>	In this respect, <i>op de plank</i> in (10) differs clearly from adjunct PPs (Hoekstra 1984:235) (11) and complement PPs (12):	(II) adat Jan Marie gisteren in de tuin kuste that John Mary yesterday in the garden kissed "that John kissed Mary in the carden vesterday."	bdart Jan Marie in de tuin gisteron kuste that John Mary in the gurden yestorday kissed	cdat Jan Marie grsteren kuzte in de tuin that John Mary yesterday kissed in tho gurden	(12) adat Jan zog altijd vun Marie houdt that John still always of Mary holds " that John is afill in how with Mary"	bdat Jan vun Marte nog altijd houdt that John of Marr shill always holds	nog altijd still-alwayy	<sup>22</sup> (continued) and entails that verbs need additional VP-shells to accommodate additional arguments; according to Hoekstra's uniqueness of licensing principle and Mulder's Single Object Corollary, there can be no more than one argument altogether. The reader is reforred to these works for ample argumentation.	
put is first i	complement, that the them the chain $(pu$ Positive er adjunct or a counterpart o	(9) 10 10 10 10 10 10 10 10 10 10 10 10 10	In embedded the immediat	* * ಗ _ದ ರ	In this resp (Hoekstra 19	ಸ			સં			<sup>22</sup> (continued) and entails that according to H Corollary, there these works for	

A second problem with the Larsonian analysis of multi-argument verb constructions is that it is not clear whether enumeration of the number of arguments of a verb, and specification of the type of thematic roles of these arguments, must be part of a minimalist theory of the organization of the lexicon. T.Hoekstra (1990) forcefully argues that the combinatorial properties of leaced elements are to a large extent determined by the aspectual properties of these elements. Small Clauses specify a state (e.g. *the pavement thin*). The function of a state argument to a non-telic verb is to terminate the event being denoted (e.g. in *Join ran the pavement thin*). For this reason, resultative Small Clauses are only found when the projectical does not have an inherent termination point. This excludes Small Clause complements with verbs like *kill* (e.g. *\*Join killed the house into a morgue*). So, the combinatorial properties of verbs like *ruw* and *kill* need not be specified in the lexicon. A specification of the aspectual properties of these verbs suffices.

Importantly, this makes it superfluous to specify verbs that can be combined with resultative Small Clauses as (potential) multi-argument verbs (contra Carrier and Randall 1992). A verb like *run* simply denotes a non-telic event which can be turned into a telic event by adding a Small Clause complement.

Ideally, this simplification of the lexicon carries over to other multiargument verb constructions. In the case of put, this can be achieved by stipulating that put lacks an inherent termination point. Therefore, it has to be combined with a Small Clause terminating the event, in order to create a meaningful predicate. *Put* differs from *prove* in that *put* has to combine with a state denoting element, whereas *prove* can also combine with a simple noun phrase.<sup>41</sup> All that needs to be specified in addition is that *put* requires that the state denoted by its complement is locational or situational (to exclude \*John *put the barn red*).

This approach, initiated by Hoekstra (1990) (see also Mulder 1992), promises a more minimalist theory of lexical information. In particular, it becomes possible to maintain that all lexical elements take one internal argument at the most.<sup>22</sup> If so, the Chomsky-Larson analysis, in which

 $<sup>^{22}</sup>$  There are some special uses of put in which a Small Clause complement is not required, as in I don't know what to put and You put first (in shot put).

<sup>&</sup>lt;sup>22</sup> See also E. Floekstra (1991) and Mulder (1992). Hoekstra argues that licensing relations are unique in the sense that a verb can have only one complement; multi-argument verb constructions must therefore contain several verbs (1991:5). Mulder follows T. Heekstra in arguing that complementation serves to supectually bound the event denoted by the verb, and notes that it follows that verbs can have but one object, since events can only be bunded once. Mulder (1992:5). ft 9) stresses the difference between his Single Object. Overlary and Larson's (1988a) Single Complement Hypothesis. The latter follows from hinary branching.

VERB MOVEMENT 227	is in the specifier position of the lower VP, and the predicate moving to the left is the 'small predicate' <i>put on the shelf</i> (1998b:11). This is illustrated in (18):	(13) John [put on the shelf] [all the Tarzan novels he possessed] t	In (18), the 'small predicate' <i>put on the shelf</i> , a V' category, has been reanalyzed as a V, and has moved to the head of the higher VP. However, this analysis is inappropriate if we consider particle verb constructions like (19):	(19) John put the book down on the shelf	The Dutch evidence shows that in this case, the particle <i>down</i> is the Small Clause predicate, and the <i>PP on the shelf</i> is a non-predicate (cf. (17)). We expect that if we turn (19) into a Heavy NP Shift construction, the adjunct PP will not be part of the 'small predicate', and will not be able to move along with the 'small predicate' <i>put down</i> to the head of the higher VP. However, this is not what we find:	(20) a. John put down on the shelf all the Tarzan novels he possessed $b_1$ . 7. John put down all the Tarzan novels he possessed on the shelf	If Larson's analysis of Heavy NP Shift in multi-argument verb constructions is correct, we must conclude that the combination of a verb,	a particle and an adjunct PP can be reanalyzed as a V and can move up to a V-position. This seems to be an unattractive extension of the analysis. Summarizing, it appears that much is gained by analyzing the theme is (N) as no so is inversed and the set of the A is (A+A).	IN (A) NOT SO AN INCLURING AGUMENT OF OF OF OF A CHAIN (MALT)) OF AS THE SUBJECT OF THE SMALL CLAURE SUBJECT OF THE SMALL AS THE ADDING THE THE ANDING OF A CHAIN O CHAIN OF A CHAIN O CHAI	$(\alpha_i, \alpha_c)$ was devised in such a way that the specifier position WP of $\alpha_c$ becomes part of the internal domain of the chain $(\alpha, \alpha')$ as a result this	definition ensures that head movement disqualifies the specifier position of the lower head as a checking position for features of the chain resulting	from the head movement. We have seen that this definition is <i>red ho</i> e. It is tailor made to fit the	analysis of multi-argument verb constructions of Larson (1988a). This in	itself is sutfacient reason to amend the definition if such an amendment is called for. In addition, we have seen that the Chomsky-Larson analysis	of multi-argument verb constructions can be replaced by a Small Clause	analysis with favorable results. If so, there is no empirical or conceptual motivation for Chomsky's definition of the internal domain of a chain left.		
	left- spect					st for	bined		lause (Den					h]o	arneti	ist in ate to	y NP	

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PPs like op de plank in (9) share the property of being obligatorily adjacent to the verb with particles, resultative predicates, and unsu Small Clause predicates, as is demonstrated in (13)-(15):

- ...dat Jan het book maar weer neer zette that John the book but again down put ...that John finally put the book down again... ...dat Jan het book neer maar weer zette that John the book down but again put (13) a.
  - i۵.
- ...dat Jan zijn gympics telkens door rende that John his sneakers time and again through ran "..that John his sneakers threadhan all the time." "...dat John his sneakers through time and again ran that John his sneakers through time and again ran а. ŧ
  - à,
- considers that John Mary shill attractive coaside ...that John still considers Mary attractive. ...dat John Mary attractive still conside that John Mary attractive still conside Jan Marie nogsteeds aantrekkelijk vindt John Mary still attractive conside ..dat that ġ. (I5) a.

considers

This left adjacency to the verb is generally taken to be a rock solid te Small Clause predicate status.

Finally, let us consider what happens when op de plank is comi with a particle, as in (16):

Jan zette het boek op de plank neer John put the book on the shelf down "John put the bok down on the shelf" (<u>1</u>0)

In that case, the particle shows the distribution of a Small C predicate, whereas the PP shows the distribution of a non-predicate Dikken 1992a:70):

- (I7) a.
- ò.
- -dat Jan het boek neer zette op de plank that John the book down put on the shelf ".that John put the book down on the shelf" .dat John op de plank het boek neer zette that John het boek neer op de plank zette that John the boek down out he shelf put v

This becomes relevant when we consider one of the seemingly favo

consequences of a Larsonian analysis for (3). Larson (1988b) argues that Heavy NP Shift does not consis movement of a heavy NP to the right, but of movement of a predica the left. In multiple-argument verb constructions like (3), the heav

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### c. English and Irish

Chomsky (1992:44) employs the idea that head movement from  $\beta$  to  $\alpha$  disqualifies the specifier position of  $\beta$  as a checking position to derive the Extended Projection Principle for English.

According to the Extended Projection Principle, the structural subject position must be realized (Chomsky 1981:40). In our framework, the structural subject position is the specifier position of AgrSP.

Chomsky assumes that some languages, English among them, adhere to the Extended Projection Principle, whereas other languages, like Irish, do not. The latter conclusion follows if these languages have overt verb movement to AgrS, but no overt movement of the subject to the specifier position of AgrSP. The overt SVO-VSO distinction between English and Irish suggests such an analysis (22 from Bobaljik and Carnie 1992):

English	Modern Irish
	an madras the dog
i Mary	Seán John De dog."
John kissed Mary	Chonnic Soán see-PAST John "John saw the dog."
(12)	(22)

How can we ensure that the specifier position of AgrSP is always filled in English? The easiest way would be to state that the N-feature of AgrS is strong. However, Chomsky (1992:10,44) assumes that languages have only one AGR, which can be instantiated in various positions to check off different features. Thus, AgrS and AgrO are not inherently different. As a result, AgrS and AgrO cannot have different feature specifications: if AgrS has strong N-features, so has AgrO.

Consequently, if we assume that English AgrS has strong N-features, it must be the case that English AgrO has strong N-features as well. This means that the direct object in English overt syntax must not be inside the VP, but in the specifier position of AgrOP. On the assumption that this is not the case, we must define the N-features of AGR in English as subject ends up in the specifier position of AgrOF in overt syntax in English.

At this point, we must introduce another assumption concerning English syntax made in Chomsky 1992. Chomsky (1992:10) notes that subject noun phrases check their features against AgrS, but that part of the properties of the features involved (in particular, the Nominative Case feature) depends on T. Likewise, part of the properties involved in checking the N-features of AgrO depends on V. " We might, however, interpret the findings in Johnson (1991) to indicate that the direct object in English is in Spec.AgrOP.

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To expresses this close connection between T and AgrS for checking the features of the subject, Chomsky assumes that T raises to AgrS, yielding a complex head [T AGR] combining the Case features of T and the  $\varphi$ -features of AGR.<sup>24</sup>

Consider the consequence of this T-to-AgrS movement for checking the N-features of T. The N-features of T have to be checked in the specifier position of TP. However, according to the definitions in Chomsky (1992), the specifier position of TP is not in the *checking* domain of the chain (T,t), but in the *internal* domain of this chain. Recall that the minimal domain of a chain is the minimal domain of the head of the chain, with the exception of all nodes containing a member of the chain, with the complement of the chain, and the checking domain is the residual part of the minimal domain of the chain, but have the internal ecception of a chain is the minimal domain of the chain, but have the the internal complement of the head of the chain, and the checking domain is the residual part of the minimal domain of the chain, basically the specifier of the head of the chain.

These definitions allow Chomsky to derive the Extended Projection Principle for English, by stipulating that the N-features of T in English are strong. Because of the independently established T-to-AgrS movement, the specifier position of TP is no longer available for checking the strong N-features of T. These features can only be checked in a position in the checking domain of the chain (T, t), hence, in the specifier position of AgrSP. This, then, explains the obligatory presence of the subject in the spee of AgrSP in English.

The difference between English and Irish now follows simply by stating that the N-feature of T is strong in English and weak in Irish (Chomsky 1992:44).

This way of deriving the difference between English and Irish seems to provide independent support for the idea that head movement disqualifies the specifier position of the lower head as a checking position. However, Bobaljik and Carnie (1992) show that the analysis in Chomsky (1992) is built on incorrect assumptions concerning word order in Modern Vector In particular, Bobaljik and Carnie argue that in a Modern Irish VSO construction like (22) the verb is in AgrS and the subject in the specifier

<sup>24</sup> The *p*-features are the features of person, number, gonder.

position of TP.<sup>25</sup> This suggests that, in Modern Irish, the N-features of T and the V-features of AgrS are strong. The V-features of AgrS being strong, the verb must move to AgrS in a head-to-head fashion. The final step in this movement process takes the verb (actually the complex [[V AgrO] T]) from T to AgrS, yielding a chain (T,t), where T stands for [[[V AgrO] T] and is adjoined to AgrS, and the trace occupies the position of the head of TP.

As before, the specifier position of TP is not in the checking domain of the chain (T,t). This means that the N-features of T cannot be checked in the specifier position of TP when T-to-AgrS movement takes place. If the specifier position of TP is not in the checking domain of the chain (T,t), the subject should not be able to appear in this position.

Nevertheless, the subject in (22) appears in the specifier position of TP, as argued by Bobaljik and Carnie (1992). We therefore cannot accept the idea that head movement disqualifies the specifier position of the lower head as a checking position.

Let us therefore tentatively define the checking domain of a chain  $(\alpha,\beta)$  as the union of the checking domain of  $\alpha$  and the checking domain of  $\beta$ . This can be achieved by proposing the following definition of the internal domain of a chain (o.B):

- The domain of a chain (x, B), where  $\beta$  is the trace of  $\alpha_{*}$  is the union of the domain of  $\alpha$  and the domain of B. (<u>8</u>
- The internal domain of a chain (x,B), where  $\beta$  is the trace of  $\alpha_i$  is the minimal domain reflexively dominated by the complement of  $\beta.$ 3

(definitions to be revised in section 4.4)

This means that the specifier positions of  $\alpha$  and  $\beta$  are in the residual domain of the chain ( $\alpha$ , $\beta$ ). Consequently, both ZP and WP in (2) are in the checking domain of the chain  $(X, \mu)$ . As a result, the specifier position of AgrSP remains a checking position for the N-features of AgrS, even after AgrS has moved to C.

<sup>22</sup> The more traditional analysis of VSO order in Celtic has the subject in the structural subject position and the verb in C (Spront 1985). This analysis is rejected in Bobaijik and Carrie (1992) because the VSO order alo abows up in finite embedded clauses where a complementizer is present. The argument that the subject is outside hype in Modern Trith VSO constructions is based on the observation that in non-finite embedded clauses, where the VSO order is impossible, structurally Case marked objects occupt a position further to the left than inherently Case marked objects. Taking this to indicate overt object movement out of the VP when the object shows structural Case features, Bobajik and Carnie conclude that the subject must also be outside the VP, since it appears to the left of the structurally Case marked object.

AgrS-to-C movement does not disqualify the specifier position of AgrS as the checking position for the N-features of AgrS. However, the definitions into a derived checking position for the N-features of AgrS wide open. This The definition of internal domain in (24) answers one of the two questions we set out to investigate in this section. It follows from (24) that leave the possibility that AgrS-to-C movement turns the specifier of CP question will be discussed in the next section.

4.3.2 Does Head Movement Create Derived Checking Positions?

Consider again a simple head movement structure:



In (2), the head of YP has raised and adjoined to the head of XP, yielding a chain (Y, P). In the definitions of Chomsky (1992), this chain has a minimal domain consisting of the nodes (ZP, WP, UP). The checking domain of the chain is (ZP), and the internal domain is (WP, UP).

domain of (Y,x), but in its checking domain. The question to be asked now is whether ZP must be included in the checking domain of the chain (Y, x). We have argued above, that WP should not be included in the internal If not, head movement has no effect on the definition of domains at all.

positions exist at all. This question is familiar from the recent literature, predominantly from Rizzi (1991a), where it is argued that head movement In other words, the question to be asked is whether derived checking may turn an A'-position into an A-position. In particular, if ZP in (2) is an A'-position, head movement from Y to X may turn ZP into an A-position. Rizzi (1991a:46) proposes the following definition of A-positions, where [Agr] refers to agreement in  $\phi$ -features.<sup>28</sup>  $^{22}$  In Chomsky (1981), A-positions are defined as 'potential them positions'. In the less articulated structure employed there, this comprises all VP-internal theta-positions, and the specifier position of IP. This is the position where the external theta role was assigned. The 'potential' clause ensures that in unaccusative constructions, in which no external theta-role is assigned, the specifier position of IP would still count as an A-position, so that mising to

(continued...)

VERB MOVENENT 233 VERB MOVENENT 233 proposed to call the first projection of $\alpha$ <i>Projection</i> , and the other projections of $\alpha$ <i>Segments</i> . In this theory, the idea that the features of $\alpha$ may spread to the <i>Projection</i> of $\alpha$ leads to an extremely restricted mechanism of feature decking; it can only take place between sisters. Sisterhood, of course, is already known as the required configuration for the head-complement relation, and for checking of <i>V</i> -features. In the latter case, adjunction to the head creates the required is the reduced configuration. Thus, the idea that features may spread actually leads to a more restrictive theory of feature	checking. At the same time, by limiting feature spreading to the head-Projection relation, the number of possible checking positions is maximally restricted. This leads to the following definitions of checking domain and internal domain. <sup>33</sup>	<ul> <li>(26) Checking domain</li> <li>α is in the residue of β, and</li> <li>α is in the checking domain of β iff (i) γ carries the morphological features of β, and</li> <li>features of β, and</li> <li>(ii) α and γ are sisters</li> </ul>	(27) Internal domain α is in the internal domain of β iff (1) α is in the complement domain of β, and (ii) α and β are sisters	In (26), it is not excluded that $\beta = \gamma$ . Thus, the checking domain of $\beta$ contains the sister of $\beta$ and the sister of the Projection of $\beta$ . According to (27), the internal domain of $\beta$ is just the complement of $\beta$ , expressing the idea that heads have but a single complement. Consider now the effects of head movement on the definition of checking domain. Assume the structure in (28), adapted from (2):	<sup>28</sup> Where com <i>plement domai</i> n and res <i>idual domain</i> are understood as in Chomsky (1992:16).
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(25) A-positions: (i) Theta positions (ii) Specifiers of a [+Agr] X Rizzi then argues that (ii) should be interpreted "as meaning that a Spec is A when *construed* (coindexed) with an Agr specification in its head. The subject agrees with I at the IP level, then if the subject and I are moved to the CP level (...), the spec of C will agree with C containing I, and will count as an A position under ([25])(ii)".

Chomsky (1992:65 note 32) notices that this idea is problematic: "Note that if I adjoins to C forming  $[_{0}$  I C], SPBC of C is in the checking domain of the chain (I.t.). Hence SPEC of C is L-related (to I), and nonL-related (to C). A sharpening of notions is therefore required to determine the status of C after I-to-C raising."<sup>47</sup>

I propose the following sharpening of notions: a specifier cannot be construed locally with an adjoined head. Thus, no agreement is possible in (2) between ZP and Y. The specifier of CP will therefore always be an A'-position (a nonL-related position).

This restrictive notion of agreement follows from the minimalist theory of feature checking developed in section I.3.2. This theory of feature checking requires that N-features be checked in a configuration of *sisterbood*. This can only be achieved if the N-features of a head  $\alpha$  are also present on the first projection of  $\alpha$ , which we have defined as the Projection of  $\alpha$ . I have therefore proposed that the morphological features of  $\alpha$  spread to the Projection of  $\alpha$  (under the condition of accessibility).

I have argued that the special status of the first projection of  $\alpha$  should not be expressed in terms of bar level, but in terms of feature content. This special status of the first projection of  $\alpha$ . I have assumed, derives from the circumstance that  $\alpha$  cannot be integrated into a larger structure (through Generalized Transformations) without this first projection. Since the first projection of  $\alpha$  is the only projection that is indispensable, I have

### <sup>26</sup> (...continued)

subject has the properties of A-movement, not of A-movement. With the emergence of more functional projections, several other target positions for A-movement were introduced, but these could not be defined as potential three-positions Also, on the assumption that rubjects are generated inside VP, the specifier position of IP (AgrSP) could not be defined as a their position. If the course of three developments, A-positions arme to be defined as positions that are construed in agreement with a head (E.Hoelstan 1991:24). On the assumption that the specifier of CP may ulse specifier positions that are construed in agreement with a feature of the verb. Califing these features L. for instances in wh-features), a future restriction defines as A-positions and A-positions that are construed in agreement with a feature of the verb. Califing these features L formations by a distinction between L-related positions and no-L-related positions.

" See note 26 for terminology.

Before head movement of Y to X, the checking domain of Y is [H,WP). H is the sister of Y, WP is the sister of the YP Projection. Only Y and the YP Projection carry the morphological features of Y (see section I.3.2). Head movement of Y to X yields the structure in (29):

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In (29), again only Y and the YP Projection carry the morphological features of Y. Hence, the checking domain of Y remains (H, WP). Crucially, ZP is not in the checking domain of Y, since the sister of ZP is not a Projection of Y but of X.

This leads to the following conclusions:

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AgrS moves to C. Additional verb movement to C then yields the substructure [[H Y] X] in (29), with H=V, Y=AgrS, and X=C. It follows from the definition in (26) that V and AgrS can check off the V-features

of AgrS under sisterhood in this substructure.

The conclustion that head movement creates a derived checking position for V-features ties in with our earlier analysis of verb movement to C across AgrS in inversion constructions in Dutch. In these constructions,

N-feature checking.

Head movement creates a derived checking position for V-feature checking. Head movement does not create a derived checking position for

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specifier position of CP), the ungrammaticality of (31b) follows from the ban on topicalizing unstressed pronouns. Hence, the subject dat that in If we assume that the subject in (32a) is in the structural subject position (the specifier position of IP/AgrSP) and the object in the topic position (the (32a) and the object dat in (32b) cannot be in the same structural position.

the N-features of AgrS. In (32b), the object has a (topic) feature, which must be checked in the specifier position of CP. (31b) shows that weak pronouns lack a (topic) feature. Preposing weak pronouns herefore is not subjects in (31a) and (32a) cannot be topics either, and must occupy a triggered by the need to check a [topic] feature. If so, the preverbal This analysis carries over to the minimalist framework in a natural way. In (32a), the subject moves to the specifier position of AgrSP to check different position from the preverbal objects.<sup>29</sup>

It seems, then, that Travis' analysis is clear and simple, and it ties in with the conclusions of this book, namely that the functional projections in Dutch, as in English, are head initial, and that the verb moves to AgrS in subject initial main clauses, and not to C.

elements, such as pronouns, can only survive in an A'-position if they are focalized. Weak pronouns, by their nature, cannot be focalized. This Rizzi (1991a) argues that the asymmetry in (31) may be analyzed in a different way if we assume (25ii). Rizzi assumes that non-operator excludes (31b), on the assumption that the object pronoun occupies the specifier position of CP, an A'-position.

For (31a), Rizzi assumes the standard analysis of Dutch subject initial main clauses (Den Besten 1977). Thus, the subject pronoun occupies the (31a) differs from (31b) in one respect. In (31a), the head of CP is occupied by a verb which agrees with the subject pronoun. By Rizzi's interpretation of (25ii), this spec-head agreement turns the specifier position of CP into specifier position of CP, just like the object pronoun in (31b). However,

<sup>23</sup> If the analysis of ditids in Germanic put forth in section 2 is correct, the weak subject pronoun her occupies a position adjoined to AgrS. As with all subject ditids, her will not show to the left of the verb when the verb moves to C. Instead, the verb will skip AgrS on its way to C. and her will adjoin to the right of the verb in C, as in yesho questions like Kan her? Can it?

an A-position in (31a). Consequently, no focalization is required for the pronoun to survive in the specifier position of CP in  $(31a).^{30}$ 

of CP into an A-position allows Rizzi to maintain the traditional analysis Thus, the idea that verb movement to C may turn the specifier position of verb movement in Germanic.

However, the analysis fails in an important respect. If the subject is licensed in the specifier position of IP (AgrSP), there is no trigger for additional movement of the subject to the specifier position of CP. the IP level can never be reconstructed at a higher level, unless the subject has additional features that must be checked at that higher level head agreement relation that existed between the verb and the subject at Therefore, by economy, this movement will not take place. The specifier-(e.g. a [topic] feature to be checked in the specifier position of CP).

More generally, specifier-head relations can never be instantiated twice in a derivation. A specifier-head configuration can only be created to check a feature, say  $\varphi$ . This feature  $\varphi$  gets eliminated as soon as the specifier-head configuration is created. This precludes the possibility of recreating the same agreement relation in a second specifier-head configuration.

Suppose subjects carry a second feature, say, a [topic] feature, which forces an additional movement to the specifier position of CP. As will be discussed in section 5, this movement triggers verb movement to C. Adopting Travis' (1984) topicalization restriction or Rizz's (1991a) and full noun phrases will be able to move to the specifier position of focalization requirement leads to the prediction that only strong pronouns CP."

with Rizzi (1991a), that subject initial main clauses in German and Dutch involve a subject in the specifier position of CP, we predict that constructions like (31a) are non-existent in German and Dutch. This follows from the assumption, entertained by Rizzi (1991a) as well, that If so, (31a) cannot be topicalization, as argued above. If we assume,

<sup>20</sup> A similar analysis is presented in Cardinaletti (1990:820). Cardinaletti argues that referential subject pronouns can be topicalized, as in (i), whereas expletives cannot (ii):

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The difference between (i) and (ii), however, follows from the fact that es 'it, there' is always a clitic. whereas er 'he' can be stressed.

<sup>21</sup> In the minimalist framework, this follows on the natural assumption that weak elements cannot carry topic features. If all weak elements are clicics, this assumption need not be stipulated, considering that clitics are heads, and topic features must be checked in specifierhead configurations.

VERB MOVENERT 239	<ul> <li>A functional head is [±accessible]</li> <li>α, the Projection of β, has access to the morphological features of β</li> <li>iff β is [+accessible]</li> </ul>	We have conjectured that AgrS in Dutch is [-accessible], and that AgrS-to- C movement and verb movement to AgrS have the effect that AgrS- becomes [+accessible]. Since the N-feature of AgrS is strong, one of these movement processes has to take place in overt syntax, otherwise the N- feature of AgrS would not be accessible to the AgrS? Projection, and the N-feature could not be checked. The effects of head movement on accessibility can be stated as in (35):	(35) A [-accessible] head $\alpha$ becomes [+accessible] iff (i) $\alpha$ moves to $\beta_i$ or (ii) $\gamma$ adjoins to $\alpha$	How can (35) be derived? I propose that (35) ultimately derives from economy of representations, formulated in (36):	(36) Economy of Representations Use as few symbols as possible	The morphological features represented in functional heads must count as symbols. Otherwise, the presence of features at the interface would not cause a violation of the Full Interpretation principle (cf. section I.2.3). If so, we can derive the following principle from (36):	(37) Morphological features are present in as few positions as possible	The economy related principle (37) severely restricts the distribution of the morphological features of a functional head. In particular, it dictates that morphological features can only be present on nodes that are actively involved in feature checking.	Arr, due case on Argentine curcture, due mean utan, a case of the constituent of AgrSP will be present on the AgrSP Projection only. This is because only the AgrSP Projection is actively involved in N-feature checking, due to the sisterhood condition on feature checking. We can now say that if AgrS is [+accessible], the N-feature of AgrS moves from AgrS to the AgrSP Projection, and that this movement	is procked when Agro is l-accessionel. As have when you have no nurcher consequences in the domain of N-feature checking. In the domain of V-feature checking, however, (37) has an interesting consequence. Consider the case where AgrS moves to C. I have argued that in that case, the V-feature of AgrS is checked by adjunction of the
DUTCH SYNTAX	subjects are first licensed in the specifier position of $IP$ . This means that $\varphi$ is eliminated inside $IP$ . The additional movement to the specifier position should then be restricted to focalized elements, since agreement with the feature $\alpha$ is of longer visible at the $CP$ level.	It is obvious from constructions like (31b) that subjects in Dutch are licensed in the specifier position of IP (AgrSP). Assuming that licensing takes place in specifier-head configurations only, the subject in (31b) checks its N-features against the N-feature of AgrS. AgrS may be occupied by the trace of the verb which has moved to C, or, as we have assumed, by the trace of AgrS-to-C movement. <sup>23</sup> Thus, the analysis of (31) in Rizzi. <sup>23</sup> [1991a) cannot be taken to support the idea that head movement of B to $\alpha$ turns the specifier to scipton of $\alpha$	into a checking position for the features of β.	4.3.3 Conclusion It follows from a restrictive theory of feature checking that head	checking. Consequently, the proposed analysis in which AgrS-to-C movement in Dutch is a precondition for checking the N-features of AgrS in Abound the Dutch is a precondition for checking the N-features of AgrS	in the spectrum position of right can be maintained. 4.4 Accessibility and the Representation of Features	Let us try to make the accessibility parameter more precise. This parameter was introduced in section L3.2 and employed in this section to	explain the verb movement asymmetry. In particular, we have to make clear why AgrS-to-C movement and verb movement to AgrS both have the effect of turning a [-accessible] AgrS into a [+accessible] AgrS. If we assume that feature checking invariably takes place in a sisterhood configuration, the N-feature of AgrS can only be checked by the	AgrSP Projection (i.e., the first projection of AgrS, see section I.3.2). Therefore, the AgrSP Projection has to have access to the N-feature represented in AgrS. The AgrSP Projection has access to the features of AgrS if and only if AgrS has the feature [+accessible]. This is expressed in (33)-(34):	<sup>28</sup> Rizzi and Roberts (1999:5) likewise assume that Leo-C movement in Germanic does not destroy the specifier-head agreement configuration needed to license the subject in the specifier position of IP.

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verb to AgrS in C. In other words, AgrS-to-C movement yields a chain (AgrS.r), and the only member of the chain that is actively involved in Vfeature checking is the head of the chain, AgrS. It then follows from (37) that the V-feature of AgrS is present only on the head of the chain (AgrS.t).

This has a number of consequences. One consequence is that adjunction of the verb to the foot of the chain (the trace of AgrS) is excluded by economy of derivation. Since the V-feature of AgrS is only present in the head of the chain (AgrS, t), adjunction of the verb to the foot of the chain is not triggered by feature electing requirements, hence is excluded.

It is standardly assumed that adjunction to traces of heads is excluded (cf. Baker 1988). However, this does not follow from the condition of Strict Cyclicity, since this condition does not refer to the content of heads, and does not exclude head adjunction in general.<sup>23</sup> But if head movement actually *removes* the V-feature, as expressed in (37), the ban on adjunction to traces follows from economy of derivation.<sup>24</sup>

A second consequence of (37) in the domain of head movement is that it is now possible to unify the effects of head movement of AgrS to C and head movement of the verb to AgrS. AgrS-to-C movement removes the Vfeature from the AgrS position, since the V-feature of AgrS can only be represented on the head of the trace (AgrS, J). Verb movement to AgrS has the effect that the V-feature of AgrS is checked and eliminated. Both movement operations therefore have the same effect: the V-feature of AgrS is removed from the AgrS position.

If we now assume that the presence of the V-feature in AgrS blocks movement of the N-feature of AgrS to the AgrSP Frojection, we can replace (35) by (38):

(38)  $\alpha$  is [+accessible] if (and only if) the V-features of  $\alpha$  have been removed

The *and only if* clause is only needed for languages in which the functional heads are not (+accessible) by parameter setting, like Dutch. The presence of the *and only if* clause in (38) therefore is the only instance of parametric variation in this system.

According to (38), the phenomenon that in some languages head movement is a precondition for N-feature checking is due to the fact that

<sup>28</sup> See p. 26 in section I.3.2 for a definition of the condition of Strict Cyclicity that allows head movement.

<sup>34</sup> Notice that this does not in principle exclude adjunction of a cliftic to the trace of a head, since it is not clear that eliftic adjunction is triggered by morphological licensing requirement to begin with (see section 2.3).

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in these languages the V-feature must be removed before N-feature checking can proceed. This, then, appears to be characteristic of the syntax of verb movement in Dutch.

### 4.5 Conclusion

In this section I have argued for the following analysis of the verb movement asymmetry in Dutch.

AgrS in Dutch has weak V-features and strong N-features. The strong N-features force movement of the subject to the position of sister of the Projection of AgrS (i.e., the specifier position of AgrSP). However, AgrS is specified as [-accessible]. As a result, the Projection of AgrS has no access to the N-features of AgrS. Since the N-features must be checked under AgrS pare of AgrS has to be made [+accessible], so that the N-features of AgrS spread to the Projection of AgrS, and the specifier and Projection of AgrS can check off the N-feature of AgrS under the required condition of sisterhood.

There are two ways to make AgrS [+accessible]. One way is to move AgrS to C. This takes place in embedded clauses, as discussed in section 3 for complementizer agreement dialects. AgrS-to-C movement does not volate Greed, since this movement serves to eliminate the N-features of AgrS. Since the V-features of AgrS are weak, Procrastinate ensures that no verb movement to AgrS takes place in embedded clauses. Another way to make AgrS [+accessible] is to move the verb to AgrS. This can be done, in violation of Procrastinate, since movement of the verb to AgrS serves to also check off the features of the verb against the V-features of AgrS. Again, Greed is not violated. This derivation applies in subject initial main clauses. In inversion constructions, both AgrS-to-C movement and verb movement to C take place. In moving to C, the verb slicps the original AgrS position, and adjoins to AgrS in calibre.

Movement from AgrS to C, by way of independent functional head movement or via head-to-head verb movement to C, does not turn the specifier of CP into a derived checking position for the N-features of AgrS. Hence, if verb movement to C takes place, the subject must always follow the verb (unless the subject carries additional features to be checked in the specifier position of CP).

It follows that the verb in subject initial main clauses does not occupy C but AgrS. This proves that AgrSP in Dutch is head initial.

## 5 Topicalization and Wh-Movement

In the previous two sections, I have developed a minimalist analysis of subject initial main clauses in Dutch. In this analysis, the finite verb moves to AgrS and the subject moves to the specifier position of AgrSP. This analysis supports the idea that the functional projections in Dutch are head initial.

The analysis, however, also raises questions concerning the other 'verb second' constructions in Dutch, topicalizations and wh-constructions. Den Besten (1977) showed that verb movement in these constructions targets If this is correct, we must conclude that subject initial main clauses on the one hand, and topicalizations and wh-constructions on the different categories the former are AgrSPs, the latter CPs. In this section, I will argue that this distinction between subject initial

In this section, I will argue that this distinction between subject initial main clauses and other main clauses in Dutch is correct. I will argue for an even stronger conclusion: subject initial main clauses, topicalizations, and wh-constructions are all categorially different. Subject initial main clauses are AgrSPs, topicalizations are TopPs, and wh-constructions are WhPs. This leads us to propose the following phrase structure:



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In section 5.1, I will point out certain differences between subject initial main clauses and topicalizations. In section 5.2, I will present the argumentation for splitting up CP into a WhP and a TopP. Finally, section 5.3 contains a minimalist account of the various movement processes associated with topicalizations and wh-constructions.

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This section presents further arguments against collapsing all verb second phenomena in Dutch. In addition, it supports the general idea argued for in this chapter, namely that the functional projections in Dutch are invariably head initial.

# 5.1 Differences between Subject Placement and Topicalization

### 5.1.1 General Considerations

In the minimalist framework, all movement operations are triggered by the need to eliminate morphological features. These morphological features are represented in functional heads, and are eliminated through a matching operation with elements in the checking domain of these functional heads. The question whether two movement operations target the same position then reduces to the question whether the relevant features are represented in the same functional head.

I have assumed, following Chomsky (1992), that subject placement in general is triggered by the need to eliminate the N-feature of AgrS. This feature, represented in AgrS, must be matched with the corresponding feature, represented in AgrS, must be matched with the corresponding feature on an XP in the specifier position of AgrSP. Let us also assume that topicalization is triggered by the need to eliminate a special 'topic feature', represented as 'topicl' I assume that this feature, like all features, is represented in a functional head, and that a corresponding feature is present on the XP which is to be topicalized. Topicalization can then be described as a movement operation taking place to eliminate [topicl.<sup>2</sup>

The question whether subject placement and topicalization are the same then reduces to the question whether the features of AgrS and the [topic] feature are represented in the same functional head.

It is easy to see that this is not the case in Dutch. Since subject placement and topicalization are both overt in Dutch, we must assume that the N-feature of AgrS and (topic) are both strong in Dutch. This implies that both topics and subjects must be in their licensing position in overt syntax (assuming that no other features are involved that could positions of subjects and topics in a simple topicalization construction like (2):

 $<sup>^1</sup>$  For expository reasons. I abstract away from the actual operation of N-feature checking under sisterthood, involving movement of the N-feature of a functional head  $\alpha$  to the Projection of  $\alpha.$ 

<sup>&</sup>lt;sup>2</sup> I assume that [topic] is an N-feature by definition. I will argue below that the [topic] feature is not present on the visibly topicalized XP, but on an operator element (an empty operator or a *d-uords*) in the specifier position of the CP (to be defined as TopP below). Seconds cf. this, it is difficult to associate the [topic] feature with particular presodic features like stress or programmic features like of compl. The actual topic, I will assume, is adjoined to the TopP, and can be attessed or focalized at will.

VERB MOVEMENT 245	<ul> <li>a. Verbal Agreement</li> <li>As we have seen, the 2SG present tense verb in Dutch has two morphological realizations, one for subject initial constructions and one for topicalizations (and wh-constructions):</li> <li>(5) a. Jij kent/*ken dat boek</li> <li>b. Pat boek kent/*kent jj that book konv</li> <li>************************************</li></ul>	I have argued that the short form <i>ken</i> is required when the verb is in C, and contains a duplicate feature associated with AgrS-to-C movement. In other words, this form 'shows complementizer agreement'. The long form <i>kent</i> , on the other hand, is the default form, used in all other environments. Therefore, in (5a), the verb cannot be in C. All aspects of this explanation for the double agreement phenomenon are independently established. It is hard to imagine an equally	satisfactory account of the phenomenon if we assume that <i>kent</i> and <i>ken</i> in (5) occupy a single position. Similar double agreement phenomena occur in several Dutch dialects, as discussed in section 3.3.	<ul> <li>b. The Position of Object Cliffics</li> <li>by the Positions are right adjacent to the verb in subject initial main clauses, but not in topicalizations: <ul> <li>(6) a. Jan kent ("nog altid) "t niet</li> <li>John kanwas still always it not</li> <li>John kent (nog altid) Jan ("nog altid) t niet</li> <li>Yoch kent (nog altid) Jan ("nog altid) t niet</li> </ul> </li> </ul>	As argued before, the verb and the clitic are adjacent in (6a), and so are the subject and the clitic in (6b). This is accounted for if the subject is in the specifier position of AgrSP in both (6a) and (6b), while the verb is in AgrS in (6a) and in C in (6b). It follows that topicalization and subject placement target different positions. If the verb user to more th G in hoth (6a) and (6b), we would have to	find an explanation for the fact that the subject in (65) can undo the adjacency requirement that the verb and the object cliftc are subject to in (6a). Note that the subject and the verb are not necessarily adjacent in (6b). If (6a) were analyzed as a topicalization construction, with the verb in C
244 DUTCH SYNTAX	(2) Dat book ken it nict that the set of	Thus, on standard minimalist assumptions, subject placement and Thus, on standard minimalist assumptions, subject placement and topicalization differ in a trivial way. Notice that even if the verb in (2) did not intervene between the subject and the topic, we would still have to conclude that the feature (topic) and the features of AgrS are represented in different functional heads. This situation obtains in English:	the topic <i>t</i> AgrS (wit at the top	(4) I that book don't know No such stipulation is needed if we assume that in (3), like in (2), the topic moves to the specifier position of a functional projection designated for licensing topics. In the next section, I will present a number of independent differences between subject placement and topicalization, all leading to the conclusion that both movement operations target different positions.	5.1.2 Subject Placement vs. Topicalization The following differences between subject placement and topicalization in addition suggest that both operations target different positions.	<sup>2</sup> In the definitions of Chomsky (1992), elements adjoined to XP (i.e., not in the specifier position, but adjoined higher up) are in the checking domain of X. In sections 1.3.2 and III.4.3. I argued that the checking domain coasists only of the sister of X and the sister of the Projection of X.(i.e. the specifier position of XP). This excludes adjuncts from the checking domain, and it also excludes the possibility of having two features represented in one functional head.

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subject trace (hence, between the verb and the object clitic), contrary to and the subject in the specifier position of CP, we would expect the trace of the subject in the specifier position of AgrSP to be not necessarily adjacent to the verb either. In other words, we would expect the adverbial nog altijd 'still' in (6a) to be able to appear between the verb and the fact.

## c. Restrictions on embedded topicalization

If subject placement and topicalization are the same process, topicalization should be possible wherever subject placement is possible. However, the two processes are clearly different in embedded contexts.

Notice first that the subject is placed outside the VP in embedded clauses in Dutch, just like in main clauses. This can be concluded from the position of the subject with respect to sentence adverbs, as in (7):

- Jan gisteren Marie kuste John yesterday Mary kissed -dat that E
- "..that John kissed Mary yesterday."

On the other hand, topicalization in embedded clauses is severely limited:

- kissed krusto ..dat Marie Jan gistoren k that Mary John yesterday <sup>1</sup> "..that John kissed MARY yesterday." \* dat that es. 8
- ...dat gisteron Jan Murie kuste thut yeeterday John Mary kissod "..that John kissod Mary YESTERDAY." ė

As can be seen, only adjuncts can be topicalized in embedded clauses. As shown by Neeleman (1990), objects can also be topicalized in embedded clauses, provided they receive a strong focus intonation'<sup>4</sup> In addition, another constituent in the construction must be stressed, to achieve a kind of intonational balance:

- ...dat MARIE zelfs JAN gisteren niet kuste that Mary even John yesterday not kissed "...that not even JOEN kessed Mary vesterday" "...that not even JOEN kessed Mary vesterday" ...that Mary John even yesterday not kissed "...that John diel oot even kiss Mary YESTERDAY." ...that John diel oot even kiss Mary YESTERDAY." ...that John did not even KISS Mary yesterday." નં ම
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- ئ

<sup>4</sup> Neeleman (1990) refers to this phenomenon as Focus Scrambling (cf. section II.1.4).

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This special intonational pattern is not required for subject placement in embedded clauses or for topicalization in main clauses.

Notice that the absence of verb movement in embedded clauses is If topicalization and subject placement were really the same, one would expect topicalization to take place in embedded clauses, even without verb movement, just like subject placement takes place in embedded clauses irrelevant. This is an independent property of embedded clauses in Dutch. without verb movement.

topicalization by stating that there is not enough room' for topicalization On the other hand, if topicalization and subject placement target different positions, we can explain the restrictions on embedded in embedded clauses.

One way of implementing this idea would be to assume that the specifier position of CP is not available as a landing site for topics in embedded clauses. This assumption is needed in the standard analysis as well, to account for the fact that subjects and topics never appear to the right of the complementizer.<sup>6</sup> <sup>a</sup> Focus screambling is clearly a marked phenomenon. Neeleman (1990) shows that it has the properties of Al-movement. This suggests the presence of a third nonL-related XP-position (in addition to the specifier position of WhP and TopP), perhaps comparable to the Polarity Phrase of Culicover 1991.

<sup>4</sup> In Middle Dutch topics can be seen to precede the complementizer (Stoett 1977-246, Van den Berg 1992). However, in these cases it looks like an element of the embedded clause appears in the matrix clause, i.e. not in the specifier position of the embedded CP. This is evidenced by the presence of a resumptive pronoun in the embedded clause:

datemoere evenen ring in dost that ono there a-ACC ring in pats "Ono usually puts a ring in one's rostrila." Men piezhet in sine nuevegaten one usually-does in his nostrils

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Also, in my intuition, there is a preference for (i) over (ii) (cf. note 16 of section 4.1):

dat Jan krusts that John kiased s dat Jan krusts that John kissed Marie ducht de Mary thought th dacht Marie thought Mary Piet Pete Piet a. 7 \_\_\_\_\_\_at that b. \_\_\_\_\_\_at that 9

In (iia), the embedded object has been moved into the functional domain of the matrix clause, instead of to the specifier of the CP of the embedded clause.

VERB MOVEMENT 249	scrambling as movement to the specifier of AgrOP, hence as a minimalist type of movement. Klowever, as (12) shows, adverbs may not be adjoined to AgrSP in main clauses: (12) • Gisteren Jan kuste Marie yssechty John kissed Mary	: grammaticality of (8b) now sug aain in which adverbs may appes titon adjoined to AgrSP. The same domain stretching takes shows:	(13) Daarom heeft gisteren Jan Marie gekust thorefor has yestorday John Mary kised "That's why John kised Mary yesterday."	In our analysis, embedded clauses and inversion constructions have one thing in common: AgrS-to-C movement. It is tempting, therefore, to link the stretching of the domain for adverbs to AgrS-to-C movement, but I will not pursue that issue here. <sup>9</sup>	If this analysis of topicalization is on the right track, there is only one way to create an embedded topicalization construction in Dutch, namely by inserting a topic ofter the complementizer and by resuming it by a d- main main of the decomplementizer and by resuming it by a d-	word, rine yrenes a kund or anacoroudunt, which can be observed quice frequently in spoken Dutch: (14) Jun zei dat Marie (die) kuste hij niet	that Mary that kirsed .t Mary, he dida't kirse." y empty) d-word triggers v	(15) • Jan zei dat Marie (die) bij niet kuste John suid that Mary that he not kassed	This can be analyzed in the same way as topicalization in main clauses. I will return to this construction in section 5.3.3, arguing that the complementizer in these constructions is not a target for AgrS-to-C	<sup>9</sup> This does not exclude the possibility that language particular constraints block adjunction of adverbs to AgrSP. As Lilinne Haegemun informs me (p.c.), adverbs cannot appear between the complementizar and the subject in West Flemish, even though we must assume that in West Flemish, like in Dutch, AgrS-to-C movement takes place.
248 DUTCE SINTAX	<ul> <li>(10) a. Friet zag Jan dat de meisjes kuste</li> <li>Pete saw John that the girls kissed</li> <li>Peter zag de meisjes das girls.</li> <li>b. Friet zag de meisjes das girls.</li> <li>b. Peter saw that John kissed</li> <li>TPeter saw that John kissed</li> </ul>	However, this is not a very attractive assumption, considering the fact that the specifier of CP must be available as an intermediate position in constructions of long distance movement (cf. section I.3.1). A possibly more viable implementation would be based on the analysis of topicalization in Koster (1978b) (cf. II.2.3; also Weerman 1989:52, Haider 1990, Kosmeijer 1993). In this analysis topics are base generated	as ter perpactal adjuncts to a dates, condeter what a resumptive demonstrative element (a <i>d-word</i> ) in the specifier position of CP: This d- word is generated inside VP and moves to the specifier position of CP, just like a full topic would, explaining the movement effects associated with	topicalization (cf. Chomsky 1977). The d-word may be phonologically null. This analysis correctly predicts that a d-word may always be present in topicalization constructions in Dutch. <sup>7</sup>	(11) Marie (die) kust Jan niet Mary that kisses John not "Mury John doean't kiss."	On the d-word analysis of topicalization, there must be room for <i>two</i> elements if topicalization is to occur, the d-word in the specifier position of CP, and the topic adjointed to CP.	We may now assume that there is room for a d-word in tunnedge clauses in Dutch, but not for a topic adjoined to CP. This may follow from a general ban on adjunction to arguments, as proposed in Holmberg (1986) and Chomsky (1986b). <sup>4</sup>	On this analysis, the constructions in (50) and (9) are not topicalizations. This is a welcome result, since the special intonational requirements in (9) suggest that the two constructions do not represent a	untery prenomenon. Recall that we have assumed that sentence adverbs do not have a fixed position (section II.4.2.4). This assumption allows us to describe	<sup>1</sup> On restrictions on the use of an overt d-word, see below, section 5.2.1.c. In Middle Dutch, topics could be resumed by the element so (Scoett 1977.229, De Vries 1910-1911:45). <sup>8</sup> This raises the question why topicalization is also excluded in adjunct clauses. Notice, however, that adjunct clauses often appear to be complements of a preposition, as they are introduced by the combination of a preposition and a complements of a preposition, as they are introduced by the combination of a preposition and a complementizer (e.g. voordat for that, before).

to be extremely marginal, unlike the topic deletion construction in the text.

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movement. As a result, the phrase in the complement of dat has the syntax of an independent CP or AgrSP with matrix clause word order.

these languages do not show the verb movement asymmetry of Dutch and German. In terms of our analysis, this suggests that Icelandic and Yiddish lack AgrS-to-C movement altogether. Possibly, languages without AgrS-to-C movement create constructions like (14) freely, whereas AgrS-to-C C movement treate on anoroticity of the second states and the second constructions like (14) freely. The analysis of (14) closely resembles the analysis of Vikner (1991a) languages tend to regard (14) as an anacolouthon.<sup>30</sup> In conclusion, embedded topicalization in Dutch is not freely possible. of embedded inversion phenomena in Icelandic and Yiddish. Importantly,

It has to be either Focus Scrambling or a kind of anacolouthon. This supports the idea that subject placement and topicalization are different.

### d. Subject deletion.

In clausal coordination constructions in Dutch, the subject or topic of the second clause can be deleted under identity with the subject or topic in the first clause:<sup>11</sup>

- Deze trein rijdt verdor als intercity naar Groningen this train goes on as intercity to Groningen (16) a.
- stoppen te Assen stop at Assen - zal alleen will only and and
- rijdt deze trein verder naar Groningen goes this train on to Groningen ? Na Zwolle after Zwolle à.
- nlieen stoppen te Assen only stop at Assen les lliv . en da

In (16), the subject of the second clause is deleted under identity with the subject of the first clause. The subject gap is indicated by a hyphen.

As argued in Zwart (1991c), the subject gap in (16b) should not be placed to the right of the verb zal will' (cf. also De Vries 1910-1911:170). This is clear from the agreement on the verb if the subject is the second

the prediction that object extraction out of embedded inversion constructions in Dutch yields an milder ungrammaticality (along the lines discussed in Lasnik and Saito 1984, Chonsily 13866, Rizzi 1990a, Chaque 1990), but this is not what we find. See Zwart (1991b:1310). <sup>14</sup> The properties of this type of subject deletion are discussed more extonsively in Zwart 1991c. Sea and Edule (1983), Te Velde (1992), Heycock and Kroch (1993), Thiersch (1993). <sup>20</sup> Structures like (14) are islands for extraction, whereas the comparable constructions in Lealandic and Tiddish are transparent (cf. Vikner 1991a and references cited there). It is generally assumed that the island character of embedded inversion constructions in Dutch is due to a violation of the Empty Category Principle. However, this like of analysis loads to

fron ungrammatical.<sup>13</sup> They indicate that grammatical function is irrelevant far These constructions are slightly odd, like (16b), but for deletion in coordinate structures (cf. Zwart 1991c).

Consider now the following ungrammatical deletion construction:

zal deze trein alleen stoppen te Assen will this train oaly stop at Assen after Zwolle \* Na Zwolle 63

beter nict nemen take ц better dus therefore - kun je cun you ដ ភូមិ

"After Zwolle this train will only stop at Assen, so you'd better not take it."

\_...

A subject following the verb in the first clause cannot trigger deletion of a topic in the second clause.

We can account for this if we assume that an element in the second clause of a coordinate structure can only delete under identity with an element in the first clause if the two elements are in the same structural position.

specifier position of AgrSP, and the deletion site in the second clause is the specifier position of CP. Hence, the deletion is ungrammatical. In (20), the subject in the first clause triggering the deletion is in the

Turning back to the grammatical deletion construction (16b) now, we must conclude that the trigger and the deletion site are in the same hence it is in the specifier position of AgrSP. Consequently, the deletion The second clause is a subject initial 'verb second' construction. Hence, these facts lead to the conclusion that subject initial main clauses can be structural position. The trigger in the first clause is an inverted subject, site in the second clause must also be in the specifier position of AgrSP. AgrSPs.

This account of the contrast between (20) and (16b) also has consequences for the analysis of the grammatical deletion constructions in (19). Here, we must conclude that the second clause in (19a) and the

<sup>14</sup> The marginal deletion constructions in the text contrast sharply with ungrammatical deletion construction like (1) and (11). In (1) the trigger for the deletion is in object position. in (ii) deletion cannot take place under identity, since the trigger is an overly Case marked pronoua:

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Ik ken Jan niet maar - werkt bij ATW 7 doar't know John bu (ka) works for cha Dept. of Linguistics.
 Rom ken ik niet, maer - weert bij ATW
 Han I doar't know, bu (ho) works for the Dept. of Linguistics.

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first clause in (19b) are also CPs, with the subject in the specifier position of CP. This leads to the conclusion that subjects can be topics as well

important point, however, is that there is also no reason to assume that Notice that nothing in the analysis of subject placement proposed in position, just like objects and adjuncts do. We cannot in principle exclude has this feature, it is forced to move to the specifier position of CP. The subjects always carry a feature [topic], any more than objects and adjuncts this book excludes the possibility that subjects move on to the topic the possibility that subjects occasionally have a feature [topic]. If a subject ę.

Concretely, in the second clause of (19a) and in the first clause of (19b), the subject has the feature (topic) and moves to the specifier position of CP. In that position, it can be deleted under identity with a There is empirical evidence that this is the correct approach. Recall that weak pronouns cannot appear in the specifier position of CP. We predict now that a construction like (19b) is impossible when the subject triggering the deletion would be out independently, because the first clause contains a topicalization in that construction).<sup>14</sup> This prediction in the first clause is a weak pronoun ((19a) with a weak pronoun topic in the first clause, or trigger deletion of a topic in the second clause. is borne out:<sup>15</sup>

- niet vot ATW. maar ken ik verder Gen.Ling. but know I further "You work for the Dept. of Linguistics, but I don't know (you) (21) a. \* Je werkt bij ATW. you work at Gen.Lii you
- nauwelijks horen hardly hear Iou ware that a partfact, maar - kun je apartfact bertloct, maar - kun je "Het voelt pertloct, but can you it plays perfectly, but one can hardly hear (it)." <u>م</u>

impossibility of having weak pronouns in the topic position. It is not clear The ungrammaticality of the sentences in (21) can be related to the to what extent this affects the second clause of the coordination, since the <sup>14</sup> Notico that in order to test this prediction, we need to select a weak prönoun that has identical subject and object forms (see section II.1.5). The 2SC and the 3SC nouter pronouns are the only candidates, therefore.

desart make a sound'. Also, a strong pronoun having but one form for subject and object, like *julite* 2PL you'dehaves like a full noun phrase, o.g. in allowing *Jullit werken bij ATW, maar* - ken *ik verder nie*t 'You work for the Linguistics Department, but I don't know you apart  $^{16}$  Pronouns generally do trigger deletion in coordinate structures, as in Je werkt bij ATW maar - komt nooit naar de lezingen You work for the Linguistics Department, but never attead the talks' and Het speelt perfect, maar - maakt geen geluid 'It plays perfectly, but from that', or Dat speelt perfect, maar - kun je nauvelijks horen "That (thing) plays perfectly, but you can hardly hear it.

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VERB MOVEMENT 255	<ul> <li>(2) a. John, I don't like him</li> <li>Jan, I k mag hem niet</li> <li>John I may him not</li> <li>"John I don't like him."</li> </ul>	In addition to these two constructions, Dutch has a construction in which the leftmost constituent is immediately followed by a d-word:	(3) Jan, die mag ik niet John that may I not "John, I don't like."	This construction is absent from English. Following Kosmeijer (1993), I will refer to it as contrastive dislocation. Contrastive dislocation must not be confused with a fourth type of fronting, <i>clitic left dislocation</i> (Cinque 1990):	<ul> <li>(4) Gianni, non lo conosciano</li> <li>John not him we-know</li> <li>"John, we don't know him."</li> </ul>	The clitic <i>lo</i> resuming the fronted element <i>Gianni</i> cannot be a tonic pronoun (Cinque 1990:56), whereas the resumptive d-word in (3) does not have the phonetic or syntactic properties of a clitic. Thus, <i>die</i> in (3) can be stressed, and can be replaced by a phrasal category:	<ul> <li>(5) a. Mee Jan, daarmee praat ik niet Dutch With John therewith speak I not "With John therewith speak I not "With John taout speak"</li> <li>b. Jan, tie zh ouders know I not "John, I don't know his parents."</li> </ul>	Another clear difference between <i>lo</i> in (4) and <i>die</i> in (3) is that <i>lo</i> can be clause internal, whereas <i>die</i> is the first element following the fronted element. In fact, <i>die</i> looks like a fronted element itself, triggering subject verb inversion:	(5) <b>"Jnn, die ik ken niet</b> John that I know not	Other differences between clitic left dislocation and contrastive dislocation are that clitic left dislocation can take place in embedded clauses and can invoive a stacking of fronted elements (see Cinque 1990:58 for examples), whereas this is impossible in contrastive dislocation (see 5.1.2.c and 5.3.3 for the status of $(7b)$ ):

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sentences in (21) could only occur when the subject in the first clause occupies the specifier position of CP as well, and this is excluded when the subject is a weak pronoun (Kruisinga 1938:95, Merckens 1961:152, Koster weak pronoun is deleted before reaching PF. But under our analysis, the 1978b:210, Travis 1984:123).

Summarizing, this analysis of coordinate structure deletion leads to the conclusion that subjects and topics in Dutch occupy different positions.

### 5.1.3 Conclusion

The hypothesis that the subject and the topic in Dutch occupy different positions in overt syntax follows from the minimalist approach, and is supported by several empirical observations.

## 5.2 Differences between Topicalization and Wh-Movement

In section 5.1, I have argued that topicalization and subject placement should be kept apart. Both movements are triggered by different feature checking requirements, and target different positions.

be split up in a projection involved in wh-movement and a projection involved in topicalization (see also Müller and Sternefeld 1993, Hoekstra 1992a, Koekstra and Zwart 1993a). In this section, I will present empirical evidence from Dutch in support of this 'split CP hypothesis'. wh-movement should be distinguished likewise. Consequently, CP should Müller and Sternefeld (1990) argue that topicalization and

### 5.2.1 General Considerations

a. Terminology In the literature, several types of constructions are distinguished in which arguments or adjuncts occupy a marked sentence initial position. Following Ross (1967), we may distinguish *topicalization* constructions (1) and left dislocation constructions (2).

- John, I don't like Jan mag ik niet John may I not "John I don't like." غر اه Э

Dutch

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ken know ik niet not pot ik niet Jan die John that Jan die John that dat that that \* 4 E

know I ken \$ ,a

- ik niet I not zng snw niet there that/that there danr die/die danr op school, at school Jan, Jan, Jan, \* ė 9
  - zag ik hem saw I him daar op school. d
    - DOC John. I didn't see him at school." there at school John
      - op school, die zag ik daar niet at school that saw I there not Jan, John \* J

(3b) and (3c) contain a combination of contrastive dislocation and left dislocation. As can be seen, the left dislocated element appears to the left of the contrastively dislocated element.

### b. Wh-movement

similar properties, it may be the case that covert wh-movement is discussed locality conditions on the relation between the wh-element and the gap (Ross 1967, Chomsky 1977:92, Chomsky 1981, Chomsky 1986b, many others). If any of the four left dislocation constructions shows It is useful to compare these four types of left dislocation with wh-movement. In addition to fronting of a wh-element, wh-movement constructions characteristically show the presence of a gap, and much involved.

It is clear that left dislocation and clitic left dislocation do not involve movement. The non-wh character of left dislocation was demonstrated in Ross (1967) and Chomsky (1977). Cinque (1990) shows the same for clitic a gap. This suggests that these constructions cannot be reduced to whleft dislocation.<sup>1</sup>

they show the same locality effects on the relation between the gap and the fronted element as do wh-constructions (Chomsky 1977:91). The same Topicalization and contrastive dislocation do involve a gap. In addition, goes for contrastive dislocation constructions, as can easily be shown:

<sup>4</sup> Cinque (1990) also shows that there are significant differences between left dislocation and clitic left dislocation, but these do not concern us here.

- 7bad bad Fiet het verhaal dat hij t verslagen Pete the story that he beaten vertolde 25 Wie å ಕ 6
  - had "Who did Pete tell the story that he had benten" Jan vertelde Piet het verhand dat hij t verslagen John told Pete the story that he beaten "John, Pete told the story that he had beaten." • å
    - - \* Jun, die vertelde Piet het verhaal dat hij 2 verslagen had John that told Pete the story that he beaten had "John, Pete tole the story that he had beaten. ປ

there is an object gap in the object noun phrase inside the 'who' on standard locality conditions (cf. Ross 1967). Apparently, the same embedded clause, which cannot be related to the leftmost wh-element *wie* effect shows up in the contrastive dislocation construction in (9c). Б (9a),

Likewise, wh-movement, topicalization, and contrastive dislocation are all unbounded:

- ducht je dat Piet zei dat hij gezien hud? thought you that Pete said that he seen had Who đ 9
  - "Who did you think Pete said he saw?"
- dat Piet zei dat hij gezien had that Pete said that he seen had John thought I that Pete said "John, I thought Pete said he saw." dacht ik Jan Ę فہ
- dat hij gezien had that he seen had die dacht ik dat Piet zei that thought I that Pete suid John that thought - . "John, I thought Pete said he saw." d

CP, in a successive cyclic manner (Chomsky 1973; see section I.3.1 for a specifier positions of the embedded CPs to the specifier position of the root Again, topicalizations and contrastive dislocations appear to behave in the It is assumed that in (10a) the wh-element wie moves through the modification of successive cyclic movement in a minimalist framework). same way.

For these reasons, Chomsky (1977:91) assumes that topicalization involves wh-movement. This leads to the following structure for (1a):

[<sub>Top</sub> John ][<sub>GP</sub> Wh<sub>1</sub> [ I don't like t<sub>1</sub> ]] 8

Wh-movement in English triggers subject verb inversion, except in CP in (11) is a kind of free relative. This would explain the absence of inversion in topicalization constructions. On this analysis, (1a) could be paraphrased as (12a). As (12b) shows, free relatives display no subject embedded clauses (including relative clauses). Chomsky assumes that the verb inversion:

VERB MOVEMENT 259	can be omitted. Thus, quantified noun phrases, personal pronouns, and anaphors in topic position do not allow insertion of a d-word:	<ul> <li>(15) a. Icderven ("die) ken ik Everyone that know I "Everyone. Linow."</li> <li>b. Ham (72die) ken ik him that know I "Eim. I know."</li> <li>c. Zichzelf ("die) herkent Jan niet Zie-self ("die) herkent Jan niet "Himself, John doent recognizes."</li> </ul>	On the other hand, when the topic is associated with a PP-internal gap, there must be a d-word. <sup>3</sup> (16) a. Jan ??(dnar) houd ik niet van John there hold I not of "John id or love" ik niet van John that hold I not of	As (16b) shows, the d-word in this case must have the feature [+R]; only elements carrying this feature can be moved out of the PP in Dutch (Van Riemsdijk 1978). The obligatory presence of a d-word in (16a) is obviously related to this restriction on extraction out of PP. We may assume that in order to interpret (16a) correctly, the [+R] feature must be overtly realized. <sup>4</sup> This does not exclude the possibility that in other contexts, the d-word is covertly present. As for the obligatory absence of the d-word in the sentences in (15), I assume that in at that is the result of a feature matching requirement between the overt d-word and the topic. As observed in Lasnik and Uriagereka	<ul> <li><sup>3</sup> Quite possibly, however, the presence of a d-word in these constructions is not grammatically enforced but stylistically preferred (cf. Jansen 1981).</li> <li><sup>4</sup> An exception to the rule that the (+R) feature must be overly roalized is presented by so-called topic drop constructions (Cardinaletti 1990), as in (i);</li> <li><sup>(13)</sup> Onar) houd it not van the two overly roalized is presented by so-called topic drop constructions (Cardinaletti 1990), as in (i);</li> <li><sup>(13)</sup> Onar) houd it not van the two overly roalized is presented by so-called topic drop constructions (farmed or van the trans I don't not it not that', of the Dickon 1992b). See Jansen (1981) for a presented to the that' of the that' of the Dickon 1992b). See Jansen (1981) for a presented of the reaction of the that' of the Dickon 1992b). See Jansen (1981) for a presented of the there is a presented or prevention of the that' of the Dickon Dutch involving extraction of root-(1,81) elements.</li> </ul>

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John (is who) I don't like Who I don't like is John ei ei ទ

inversion either. (13a) is a free relative paraphrase of topicalization in Dutch, and (13b) a standard free relative construction in Dutch: However, if this is correct, topicalizations in Dutch (1b) should not show

(13) a.

à

Jan John Jan (is wic) ik nict mag John is who I not may "John (is who) I doat like." Wie ik nict mag, is Jan who I not may is John." As can be seen, the constructions in (13) show no inversion, contrary to the topicalization construction in (1b)(Jan mag ik niet). It is difficult, then, to derive topicalization in Dutch from a free relative, in the way Chomsky proposes for English.

The Dutch evidence, then, suggests that (11) is not a completely correct analysis of topicalization. In particular, the empty element moved to the specifier position of CP cannot be a Wh-element.

This is not to say that the *structure* in (11) is inappropriate. It may well be the case that there is movement of an empty element inside CP, and that the topic is adjoined to CP (cf. II.2.3 and section 5.1.2.c). Only, the empty element cannot be a wh-element. Rather, if it exists, it must be an element that triggers inversion in Dutch, but not in English.

c. Unifying Topicalization and Contrastive Dislocation

Kosmeijer (1993.132) argues that topicalization and contrastive dislocation in Dutch are structurally similar. That is, both (1b) and (2b) have the structure in (11), where the element in the specifier position of CP is not a wh-word but a possibly covert d-word.<sup>2</sup>

ler Jan (er (die) mag (er ik niet ]]] (14)

I will adopt this analysis, for the following reasons.

First, it is not clear that (1b) and (2b) have different properties. In the absence of evidence to the contrary, we want to reduce the two constructions to one type.

It is true that not all topicalization constructions allow insertion of a d-word, and that in not all contrastive dislocation constructions the d-word <sup>3</sup> In (14), the topic is Chomsky-adjoined to CP instead of generated in a CP-external Top position. The distinction is irrelevant for our concerns. Recall that adjunction of the topic to CP is allowed by the LCA of Kayne 1993 if the results of section L3.3 are correct.

VERB MOVEMENT 263	<ul> <li>(23) a. 7Dat/of Jan LGB gelezen heeft (dat) vraag ik me nf thavif John LGB read has that ask I me off T wonder whether John has read LGB.</li> <li>b. Ek vraag me af "dat/of Jan LGB gelezen heeft I wonder thavif John LGB read has</li> <li>c. Ek vraag me dat af I off John LGB read has</li> <li>f. vorder about that.</li> </ul>	Verbs like zich afvragen 'wonder' take as their complement a noun phrase (23c) or an embedded interrogative (28b). A CP introduced by dat 'that' is ungrammatical in the complement of zich afvrager, but is (nearly) grammatical in the topic position (23a). For the interpretation of (23a), the presence of the d-word dat is completely irrelevant. Importantly, the topic CP dat Jan het boek gelezen heeft in (23a) does not have a presuppositional reading. It is not necessarily the case, in (23a), that John actually read LGB, and that I wonder about something that actually took place.	<ul> <li>Again, and much production can only be explained if the topic is base construction can only be explained if the topic is base generated outside the CP, and the gap is related to a, possibly empty, dword.</li> <li>A similar argument can be construed on the basis of the following paradigm, pointed out to me by Marcel den Dikken:</li> <li>(24) a. Marie (te) kussen (dat) sou ik nooit durven proberen Mary to kiss that would never dare by the so hary.</li> <li>(24) a. Mary to kiss that would never dare to try bias Mary.</li> <li>(24) a. Would never dare by Marcel (etc) kussen i would never dare to try bias Mary.</li> <li>(24) a. Would never dare try bias Mary.</li> <li>(24) a. Iwould never dare try bias Mary.</li> </ul>	<ul> <li>Proberen 'try' selects either an infinitival complement with te (24b) or a noun phrase complement (24e). In the fronted infinitival construction in (24a), te is optional. As (24b) shows, reconstruction of the fronted infinitival construction without te is impossible. Hence, it must be that (24a) is derived from (24c) by topicalization of a possibly empty d-word, and that the infinitival construction in (24a), with or without te, is basegenerated in a left-peripheral position.</li> <li>For these reasons, I assume that topicalization reduces to contrastive dislocation. Hence, I will refer to both constructions indiscriminately as topicalization.</li> </ul>
		· ·		
262 DUTCE SYNTAX	A second argument for reducing topicalization to contrastive dislocation is based on VP preposing' (cf. Haider 1990). In the constructions referred to as VP preposing, the topic is a verbal projection, not necessarily a complete VP, but possibly also including some functional projections. The relevant aspect of this type of construction here is that the VP topic cannot always be reconstructed without yielding an ungrammatical construction:	<ul> <li>(22) a. Boeken lezen (dat) doet Jan niet books read that does John not "John does not read books."</li> <li>b. Jan doer niet books read cooks read cooks read does not books read do john does not books d. John reads no books d. John does that not "John does that not "John does that not</li> </ul>	In (22a), the d-word dat is apparently optional. Suppose that when it is absent, the VP boeker lezen is not base generated outside CP, but moved to the specifier position of CP, leaving a gap. Then we expect that the VP can be replaced in the position of the gap. As (22b) shows, this is impossible. <sup>8</sup> The correct non-topicalized variant of (22a) (without the d- word) would be (22c), but (22a) and (22c) are presumably not derivationally related. This sugrests that the gap in (22a), with or without the d-word is present in (22a), i.e. in the contrastive dislocation configuration, the d-word is present in (22a), i.e. in the contrastive dislocation configuration, the evord is present in (22a), i.e. in the contrastive dislocation configuration, the position of CP. As (22d) shows, the quap by moving to the specifier position of CP. As (22d) shows, the d-word can be replaced in the position of CP.	operation takes place when the d-word is not overtly present. A third argument supporting the reduction of topicalization to contrastive dislocation is provided by the following paradigm. "In some dialects, e.g. Brubantiah, modal deer 'do' can appear as a matrix verb. In those dialects, however, (22b) would still not be a correct construction, as the combination of the aspente element rate' not and a bare plural noun plurase always yields a noun plurase with the determiner geer 'no', as in (22c).

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realization of embedded assertions. Let us call this projection 'Topic Phrase' (TopP), again following Hoekstra (1992a).<sup>14</sup>

As (26a,b) show, the TopP appears in the complement of the WhP. (25a,b) show that when the embedded clause is a WhP, the TopP may be absent, or may have an empty head (an issue I will not try to resolve here).

Hoekstra (1992a) presents an empirical argument supporting the existence of two independent complementizers in Dutch, each heading its own projection. This argument is based on coordination.

own projection. This argument is based on coordination. If *ofdat* in (26a,b) were a complex complementizer, heading an undivided CP, we would not expect this complementizer to be split up under coordination. Hoekstra shows that complex complementizers like *omdat* because' (literally for-that') behave as predicted:

(27) a. \* Dat is grappig omdat Hardy dik is en dat Laurel dun is That is funzy because Hardy fait is nad that Laurel skinny is b. Londat Kardy dit is en (ondat) Laurel dun is because Hardy fat is und because Laurel skinny is

"That's funny, because Eardy is fat and (because) Laurel is skinny."

However, ofdat can be split under coordination:

(28) Ik vraag ofdat Hardy dik is en (ofdat Laurel dun is I ask if that Hardy fat is and that Laurel skinny is "Tim asking whether Hardy is fat and Lourel skinny." Hoelsstra argues that in (28) two WhPs are coordinated when the second clause is introduced by *ofdat*. Likewise, when the second clause is introduced by *dat* it must be the case that two CPs are coordinated. This shows that of and *dat* head separate functional projections.

b. Long Distance Extraction

The distinction between WhP and TopP is also needed to account for differences between long distance wh-movement and long distance topicalization (Hoekstra and Zwart 1992, 1993a). First, consider the following contrast: <sup>14</sup> The reason for choosing this term will become apparent in subsection b of this section.

 2k denk dat\*of(dat) Jan Marie gekust heeft I think that/fthat) John Mary kissed has T think that John kissed Mary.

ଶ୍ଚି

b. Wie denk je dat/of(dat) Jan gekust heeft who think you that/afthat) John kissed has "Who do you think that John kissed?" Of and ofdet are out in (29a). This is understandable, since denken think does not take an interrogative argument. However, in (29b) of and ofdat are possible.<sup>14</sup> Apparently, this is related to the process of wh-movement out of the embedded clause.

In the traditional approach to movement, involving a requirement that steps be as short as possible, long distance movement takes place in a successive cyclic manner (Chomsky 1973). In this approach, wh-elements must first move to an intermediate landing site, and then move on to the next cycle. Assuming this analysis, the fact that the wh-complementizer of becomes available in (29b) suggests that the intermediate landing site must be the specifier position of a WhP.

Notice that this traditional approach yields a problem if we assume that elements that have their features checked can no longer move on (section 1.2.3). If a wh-element moves to the specifier position of a WhP (or CP, for that matter), it can only do so if its morphological features are cDedeed as a result of this particular movement step. If so, further movement of the wh-element is not allowed, since its wh-features are already checked, and no trigger for movement exists anymore.

This supports the view on long distance movement explored in section 1.3.1. According to this view, the shortest steps requirement does not exist. Hence, wh-elements are allowed to move as far as is necessary. However, the structure resulting from the movement must also be interpretable. In particular, it must be possible to link the trace to its antecedent, the moved wh-element. I assumed that this is where the chain formation process comes in. Since the links connecting the trace and its antecedent must be local, intermediate empty wh-elements are needed in order to make a felicitous interpretation possible. For this reason, an empty whelement must be generated in each cycle, by way of generalized transformations. This empty element will serve as the link between the trace and its antecedent in long distance movement constructions.

On this analysis, the fact that of becomes available in (29b) suggests that the intermediate element must be of a particular type. This is

<sup>16</sup> There is a distinct preference for ofdat to of. though.

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explained if we assume that a chain must be internally consistent (cf. Browning 1987:231, Müller and Sternefeld 1993):<sup>16</sup>

(30) Uniformity Condition on Chains In a chain CH (α<sup>(1,1</sup>, α<sup>1</sup>), i21, where α' has feature φ, every α<sup>(1</sup>, i2m21, must have φ According to (30), the intermediate empty element in a long distance whmovement construction must be a wh-element. Hence, this element must be generated in the specifier position of a WhP. This is explained if the Wh in the embedded clause has strong N-features which must be checked by generating a wh-element in its specifier position.

by generating a wh-element in its specifier position. The traditional analysis and the Form Chain analysis both lead to the same conclusion: the intermediate element in long distance wh-movement constructions must occupy the specifier position of a WhP. This yields the following structure of (29b).<sup>17</sup>

(29b)  $[w_{hhe} Wie_1 \dots [w_{hhe} e_i (of) [r_{rope} - (dat) [ \dots t_i ]]]]$ 

In (29b), of is apparently optionally present, even though WhP must always be present in order to host the empty intermediate wh-element. The optionality of of is also apparent when the specifier position of WhP is occupied by an overt wh-expression, as in (31)(cf. (25b)):

(31) Ik vraag wat (oO Jan gedaan heeft [ ask what if John done has "Tm asking what John did." In this analysis, the specifier position of the WhP is the designated position for all wh-elements: empty operators (25a), wh-phrases (25b), and empty intermediate wh-elements (29b).

Consider now long distance topicalization with denken. Here, introduction of  $\sigma f$  is never possible:

<sup>14</sup> The uniformity condition cannot apply to chains resulting from independent functional beah movement, since we assumed that the features of functional heads are represented in sheah movement, since we assumed that the fate the uniformity condition to be a condition on interpretention, not on representation.

<sup>17</sup> (29b) does not express the fact that either of or dat must be present. If neither is present, verb movement takes place, yielding Wie denk je heeft Jan gekust who think you has John kissed' (cf. the erlebte rede construction in II.1.2.1).

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Marie (die) denk ik dat"offdat) Jan gekust heeft Mary that think I that/iffthat) John kissed has "Mary, I think John kissed."

(25) (25) Topicalization, we concluded in section 5.2.1, involves base generation of a topic and fronting of a d-word. Assuming that long distance movement of this d-word, like wh-movement, proceeds in the same way as discussed above for long distance wh-movement (keeping the results of Chomsky 1977), there must be an intermediate empty d-word somewhere in the CP system of the embedded clause.

The fact that of(dat) in this case is impossible indicates that the intermediate landing site cannot be the specifier position of WhP. Thus, we must assume that dat makes a different kind of specifier position available, in accordance with the Uniformity Condition on chains (30). This leads to the following analysis of (32):

(32) [Tree Tree [rear (die) ... Free & dat [Lars ... 4, 1]]]

In (32'), the d-word moves to the specifier position of the matrix TopP, and is linked with its trace through the intemediate empty element in the specifier position of the embedded TopP. This intermediate empty element, I assume, is generated in the embedded TopP in order to check the Nfeatures of Top.

We may now consider the specifier position of TopP as the designated position for the d-words involved in topicalization, and for the empty elements in chains headed by a d-word. Hence, the term Topic Phrase for the maximal projection of the complementizer  $dat^{18}$ 

We are now in a position to understand the differences between topicalization and wh-movement described in section 5.2.1. The two processes involve different kinds of movement (d-movement and wh-movement). These two movement processes target different positions and employ different intermediate positions, as the complementizer selection facts show.

c. Parametric variation

If topicalization and wh-movement target different positions, different features must be involved. Recall that parametric variation is expressed in terms of the strength of the morphological features represented in functional heads. Therefore, if topicalization and wh-movement involve different features, we expect that the features involved in topicalization can change from weak to strong independently of the specification of the <sup>14</sup> 'D-word' Phrase' might be more appropriate, but 'DP' is reserved for the Determiner Phrase (Abney 1987).

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	conjecture that verb movement in cases of wh-movement is triggered by something "stronger" than in cases of topicalization. This suggests that different features, hence different heads, are involved in the two cases. Finally, the same parametric variation occurs synchronically among dialocts of Dutch, in particular in French Flemish and West Flemish dialects (Veroouillie 1885, Vanacker 1968, Kloekstra 1992a). Again, topicalization does not necessarily trigger inversion, but wh-movement does. <sup>21</sup> Thus, constructions like the following are found:	
	<ul> <li>(35) a. Bijgevolg er kwamen geene inschrijviagen West Flemish as a result there camp no subscriptions</li> <li>As a result ao subscriptions came in."</li> <li>Bieke viczan me zieni fele gimeer uliern French Flemish pale calves we see-aot many anymore here "We don't see many pale calves around here anymore."</li> </ul>	
-	Wh-constructions without subject-verb inversion are absent in these dialects, just like in Standard Dutch. These facts show that different features are involved in topicalization and wh-movement. Accordingly, these features must be represented in different functional heads.	
	d. Island violations. Muller and Sternefeld (1993) argue that long distance topicalization and long distance wh-movement employ different intermediate landing sites. The intermediate landing site for wh-movement is the specifier position of the embedded WhP, and the intermediate landing site for topicalization is the specifier of the embedded TopP. <sup>23</sup> Suppose the specifier position of the embedded WhP is occupied, creating a wh-island. Long distance wh-movement is now predicted to be unremained.	
	movement, to marginal, in the case of object wh-movement, cf. Lasnik and Saito 1984, Chomsky 1986b, Cinque 1990). What about topicalization? Long distance topicalization has its own intermediate landing site, the	
	<sup>20</sup> (continued) noun phrase subjects disappeared in the second half of the 14th century. Van Kemenade (1987:200) notes that object clitics may also intervene between the topic and the verb in Old English. I refer to her work for discussion of the facts and the issues involved. <sup>21</sup> Vorcoullie (1885:47) remarks that the order Topic-Subject-Verb is the most common one in the West Flemish dilects nerports on. <sup>22</sup> Multer and Stremetiat (1993) use CP for Wh2 <sup>2</sup> and TP for TopP. In their analysis, the designated intermediate landing sites follow from a theory of improper movement. In the <i>C</i> -rout approach, improper movement reduces to the uniformity condition on chain <i>c</i> -rout.	em e e e e

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features involved in wh-movement, and vice versa. In other words, we expect synchronic and diachronic variation in topicalization and wh-movement to be independent.

Dutch, both topicalization and wh-movement involve subject-verb inversion. However, in many languages subject-verb inversion takes place in wh-movement constructions only. English is a case in point.<sup>10</sup> This prediction is borne out by the facts. In present day Standard

Who are you? \* Who you are? d. ia (e) (e)

Pan you are \* Pan are you ы. Ю (<del>7</del>

This can be accounted for if there are two different functional heads involved in topicalization and wh-movement, each with an independent parameter setting triggering or prohibiting verb movement. Diachronic data point in the same direction. In older stages of Dutch

and German, wh-movement consistently triggers inversion, whereas topicalization does not do so consistently. Thus, we find examples like (35) in Middle Dutch (Van der Horst 1981:40):

Alse Joseph reet Maria ghinc when Joseph rode Mary went (35) a.

- ف
- hi seide... he said "When Joseph was riding, Mary would walk." Doon Elegast quam in des concincs salo When Elegast came into the king's huli

On the other hand, wh-movement always triggers inversion in main clauses.

A similar discrepancy between topicalizations and wh-constructions is found in Old English (Van Kemenade 1987:196f, Tomaselli 1990). Here, citities may intervene between a topic and the finite verb, but not between a wh-element and the finite verb.<sup>20</sup> This leads Tomaselli (1990) to <sup>10</sup> Constructions like So in *love with you am I* appear to involve both topicalization and subject-verb inversion. However, I will follow Culicover 1991 in assuming that this type of construction involves movement to the specifier potion of a functional projection situated enterven the CP system and the Agr-system (Culicover's *Placary, Plarasel*). Culicover shows that movement to thin position is quite different from topicalization. I do not follow his conclusion that topicalization does not involve movement to a specifier position.

<sup>26</sup> Full noun phrase subjects, unlike cliffes, do not appear between the topic and the verb. This suggests that some inversion process is going on in topicalizations in Old English, but that it differs from the inversion in wh-constructions in not skipping the cliffe. Van Kemenade (1987:138) reports that the difference in behavior between subject clibes and full (continued...)

formation.

VERB MOVEMENT 273	that long distance topicalization makes use of a different intermediate position for chain formation than does long distance wh-movement. <sup>34</sup> e. Conclusion In this section I have discussed several phenomena of Dutch syntax which show that different faatures are involved in wh-movement and	topicalization. The minimalist assumption that different features are represented in different functional heads accounts for many properties of these phenomena, including the existence of double complementizers, the distribution of the complementizers in long distance extraction constructions, the parametric variation that exists, both diachronically and synchronically, and the absence of wh-island effects in long distance	topicalization. In view of this, it seems appropriate to conclude that topics and wh-elements are licensed in separate functional projections.	5.2.3 Conclusion The general considerations and empirical observations discussed in this section support the structure of the CP-system proposed in (1), repeated here:	(40) WhP spec whAP appe TopP TopP TopP	In (40), the spec position of WhP is the designated position for checking the N-features of Wh, associated with the [wh] features on wh-elements. The spec position of TopP is the designated position for checking the N- features of Top, associated with the [topic] feature on the empty	<sup>24</sup> Many questions remain, however. First, the classical whishand effect on topicalization (Chomaky 1977;31, <i>this book.I wonder who likes</i> ) is now an anomaly. Second, Muller and Scernefeld (1993) argue that adjunct topicalization out of a whishand in German is ungrammatical, contrary to what we found for Dutch. Other facts from German howver, involving indirect topicet topicalization out of a whishand, are compatible with the Dutch facts. Also, and separaters of Dutch consider (38a) and (39a) lass than perfect, although the	relative judgments are clear. I will leave the explanation of the absolute judgments a subject for further study.
272 DUTCH SYNTAX	specifier position of TopP. We therefore expect topicalization out of a wh- island to have a different status than wh-movement out of a wh-island. As Müller and Sternefeld (1993:494) show, certain facts of German appear to confirm this expectation. The following paradigm is quoted from Fanselow (1991:225): <sup>23</sup>	<ul> <li>(37) a. Radios kann ich mich nicht erinnern wer repariert hat radios can I me-REFL not recall who repaired has "Radios. I don't recall who repaired (them)."</li> <li>b. Was kannet du dich nicht erinnern wer repariert hat? what can you you-REFL not recall who repaired has "What don't you recall who repaired (them)?"</li> </ul>	However, since Cinque (1990) has argued that object extraction facts are unreliable, we need to consider topicalization of adjuncts and prepositional objects as well. The following facts are from Dutch:	<ul> <li>(35) a. Morgen weet ik hoe laat ik kan tamorrow know i how late I can</li> <li>"I know what time tamorrow i'm available."</li> <li>b. "Vannee: weet jo hoo laat jo kunt? whon e know you law hat you kan an</li> </ul>	In the intended reading of (38a), morgen tomorrow' belongs to the embedded clause, restricting the interpretation of the embedded wh-phrase hoe laat 'what time'. This shows that topicalization out of an embedded interrogative is possible. (38b) shows the familiar wh-island effect on adjunct wh-movement, again under the intended interpretation where warneer 'when' belongs in the embedded clause. Prepositional object movement shows the same asymmetry:	<ul> <li>(39) a. Daarnan weet ik hoe vank Jan denkt thereon know I how often Join thinks</li> <li>Tiznow how often Join thinks of that.</li> <li>b. Waarnan weet je hoe vast kan denkt?</li> <li>b. Waarnan weet je hoe vast Join thinks</li> <li>c'Of what do you know how often John thinks?</li> </ul>	Again, the wh-island configuration appears not to block topicalization. If we remove the wh-element in the embedded clauses in (33) and (39), the wh-movement cases improve considerably, but the status of the topicalization cases does not seem to be affected. This supports the idea	<sup>22</sup> Fanselow (loc.cit.) remarks that others assign a question mark to sentences like (37a), алd that (37b) becomes better as an echo question.

resumptive d-word. Topic phrases are adjoined to the TopP Segment (which, for independent reasons, is impossible if the CP-system is a full WhP). The subject is licensed outside of the CP-system, in the specifier position of AgrSP.

This analysis argues against the traditional approach to Dutch syntax, in which all verb second phenomena are subsumed under movement to C. This analysis now turns out to be insufficient even for wh-movement and topicalization, since these movement processes are seen to target different positions.

The analysis further supports the main point argued for in this chapter, namely that the functional projections in Dutch are all head initial.

In the final subsection, I will propose a minimalist analysis of verb movement to the head positions of Top and Wh.

# 5.3 A Minimalist Account of Topicalization and Wh-Movement

is analyzed. Since this verb movement cannot be triggered by the presence of a V-feature in Top and Wh, the V-feature triggering verb movement functional head movement to Wh or Top. Finally, in section 5.3.3, the This section contains an analysis of topicalization and wh-movement in related projections, introduced by Chomsky in class lectures (see Mahajan 1990:10, Chomsky and Lasnik 1991:37), is crucial in understanding the against features of the verb. Section 5.3.1 briefly summarizes the analysis of nonL-related XP-movement (i.e., topicalization and wh-movement) that has been developed in section 5.2. NonL-related XP-movement and Lmay be unbounded (assuming the Form Chain approach to unbounded movement). In section 5.3.2, head movement of the verb to Top and Wh must reside in a functional head which has undergone independent properties of embedded verb movement constructions in Dutch are briefly minimalist terms. The distinction between L-related projections and nonLproperties of these constructions. This leads to the conclusion that Wh and Top, being nonL-related, do not have a V-feature that must be checked related XP-movement differ crucially in that the former, but not the latter, discussed.

## 5.3.1 NonL-Related XP-Movement

Among the many phrasal positions in a syntactic tree structure, a natural distinction can be made between positions in which arguments are generated and all other positions. The former are called 9-*positions* in the Government and Binding framework (Chomsky 1981). In that framework,

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It was assumed that the subject of a clause is generated in the specifier position of IP. It was supposed to receive its 9-role 'compositionally', from VP. However, the specifier position of IP could not generally be characterized as a 9-position, in view of the fact that unaccusative verbs do not assign an external 9-role. Nevertheless, it seemed appropriate to postion this structural subject position together with the structural object position, the sister of V. For this reason, the specifier of IP was defined as a *potential* 9-position, and, as potential 9-positions, the structural subject and object position were grouped together as A-positions. The residual XP positions were called A'-positions.

In the Government and Binding framework, the only A-position in the functional domain was the specifier position of IP. However, as the number of functional projections increased, so did the number of Apositions in the functional domain. For instance, Vanden Wyngerd (1985a) and Mahajan (1990) clearly showed that the specifier position of AgrOP has the properties of A-positions. But this position could not be defined as a potential θ-position. In addition, many have argued that the specifier position of AgrSP or TP should not be regarded as a potential θposition either, assuming that the subject θ-role is assigned to the specifier position of VP, or to a position adjoined to VP. (Ragter and Beukema 1985, Kitagawa 1986, Sportiche 1988, Koopman and Sportiche 1991). These developments undermine the A/A distinction, and lead to a distinction between domain).

Nonetheless, there are clear differences among two types of non9positions. In the Government and Binding framework, these two types are most clearly represented by the specifier of IP on the one hand, and the enortier of CP on the other.

specifier of CP on the other. Intuitively, the two sets of nonθ-positions can be distinguished in the following way. In every clause, whenever there is a verb, there must be at aleast one argument. For the derivation of a clause to be convergent, the arguments of the verb have to be licensed. A licensing position in the functional domain for each argument of the verb is therefore an essential part of every clause. I will call the set of licensing positions the existence of which derives from the very presence of a lexical head *L-related*, following Chomsky and Lasnik (1991:37). The specifier positions in the IP system (AgrSP, AgrOP, TP) are *L*-related positions. The specifier positions in the CP system have a different status. Clauses can very well receive a corregent derivation without the presence of a TopP or WhP. It is a particular feature of the clause as a whole, rather than a property of the lexical head of the clause (the verb) that requires the presence of these functions in the related (squin following Chomsky and Lasnik 1991).

The distinction between L-related positions and nonL-related positions captures the older distinction between A-positions and A-positions.<sup>1</sup> Notice that it would be insufficient to redefine the set of A-positions in terms of agreement with a functional head, since an element in the strenger position of WhP or TopP is in agreement with Wh or Top, just like an element in the specifier position of AgrSP is in agreement with AgrS (cf. Rizzi 1990b).

Much of the structure of the functional domain follows from the distinction between L-related features and nonL-related features. The former are essential, the latter additional. The former are related to properties of the verb, the latter to properties of the clause as a whole. Assuming that the essential features are checked before the additional ones, it follows that L-related features must be checked before nonLrelated features. Hence, the CP system must be situated outside the IP system.

It also follows that movement from a nonL-related position to an L-related position is impossible. All L-related features are already checked before movement to a nonL-related position takes place. Hence, movement back to an L-related position is never triggered, hence not allowed. This overs most of the 'improper movement' phenomena discussed in the iterature.

In the previous sections, all checking operations took place in L-related positions. In this section, we have to focus on checking operations taking place in nonL-related positions. NonL-related checking operations differ in certain important respects from L-related checking operations, a crucial difference being the unboundedness of nonL-related XP-movement.

The unboundedness of nonL-related XP-movement has been discussed in section 5.2. I argued there that long distance wh-movement and long distance topicalization involves movement of a wh-element or topic (actually, a d-word) to the specifier position of the matrix clause in one step. This derivation violates the shortest steps requirement of economy of derivation. However, I have argued in section I.3.1 that the shortest steps requirement is a superfluous element in the Minimalist Program. Movement in one swoop does satisfy the fewest steps requirement of economy of representation (cf. Chomsky 1992:21).

I assumed that traces are interpreted by virtue of the existence of a chain linking the trace with its antecedent. The links of this chain must be local (cf. Koster 1987). If the links are not local, as happens in wh-

<sup>1</sup> The existence of 8-positions also derives directly from the presence of a verb and from the properties of the verb involved. Therefore, we can take the distinction between L-related positions and nonL-related positions to be basic, and divide the set of L-related positions into positions and nonL-related positions to be basic, and divide the set of L-related positions into positions.

island configurations, the interpretation of the construction will be less felicitous in various degrees. Crucially, however, the derivation will converge, because no economy principles are violated. This explains the marginal character of many wh-island violations.<sup>2</sup>

A felicitous interpretation is achieved when an intermediate empty element is generated that can serve as a link in the chain between the trace and its antecedent. The uniformity condition on chains requires that a wh-antecedent must be linked with its trace through an empty whelement. Likewise, long distance topicalization requires the presence of an intermediate deelement. These intermediate elements are introduced in the following way.

The derivation of a long distance wh-construction consists in a series of the generalized transformation, as always (see section I.2.1). The generalized transformations build up a structure by combining phrase markers: a head with a complement, creating a Projection, and a projection with a specifier, creating a Segment. Suppose the successive application of generalized transformations yields an AgrSP. At this point, a possible continuation would be to combine AgrSP with a nonL-related functional head, say Wh. Assuming Wh in the language under consideration to have strong N-features, a wh-element has to be generated in the specifier position of Wh in order to check and eliminate the Nfeatures. At this point, two options are available. Either the wh-element can be introduced in the specifier position of Wh by a singulary operation, the phrase marker in the specifier position of Wh by a singulary operation, the phrase marker in the specifier position of Wh by a singulary operation, the phrase marker in the specifier position of Wh by a singulary operation, the derivation will creash at the PF interface.

I have proposed that long distance wh-movement typically instantiates the second option. An empty wh-element is generated in the specifier position of the embedded Wh?. The lexical wh-element tucked away in AgrSP moves to the specifier position of the matrix Wh2 at a later stage of the derivation through a singulary operation. This movement is nonlocal, as argued above. The empty element in the specifier position of the embedded Wh2 then functions as an intermediate link in the chain, which is formed to combine the trace with its antecedent.

The other option, however, is also instantiated, namely in short distance wh-movement, but also in so-called partial wh-movement constructions (see McDaniel 1989). In these constructions, the lexical whelement appears in the specifier position of the embedded WhP. The <sup>2</sup> On the differences between 'strong' and 'weak' islands, and the status of extraction out of these islands, see Cinque (1390).

VERE MOVEMENT 279	AgrSP in the derivation of (2) is of a well known type. It is an empty element with person/number agreement features. The only element in the inventory of empty categories that carries these agreement features is <i>pro</i> . (2), then, can be excluded if the following generalization holds: (3) The intermediate empty element introduced by the operation	Form Chain can not be pro (3) can be derived if pro needs a 9-role. In that case, (2) would reduce to (4), a construction with two noun phrases, one of which of necessity lacks a 9-role: (4) • John seems he is likely to win	<ul> <li>That pro needs a 6-role is obvious from superraising constructions in prodrop languages. In these languages, the construction in (4) also presents a superraising violation. An example is given in (5a), derived from (5b):</li> <li>(5) a. *Gianni seembra de è intelligent "John seem that is intelligent "John seem that is intelligent b. [e sembra ( cientigente ]]]]</li> </ul>	In the structure (5b), only one 8-role is available: the subject 8-role assigned by the Small Clause predicate <i>intelligente</i> . Hence, a <i>pro</i> subject in the embedded clause is without a 8-role. This makes (5a) ungrammatical on a par with the English example (4). This suggests that (4) and (5a) are ungrammatical because they are uninterpretable, not because economy of derivation is violated. If the analysis of superraising presented here is correct, the <i>Form</i> <i>Chain</i> operation may be applicable in cases of L-related XP-movement out of nontensed clauses, as in (6) and (7):	<ul> <li>(6) John seems to be likely to win</li> <li>* I assume that pro in semi-prodrop constructions like (i) is not an expletive, and adopt Bennis' (1986) analysis of expletives as internal arguments of a raising verb (cf. section I.3.1).</li> <li>(1) data betype duidelik is data</li> <li>(2) data the close close that is a that</li> </ul>
278 DUTCE SYNTAX	specifier position of the matrix WhP is occupied by a quantificational wh- element, like German was (cf. Huybregts 1992): (1) Was glaubet du mit wem ich geredet habe German what believe you with whom I talked have "Who do you think I talked to?"	The derivation of this construction differs minimally from the derivation of a long distance wh-movement construction. In partial wh-movement constructions, when the embedded clause is expanded up to the Wh-level, the N-feature of Wh is checked with the lexical wh-element instead of with an empty wh-element. As a result, the N-feature of the matrix Wh can only be eliminated by inserting an additional wh-element, which	appears not to have been extracted from within the clause. <sup>3</sup> In short, the Form Chain approach consists of a combination of standard structure building procedures and long distance movement, in violation of the shortest steps requirement, but complying with the fewest steps requirement of economy derivation. This approach, however, does raise the question why L-related XP- movement never appears to violate the shortest steps requirement. In other words, why is raising to the specifier position of an Agreement	<ul> <li>I argue the uncounted.</li> <li>I argue in section [3,1 that the impossibility of unbounded L-related</li> <li>XP-movement (so-called superasising) follows from the feature checking</li> <li>requirements of economy of representation. Thus, (2) is excluded because John cannot check the features of both the embedded AgrS and the matrix AgrS:</li> <li>(2) * John seems is likely to win</li> <li>Successive raising is excluded for the same reason that excludes successive withmovement. If John movement, If Jo</li></ul>	embedded AgrS, its features will be checked there and then, and further movement of <i>John</i> is excluded. Hence, the N-features of the matrix AgrS will remain unchecked and the derivation will crash. The question arises, however, wby (2) cannot be salvaged by introducing an empty element in the specifier position of the embedded AgrS, followed by movement of <i>John</i> to the specifier position of the matrix AgrS in one swoop. This derivation must be excluded. I suggest the following solution to this problem. Notice that the embedded element required to appear in the specifier position of the embedded

<sup>3</sup> It is unclear to me why this additional wh-element has to be overt in German.

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(7) Gianni sembra essere intelligente John seems be-INF intelligent "John seems to be intelligent."

Italian

In these constructions, the empty element that is introduced during operation *Form Chain* lacks agreement features. Therefore, it cannot be *pro*, but must be a featureless empty element.

This, however, raises the question whether such an element really exists in (6) and (7). Recall that in operation *Form Chain* elements are introduced in the specifier of a functional projection in order to eliminate the N-feature of the head of that functional projection. Therefore, *Form Chain* is by definition unable to introduce featureless elements.

One could suggests that in this case, *Form Chain* introduces an empty element not for feature checking purposes, but to facilitate interpretation. The empty element thus introduced may serve as the link between the fronted lexical noun phrase and its trace. However, this would result in a non-uniform chain, with different features on the intermediate element and the head. Also, it is not clear that the locality condition on chain links forces the presence of an intermediate empty element in the subject position of a nonfinite embedded clause. One possibility is that raising constructions like the ones in (6) and (7) lack a CP (or: a CP level, i.e. TopP and WhP). If Chomsky and Lasnik (1991) are correct in assuming that only nonL-related heads turn their sisters into barriers, phrases that only nonL-related heads that the sisters into barriers, phrases that only nonL-related heads to constitute a barrier. As a result, *Join/Giann*i and its trace in (6)(7) are in one local domain, and interpretation of the fronted element can proceed without using intermediate empty elements.<sup>6</sup>

The hypothesis that embedded clauses in raising constructions lack the CP level is supported by the fact that the infinitival complementizer *om* is always absent in raising constructions in Dutch:

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d		scolar		nuažmanu	ofter an	tonna
	John	300ILS	COMP	intelligent	to be	
	"John se	ohn seems to be intelligent."	telligent.			
م	Jan	wordt geac	E F	om) intelligen	cent te zin	

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а Б

intelligent

John is considered COMP "John is considered to be intelligent." (9) contrasts with control constructions as in (9), in which the infinitival complementizer is optional (Koster 1987, Ch. 3; Rutten 1991): <sup>6</sup> As Marrel den Dikken points out to me, the distribution of floating quantifiers in ruising constructions indicates the presence of intermediate NP-truces on the analysis of Sportiche (1988, esp. fn. 17 on p. 436).

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(9) Jan probeert (οm) intelligent te zijn John tries COMP intelligent to be "John tries to be intelligent." The contrast between (8) and (9) suggests that raising complements are not CPs. If so, they lack a nonL-related functional head, and, on Chomsky and Lasnik's (1991) proposals, do not contain a barrier. As a result, long distance raising in these cases will still be local, and the insertion of an intermediate element is not required by conditions on chain links.

If this is correct, *Form Chain* never applies to nonL-related XPmovement. If raising takes place out of a finite clause, the intermediate element must be *pro* and needs an independent 8-role. If raising takes place out of a nonfinite clause, the embedded clause does not constitute a local domain for chain formation.

## 5.3.2 NonL-Related Verb Movement

As is illustrated in section II.1.3, the verb always follows the first constituent in topicalizations and wh-constructions in Dutch. In previous analyses, this was described as verb movement to C. In the split CP analysis advanced here, we must assume that the verb moves to Wh (in wh-constructions) or Top (in topicalizations).

The question arises how this obligatory verb movement to Wh/Top can be accounted for in minimalist terms. An equally important question is whether the absence of verb movement in the same type of constructions in, for instance, English and French can be accounted for in the same terms.

The easiest way to describe the verb movement to Wh/Top in Dutch would be to assume that a strong V-feature is represented in Wh and Top which must be eliminated by checking it with the corresponding features of the verb. The difference between Dutch on the one hand and English and French on the other hand could then be accounted for by assuming that in English and French the relevant V-feature is weak.

However, since we have defined Wh and Top as nonL-related, this option is excluded. Being nonL-related, Wh and Top by definition do not represent features of the verb. Also, the verb in Dutch does not show any features that could be related to a particular instantiation of Wh or Top. In other words, it is not clear that the verb and Wh/Top are related at all.  $^{6}$  In connection with this, note that verbless questions can be generated productively, as in Why me?.

A second way in which we could attempt to explain the obligatory verb movement in wh-constructions and topicalizations in Dutch would be to resort to the concept of conditional N-feature checking. This concept was introduced in section I.3.2, and put to use in section 4.3 in order to explain the verb movement asymmetry in Dutch.

I argued that AgrS in Dutch is [-accessible]. As a result, the N-features of AgrS cannot be present on the AgrSP Projection, so that N-feature caecking under sisterhood cannot proceed. I also argued that the faccessibility] of AgrS in Dutch reduces to an ordering condition on Nfeature checking, to the extent that the V-features of AgrS must be removed before the N-feature of AgrS can be passed on to the AgrSP Projection. AgrS-to-C movement and verb movement to AgrS both serve to remove the V-feature from the AgrS position.

We could assume now that in Dutch, the N-features of Wh and Top likewise can only be checked if Wh and Top are made [+accessible] first. We might conjecture that this conditional N-feature checking is a defining characteristic of Dutch syntax, distinguishing it from the syntax of English and French.

However, this 'generalized conditional N-feature checking' approach to verb movement to C can only work if there are V-features represented in C. In the case of subject initial main clauses, movement of the verb to AgrS does not violate Greed, since the verb, in moving to AgrS, eliminates the (weak) V-feature of AgrS. Thus, the operation merely violates Procrastination, which is allowed. But in the case of topicalization or whmovement, movement of the verb to C in order to meet the condition on N-feature checking would not involve elimination of a V-features, ince no V-features are represented in Wh or Top. Hence, verb movement to C would violate Greed, which is not allowed.

As a first step in solving this problem, I suggest that the definition of accessibility (38) in section 4.4, repeated as (10) be understood as in (11):

(10)  $\alpha$  is [+accessible] if (and only if) the V-features of  $\alpha$  have been removed

(1.1)  $\psi$  is a feature of  $\alpha$  if (i)  $\psi$  is present on  $\beta$ , and (ii)  $\alpha$  does not exclude  $\beta$ 

Adjunction of a head  $\beta$  to a head  $\alpha$  results in a representation in which  $\alpha$  does not exclude  $\beta$ :

(12) × ×

According to (11), the V-feature of  $\beta$  in (12) is also a V-feature of  $\alpha.$  Consequently if a functional head  $\beta$  containing a V-feature adjoins to a

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functional head  $\alpha$  without a V-feature, the V-feature of  $\beta$  will count as a V-feature of  $\alpha$  for the definition of accessibility in (10).

Consider now the consequence of AgrS-to-C movement (where C may be Top or Wh). Since C lacks a V-feature, C is [+accessible] by definition. However, as a result of AgrS-to-C movement, C acquires a V-feature. Under the relevant parameter setting, it follows from (10) that this Vfeature that C has acquired must be removed before the N-feature of C can be checked. As argued in section 4.3, adjunction of the verb to AgrS in C eliminates the V-feature of AgrS. This verb movement, then, removes the V-feature of C, so that the N-feature of C can be passed on to the CP Projection and N-feature checking under sisterhood can proceed.

Thus, the obligatory verb movement character in topicalizations and wh-movement constructions in Dutch follows from the independently established AgrS-to-C movement, in conjunction with the mechanisms and definitions that have been proposed in connection with conditional Nfeature checking.

This analysis generates one problem which I have not been able to solve in a satisfactory way. Recall that AgrS-to-C movement takes place not only in inversion constructions, but in embedded clauses containing a lexical complementizer as well.<sup>8</sup> As a result, the V-feature of AgrS becomes a V-feature of C in embedded clauses. The definition of accessibility in (10) now requires that this V-feature be eliminated as a condition for checking off the N-features of C. This leads to the prediction that the verb in embedded clauses in Dutch adjoins to the complementizer, contrary to fact: <sup>7</sup> If this analysis is correct, the obligatory verb movement to Wh in wh-constructions in Explicit suggests that there is independent functional head movement to Wh. in Explicit as well(cf. Stowell 1981: chapter 1, Pesetsky 1982:2775(456). If Wh is specified as [-accessible] in English, verb movement is needed to activate the N-feature of Wh. and is allowed because is checks the V-feature of the functional head that has moved to Wh. The absence of verb movement to Top in topicalizations in Explish avoid the the accounted for by assuming that the checks the V-feature of the functional head that has moved to Wh. The absence of verb movement to Top in topicalizations in Explish avoid the the accounted for by assuming that the checking in TopP possible. Topicalization and Wh-movement is record to make N-feature decking in TopP possible. Topicalization and Wh-movement is record to make N-feature thereints (N D-M L and N D, respectively. I assume that Franch Complex Involve overt verb movement to Top and Wh, respectively. I assume that Franch Complex Involve overt verb movement to Top Wh is accounted for I peparation's finatecasesible], or, alternatively, if no independent functional head (f. Do Wind (in preparation) for discussion). The absence of verb movement to Top Wh is accounted for if Top and Wh are specified as placesesible], or, alternatively, if no independent functional head for if Top and Wh are specified as placesesible, or, alternatively, if no independent functional head for if the absence to TopWh takes placeses that the arbit function function.

 $^{\circ}$  I assume here that embedded interregatives in Dutch (presumably universally) contain a lexical complementizer, even when the relevant complementizer (of) is not overly present at the PF interface.

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(13) \* Ik denk komt-dat Jan vandaag I think comes that John today "I think that John comes today." A way out would be to propose that functional heads containing a lexical morpheme (such as a complementizer) are [+accessible] by definition.<sup>2</sup> I will leave it to further research to investigate whether there is any substance to this proposal.

5.3.3 Embedded Verb Second Configurations

## a. Embedded Verb Movement in Dutch

A final question that has to be addressed concerns the status of embedded verb second configurations in Dutch (cf. section II.1.2.1). Recall from section 5.1.2.c that topics in Dutch are not allowed to precede the complementizer:

(14) Piet zei dat boek dat hij gelezen had Peto said that book that he read had "Peto said that he had read TEAT BOOK." This we explained by assuming that topics are base generated in a position adjoined to TopP. The ungrammaticality of (14) then follows if we assume that embedded TopPs are arguments, and that adjunction to arguments is excluded (following Chomsky 1986b).

We also noted that embedded topicalization to the right of the complementizer is possible, yielding a construction which is frequently used in spoken Dutch, but would be judged as an anacolouthon in written Dutch:

(15) Piet zei dat dat boek had hij gelezen Peto said that that book had he read "Pete said that that book, he had read." Spoken Dutch also has embedded subject initial verb second constructions, having the same status as embedded topicalizations of the type in (15):

(16) Piet zei dat hij kende dat book miet Pete suid that he knew that book not "Pete suid that he didn't know that book." <sup>9</sup> One way to ensure this result would be to say that the definition in (10) applies to *cmpty* functional heads only.

I conjectured that in these embedded verb movement constructions, AgrSto-C movement could not reach the position occupied by the complementizer dat (now identified as Top). This would have the effect that the clause following dat counts an independent main clause, showing verb movement to AgrS (16) and embedded topicalization (15).<sup>10</sup>

In this section I will consider the distribution and analysis of these embedded verb movement constructions in Dutch in more detail. First I will study the distribution of embedded verb movement constructions. It turns out that they occur in exactly those contexts in which English. Frisian, and Mainland Scandinavian allow embedded root phenomena (Hooper and Thompson 1973, De Haan and Weerman 1986, Vikner 1991a, Intridou and Kroch 1992). After that I will sketch a minimalist account of the phenomenon, based on the proposals made for verb movement in the above.

# b. The Distribution of Embedded Verb Movement

Embedded verb movement in Frisian and Mainland Scandinavian has certain well known properties, which distinguish it from embedded verb movement in Icelandic and Yiddish. These properties can be listed as follows:

- In subject initial embedded verb movement constructions, the subject cannot be a clitic (De Haan and Weerman 1986:85):
- (17) a. Pyr sei dat hyler my sjoen hie Frisinn Pete suid that heSCL me seen had "Pete suid that he saw me."
   b. Pyt sei dat hyler hie my sjoen Pete suid that heSCL had me seen "Pete suid that he saw me."
- Embedded verb movement is excluded in the complement of 'negative' verbs like *regret, doubt,* and negated verbs (De Haan and Weerman 1986, Iatridou and Kroch 1992 and references cited there; cf. Hooper and Thompson 1973):

<sup>10</sup> Embedded wh-constructions in the complement of dat are impossible. This follows if embedded wh-clauses must be selected. In minimalist terms, a wh-clause in the complement of Top would not receive the required interpretation.

VERB MOVEMENT	In Yiddish and Icelandic, embedded verb movement is generally possible in the contexts listed above. This shows that there are two types of embedded verb movement phenomena (Yikmer 1991a). <sup>34</sup> I will leave the Yiddish-Icelandic type out of the discussion (see Diesing 1990, Santorini 1989, Røgnvaldsson and Thráinsson 1990, Vikner 1991a, Thráinsson 1992, Te Velde 1993). Dutch is generally reported to lack the embedded verb movement construction of the Frisian-Mainland Scandinavian type. However, the colloquial Dutch enabedded verb movement construction illustrated in (15- 16) has exactly the same distribution as the standard Frisian-Mainland Scandinavian embedded verb movement construction:	<ol> <li>No subject cliftics:</li> <li>Jan zei dat hij kende dat boek niet Coll.Dutch John said that he know that book not "John said that know that book"</li> <li>Jan zei dat io kende dat book niet John said that SCL knew that book not</li> </ol>	<ol> <li>Not with inherently negative verbs and negated verbs:</li> <li>Jan betreurde/betwijfelde/dacht niet dat hij dat book kende John regretted/doubted/thought not that he that book knew "John regretted/doubted/thought not think that he that book."</li> <li>Jan betreurde/betwijfelde/dacht niet dat hij kende dat book b. Jan betreurde/betwijfelde/dacht niet dat hij kende dat book c. Jan betreurde/betwijfelde/dacht niet dat hook knew hav book John regretted/doubted/thought not that he beev ktat book c. Jan betreurde/betwijfelde/dacht niet dat dat book kende hij John regretted/doubted/thought not that that book kende hij</li> </ol>	<ol> <li>Not in irrealis complements:</li> <li>Jan had willen zeggen dat bij dat boek kende John had wallen zeggen dat bij dat boek kende "John would have said that he kew that book knew "John had willen zeggen dat bij kende dat boek John had want say that he kende hij c. Jan had want say that he kende hij John had want say that that book knew he</li> </ol>	<sup>12</sup> The claim that feelandic allows wh <del>ea</del> ctraction out of embedded topicalitations appears to be too strong (cf. Vitaner 1991a, section 2.3.2.7, and latridou and Kroch 1992.10). See also Thráinsson 1992 for some modifications of the observation that feelandic has generalized embedded typicalization

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(18)

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Pyt botreurethetwivelet/lean net dat hy mie sjoen hie Pete regretsdoubtschoen not that he me seen had Pete regretsdoubtschoes not believe that he saw me." • Pyt betreuretbetwivelet/lean net dat hy hie mis sjoen Pete regretsdoubtsvbelieves not that he had me seen

à

3. Embedded verb movement is excluded in irrealis complements (De Haan and Weerman 1986:84):

Pyt woo suze
Pete wanted say that he me 
"Pete wanted to say that ho saw me."
" Pyt woe sizze dat hy hie mie sjoen
Pete wanted say that he had me seen а. (61)

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Embedded verb movement is excluded in adjunct clauses (Iatridou and Kroch 1992, citing De Haan, p.c.): 4

Ik sil fuortgean, at jo dizze film net sjen wolle I will leave if you this movie not see want T will leave if you don't want to see this movie." I kail knortgean, at jo wolle dizze film net sjen I will leave ġ, ತ () 8

Embedded verb movement is excluded in sentential subjects (Iatridou and Kroch 1992, citing De Haan, p.c.): ல்

Dat jo dizzefilm net sjenwolle is ferfelend that you this movie not see want is annoying "That you don't want to see this movie is annoying." That \* Dat jo wolle dizzefilm net sjen is ferfelend that you want this movie not see is annoying à, ę (31)

Embedded verb movement constructions are islands for extraction (De Haan and Weerman 1986:87, Vikner 1991a):<sup>11</sup> <u>ن</u>

Evilken film sngde hun at Peter allerede havde sef? Danish which movie suid she that Pete already had seen "Which movie did she say Pete had already seen?" \* Hvilken film saf she un at Peter havde allerede set? which movie said she that Pete had already seen 4 ò, ଞ୍ଚି

<sup>11</sup> Recall that in Mainland Scandinavian languages like Danish, the embedded clause word order has the finite verb following sentence adverbials. In subject initial main clauses, the finite verb precedes sentence adverbials, and in topicalizations the verb appears in the second constituent position.

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of the CP system has Wh-features, and the second layer has topic features. One of the properties of recursive CP constructions appears to be that only featureless CPs may iterate (latridou and Kroch 1992). Recursive WhPs are not found in Frisian, Mainland Scandinavian, or
Dutch. Thus, CP-recursion (if it exists) takes place at the TopP level only. Iatridou and Kroch (1992) demonstrate that only those TopPs (CPs in their terminology) can iterate which lack features. Assuming that complement clauses of negative on negative or negative verse contain certain features complement clauses of measive on the action of the motive verse the TomPe of
that satisfy the selectional requirements of the matrix very, the loprs of these complement clauses are not featureless and hence cannot iterate. The same goes for irrealis complements. <sup>14</sup> Let us assume that this generalization is correct. It follows that WhPs cannot iterate, because they are inherently contentful. Let us take one further step, and assume that TooP can iterate if and only if Top is also featureless. In minimalist terms, this means that Top has neither an N-
feature nor a V-feature. If the Top of the recursive TopP lacks an N-feature, we predict that long distance topicalization is impossible out of recursive TopP clauses. Recall that long distance topicalization involves insertion of an empty element in the specifier position of TopP, in order to eliminate the N-feature of Top. This empty element later on functions as the intermediate trace in the chain linking the topic (better the d-word) to its trace. In the absence of an N-feature, this intermediate element cannot be introduced. Consequently, long distance topicalization out of recursive TopP constructions should be bad. This prediction is borne out:
<ul> <li>(29) a. Die film zei Piet dat hij op video gezien had that that film said Pete that he on video seen had "That film Pete suid that he had seen on video."</li> <li>b. Die film zei Piet dat op video had hij gezien that film suid Pete that on video had ho seen</li> </ul>
Thus, the assumption that the head of a recursive TopP has no features has favorable consequences. Secondly, we predict that verb movement to a featureless Top is never triggered. This follows from our assumption that verb movement to Top
<sup>14</sup> Intridon and Kroch (1992) suggest that iterating CPs must be semantically empty because the top CP is deleted at LF. One might argue that CPs that allow recursion are also subject to selection restrictions and heace are not semantically empty. Intridou and Kroch propose that in that case, one culd state that CP recursion is only possible when the context of the top CP is recoverable from the features of the second CP.

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### 4. Not in adjunct clauses:

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bebt bave je je
ijn 1 ache 1 ache 1 ache 1 ache 1 ache 1 ach 1 ave 1 ave
en helpt niet als je maagpijn hebt e heips not if you stomach ache have ag doesn't help if you have a stomach ache." en belpt niet als je hebt maagpijn en helpt niet als maagpijn heb je en helpt niet als maagpijn heb je g helps not if stomach ache have you
je you je maa
ដឹមអ៊ីដឹមដឹម
niet not elp if yo niet not not
helpt helps doesn't h helpt helpt helpt helps
Wrijven rubbing "Rubbing o Wrijven rubbing Wrijven rubbing
* *
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(36)

## 5. Not in sentential subjects:

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- Dat Jan dat boek kent is verrassend that John that book knows is surprising "That John knows that book is surprising bat John knows that book is verrassend that John knows that book is surprising that that book kent Jan is verrassend that that book knows John is surprising 'n,
  - ψ

#### 6. No extraction:<sup>13</sup>

- (28) a.
- a. Welke film zei je dat Jan al gezien had? which movie said you that John already seen had "Which movie did you say John saw"
  b. Welke film zei je dat Jan had al gezien?
  b. Welke film zei je dat op video had Jan gezien? Which movie said you that on video had John seen
  c. Weike movie said you that on video had John seen

movement construction has exactly the same properties as the embedded verb movement construction in standard Frisian and Mainland Scandinavian. This indicates that the colloquial construction in (15-16) is not a mere idiosyncrasy of sloppy speech, but an instantiation of a wide-spread phenomenon of Germanic syntax, which, for some reason, was not admitted in the standard register of Dutch. It thus appears to be the case that the Colloquial Dutch embedded verb

# c. The Syntax of Embedded Verb Movement

The split CP hypothesis argued for in this book might seem to provide a suitable framework for analyzing recursive CP constructions. However, this is only apparently the case. In the split CP hypothesis, the top layer

<sup>13</sup> Note that long distance whomovement of arguments out of embedded verb second constructions is much worse than similar movement out of wh-islands, suggesting that in such cases a sentence boundary is crossed.

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successful. We may now assume that in the absence of the duplicate feature, AgrS-to-Top cannot take place. <sup>16</sup> The absence of AgrS-to-Top movement in embedded subject initial verb second constructions is obvious from the fact that complementizer agreement is impossible in these constructions (facts repeated from section 4.1.2.a):	0 <u>0</u> 22
<ul> <li>(31) a. Heit sei datst do soks net leauwe moast Frisian dad suid thar-2SC you such not believe must-2SG "Dad suid that you should not believe such tings."</li> <li>b. Heit sei dat"datst do moast soks net leauwe dad suid that/batst do must-2SG such not believe "Dad suid that you should not believe such things."</li> </ul>	a
As a result of the absence of AgrS-to-Top movement, overt verb movement to AgrS is necessary in order to make the N-feature of AgrS accessible for feature checking. Likewise, when the featureless Top has a TopP as its complement, the head of this second TopP becomes the target of AgrS-to-Top movement, followed by verb movement to Top, in order to make h. M-forth of TomP accessible	-0 10 a 2 0
The hypothesis that Top in embedded verb movement constructions is radically featureless therefore explains both the distribution of embedded verb movement, on the analysis of latridou and Kroch (1992), and the restrictions on functional head movement in these constructions. These restrictions have the effect that embedded verb movement cannot take place in the complement of WhPs, and at the same time make embedded verb movement in the complement of the featureless Top necessary, in agreement with the analysis of verb movement proposed above.	ର ଜ ଜ ଜ ଜ ଜ ଜ
5.4 Conclusion	
In this section I have argued that subject placement, topicalization, and wh-movement involve three different functional projections: AgrSP, TopP, and WhP. All these projections are head initial, supporting the general claim of this chapter. I have argued that the N-features of AgrS, Top, and Wh are strong in Dutch. I have also argued that these N-features can only be checked after the V-features of the respective functional heads have been removed. This explains the curious circumstance that verb movement to the functional explains the curious	មុស្ត ក្រុងនាគ
<sup>16</sup> Recuil that I assumed that dialects without overt complementizer agreement, such as Standard Dutch, have an unmarked (Zagr] duplicate feature in C, which is nondistinct from the features of AgrS by definition.	36

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takes place only in order to make checking of the N-feature of Top possible. But since Top in embedded verb second constructions lacks features, the need to check N-features will never occur.

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The hypothesis that Top in embedded verb second configurations is radically featureless also explains the verb movement in the embedded clause of these constructions.

First we have to make it clear that the discussion of CP-recursion is generally cast in the wrong terms. As (16) and many other examples in this section bear out, not all embedded verb movement constructions involve the CP-level. In particular, the b-examples in (24)-(28) display subject initial verb second clauses in the complement of the complementizer dat. There is no indication that these clauses are expanded beyond the AgrSP level. To our ear, colloquial Dutch subject initial embedded verb second clauses can have a weak pronoun as the subject.<sup>16</sup>

Coll.Dutch				
a zei dat het regent pijpestelen n said that it rains pipostems	i dogs."	ıaar één keer	ut one time	
regent rains	g cats and	leeft n	Live b	rce."
het it	rainin	<u>.</u>	you	live on
dat that	t it is	dat	that	t only
zei said	said the	zei	said	said yor
Jan John	"John	Чац	John	"John
તં		ه.		
(30)				

Since weak pronouns cannot appear in the specificr position of TopP, the sister of the complementizer dac in (30) must be an AgrSP.

sister of the complementizer dat in (30) must be an AgrSP. Thus, not all embedded verb second constructions involve recursion. What seems to be the correct generalization is that in embedded verb second constructions (70p does not participate in whatever syntactic operations link it to its complement. As a result, the complement of Top may be a neutral subject initial dause, as in (30) and the b-examples of (24)-(28), or a topicalization construction, as in the c-examples of (24)-(28).

(24)-(28), or a topicalization construction, as in the c-examples of (24)-(28). If Top does not participate in syntactic operations linking it with its complement, AgrS-to-Top cannot take place either. This can also be made to follow from the assumption that Top is radically featureless, if we follow up on the analysis of AgrS-to-O developed in section 3.3.3. There, I proposed that C ontains a *diplicate* feature which must be non-distinct from the agreement feature of AgrS for AgrS-to-C movement to be <sup>48</sup> Unless the weak subject pronoun is 3SG masculine is, which is always enclific (see note 27 in section II.1.5). The weak pronouns in (30) cannot be pronounced as enclific on the complementizer dat.

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heads in main clauses in Dutch is overt, even though the absence of verb movement in embedded clauses suggests that the relevant V-features are weak.

The analysis entails that verb movement in main clauses in Dutch targets different functional heads in each type of construction. However, the mechanism explaining the verb movement is by and large the same in each case.

## 6 Summary and Conclusions

In this chapter I have argued that the following hypothesis is correct:

The functional projections in Dutch are head initial

The evidence supporting this hypothesis is the following:

- Clitics in Dutch occupy functional head positions to the left of the VP.
- 2. Complementizer agreement phenomena in Dutch dialects indicate that Dutch dialects have an independent AgrS position; the verbal morphology in double agreement dialects shows that the verb is not in C in subject initial main clauses; hence, the functional projection hosting the verb in subject initial main clauses must be head initial.
  - It follows from a restricted theory of feature checking that the subject can only be licensed in the specifier position of AgrS; hence, the verb must be in AgrS in subject initial main clauses in Dutch, and AgrS must be head initial.
    - Verb second phenomena in inversion constructions involve verb movement to Wh or Top; hence, WhP and TopP in Dutch must be head initial.

I also argued that evidence in support of functional positions to the right of VP in Dutch is nonexistent.

In the course of this chapter an analysis of verb movement in Dutch has evolved. This analysis is based on a minimalist theory of feature checking, which incorporates the following generalization:

Licensing relations are sisterhood relations

Accepting this generalization, N-feature checking must be a matching operation between an XP in the specifier position of a functional head  $\alpha$ and the Projection of  $\alpha$ . I argued that in Dutch the Projection of  $\alpha$  has access to the N-features of  $\alpha$  if and only if the V-features of  $\alpha$  have been removed first. Thus, the *and only if* extension of the definition of accessibility applies to Dutch:

 $\alpha$  is [+accessible] if (and only if) the V-features of  $\alpha$  have been removed

It follows from economy of representation that movement of a functional head  $\alpha$  to  $\beta$  removes the V-feature of  $\alpha$  from the original position of  $\beta$ . Similarly, verb movement to  $\alpha$  removes the V-feature of  $\alpha$  through feature electing. Hence, movement of  $\alpha$  and adjunction to  $\alpha$  both have the effect that the V-features of  $\alpha$  are removed. This explains the observation that AgrS-to-movement and verb movement to AgrS in Dutch both serve as a precondition for checking the N-features of AgrS.

This analysis can be extended to verb movement to Top and Wh. Top and Wh lack V-features, but acquire a V-feature as a result of AgrS-to-C movement (where C = Top, Wh). Assuming the N-features of Top and Wh to be strong in Dutch, the accessibility parameter again requires that the V-features of Top and Wh are eliminated before the N-features can be checked. Verb movement to C is the only available option to accomplish this. This movement does not violate Greed, since the AgrS-to-C movement makes the V-feature of AgrS end up in C, by economy of representation.

The absence of overt verb movement to AgrS in embedded clauses follows from economy of derivation, on the assumption that the V-feature of AgrS is weak. At the same time, this assumption makes verb movement to AgrS as a last resort possible, in violation of Procrastination. Embedded verb movement to AgrS in colloquial Dutch is explained if in these verb movement to AgrS in colloquial Dutch is explained if in these verb movement to Top and Wh in embedded clauses follows from the assumption that functional heads containing a lexical element (in this case, a complementizer) are always (+accessible).

case, a complementizer) are always [+accessible]. This analysis, then, remains well within the narrow range of possibilities allowed in the minimalist approach. In fact, it crucially relies possibilities allowed in the minimalist approach, discussed in section 1.3, which were introduced independently, for no other purpose than to make the minimalist approach even more restrictive.

In the next chapter, the consequences of one of these minimalist extensions, the absence of a directionality parameter, will be tested in the domain of the syntax of the lexical projections in Dutch.

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### DUTCH AS AN SVO LANGUAGE: THE POSITION OF THE LEXICAL HEADS

# 1 The Functional Domain and the Lexical Domain

In the previous chapter, discussion of the phenomena of Dutch syntax has been limited to the domain of the functional categories. An important result of this discussion has been that all functional projections in Dutch are head initial.

In most generative analyses of Dutch syntax, it is assumed either that Dutch has a very limited set of functional projections, or that in Dutch the functional projections other than C are located to the right of the VP. Neither assumption appears to be supported when the phenomena of Dutch syntax are analyzed from a minimalist perspective (or from any other perspective).

other perspective). As far as the lexical domain is concerned, we have seen in chapter II has far as the lexical domain is concerned, we have seen in chapter II that it is generally accepted, both in traditional (cf. Scagione 1981) and in generative grammar (Koster 1975), that the VP in Dutch and German is head final. Many researchers who did accept the existence of a separate instr. in Dutch and German mostly bacitly assumed that there exists a typological connection between the head final status of the VP and the head final status of the IP

As I argued above, this connection was based on the incorrect assumption that inflected verbs always have to move to INFT overtly. Since the inflected verb appears in sentence final position in Dutch (or, more correctly, in a position to the right of the noun phrase object), it was concluded that IP in Dutch must be head final.

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In the minimalist approach, the principle of Procrastination dictates that in the default case (i.e. when no strong V-features are present in the functional heads), the verb should stay in its basic position. In accordance with this, I assumed that Dutch AgrS (hvr.) has a weak V-feature, which in principle precludes overt verb movement. Consequently, the verb can be assumed to occupy its basic position inside VP in embedded clauses. In mic clauses, other considerations force overt verb movement, in spite of the absence of strong V-features in Dutch (see section III.4 and III.5). Inasmuch as this analysis is supported, the head initial status of the functional projections in Dutch is supported.

As a result, the typological connection between the status of the lexical projections and the status of the functional projections appears to break down in Dutch. I will assume, however, that this connection is real. Consequently, if the functional projections in Dutch are so clearly head initial, the lexical projections in Dutch must be head initial as well.

Obviously, this does not imply that the results of Koster (1975) are incorrect (see II.2.1). Koster's arguments support the hypothesis that in Dutch the word order of the embedded clause is more basic than the word order of the main clause. This result stands in the minimalist approach here, since I have assumed that the verb is in V in embedded clauses, and in AgrS or higher in main clauses.

However, I do wish to contend that the embedded clause word order (object-verb) does not reflect the most basic order of elements in the Dutch VP.

Two considerations immediately cast doubt on the standard analysis of Dutch as an SOV language (cf. sections II.3.4-5). First, there are indications that the position of the noun phrase object

First, there are indications that the position of the noun phrase object in embedded clauses in Dutch is a derived position. Recall that the direct object may be separated from the verb by sentence adverbs:

(1) ...dat Jan Marie waarschijalijk gekust heeft that John Mary probably kissed has "..that John probably kissed Mary." Assuming that the first step in building up the VP consists in combining the verb with its direct object, non-adjacency of the object and the verbcan only arise as a result of movement. Let us exclude the possibility that the verbs in (1) have been moved to the right, accepting the results of chapter III. Therefore, the direct object *Marie* must have been moved to the left. The minimalist approach dictates that this movement has a trigger and a designated target. The target must be a position in the functional domain, and the trigger must be an N-feature represented there, which must be eliminated in overt syntax. If so, the movement cannot be optional. Consequently, even if the adverb *waarschijnlijk* 

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Probably in (1) is absent and the object and the verb are adjacent, we must assume that the object is in a derived position. If the object is always in a derived position, the fact that it invariably appears to the left of the verb in embedded clauses merely indicates that the licensing position of the object is to the left of the position of the verb in embedded clauses. Crucially, nothing can be concluded regarding the *basic* position of the direct object inside the VP. In other words, because of the scrambing phenomenon illustrated in (1), the position of the direct object is of no use if we wish to determine whether the Dutch VP is head final or head initial.

Second, recall that embedded clauses in Dutch invariably appear to the right of the verb:

(2) ....dat Fiet denkt dat Jan Marie gekust heeft that Fiet thinks that John Mary kissed has "..that Fete thinks that John kissed Mary." As mentioned in section  $\Pi.3.5$ , these embedded clauses are transparent for wh-extraction:

(3) Wie zei je dut Piet dacht dat Jan gekust had? who said you that Pete thought that John kissed had "Who did you say Pete thought that John kissed t?" Since extraposed clauses are islands for extraction (see section II.3.5), the embedded clause in (2) cannot have been extraposed. Hence it must be in its basic position. Consequently, the Dutch VP is head minal when it contains a clausal argument. Assuming a uniform process of structure building, we are led to suppose that noun phrase objects are also generated in a position to the immediate right of the verb. Together, these considerations provide *prima facie* evidence in support

Together, these considerations provide *prima facie* evidence in support of the hypothesis that Dutch is an SVO language. However, neither of them can be used as conclusive evidence. The argument based on scrambling is by definition inconclusive: it merely serves to shake the conviction that Dutch is an SOV language. The argument based on the position of clausal arguments is also unreliable: it may be the case that the verb(s) in (2) is/are in a derived position as well, having undergone just a short verh movement to the left. In that case, we are still not in a position to draw conclusions as to the basic order of elements in the VP in Dutch. <sup>1</sup> This conclusion also follows from Pesetsky's (1382) proposal to derive categorial selection from semantic selection (cf. Chomsky 1386s), and from Baker's (1388) hypothesis of uniform 0-role assignment.

In the remainder of this chapter I will present more conclusive argumentation in support of the hypothesis that Dutch is an SVO language. To a certain extent, the material presented will also serve a more modest goal, namely to demonstrate that potential arguments in support of the traditional analysis cannot be accepted as such. These sections are nevertheless included, in order to create a proper understanding of the phenomena involved.

In section 2, the syntax of the VP is discussed. This section contains subsections on scrambling, on the distribution of Small Clause predicates, and on verb raising and extraposition. The first two subsections demonstrate that the fact that the verb in embedded clauses in Dutch invariably appears to the right of noun phrase objects and Small Clause predicates cannot be regarded as evidence for a head final structure of the VP in Dutch. I will argue that noun phrase objects and Small Clause predicates in overt syntax occupy designated licensing positions in the functional domain. The third section shows that the analysis of verb raising phenomena is much simplified if the VO-bypothesis is adopted. In section 3, the structure of NP, AP, and PP is briefly discussed. I will

argue that the overt syntax of the NP and AP does not allow us to draw conclusions as to the basic structure of these phrases, whereas the syntax of PPs can be described in a simple and elegant way on the assumption that the PP in Dutch is head initial. If my attempts fall short of actually proving that Dutch is an SVO in remove of theme short of actually proving that butch is an SVO

If my attempts fall short of actually proving that Dutch is an SVO language. I hope that typological considerations will tip the scale in favor of the SVO hypothesis, on the assumption that the head initial character of the functional domain is also reflected in the structure of the lexical domain. These typological considerations are supported at the conceptual level by the extension of the minimalist program discussed in section I.3.3, according to which directionality parameters cannot exist, and by the hypothesis of Kayne (1993), according to which structural hierarchy is universally mapped into linear precedence (see section I.3.3).

## 2 The Structure of the VP

#### 2.1 Introduction

Much of the structure of the VP, in any language, is determined by the properties of the structure building process of Generalized Transformations (section I.2.1).

Let us assume that this process operates in a minimalist way, in the sense that it involves the smallest possible number of phrase markers in each step of the process.<sup>2</sup> In other words, let us assume that a generalized transformation cannot combine more than two phrase markers at the same time. It follows that syntactic tree structures are always binary branching (cf. Kayne 1984).<sup>3</sup>

A second assumption I will make here, is that a head must be combined with its complement *locally*. In other words, the first generalized transformation affecting the verb should combine the verb with its internal argument. I will assume that this condition follows from the principle of Full Interpretation (thus, a string in which the verb, or its trace, and the internal argument of the verb, or its trace, are not adjacent, does not yield the desired interpretation). This again follows from the hypothesis that syntactic licensing relations are universally sisterhood relations (I.3.2).

It follows from these two assumptions that a verb has at most one complement, and that the verb and its complement must be adjacent in the initial stage of the structure building process. The hypothesis that heads have but a single complement is advanced and extensively supported in E.Hoekstra (1991), later also in Mulder (1992).<sup>6</sup>

T.Koekstra (1990) and Mulder (1992) in addition advance the important insight that the notion 'complement' should not be thought of as an element which is *thematically* linked to a head. Instead, Mulder argues, the complement of a verb should be thought of as a constituent affecting the *aspectual* interpretation of the action referred to by the verb. I refer to the works mentioned for argumentation of this point. One of its consequences, however, is important for the discussion of the structure of the VP.

As is well known since Jespersen (1933), and might have been well known since Roorda (1864), the verb *found* in (1) has a clausal internal argument *the cage empty* rather than a noun phrase internal argument  $^3$  Kayne (1993) derives this property of the structure building process from his Linear Correspondence Axiom (cf. section I.3.3).

<sup>2</sup> Cf. Chomaky 1992:33.

<sup>4</sup> This condition excludes long distance 0-role assignment of the type needed in an analysis of scrambling in which internal arguments are base-generated in their overtayntax position (N. Releman 1390), Fanselow 1993).

<sup>4</sup> Somewhat confusingly, the term single complement hypothesis was introduced in Larson (1988a). As Mulder (1992:61 note 9) perceptively remarks, Larson's hypothesis differs from the one entorthined here in that Larson allows a very the have two complements, the second of which, it can only license after verb movement. The single comploment hypothesis I have in mind allows a verb have so more than one complement.

cage. This is because what is found is not a cage, but the situation that the cage is empty. t he

#### John found the cage empty Ð

analyzed as a Small Clause, with *the cage* as subject and *empty* as predicate (Kayne 1984, Stowell 1983, T.Hoekstra 1984, many others). This In generative grammar, the constituent the cage empty in (1) has been

analysis is in agreement with the single complement hypothesis. As work by Kayne, Stowell, and T.Koekstra, among others, has demonstrated, many more Small Clause constructions can be identified, some of which are less obvious than the type in (1). Some examples are resultative constructions (Hoekstra 1988)(2), particle constructions (Kayne 1984:X, Den Dikken 1992a)(3), double object constructions (Kayne 1984:134)(4), and constructions involving locational and positional verbs (Hoekstra and Mulder 1990)(5).

de deur rood the door rod zijn bord ann stukken his plate to pieces verft paints gooit throws Jan John Jan ri,

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- paints the door off mishes painting the door." de deur af het boek verft Jan John Lohn John ei, ക 6
- Marie een boek down the book geeft legt ಕ Ŧ
- Mary a book het boek ann Marie the book to Mary ti oo ti gives Cives Jan John John م
- een paard in de gang a horse in the hall stands stant Er there 4 හ
  - "There is a horse standing in the hall." zijn vader mat his father mate puts zet John . цц ۵,

checkmates his father."

<sup>e</sup> Josperson (1933) calls the propositional internal argument in constructions of the type Joint Jound the cage empty 'nexus', Roorda (1864) calls it 'complement van objectieve gesteldheid' (complement of objective state, cf. Van Driel 1988).

Some of these constructions will return in section 2.3.7 The important thing here is that they all involve a propositional internal argument.

thematic'. As far as thematic relations are understood, one might wish to analysis altogether, as well as of the underlying minimalist principles of structure building (cf. Carrier and Randall 1992).<sup>8</sup> relation between the internal argument and the verb, some of the constructions in (1)-(5) could be problematic. For instance, it is not clear that in (2), the situation de deur rood 'the door red' is a thematic argument of the verb verft 'paints' in any obvious sense of the word <u>maintain</u> that in (2) *de deur* 'the door' stands in a thematic relation to the verb verft. This again could lead to a rejection of the Small Clause However, if we wish to maintain that there has to be a thematic

Therefore, the minimalist approach to the structure of the lexical domain can only be maintained if we deny that thematic relations are crucial to the process of structure building (cf. Chomsky 1992:27f). The interpretation of thematic relations must then be considered as a function of the computational properties of the human mind, at work in the interpretative component of the grammar.<sup>9</sup>

effect on the interpretation of the verb, as T.Hoekstra (1990) and Mulder (1992) show (see section 4.3.1.b). This effect can be described as measuring out the event' denoted by the verb (cf. Tenny 1987). The verb verft in (2) does not have aspectual properties by itself. Only when phrase: the effect of creating a VP denoting an accomplishment is the The clausal complements in (1)-(5), however, do have a clear aspectual combined with another constituent does it denote an accomplishment (in fact, it yields a VP denoting an accomplishment). As Mulder (1992:51) shows, this 'other constituent' may be a Small Clause as well as a noun same in each case.

constituent. This yields the result that a verb and its complement are adjacent in the initial stage of the representation, without having to We may now assume that the first step in certain structure building processes is driven by the need to create an aspectually interpretable abandon the minimalistically attractive Small Clause analysis of multiargument verbs and multi-predicate constructions.  $^{7}$  The list of constructions given is not exhaustive, and I do not wish to contond that the various types represent clear cut categories.

 $^{*}$  The arguments against the Small Clause analysis advanced in Carrier and Randall (1992) are greatly weakened by the circumstance that the verbe used in their argumentation are typically complex verbe. See note 15 of section III.4.3.1.b.

<sup>9</sup> This is how I understand Rint Sydesma's first thesis adjoined to Sybesma 1992: 'All interpretation is shadow interpretation'.

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This will serve as background for the discussion in the following of noun phrase arguments (2.2), Small Clause predicates (2.3) and clausal arguments (2.4), and try to determine the relevance of these phenomena sections. In what follows, I will be looking at the distribution, in Dutch for the question of the position of the head in the Dutch VP.

2.2 The Distribution of Noun Phrase Complements

2.2.1 Introduction

As discussed in section II.1.4, direct objects in Dutch do not have to be adjacent to the verb in embedded clauses:

kuste kissed that John Mary yesterday." "..that John kissed Mary yesterday." udat Jan Marie gisteren that Jahn Mary vesterdev Э

absence of functional heads to the right of the VP), the non-adjacency of the direct object and the verb in (1) must be the result of object According to our assumptions, the direct object Marie must be adjacent to the verb kuste Rissed' in the initial stage of the derivation of (1). Excluding the possibility of verb movement to the right (based on the movement.

position of a functional projection (AgrOP). The non-adjacency in (1) can then be thought of as the result of overt movement of the object to the specifier position of AgrOP, triggered by the presence of a strong As we have seen in M.4.3, non-adjacency of direct object and verb can be easily accounted for in the minimalist approach. According to minimalist assumptions, objects have to be licensed in the specifier N-feature in AgrO.

against an explanation of object movement in terms of pragmatic factors, such as the distribution of given and new information. Let us develop this The word order in (1) is not marked in any way. This seems to weigh point a bit further.

is often argued that (1) is not in itself neutral, but only neutral when the direct object referent is already known in the discourse domain. If this is not the case, for instance when (1) serves as an answer to the question Who did John kiss yesterday?, (2) is preferred: Ħ

"dat Jan gisteren Marie kuste that John yesterday Mary kissed that John yesterday Mary kiss "..that John kissed MARY yesterday."

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movement is pragmatically governed, affecting noun phrases that refer to known elements only. (Alternatively, one could maintain that in (2) the On the basis of this pattern, one could make the generalization that object adverb, presenting known information, is moved to the left.) From this perspective, scrambling would be a defocusing operation.

high pitch, and the parts following *Marie* pronounced with low pitch; cf. II.1.4). Likewise, the adverb *gisteren* can present new information, even in the position it occupies in (2), when its first syllable is high pitched. In other words, information packaging in Dutch is a function of intonation rather than of word order, except, possibly, when certain marked fronting serve as a perfectly acceptable answer to the question Who did John kiss However, the relevant observations are only correct when (1) and (2) are thought of as pronounced with a 'neutral' sentence intonation. (1) can *yesterday?* if *Marie* receives the appropriate intonation (with -rie receiving operations are applied (such as topicalization and focus scrambling).

presence of a strong N-feature in AgrO is supported by a number of observations, which will be discussed in section 2.2.2. I refer to this movement operation as *scrambling*.<sup>10</sup> Notice that scrambling should not be confused with free word order. The order of arguments in neutral word order constructions in Dutch is fixed: subject - indirect object - direct The hypothesis that the object movement in (1) is triggered by the

- gaf gave-3SG gaf gare-3SG gare-3SG gave-3SG gaf gave-3SG
- gave-3SG gave

The 'scrambling' aspect of word order in Dutch only applies to the relative order of arguments and adjuncts, as shown in (4) (cf. Koster 1974): <sup>10</sup> Reserving the term object shift for pronoun movement in Mainland Scandinavian languages, cf Holmberg (1986).

- gave het boek the book book ...dat gisteren Jan de kinderen that yesterday John gave the children "that yesterday John gave the children the "that yesterdar Jan gisteren de kinderen 4 ġ, €
- het book gaf the book gaf het book gaf the book gar gaferen gaf gaferen gar gaf gisteren gar yestertay yesterday the children John ...dat that
  - de kinderen gisteren Jan dat that dat that that ů
    - gisteren ÷
    - yesterday het boek the book het boek the boek the children de kinderen the children de kinderen the children John John John John نه
- The hypothesis of scrambling as object movement to the specifier of

First, the coexistence of (1) and (2), as well as the complete pattern in AgrOP immediately leads to three conclusions.

(4), indicates that adverbs do not have a fixed position. I will assume that Second, the direct object must be assumed to occupy the specifier adverbs in principle can be adjoined to any maximal projection.<sup>11</sup>

position of AgrOP, even if this cannot be demonstrated by the presence and position of an adverb (section II.4.3). Thus, not only in (1), but also in (2) and (5) must the direct object be assumed to have moved to a position in the functional domain.

- Jan Marie kuste John Mary kissed "..that John kissed Mary." --dat that ė 6
  - Marie Mary kuste kissed Jan John à,

This follows from the absence of optional movement in the minimalist program. If scrambling is triggered by the need to eliminate a strong N-feature in overt syntax, the absence of scrambling will inevitably lead to a crashing derivation.

position of AgrOP can take place in the absence of verb movement to occupies the specifier position of AgrOP, the verb does not occupy  $AgrO.^{12}$ Third, the word order in (1) indicates that movement to the specifier AgrO. Since the direct object and the verb in (1) are not adjacent, they cannot be in a specifier-head configuration. Therefore, if the direct object

This third conclusion runs counter to Chomsky's (1992:25) conjecture that "overt object-raising will be possible only with overt V-raising". This <sup>22</sup> Recall that we have excluded the possibility that Dutch has bend final functional projections. Hence, specifier-head configurations always yield linear adjacency.

moved head (a). In other words, verb movement to AgrO makes the specifier position of VP and AgrOP equidistant from the object of V. As a result, movement of the direct object to the specifier position of AgrOP across the specifier position of the VP does not violate the shortest domain of the head (or, more exactly, that movement of a head  $\alpha$  to  $\beta$ yields a chain with an internal domain including the specifier position of the moved head ( $\alpha$ ), viewed from the perspective of the complement of the conjecture is based on the idea that head movement increases the internal cP). This makes the specifier position associated with the target of the head movement (B) equidistant to the specifier position associated with movement requirement.

I.3.1 that the shortest steps requirement of economy of derivation is not a part of Universal Grammar. This hypothesis is supported by long distance head movement in clitic constructions (III.2.3) and in verb movement to the CP-system (III.4.3, III.5.3), and by long distance XPrequirement underlies the equidistance condition, the latter is not conceptually motivated. To this we can now add that the equidistance movement in the Form Chain approach (III.5.3). Since the shortest steps equidistance condition on movement. First, we found in section III.4.3 that the minimal domain of a head movement chain does not include the specifier position of the foot of the chain. Second, I hypothesized in section Notice that we have already found independent reasons to reject this principle makes the wrong prediction for object movement in Dutch.<sup>23</sup>

(or, alternatively, no movement to AgrOP at all).<sup>14</sup> But then much of the empirical evidence for object movement to AgrOP would be lost to begin verb movement and object movement now can only be maintained if (1) This is a serious problem for Chomsky's conjecture, since precisely object movement to the specifier position of a functional projection. As such, object movement in Germanic is one of the highlights of the minimalist program. Chomsky's conjecture about the relation between displays a second object movement in addition to the movement to AgrOP with. I therefore conclude that the minimalist approach to object Dutch and German provide the most compelling empirical evidence for

<sup>14</sup> Vanden Wyngaerd 1989a:269, Mahajan 1990:56f.

that adverbs move to the specifier position of a designated functional projection. See section 1.3.3 for discussion. <sup>11</sup> Kayne (1993) considers adjunction to a maximal projection to be impossible, and assumes

<sup>&</sup>lt;sup>12</sup> Chonsky (1992.25) notes that his prediction concerning the relation between verb movement and object movement to AgrOP "is apparently confirmed for the Germanic innguages", referring to Viener (1991a). However, Viener (1991a), soction 4.2.5) explicitly states that scrambling (object movement to AgrOP, inor analysis) does not require the verb to move. If this respect, scrambing differs from the Scandinavian pronoun movement studied in Holmberg (1985). The latter phenomenon, however, cannot be analyzed as movement to the specifier position of AgrOP, unless we assume that full noun phrases in movement to the specifier position of AgrOP, unless we assume that full noun phrases in Scandinavian cannot and need not eliminate the strong N-features of AgrO.

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 moved noun phrases (cf. section II.2.3). <sup>17</sup> I will return to this issue in section 2.2.2.b. The boundedness of scrambling in Dutch is illustrated in (6): <sup>18</sup>
<ul> <li>(7) adat Piet zei dat Jan Marie gisteren kuste that Peta suid that John Mary yesterday kissed had "that Pete suid that John kissed Mary yesterday."</li> <li>b. •dat Piet Marie zei dat Jan gistoren kuste that Pete Mary suid that John yesterdixy kissed had</li> </ul>
 This contrasts with topicalization, which is unbounded, as discussed in section III.5.3.1:
(8) Marie (dio) zei Piet dat Jan gisteren gekust had Mary d-word suid Pete that John yesterday kissed had "Mary. Pete said that John kissed yesterday."
Recall that raising to subject is bounded. This is illustrated here for Dutch:
 (9) Jan schijnt dat e Marie gekust heeft John seems that Mary hissed has "John seems has kissed Mary."
 I argued in section I.3.1 and III.5.3 that unbounded movement takes place by way of the process <i>Form Chain</i> (cf. Chomsky 1992:21), and that this process should be thought of as a combination of inserting intermediate emby elements first and moving the lexical constituent afterwards in a single step. The empty elements will then, in the interpretation process, be included in the chain linking the moved element with its trace. Long distance movement in this scenario proceeds stepwise and cyclical, as a part of the structure building process of generalized
transformations. Under these assumptions, the ungrammaticality of (9) follows if we assume that the empty element to be inserted in the process of long distance movement cannot have orfeatures. This follows if an empty element with orfeatures must also have an independent 9-role. In long distance raising constructions like (9), this is excluded, since only one
<sup>17</sup> Hence Webelhuth's (1989) analysis of screambling in German as movement to a 'mixed' position (displaying both A-properties and A-properties). For the same reason, Vanden Wrynewi (1988a.269) adopts an additional object movement from the specific position of AgrOP to an A-proteition, cf. Mahajan 1990:56f. See Den Dikken & Mulder (1993) for discussion.

movement is correct and applies to (1). Consequently, verb movement is not a precondition for object movement.<sup>16</sup>

Finally, the approach to object movement advocated here implies that there is a functional projection for the licensing of indirect objects as well, considering the fact that indirect objects precede direct objects (cf. (3)). This I will assume without further discussion.

As mentioned in section 1, the existence of object movement in Dutch makes it impossible to draw conclusions as to the basic ordering of verb and object in the VP in Dutch. However, one might argue that indefinite objects generally do not undergo strambling (see, among others, De Hoo 1992). If so, the structure of the VP could be read off of embedded clauses involving indefinite objects. I will discuss this possibility in section 2.2.3, and dismiss it. First, however, I will discuss the evidence for scrambling as movement to the specifier position of AgrOP in section 2.2.2.

# 2.2.2 Scrambling as L-related XP-movement

## a. Scrambling as movement to AgrOP

The idea that scrambling in Dutch consists of movement to the specifier position of a functional projection designed for object licensing was originally due to Vanden Wyngaerd (1989a).<sup>16</sup> Vanden Wyngaerd shows that scrambling in Dutch has the properties of A-movement, and argues that A-movement should be defined as movement to a Case licensing position.

The relevant properties of scrambling here are 1. boundedness, 2. absence of weak cross-over effects, and 3. absence of reconstruction effects. These properties of scrambling, which are briefly illustrated below, were already well known by the time Vanden Wyngserd developed his AgrOP hypothesis (see Bennis and Hoekstra 1984, Huybreegs and Van Riemsdijk 1985, Holmberg 1986). What seems to have obscured a proper understanding of the phenomenon, however, is that scrambled objects were seen to license parasitic gaps, in marked contrast with other A- <sup>14</sup> This provides a fourth piece of evidence against the shortest steps requirement of economy of derivation. Apparently, objects are allowed to cross the specifier position of VP on their way to AgrOP.

<sup>16</sup> Vanden Wyngnerd appears to have proposed AgrOP independently of Chomsky 1991 and Mahajan 1990. With respect to AgrOP as a separate category, reference is often made to Kayne (1987), but it is not clear that the agreement projection identified there should be equated with AgrOP.

	DUTCH AS AN SVO LANCUAGE
the empty y the same e specifier ying Form	<ul> <li>a. Marie, werd [volgens haar, aanwijzingen] gekust</li> <li>Mary was following her directions kissed</li> <li>"Mary was kissed according to her directions."</li> <li>b. 7 Marie, hobben [hanr, minnaar] gekust</li> <li>Mary have her lovers kissed."</li> </ul>
bec or the he matrix is parallel died verb, a must be Mhen	<ul> <li>scrambling creates a felicitous configuratio</li> <li>te raising to subject (13a), and unlike topic</li> <li>Jan heeft de kinderen, non elkan;</li> <li>John has the children to one another."</li> </ul>
process of ature (an vrement to ) must be serting an mserted in on of long	<ul> <li>1. John has to each other the children presented</li> <li>John has to each other the children presented</li> <li>(13) a. De kinderen, werden ann elkaar, voorgesteld</li> <li>the children were inroduced to each other presented</li> <li>The children were inroduced to each other presented</li> <li>b. Elkaar, keenden de kinderen, f, miet each other there widden the not</li> <li>Teach other, there children didn't know"</li> </ul>
is inserted N-features r previous e are two ed AgrOP, ut a 9-role, er position e familiar	In (12a) and (13a), the overt syntax configuration reflects the c-command relation needed for binding of the anaphoric element <i>elicar</i> 'each other by <i>de kinderen</i> 'the children'. In (13b), <i>de kinderen</i> does not c-command the anaphoric element <i>elicaar</i> ; apparently, the position of the trace of <i>elicar</i> , indicated in (13b), is relevant for binding, not the overt syntax position of <i>elicaar</i> . The latter phenomenon is typical for nonL-related XP- movement.
elated XP- rated only m adjunct ct does not shaves like	b. Parasitic Gaps The analysis of scrambling in Dutch as L-related movement faces one problem. As Bennis and Hoekstra (1984) demonstrate, scrambling in Dutch creates a configuration in which parasitic gaps can be licensed. This is illustrated in (14).
ed l	<ul> <li>a. "dat Jan [zonder e uit te lezen] het boek weglegde that John without out to read the book away put "hnat John put the book away without finishing (it)."</li> <li>bdat John the book (zonder e uit te lezen] t weglegde that John put the book without out to read away put "that John put the book away without finishing it."</li> </ul>
	Parasitic gaps can be interpreted only in the presence of another gap. This gap must be the trace of nonL-related XP-movement (A <sup>1</sup> -movement), and

 $\theta$ -role is available for the subject Jan in the matrix clause and the element in the embedded clause indicated by e.

The ungrammaticality of (7b) can be accounted for in exactly the sam way, on the assumption that scrambling is movement to the specific position of AgrOP. In that case, (7b) can be derived by applying *For Chain* in the familiar way. Assume that in (7b) the direct object of the embedded verb, *Marke*, is moved to a licensing position in the matrix clause (i.e. to the specific position of the matrix AgrOP). This is parally to the derivation of (9), in which the subject of the embedded veri *kuste*, has a  $\varphi$ -feature (the object agreement feature) which must be checked against the V-feature (the object agreement feature) which must this AgrO is created as part of the structure building process. Whe this AgrO is created as part of the structure building process generalized transformations, it comes with a strong *N*-feature (a automatic consequence of the hypothesis that scrambling is movement AgrOP). Consequence of the hypothesis that scrambling is movement the specifier position of the embedded *MaP* must be empty element, in the same way that empty wheelements are inserting a empty element in the same way that empty wheelements are inserted in structure specifier position of the embedded *MaP* in the derivation of lor distance wh-movement constructions. However, since the thus inserting assumption, must have an independent  $\theta$ -role. Thus, there are the elements, the displaced object *Marz* and the *pro* in the embedded AgrO competing for the same  $\theta$ -role. One of the two will end up without a  $\theta$ -rol. which will make (9) uninterpretable.

Thus, by analyzing scrambling as movement to the specifier position of AgrOP, the property of boundedness follows from the familia distinction between L-related and norL-related XP-movement.

The other two properties of scrambling which link it to L-related XPmovement are well discussed in the liferature and are illustrated only briefly here. First, scrambling of a direct object across an adjunct containing a pronouu which is coreferential with the direct object does not yield a weak crossore effect (10). In this respect, scrambling behaves like raising to subject position (11a) and unlike topicalization (11b).

(10) Jan heeft Marie, [volgens haar, aanwijzingen] gekust John has Mary following her directions "John kissed Mary according to ker directions."

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1984, many others); the fronted XP must c-command both gaps. This is illustrated for Dutch in (15): must not e-command the parasitic gap (Chomsky 1982, cf. 1986b; Kayne

Welk book heeft Jan [zonder e uit te lezen] t weggelogd? which book has John without out to read away put "Which book did John put away without finishing" Dit boek hoeft Jan [zonder e uit te lezen] t weggelegd this book has ofthin without out to read away put "This book John put away without finishing." đ (35)

à,

In the sentences in (15), the gap in the adjunct clause, indicated by e, is parasitic on the trace of the wh-movement/topicalization (indicated by t in (15)).<sup>19</sup>

the object het boek 'the book' in front of the adjunct clause. This trace is also indicated by a t in (14b). The analysis entails that scrambling, like In Bennis and Hoekstra's analysis of (14b), the gap in the adjunct clause is parasitic on the trace of the scrambling movement which puts topicalization and wh-movement, is A'-movement (nonL-related XP-movement).

section, according to which scrambling in Dutch displays the properties of scrambling contains two movements, one moving the object to the specifier position of AgrOP, and a second one moving the object to an adjunction the specifier position of AgrOP, and the object het boek would be occupying This result is problematic for the generalizations made in the previous L-related movement. Vanden Wyngaerd (1989a) and Mahajan (1990) have attempted to reconcile the L-related character of scrambling with the nonL-related property of parasitic gap licensing, by postulating that position higher up. The trace t in (14b) would under this scenario indicate the higher adjunction position when it precedes the adjunct clause.

. \_\_\_ .

This, however, is unattractive from a minimalist point of view, since involves an optional movement which does not seem reducible to movement for feature checking purposes. ÷:

Another reason not to be completely satisfied with the Bennis and because in (14a) the object *het boek* does not c-command the parasitic gap, which is a precondition for parasitic gap licensing. In other words, the Hoekstra analysis is that it is impossible to provide a minimal pair demonstrating its correctness. (14) does not count as a minimal pair,

in Dutch, because the trace of nonL-related XP-movement is assumed to occupy the licensing position of the object, not the position of the object in the initial stage of the derivation. This . The position of this trace is independent of the head initial or head final status of the VPexpresses Chomsky's (1981) generalization that variables are Case marked traces.

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ingrammaticality of (14a) may be unrelated to the presence or absence of an object trace.

parasitic gap construction in (14b) has decidedly different properties from the parasitic gap constructions in (15). In that case, it would not be clear that much is gained by analyzing (14b) along the same lines as standard analysis of parasitic gaps in Dutch, unless it can be shown that the On the other hand, it would be unwise to reject Bennis and Hoekstra's parasitic gap phenomena, which are induced by nonL-related XP-movement.

the phenomena themselves appear to be rather striking, and suggest that scrambling induced parasitic gaps in Dutch are still less than fully It should be evident that I am hesitant to put forward the following observations, since they can serve only to weaken the existing analysis, without much promise of putting anything in its place. On the other hand understood.

As a first observation, at least according to my ear, (14b), though grammatical, is less acceptable than (15a) or (15b). This is unexplained if scrambling in parasitic gap constructions involves nonL-related XP movement. In connection with this, several contexts can be given in which the two types of parasitic gap constructions diverge.

adjunct clauses, whereas wh-movement induced parasitic gaps display the normal scale of deterioration under added complexity (cf. Chomsky 1986b:55). Compare the adjunct clauses in (17), assuming them to appear in the context in (16), with the adjunct clauses in (19), assuming the The clearest contrast between parasitic gaps in scrambling constructions and wh-constructions is obtained by turning the clause containing the parasitic gap into an island. It turns out that scrambling induced parasitic gaps are impossible in even slightly more complicated context in (18):

opgebeld? culled Wie heb je who have you "Who did you call \_\_\_\_" (16)

<ul> <li>DUTCE SOTIAL</li> <li>a souder is vermeeden fan vije ed uitgenodigd beden volken ansensen.</li> <li>a souder is vermeeden fan vije ed uitgenodigd beden volken ansensen.</li> <li>a took volken ansensen.</li> <li>a souder ja fa vergen of volken ansensen.</li> <li>a souder ja fa vergen of volken ansensen.</li> <li>a souder ja fa vergen of volken ansensen.</li> <li>a souder ja vergen of volken ansense ja vergen of volken ansense ja verket ja vergen of volken ansense ja verket ja vergen of volken ansense ja verket ja verket volken ansense ja verket ja verket ja verket volken ansense ja verket ja verket volken ansenset verket verket ja verket ja verket volken ansenset verket verket ja verket verket ja verket ja verket volken ansenset verket verket ja verket ja verket ja verket ja verket volken ansenset verket verket verket ja verket ja verket volken ansenset verket verket ja verket volken ansenset verket verket ja verket verket ja verket ja verket ja verket volken anser verket verket ja verket ja</li></ul>	DUTCE AS AN SVO LANGUAGE 313	<ul> <li>(21) The heb Piet overtuigd dat we e zouden bezoeken I have Pete condirved that we pg would visit "I convinced Pote that we were to visit (him)."</li> <li>(21) is absolutely ungrammatical.</li> <li>(21) is absolutely ungrammatical.</li> <li>(21) is absolutely the parasitic gaps in scrambling constructions differ from parasitic gaps in wh-movement constructions in unexpected ways. Unfortunately, the observations presented here do not immediately suggest by what kind of mechanism constructions like (14b) receive a parasitic gap in this construction. The advince flates in this construction. He advince flates in this construction. The advince flates in this construction.</li> </ul>	that the relevant mechanism is not the normal licensing mechanism for parasitic gaps. <sup>20</sup> In the light of these uncertainties, it does not seem wise to maintain at all cost that scrambling is or can be nonL-related XP-movement. I will therefore adopt the minimalist analysis of scrambling as movement to the specifier position of AgrOP, triggered by morphological licensing requirements.	2.2.3 The Distribution of Indefinite Objects If scrambling in Dutch is movement to the specifier position of AgrOP, it cannot be optional. Hence, the pattern in (22) must be taken to indicate that sentence adverbs may be adjoined both higher and lower than AgrOP.	<ul> <li>(22) adat Jan Marie gisteren gekust beeft that John Mary yesterday kissed has "that John kissed Mary yesterday" kissed has "that John kissed Mary yesterday."</li> <li>bdat John yesterday Mary fissed has "that John kissed Mary yesterday."</li> <li>In (22), the object Mary resterday."</li> <li>In (22), the object Mary and (22b) differ only in that (22b) is more sentence intonation, (22a) and (22b) differ only in that (22b) is more</li> </ul>	<sup>23</sup> A promising hypothesis could be that scrambling induced parasitic gaps are really traces of arcoss the board movement, as proposed by Eurobreck and Van Riemacijk (1985), whereas whe-induced parasitic gaps are real parasitic gaps. One problem that the across the board hypothesis data localizing the barrasitic range, improve the construction, whereas such installization in across the board extraction leads to severe ungrammaticality. This, however, follows if we assume that wh-extraction leads to severe ungrammaticality. This, however, follows if we assume that wh-extraction leads to assure the board constructions involves the presence of a second operator in the second conjunct. Leadsizing the board acruabling, since scrambling does not create an operator-variable structure.
<ul> <li>DUTCH SYNTM</li> <li>ander to vermeeden dat wije al uitgenodigd hadden virbout to suspect data wate always invited land virbout works of a data wate always invited land.</li> <li>a. "virbout voorfen aak watelen watelen uitgenodigd hadden virbout works of the pinat party you part always whether we always invited (ham).</li> <li>b. "construction and the watelen uitgenodigd hadden virbout to off a site and we acude mutoolige invited index."</li> <li>c. "construction and the pinat party you had to invite them?"</li> <li>a. "poster to know of the pinat that we ge valued untooligen virbout to know of the pinat that we ge valued untooligen without to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued untooligen virbout solution to know of the pinat that we ge valued party you the virbout solution to know of the pinat that we ge valued untooligen hadden virbout solution to know for which party protect hand?</li> <li>b. ander te verean van bet pinat dat we e zouden untooligen hadden virbout solution to know for which party protect hand?</li> <li>c. ander te verean van bet pinat dat we e zouden untooligen hadden virbout solution to know for which party portect hand?</li> <li>d. ander te verean van bet pinat dat we e zouden untooligen hadden virbout solution to know for which party portect theorem.</li> <li>d. ander te verean van bet pinat dat we e zouden beschend?</li> <li>d. ander te verean van bet pinat dat we e zouden beschend?</li> <li>d. ander te verean van bet pinat dat we vere solutin the solut</li></ul>						
	DUTCE SYNTAX	zonder to vermoed without to suspect "without suspecting" "without suspecting" ? zonder to ween "without wondering ? zonder to ween without to know without to know	Jan heeft de buren op Jan has the neighbors cul John auled the neighbors "John auled the neighbors * zonder te vermeeden dat wij e al v without to suspect that we already invit "without suspecting that we already invit without suspecting that we already invit " zonder zich af te vragen of without zig off to ask	"without wondering whether we alrea zonder to weten voor welk fees without to know for which party you "without knowing for which party you zonder te weten van het plan without to know of the plan "without knowing about the plan that	idgments in (17) are as expected under Chomsky's (1986b) analysis asitic gap constructions as involving empty operator movement in ijunct clause. The judgments in (19), then, suggest that this that empty for movement does not take place in parasitic gap constructions with bling instead of wh-movement. Accepting Chomsky's analysis, this ints to saying that they are not parasitic gap constructions, or at net so saying that they are not parasitic gap constructions, or at ord, consider the following parasitic gap construction involving, bly, a complement clause (cf. Chomsky 1986b:62):	Wie heb je f overtuigd dat we e zouden bezoeken? who have you f carvinee that we pg would visit "Who did you couvince t that we were gring to visit (them)?" sentence is grammatical (note that <i>overtuigen</i> 'convince' must be rstood transitively, as is its normal interpretation). Scrambling does reate the configuration that makes this parasitic gap construction ble:

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answer to the question Who did John kiss yesterday? However, as mentioned earlier in section 2.2.1, (22a) is a perfect answer to this felicitous than (22a) when Marie presents new information. This is because the neutral sentence intonation of Dutch puts the immediate question when Marie receives a marked intonation (with high pitch on When the object of the verb is an indefinite noun phrase, its preferred preverbal element in focus (cf. section II.1.4). Thus, (22b) is the preferred -rie). Apparently, focus may shift to the left, independently of scrambling.

position is to the right of sentence adverbials:

Jan gisteren eenmeisje gokust heeft John yesterday a girl kessed has ...dat Jan gistoren eenmeisj that John yestorday a girl "..that John kissed a girl yesterday." ଟ୍ସି

not undergo scrambling (cf. De Hoop 1992). If this were correct, een *meisje* 'a girl' in (23) would still be in its basic position. Still excluding verb movement to the right, we would have to conclude from (23) that the VP The standard interpretation of this fact is that indefinite noun phrases do in Dutch is head final.

I will argue, however, that this conclusion is not warranted, because its premise, namely that indefinite noun phrases do not undergo scrambling, is false.

(22), the assumption that (23) does not involve scrambling is questionable from the start. First, the approach dictates that object movement is required by the need to eliminate a strong N-feature of AgrO. If so, the derivation of (23) will not converge unless the indefinite object moves to that adverbs may be adjoined both higher and lower than the specifier position of AgrOP. If so, (23) does not conclusively show that scrambling is absent. It could also be that the adverb is preferably adjoined higher in case the specifier position of AgrOP is occupied by an indefinite noun In the minimalist approach to scrambling underlying the analysis of the specifier position of AgrOP. Second, we know from the pattern in (22) phrase.

order in (23) is the result of the adverb being preferably adjoined in a The latter conjecture is supported by a number of observations. If the position c-commanding the indefinite object, there must be a reason for this preference. In other words, it must be the case that a reversal of the adverb-indefinite object order has some effect on the interpretation of the sentence. Thus, we expect (24) not to be ungrammatical, but just different rom (23)

Jun oon meisje gisteren gokust hooft John a girl yestorday kissed has ..dat (<del>7</del>

that John a girl yesterday. ".that John kissed a girl yesterday."

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has lost much of its indefinite character. The preferred interpretation of (24) is that there is a specific girl, whose identity is unknown, but whose existence is presupposed, and that John kissed that girl yesterday. The This is exactly what we find. (24) is not ungrammatical, but een meisje difference is rather subtle in (23)-(24), but becomes more apparent when the indefinite object is modified, as in (25):

- een meisje uit zijn klas gekust heeft ಕ 25)
- kissed has ...dat Jan gisteren een meisje uit zijn klas that John yesterday a girl from his class "..that John kissed a girl from his class yesterday."
- gekust heeft kissed has yestorday Jam com meisje uit zijn klas gisteren John a girl from his class yesterday "..that John kissed a girl from his class yesterday. ..dat that à.

Een meisje uit zijn klas 'a girl from his class' is ambiguous; it can have the interpretation 'a specific girl from his class which I have in mind' or the interpretation 'some girl from his class'. Both interpretations are possible in (25a), but the former is much preferred in (25b).

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sentence adverbials. De Hoop (1992:50) distinguishes four types of strong readings. The type illustrated above is called 'referential'. The other strong readings are 'partitive', 'generic', and 'generic collective'. These will be Following De Hoop (1992), I will use the term 'strong reading' to refer to the special interpretation of indefinite noun phrases when they precede illustrated shortly.

are comparable to the pair in (22). (23) and (25a), like (22b), have a word order in which the element presenting new information is in the position (22a). With this intonation, (24) and (25b) present perfectly acceptable answers to the question *Who did John kiss yesterday?*. In other words, the interpretation of indefinite noun phrases is not a matter of word order *per* It should be noted here, however, that a weak (i.e. not strong) reading of the indefinite noun phrases in (24) and (25b) is not impossible. Thus, (24) and (25b) can in fact be used as answers to the question Who did John kiss yesterday?. In this respect, the pairs (23)-(24) and (25a)-(25b) which is most likely to get focus in the unmarked sentence intonation. However, when pronounced with marked intonation, both een meisje in (24) and een meisje uit zijn klas in (25b) receive focus, just like Marie in se, but of intonation.

being triggered by the question When did John kiss Marie/a girl (from his class)?, then in (22), (22a) is the preferred answer, going along with the neutral sentence intonation which puts gisteren 'yesterday' in focus, and (22b) is also possible when gisteren gets the marked intonation. In There is a difference to be noted between (22) on the one hand and (23)-(25) on the other hand, however. If we think of these sentences as contrast, (24) and (25b) are rather awkward in this context. Instead, (23) and (25a) would be used, again with marked intonation of the adverb.

DUTCH AS AN SVO LANGUAGE 317	unmarked focus position (see section II.1.4). <sup>23</sup> If so, indefinite objects that are separated from the verb by an adverb, will have to either assume a	marked intonation (signaling that they represent new information) or receive a strong interpretation.	Consider how these generalizations hold up in other contexts. The following pair illustrates another type of strong reading, the generic	reading:	(23) aaat John Yank mersyes kust that John often grifs kisses "hat John often kisses grifs." bdat John meisyes vaak kust that John grifs often kisses "hat John kisses grifs often."	The normal interpretation of (29a) is that John has a habit of kissing	gris, whereas (296) means that, as far as gris are concerned, John Kisses them a lot. (296) illustrates the generic reading of <i>meisjes 'g</i> rifs' <sup>24</sup>	Under our analysis, meisjes in (29b) must have a strong reading, hommonit is concerted from the reat hy on element in the method frome	pecause it is separated from the very by an element in the hadded a tool position, the adverb <i>vack</i> 'Often'. We predict, however, that <i>meisjes</i> in (29) may have a weak reading, when it is appopriately stressed, so that <i>inclus hint variance</i> is an emerican element.	var was receives a variation of the montanon. This prediction is volue out, as can be seen in (30):	(30) a. Ret valt mij op dat Jan meisjes VAAK EUST het strikes me that John girls often kisses	"It strikes me that John often KISSES grils." b. Het valt mii op dat Jan MEISJES vraak kust	it strikes me that "It strikes me that John		<sup>22</sup> As noted in section II.1.4, many other intonational patterns are possible. If the verb in an embedded clause is intransitive, it may carry the focus intonation itself ( <i>dat Jan (vaak</i> )	DANST (that John often dances!). Also, čertain adverbs, like modal maar just', resist focus interaction Warms the fort that indefinite adverts mending than adverts accesses a struct	internation, reaction are not maximum organizational concentrations are access as reactions are and reading does not obviously follow from inconstional considerations. I assume that the oddity of such a construction (for instance ?? <i>dar Jan een boek maar pakt</i> [that John a book just	takes! vsdat Jan maar een boek pakt [that John just a book takes] "that John settles for a book) results from the circumstance that maar cannot be in the natural focus position. If the focus shifts leftward from maar to een boek, so that een boek comes to represent new	information, the scattenee becomes more acceptable. These and other observations suggest that much more research is needed before the interaction of interpretation in Druch is fully indersub.	<sup>24</sup> In connection with this, (29b) also allows a reading where each kissing event involves a number of kisses. This reading is absent in (29a).
 	-										_									
DUTCH SYNTAX	This observation leads to the following generalization:	Indofinite noun phrases may not precede focused material	(26) must actually be sharpened to (27):	An indefinite noun phruso which precedes focused matorial hus a strong reading	Thus, (25b) is a correct answer to the question <i>When did John kiss a girl</i> from his class? when a girl from his class has a referential interpretation. The judgment is subtle, but is confirmed in constructions in which the indefinite noun phrase is the subject of a Small Clause. Here, the Small	clause premate the strong reading.	a. "dat dan eenmeisje de tuin in stuurde et.e. folm omin hersten and	".that John sent a girl into the garden."	b	In (28a), the Small Clause predicate d <i>a tuin in</i> 'into the garden' cannot be focused (unless <i>een meisje</i> 'a girl' is understood as referential). In (28b),	where the Small Clause predicate is focused, the Small Clause subject gets a referential interpretation. <sup>21</sup>	Now we have two generalizations concerning the distribution of	indefinite objects with a weak interpretation. Lize, usey can be non-adjacent to the verb only if they have the marked intonation signaling	new information. Second, they cannot be followed by focused material. These two generalizations are compatible, since in Dutch an element with a marked intonation is followed by flat intonation material only. <sup>22</sup> One	could say that the marked intonation shifts to the left. T at us now return to the onestion of how to account for the fact that	adverbs must precede indefinite objects. This can now be easily explained	given that adverbs, when intervening between the object and the verb, are in the natural focus position. This follows from the neutral pattern of	ice intonation in Dutch, which has the preverbal position as the	<sup>21</sup> Many similar observations are found in De Hoop (1992, chapter 3). De Hoop introduces a <i>Principle</i> of <i>Constructivereus</i> to express the observation that indefinite noun phrases cannot <i>Principle</i> of <i>Constructivereus</i> to express the observation that indefinite noun phrases cannot be a set of <i>Constructivereus</i> to express the observation material.	nave a vera returns, vera precours, or a control, as in topicalization and focus 2 Ualess the element with a marked intonation is fronted, as in topicalization and focus scrambling.
316	5	(36)	(26)	(27)	Thu Tron The Tra	Clar	(28)			년 년 () () ()	wh: 7 f		D I U	а Цр а	cou	adi	ह. म	ser	n n Pri	

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In (30a), *meisjes* has a generic reading. This is as expected, since it is followed by focused material. In (30b), however, *meisjes* has a weak interpretation. Here *vock kust* gets a completely flat intonation, and *meisjes* presents new information. The best paraphrase is 'it strikes me that what John often kisses is grifs', and not 'it strikes me that as far as grifs are concerned, John kisses them a lot'.

Similar observations can be made for the other strong readings indefinite noun phrases may get. These are the partitive reading (31) and the generic collective reading (32):

geKUST heeft	kussed has		gekrust heeft			
udat Jan TWEE meisjes gisteren	yesterday	s yesterday."	jes gisteren	yesterday	ls yesterday."	
TWEE mei	two girls	issed two girl	twee MEIS	two girls	issed two girl	
Лад	John	John k	Jan	John	John k	
dat	that	that	-dat	that	".that	
તં			م			
(31)						

(32) a. ...dat Jan TWEE stemmon altijd door ELKAAR haalt that John two parts always mixes up "..that John always mixes up two parts (as soon as there are two)." b. ...dat Jan twee STEMmon altijd door elkaar haalt that John two parts always mixes up "..that John always mixes up two parts." In (31a), *twee mets*/ses gets the strong, partitive interpretation (i.e. two of the girls'). This makes sense, since in the natural sentence intonation, the very getwart faised' would be in focus, or otherwise the adverb would. In (31b), however, gisteren getwart keeft gets a completely flat intonation, and the sentence can be used as an answer to the question *Wno dial John kiss yesterdary?* John in (32) should be thought of as having trouble keeping two simultaneous parts in a musical piece apart. (32a) then means that as soon as the music becomes two-part, John gets confused. In other words, *twee stemmen* two parts' gets a generic collective reading. In (32b), under the indicated intonational pattern, this reading is absent, and *twee stemmen* gets a weak, existential interpretation.

This analysis shows that the interpretation of indefinite objects in Dutch can be explained in terms of the intonational patterns of the sentence. Apparently, the intonational pattern is related to positions in a linear order rather than to positions in a hierarchical structure. As can be seen in the examples above, it is irrelevant for the interpretation of the indefinite noun phrase which constituent following it is stressed. This can be an adverb, or a Small Clause predicate (as in (28b)), or the verb itself. In all these cases, the indefinite noun phrase will receive a strong interpretation. In outher words, there is no reason to link the interpretation of an indefinite noun phrase to its structural position in the tree.

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Therefore, we may safely assume that indefinite objects, like definite objects, move to the specifier position of AgrOP in overt syntax in Dutch. Hence, the structure of the VP in Dutch is not directly reflected in the order of the verb and the indefinite object in embedded clauses.

#### 2.2.4 Conclusion

In this section I have argued that scrambling in Dutch can be analyzed as required by the minimalist approach, namely as obligatory movement of the object to the specifier position of AgrOP. This makes scrambling an Li-related XP-movement, which explains its A-movement characteristics, including the bounded character of the movement. I also argued that parasitic gap constructions involving scrambling differ from parasitic gap constructions involving nonL-related XP-movement. This suggests that scrambling induced parasitic gaps has to be left as a topic for further the exact nature of these gaps has to be left as a topic for further research. I also argued that all objects in Dutch, whether definite of that the interpretation of indefinite objects is a function of intonation rather than of syntactic position.

These considerations lead to the conclusion that the overt syntax position of direct objects with respect to the verb in embedded clauses in Dutch is irrelevant for the question whether the VP in Dutch is head final or head initial.

# 2.3 The Position of Embedded Predicates

#### 2.3.1 Introduction

In section 2.2 we encountered the first potential problem for the hypothesis that Dutch is an SVO language. This problem, the distribution of indefinite objects, was removed by arguing that indefinite objects move to the specifier position of AgrOP, just like definite objects do.

A second potential problem for the SVO hypothesis is posed by the distribution of Small Clause predicates. These invariably precede the verb in embedded clauses. Moreover, the embedded verb and the Small Clause predicate are strictly adjacent in almost all constructions.<sup>1</sup> If Small Clause predicates occupt their basic position, we must conclude that the

<sup>1</sup> Only stranded prepositions may intervene between the Small Clause predicate and the embedded vorb (cf. Koster 1993).

DUTCE AS AN SVO LANGUAGE 321	<ul> <li>(4) adat Jan Marie intelligent vindt that John Mary inveligent finds that John Mary inveligent.</li> <li>bdat Jan Marie vindt intelligent that John Mary finds intelligent</li> </ul>	The ungrammaticality of (3b) is significant, since PPs in Dutch may generally appear to the right of the verb in embedded clauses: (5) adat Jan zija boek op de tafel vond that John his book on the table. bthat John his book on the table. bthat John his book found on the table. that John his book found on the table.	The PPs in (5) are adjuncts, whereas the PP in (3) is predicative. Only the former may appear to the right of the verb in embedded clauses in Dutch. The examples in (6) show that Small Clause predicates must appear to the <i>immediate</i> left of the verb in embedded questions. <sup>2</sup>	<ul> <li>(5) adat Jan de TV uit steeeds zet that John the TV out all the time putsthat John the TV out all the time putsthat John the door red again paintsthat John the door red again paintsthat John the book op de takel weer legt that John the book on the table again putsthat John the book on the table again putsthat John Mary intelligent nog altight finds "that John Sail considers Mary intelligent."</li> </ul>	Again, adjunct PPs differ from predicative PPs: (7)dat Jan zija boek op de tafel weer vond that John his book on the table aguin found "that John found his book aguin on the table."	Small Clause predicates need not be left adjacent to the verb selecting the Small Clause. Left adjacency to the verbal cluster suffices:	$^{2}$ (6c) should not be confused with the complex particle constructiondat Jan het beek op de tatle tark targ tage "that John puts the book back on the table". In this construction, targ 'back 'back is the predicative element, and op de taff is a nonpredicate, which can appear to the right of the verb in embedded clauses. On stranded prepositions, see below.
	be Licc bat	وتا وتو مراجع	in of ili	Ë			

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assuming that all types of complements start out from the same basi position, we would have to conclude that the VP in Dutch is head final. I will argue that this problem can be removed in the same way as the basic position of Small Clause complements is to the left of the verb. Stil

arguments suggest that there exists a separate functional projection, the Predicate Phrase (PredP), which is designated for the licensing of embedded predicates. This functional projection is located between AgrOP and VP, and its head (Pred) must be thought of as having a strong N-feature in Dutch, triggering movement of the Small Clause predicate to first problem was. I will present arguments to support the hypothesis tha Small Clause predicates are not in their basic position in Dutch. Th

predicates in Dutch provides no evidence for or against the head initia status of the Dutch VP. the specifier position of PredP in overt syntax. The upshot of this analysis is that the position of Small Claus

In section 2.3.2, the relevant aspects of the syntax of Small Clauses i Dutch are discussed. In section 2.3.3, the arguments for the existence of the Predicate Phrase and for the overt predicate movement in Dutch wi be presented.

## 2.3.2 The Syntax of Small Clauses

Small Clause predicates in Dutch always appear to the left of the verb a. Adjacency effects embedded clauses:

- ..dat Jan de TV uit zet that John the TV out puts ...thatJohn turns of the TV. ...dat Jan de TV zet uit that John the TV puts out đ Э
  - × ف
- ଷ
- rood paints Jan de deur rood verft John the door red paints John paints the door red." puints verft Jan de deur John the door -dat that ".that J. -dat that Ŧ ۵ ಷ
- -dat that સં ଡ

legt

- legt op de tafel puts on the table ¥ ۵

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- ..dat Jan de TV uit heeft gezet that John the TV out has put ..thatJohn turned the TV off. ..dat Jan de deur rood wil verven that John wants to paint the door red." 4 ම
  - <del>م</del>.

The Small Clause predicates in (S) may also appear inside the verbal cluster, to the left of the verb selecting the Small Clause:<sup>3</sup>

- તં ම
- ..dat Jan de TV heeft uit gezet that John the TV has out put "..that John turned off the TV." ...dat Jan de deur hoeft rood geverfd that John the dor has red puinted "..that John painted the door red." **ئ**

In Standard Dutch, phrasal predicates may only appear to the left of the verbal cluster as a whole, not inside the cluster:

- ц (10) а
- ...dat Jan het boek op de tafel heeft gelegd that John the book on the table has put "..that John put the book on the table." that John Mary intelligent must find that John has to consider Mary intelligent" à,
- a. "...dat Jan het boek heeft op de tafel gelegd that John the book hus on the table put
   b. \* ...dat Jan Marie moet intelligent vinden that John Mary must intelligent find

stylistic rather than grammatical factors. The constructions in (11) are perfect in West Filemish. For this reason, I do not think that the contrast between (8-9) and (10-11) should be explained by assuming optional incorporation of the Small Clause predicate into the verb in (8-9).<sup>4</sup> However, Hoeksema (1993) shows that this is a recent development, dating from the 19th century, and that this development is caused by

<sup>3</sup> Inside the verbal cluster, the Small Clause predicate does not have to be to the immediate left of the verb selecting the Small Clause, witness examples like *dat Jac de TV keeft uit nexes retert that* John the TV has our nurst put (E Bennia 1992). In Weet Flemish, this is also possible with phrasel Small Clause predicates (Vanader 1970;146, *dase ous necestar near hais laren gear* 'that they us must-PAST to house let go "that they had to let us go bome").

\* For an analysis involving predicate incorporation, see Koster (1993).

DUTCE AS AN SVO LANGUAGE	<ul> <li>(17) a dat ik Jan grateran hob horen zingen that I John yerterday hard John sing. "harl I yesterday hard John sing."harl I yesterday bard John sing. "harl I yesterday praked John into the ditch." hare I John yesterday the ditch in pushed have bear in (17b). The subject of the durate I on yesterday modifies the verb selecting the clausal complement, i.e. horer hear' in (17a) and geduwd hob that (17b). The subject of the durated complement, Jan in both cases, appears to the left of the adverh, indicating movement, Jan in both cases, appears to the left of the adverh, indicating movement, Jan in both cases, appears to the left of the adverh, indicating movement, Jan in both cases, appears to the AgrOP in the AgrOP in the AgrOP in the higher datasal complement can be moved to a licensing position in the higher datase, but also all other constituents of that complement also shows the distributional Gese marking complement also shows the distribution differentiating movement to the specifier position of AgrOP in the higher clause."</li> <li>(13) dat it Jan dat led grateran heb horen zingen that I John that song yeterday have hear sing "hat I yeterday heard John sing that song." "that I yeterday hourd hon sing that song." Taken in (18), appears to be licensing routing requirements and the scoptional Case marking complement as a whole: all its elements are licensing position.</li> <li>(13) dat it dat lease through raising to horen fast the subject and the predicate of the Small Clause. This means that the subject of the Small Clause of the Small Clause in the next section that the Small Clause separately." I will asrue that the subject of the Small Clause of the Small Clause is the subject of the Small Clause.</li> </ul>	<sup>14</sup> It would be more correct to say that the AgrOP in question belongs to the domain of the auxiliary <i>heb</i> 'have', but that is irrelevant at this point. <sup>25</sup> The only restriction here appears to be that the objoint of the embedded clause move to an AgrOP to the right of the AgrOP scaupied by the subject of that chause. <sup>25</sup> See section 2.4. It is generally assumed that the phanomenon whore a past participle is replaced by an infinitive verb form indicates that the phanomenon whore a past participle is treplaced by an infinitive verb form indicates that the infinitive verb is the target for raising of the verb in its complement. If we assume that adjunction invariably takes place to the left, this verb raising cannot be overt in Dutch.
DUTCH SYNTAX	In addition to the constructions illustrated here, Small Clause predicates may appear as fronted elements in topicalizations and locative inversion constructions. I will leave these out of consideration here. <sup>6</sup> b. The Structure of Small Clauses All I intend to do here is to make some basic assumptions concerning the structure of Small Clauses are thought of as complete subject. Traditionally, Small Clauses are thought of as complete subject predicate configurations which lack independent inflectional features. I will adopt this traditional view, and assume that Small Clauses do not have their own functional view, and assume that Small Clauses do not have their own functional view, and assume that Small Clauses of the predicate fits independent inflectional features. I will adopt this traditional view, and assume that Small Clauses of the Small Clause are sisters, and that the cubject and the predicate fits the Small Clause are sisters, and that the cubject and the predicate fits the Small Clause are sisters, and that the cubject of the Small Clause are sisters, and that the cubject and the predicate fits the Small Clause are sisters, and that the cubject of the Small Clause are sisters, and that the cubject of the Small Clause are sisters, and that the cubject of the subject of the subject of the Small Clause are sisters, and that the conventional will therefore adopt this position, leaving the categorial status of the Small Clause are specifier, and a complement. <sup>9</sup> I will therefore adopt this position, leaving the categorial status of the formation of the verb selecting the Small Clause. I therefore assume that the subject of a small Clause with the subject of a neady a specifier position of the verb selecting the Small Clause. I therefore assume that the subject of a small Clause with the subject of the embedded that the subject of the entional domain of the verb selecting the Small Clause. I therefore assume that the subject of the entioded in the specifier position of the verb selecting the Small Clause.	<sup>4</sup> I agree with Hoekstra and Mulder (1990) that locative inversion is movement to the extractant static position. For arguments that this construction is also present in Dutch, see Zwart (1992a) 1980. <sup>5</sup> See Den Dikken (1992a) and Mulder (1992) for more thorough investigation of the issues involved. <sup>6</sup> I assume that the agreement between the Small Chause subject and the Small Chause bredicate which is visible in Cuase marking languages (cf. Multing and Spouse 1991) is not mediated by functional external to the Small Chause. See Zwart 1992d. <sup>8</sup> This has sometimes led to the confusing use of the word 'head' to designate the (phrasal) predicate of the Small Chause. <sup>8</sup> See Kayne (1993) for conceptual arguments, and Den Dikken (1987) for empirical argumentation. Den Dikken (1982) in addition presents arguments to show that the complement of a semillentary.
324	In addition to the o predicates may appear as i inversion constructions. I' b. The Structure of Small All I intend to do here is to structure of Small (Jauses structure of Small (Jauses intext section, ' Traditionally, Small (Jauses will adopt this traditional vi inside the Small Clause i Another traditional vi inside the Small Clause i Small Clause is identical Small Clause unspecified. If Small Clause i subject of a Small Clause i the verb selective subject of a Small Clause i subject of a Small Clause i the verb selective subject of a Small Clause i subject of a Small Sm	<sup>4</sup> I agree with Hoekstra and I structural subject position. For Zwart (1992a), 1992a). Zwart (1992a) and Zee Den Dikken (1992a) and involved. <sup>4</sup> Tassume that the agreement involved. <sup>4</sup> This has sometimes led to the predicate of the Small Clause. <sup>8</sup> See Kayne (1993) for conce argumentation. Den Dikken ( complement of a Small Clause.

DUTCE AS AN SVO LANGUAGE 327	As for the particular case of Small Clause predicates, it has long been felt that a special relation exists between these predicates and the verb selecting the Small Clause as its complement. Many phenomena suggest that the verb and the Small Clause medicate function as a complex	predicate, with the subject of the Small Clause as its complement. For predicate, with the subject of the Small Clause as its complement. For example, the verb and the Small Clause predicate can be nominalized	together, with the subject of the Small Clause appearing in a prepositional phrase:	(13) a. het op de tafel leggen van een boek the on the subseptiming of a book	b. het rood une subject of a coort b. het rood verven van de deur b. od nointier of ba door	painting 1	In this respect, the combination of the verb and the Small Clause predicate behaves exactly like a single verb:	(19) a. het lezen van een boek	the reading	the painting	The complex predicate character of the verb-predicate combination,	however, cannot be expressed in the initial stage of the derivation. This	is occause in the Smail Clause analysis, which we assume throughout, the Small Clause predicate is generated first in combination with the Small	Clause subject, and this subject-predicate combination is subsequently	combined with the verb. Therefore, the complex predicate character of the verb-predicate	combination must arise in the course of the derivation. The hypothesis I	would like to argue for here is that the Predicate Phrase, occupied at LF	by the structural chause premients and the vero serecting the structure expression of the complex predicate character of the verb-	predicate combination. This implies that in (18) the Predicate Phrase is the input for the nominalization onestion (thought of in terms of Almey 1987 with a	nonmial functional head turning a verbal or projection into a nominal one,	consider other nominalizations in Dutch. Consider for instance the	following nominalizations of an exceptional Case marking construction:	<sup>17</sup> In minimalist terms, this could be analyzed as a verbal projection (e.g. a VP, an AgrOP, etc.) being combined with a nominal functional head by generalized transformation.
																	····.						
DUTCH SYNTAX	predicate moves to a designated licensing position in the functional domain of the verb selecting the Small Clause as its complement. <sup>16</sup>	io PredP	After these preliminaries, let us return to the question of the structure of the VP in Dutch. Since Small Clause predicates invariably appear to the	lett of the verb in embedded diauses, we must conclude that the ver in lutch is head final, unless it can be argued that Small Clause predicates are not in their basic position.	Notice that if Small Clause predicates are not in their basic position	but in a neeroning posteroid, we do not experi mean to one show any one in V). This is right of the verb in embedded clauses (assuming the verb is in V). This is	because movement to a licensing position is obligatory, and licensing invariably takes place in a specific-head onfiguration. Since specifiers are almost accounted to be on the left this would have the result that	sue aways assumed to be on the same and the left of the verb in	embedded clauses in Liutch. We therefore have to consider two questions. First, is it reasonable to	posit a licensing position for Small Clause predicates in general? Second,	is there any empirical evidence for the existence of overvictuating of the Small Clause predicate to this licensing position in Dutch?	To answer the first question, consider the outlook of the grammar in	the minimaist approach. In this approach, syntax cousies of two parts. generation of elements in a head-complement or subject-predicate relation,	and licensing of the same elements in a specifier-head configuration	(actually, a specifier-frojection contiguration, ct. 1.3.2). 10 actueve maximal generality, we would have to assume that all elements that are	generated in the complement domain of a head must at some point be	licensed in a specifier-head configuration. It is then an empirical matter	to determine the nature of the relevant specification movement to the relevant to determine at what point in the derivation movement to the relevant	specifier positions takes place.	<sup>14</sup> Den Dicken (1992a) argues that the particle appearing in Small Clause constructions is the head of the Small Clause. I must eachew a discussion of the many issues involved. I will	ie particle is the head of the Small Clause, the sister of the Small Clause 1 as its analizate. This will ensure that the natricle is included in the	predicate ruising out of the Small Clause. If somehow the particle is included in the complement of the (empty) head of the Small Clause, we can assume that only this complement moves	<sup>16</sup> These remarks abstract away from the question of generation and licensing of adjuncts.
326	predicate mo domain of the	2.3.3 Raising to PredP	After these pr the VP in Dut	lett of the ve. Dutch is head are not in the	Notice tha	right of the ve	because mov invariably tal	small Clause	embedded cis We theref	posit a licens	is there any Small Clause	To answe	the minimali generation of	and licensin	(actually, a maximal zen	generated in	licensed in a	to determine	specifier posi	<sup>16</sup> Den Dikken ( the head of the S	assume that, if	predicate raising o complement of the	10 These remark

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 a. het horen zingen door Marie van liedjes the hearing sing by Mary of songs

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- the hearing sing by Mary of sougs "hearing Mary sing songs" - Learne sing songs"
  - b. het liedjes horen zingen door Marie the songs hearing sing by Mary
    - the songs hearing sing by Mary "bearing Mary sing songs" . het Marie Medie koren zingen the Mary songs heering sing
      - the Mary songs hearing sing "hearing Mary sing songs"

In (20a) the verb selecting the exceptional Case marking complement *inven*. Thear is nominalized together with the verb of the complement *ingren* 'sing'. The subject and the object of the complement clause appear in prepositional phrases. In (20b), the object of the complement clause appear included in the nominalization. On our assumptions, this indicates that an AgrOP is part of the verbal projection that is turned into a nominal projection at some higher point in the tree (à *la* Abney 1987). In (20c), finally, the subject of the complement dause is a subpart of the nominalization, indicating that a second AgrOP is present in the verbal subpart of the nominalization structure. Hence, there is no reason why a Predicate Phrase should not be a possible input to the nominalization operation, yielding (18).

I conclude that the Predicate Phrase hypothesis is not conceptually unattractive. Crucial, however, is the second question: is overt movement to the Predicate Phrase (from now on, PredP) empirically supported in Dutch?

To answer this question, consider again the distribution of Small Clause predicates in Dutch. These invariably appear to the left of the verb in embedded clauses, almost always adjacent to it. The adjacency could in principle indicate that both are in their basic position, or in a specifierhead configuration. Consider now the single element that is allowed in between the verb and the Small Clause predicate: a stranded preposition. Crucially, as the examples show, this is often the head of an adjunct PP, not an element of the Small Clause. Let us assume that it is generated as an adjunct to the VP (the maximal projection of the verb selecting the Small Clause).

Now if the verb and the Small Clause predicate are in their basic position, the stranded preposition could only intervene by lowering. On the other hand, if the verb and the Small Clause predicate are in a specifierhead configuration, the stranded preposition might intervene by raising from its position adjoined to the VP to the head of the PredP.

Lowering is a distinctly suspect operation in generative syntax. But lowering of a stranded preposition appears to be a pointless operation all in itself. Since the distribution of stranded prepositions is so limited, it is plausible that preposition stranding involves two operations: extraction of

a noun phrase out of a PP, and raising of the head of that PP. Since PPs are generally islands (Van Riemsdijk 1978), we may assume that this head movement is necessary to make extraction out of the PP possible. It is well known that movement of the head X of XP to a position Y commanding XP lifts barrierhood of XP (Chomsky 1986b:69). If adjunct PPs are adjoined to VP, they are also commanded by the head selecting VP.<sup>13</sup> Movement of P to this head therefore has the desired effect of making PP transparent. Lowering P, on the other hand, would be of no avail.

The distribution of stranded prepositions therefore decides in favor of the PredP hypothesis. Hence, we must assume that the (near) adjacency of the Small Clause predicate and the verb selecting the Small Clause is due to the circumstance that the predicate and the verb are in a specifierhead configuration. We must also assume that stranded prepositions, when intervening between the Small Clause predicate and the verb in Pred, are adjoined to the verb in Pred.<sup>19</sup>

This analysis at the same time explains why stranded prepositions do not appear to the right of the verb in embedded clauses, and why full PPs do not appear between the Small Clause predicate and the verb. The latter fact follows from the impossibility of adjoining phrases to heads. The former is explained by the fact that PPs are islands: this makes it necessary in extraction constructions for the P to move to a head o commanding the PP. This can only be a functional head, which are all on the left in Dutch, as we have seen.<sup>20</sup> When no extraction takes place, there is no need for the P to move to Pred, hence the adjunct PP may remain in postverbal position. This, then, yields the standard 'PP-over-V' effects.<sup>21</sup>

<sup>18</sup> All maximal projections dominating the head in question also dominate the PP adjoined to VP. <sup>10</sup> As illustrated in section 2.3.2, the stranded preposition may also precede the Small Clause predicate. This follows if adjunct PPs are not necessarily adjoined to VP. If adjoined higher, the strandod preposition would have to move to a higher functional head in order to obtain the desired result of lithing barrierhood of the PP. Since adjunct PPs may appoar to the left of the Small Clause previotate as well, this distribution of the stranded preposition is actually predicted. For a slightly different analysis, see Koster (1993).

<sup>28</sup> This analysis must be supplemented by the assumption that adjunction of the stranded preposition is always left-udjunction. This is inevitable, if Knyne (1993) is correct.

<sup>21</sup> It is not clear to me why PP-over-V is much more limited in Standard German. On PP extraposition from NP, see Zwart (1990c). I agree with Kayne (1993) that these constructions should be rethought, excluding the possibility of movement to the right. For some possibilities, see Kaan (1992).

DUTCH AS AN SVO LANGUAGE	<ul> <li>(23) a. De ouders mankten de oudste zoon de rijkste the parents made the eldest son the richest (oae)</li> <li>b. De oudste zoon, dier<sup>4</sup>dat maakten de ouders de rijkste the eldest son MASCANTR made the parents the richest</li> <li>"The eldest son the parents made the richest ore."</li> <li>c. Po rijkste, dat/"die maaken de ouders de oudste zoon the richest one, tharfs made the parents the eldest son</li> <li>c. The richest one, tharfs what the parents the eldest son</li> </ul>	Given that it is not in the power of parents to change the relative age of their children. de rijkste 'the richest one' must be the Small Clause predicate in (23). As can be seen, the Small Clause predicate must be resumed by the neuter d-word dat, whereas the Small Clause subject must be resumed by the agreeing d-word die. Applying this test to (21) shows that kooplieden merchants' is the Small Clause predicate. <sup>23</sup>	(24) Kooplieden, dat"die zijn het merchants SGFL are it "Merchants, that's what they are."	Kooplieden also has to be adjacent to the verb in embedded clauses: (25)dat het kooplieden ("nog altijd) zijn tiat it merchants still are "that they are still merchants."	Recall that indefinite objects in general may appear to the left of sentence adverbs:	(26)dat Jan Kooplieden (nog altijd) haat that John merchaars still hates ".that John still hates merchaars."	(26) is grammatical, be it that <i>kooplieden</i> receives a strong, generic interpretation (unless <i>kooplieden</i> is focused by a special intonation). Hence, <i>kooplieden</i> in (25) is significantly less mobile than <i>kooplieden</i> in (26). This indicates again that <i>kooplieden</i> in (25) is the Small Clause predicate.	<sup>22</sup> Kooplieden, die zijn het (merchants, theso are it) is grammatical when <i>het</i> is interpreted as a predicate which receives its interpretation from the context (e.g. when <i>het</i> is understood as 'corrupt' or 'bonest'). In that case, <i>kooplieden</i> must be analyzed as the subject of the Small Clause.
	by he he	sr. he	đ		ate	55) ive ize.	i is ays ays	ave

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PPs are adjoined to the right of the VP (a possibility rejected by Kayne 1993). If they are adjoined to the left of the VP, they will end up to the right of the verb after verb movement to Pred has taken place.<sup>22</sup> Notice that on this analysis it is not necessary to assume that adjunc

Additional empirical evidence in support of movement of the Small Clause predicate to the specifier of PredP in Dutch is provided by phenomena involving agreement and extraction. Agreement between the Small Clause predicate and the verb also

presents evidence that the verb and the predicate have to be in a specifier head configuration. This agreement phenomenon shows up when the Small Clause predicate is a noun phrase, as in (21):

kooplieden Hot (21) a.

- zijn~is kooplieder are-PL/is-SG merchants
- ف
- it are-ruis---"They are merchants." Het zouden/"zou kooplieden kunnen zijn it should-PL/SG merchants an be it should-PL/SG merchants

The Small Clause subject het 'it' normally triggers singular agreement or the verb, as (22) shows:

gek crazy Het is/\*zijn it is-SC/are-PL Tt's crazy." (33 (33

The existence of number agreement between the Small Clause predicat and the verb supports the idea that a licensing position for Small Claus predicates exists.

It is clear that kooplieden in (21) is a predicate. De Vries (1910:55 d-word dat when they are topicalized, instead of the agreeing d-word di This can be illustrated by the following paradigm: shows that predicative noun phrases take the non-agreeing resumptiv

<sup>27</sup> For this analysis to work, we have to assume that Pred contains a V-feature which is strong in Dutch. Moreover, for the PP-over-V analysis to apply generally (i.e. left adjunction of PPs with short verb movement to Pred), we would have to assume that PredP is advany present, even if no embedded predicate exists. This suggests that PredP is not merely designed to itcensing embedded predicates, but has a more general function. I will leavy speculations on this topic aside.

DUTCH AS AN SVO LANGUAGE 333	It thus appears that there is sufficient empirical support for the existence of a Fredicate Phrase, as well as for overt movement of the Smail Clause predicate to the specifier position of this Fredicate Fhrase. Returning now to the issue of the structure of the VP in Dutch, we can safely say that the position of Small Clause predicates in Dutch has no bearing on this issue. In other words, the position of Small Clause predicates in Dutch provides no evidence for the SOV status of Dutch, nor problems for its SVO status.	2.4 Verb Raising and Extraposition' 2.4.1 Introduction	The two preceding sections have served to dispel potential arguments in support of the hypothesis that the Dutch VP is head final. It was argued that indefinite objects move to the specifier position of ArOP, and that Small Clause predicates move to the specifier position of PredP. Consequently, the fact that indefinite objects and Small Clause predicates invariably appear to the left of the verb in embedded clauses does not reveal the basic structure of the VP in Dutch. Part of the analysis of the syntax of Small Clause predicates has been that the verb (in embedded clauses) moves up to the head of the PredP, thus explaining the structure of the VP in Dutch. In particular, the transparency of clausal complements becomes intrelevant for our concerns. <sup>1</sup> Consider the examples in (1):	<ul> <li>adat Jan zei dat hij Marie gekust had that John suid that he Mary kissed had "that John suid that had kissed Mary."</li> <li>b. Wie denk je dat Jan zei dat hij gekust had? who think you that John suid that he kissed had "Whe do you think John suid ho had kissed."</li> </ul>	The transparency of the clausal complement of zei 'said' is explained if the complement clause is L-marked by the verb. Since adjunct clauses are islands, we must assume that clauses can only be L-marked by the verb if the verb and the clause are in a sisterhood relation. Hence, we can	ا. Thanks to Teun Hoekstra and Anders Holmberg for pointing this out to me at an early stage of this research.

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To see the evidence from extraction phenomena, consider what happens when the subject of the Small Clause is not a noun phrase but

-dat Jan belangrijk vindt (dat hij zijn rijbewijs haalt) that John important finds that he his driver's license gers ".that John considers it important that he gets his driver's license." 33

a clause. This occurs in constructions like the following:

(27) has a variant in which het it' appears to the left of the predicate belangrijk 'important':

...dat Jan het belangrijk vindt [dat hij zijn rijbewijs haalt] that John it important finds that he his driver's license gets "..that John cossiders it important that he gets his driver's license." (28)

differ only in the presence or absence of *het*, receive significantly different analyses. When *het* is present, it must be regarded as the subject of a Small Clause; in that case, the postverbal clause is an adjunct clause. When het is absent, on the other hand, the postverbal clause itself is the Following Bennis (1986), I assume that sentences (27) and (28), which subject of the Small Clause.

This analysis predicts that extraction out of the postverbal clause is only possible when *het* is absent (cf. Hoekstra 1933). This prediction is borne out in the pair (27)-(28):

- ц д д
- dat Jan belangrijk vindt [dat hij haalt]? that John importaat finds that he gets dat Jan het belangrijk vindt [dat hij haalt]? that John it important finds that he gets a. Wat denkje č what thinkyou t b. \* Wat denkje č what thinkyou t

analysis of these clauses. The facts suggest that the postverbal clause is in its basic position in (29a), but not in (29b). The proposed analysis, involving raising to PredP, again brings a The transparency of postverbal clauses argues against an extraposition

force movement to AgrOP. As a result, the clausal Small Clause subject must be assumed to stay in its place in (27) and (29a). Then, in the absence of movement of the Small Clause predicate to the specifier position of PredP, we would expect the Small Clause predicate to appear to the right of the clausal Small Clause subject, contrary to fact: solution. Let us assume that clauses lack the morphological features that

belangrijk important ...dat Jan vindt [dat hij zijn rijbewijs haalt] that John finds that he his driver's license gets <u>8</u>

The ungrammaticality of (30) is explained by the obligatory movement of the Small Clause predicate to the specifier position of PredP.

DUTCH AS AN SVO LANGUAGE	(2)dat Jan verteld zal hebben dat hij Marie gekust heeft that John told will have that he Mary kissed has "that John will have told that he kissed Mary."	In the verbal cluster in (2), <i>verteld</i> 'told' is a past participle, <i>zal</i> 'will' is the inflected modal verb, and <i>kebben</i> flave' is an infinitival auxiliary. The modal verb selects the infinitival auxiliary, and the auxiliary selects the past participle. The cluster thus can be characterized as 3-1.2, where the numbers reflect the hierarchical order of the verbs in the cluster. Assuming that each verb heads its own VP, we must conclude that the encedded clause in (2) contains three hierarchically ordered VFs, the lowest of which contains the clauseal complement <i>dat hij Marie gekust heeft</i> 'that he kissed Mary'. Let us now assume that the three VPs in (2) are all head final, as illustrated in (3).	Prod Prod Prod Prod Prod VP, V, V, V, V, V, V, V, V, V, V, V, V, V,	Consider how the word order in (2) can be derived from the underlying structure in (3). The verbal cluster as a whole will have to end up in Pred, in order to derive the fact that the cluster precedes the complement clause ( <i>CP</i> ). This can be done by adjoining $V_3$ to $V_2$ , followed by adjunction of the two-verb cluster to $V_1$ , followed by adjunction of the three-verb cluster to Pred. On closer scrutiny, however, this derivation will fail to yield the correct order of verbs in the cluster, which is 3-1-3. This order cannot be derived when $V_3$ is first adjoined to $V_2$ . We therefore have to first adjoin $V_2$ to $V_1$ , followed by adjunction of $V_3$ to the two-verb cluster, followed by adjunction of the three-verb cluster to Pred. Alternatively, the two-verb cluster could
1964) <del>-</del> 1				

safely assume that the clause dat hij gekust had 'that he had kissed' is in its basic position.

However, this does not allow us to conclude that the VP in Dutch is head initial. If the verb zei 'said' is not also in its basic position, nothing excludes a derivation in which the verb starts out from a position to the night of the complement clause. Since we have found evidence in the previous section that there is short verb movement to Pred in Dutch, (1) provides no empirical evidence either way.<sup>2</sup>

However, as I will show in section 2.4.2, (1) does in fact reflect the basic order of the VP in Dutch. This becomes apparent when the single verb zei in (1) is replaced by a verb cluster. It can be demonstrated that in that case, the assumption that all VPs involved are head initial makes a simple and elegant derivation possible, whereas the assumption that all VPs are head final yields a derivation which lacks a consistent direction of adjunction.

This point will be further strengthened in section 2.4.3, on Verb Raising in Dutch, German, and dialects of the two languages. The analysis leads to the conclusion that the SVO hypothesis allows us to dispense with the operation of Verb Projection Raising.

## 2.4.2 Verb Clusters in Dutch

Let us return to (1a) and replace the single verb zei 'said' by a verb cluster like *verteld zal hebben* 'will have told'.<sup>2</sup>

Journeurs on concerning are neuronary of an anticoverse, proceedings on the second solution of the second of the second solution 2.3. In that case, we cannot exclude the possibility that the PredP is always present. Second, adjuncts may intervene between the ambedded very and its complement character may intervene between Piet dat hij zou korren that the DredP is always present. Second, adjuncts that the avent of the ambedded very advinged to the ambedded very and its complement character second adjuncts that present Piet dat hij zou korren that the character second that would come, an observation Kann 1922.101 ascribes to Jack Efoelsema). This is explained under the short verb movement approach to PP-over-V phenomena taken in section 2.3.3. the adjuncts on the adjuncts intervene to react be stopped by these verb on its way to Pred. The possibility of having adjuncts intervene is not restricted to those constructions in which there is a Small Clause prediction (hence, movement to Fred do not carry over to (1), because there is no embedded predicate in (1). Consequently, the presence of a FredE in this construction would be outleabue. If so, (1) would be admissible as emprised workence supporting the SYO status of Dutch There are several reasons to leave this a most point, however. First, it could be that the FredE is not several reasons to leave this a most point, however. First, it could be that the FredE is not under the present assumptions, a PredP). Extractability appears to be decreasing in the relevant constructions, but judgments are difficult. In view of these potential arguments in favor of generalized short verb movement, I will take the word order in (1) to be irrelevant. <sup>2</sup> One could argue that the conclusions reached in section 2.3.3 concerning short verb just there for checking the features of an embedded predicate, but also for checking a certain <sup>2</sup> This has no effect on the transparency of the complement clause.



be adjoined to Fred, and  $V_{\rm s}$  could be adjoined to this cluster in Fred. Both derivations yield the correct word order.

Notice, however, that these derivations can only be successful if  $V_2$  adjoins to the right of  $V_1$ , and  $V_3$  adjoins to the left of the  $V_1$ - $V_2$  cluster. In other words, if we start from a head final basic order, we cannot derive the surface order in (2) by sticking with a consistent direction of adjunction.

I do not need to mention that it would be more attractive if (2) could be derived with a single consistent adjunction operation.<sup>4</sup> However, it could be the case that past participles have to be distinguished from infinitives, and that the direction of adjunction is a function of the morphological distinction between past participles and infinitives.

This would help in the case of (2). However, the 3.1.2 order in the verbal cluster in (2) is not the only one allowed in Standard Dutch. Next to (2), (4) is also possible.

The cluster in (4) has the order 1.2.3. The three verbs have the same morphology and the same function as in (2). The only difference is that the past participle appears at the end of the cluster instead of at the beginning.

beginning. Unlike the cluster in (2), the cluster in (4) can be derived by adjoining  $U_{n}$  like the cluster in (2), the two-verb cluster to V., followed by  $V_3$  to  $V_2$ . followed by movement of the two-verb cluster to bred. However, this would have to invorment of the three-verb cluster to Pred. However, this would have to involve a consistent right adjunction. Even if we accept this as a possibility allowed by Universal Grammar (cf. note 4), we would have to drop the generalization that past participles adjoin to the left.<sup>6</sup>

Hence, on the OV hypothesis, there can be no consistent direction of adjunction, neither in general, nor as a function of the morphological character of the verb.

Consider how (2) and (4) could be derived if we start from a sequence of head initial VPs, as in (5):

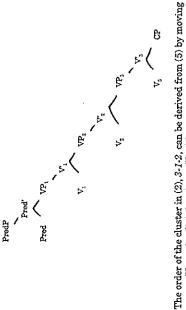
\* Recall from section I.3.3 that Kayne (1993) argues on conceptual grounds that left adjunction is the only possible adjunction operation.

 $^{\circ}$  The cluster in (4) also has another derivation, in which the V<sub>2</sub>-V<sub>1</sub> cluster is created first, and V<sub>3</sub> is right adjoined later on, before or after movement of the duster to Pred. The conclusion remains that past participles must be allowed to adjoin to the right to derive (4) from a head final basic roted.



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Ine order of the cluster in (2),  $\sigma$ -1-2, can be derived from (5) by moving  $V_3$  across  $V_2$  and adjoining it to  $V_1$ . Notice that this would be left adjunction. Alternatively,  $V_1$  can move to Pred first, and  $V_3$  can adjoin to  $V_1$  in Pred, again by left adjunction.

The nonlocal character of the adjunction of  $V_3$  to  $V_1$  may seem unattractive. But this nonlocal movement is also present in the derivation of (2) starting from the structure in (3).<sup>6</sup> Recall in addition, that I have argued independently at several places in this book that economy of derivations should not contain a requirement that steps be as short as possible. This makes the proposed adjunction a theoretical possibility. The movement is furthermore allowed if it is triggered, but this aspect of the syntax of verb raising is not under consideration here, anymore than it was in the evaluation of the derivations starting from an OV structure.

Hence, (2) can be derived from (5) by a single left adjunction. The derivation of the cluster in (4) is even more straightforward. The required order, 1-2-3, is already present in the basic structure in (5). We do not have to assume any movements, other than the short verb movement of V, to Pred.

Under this analysis, the sequence of verbs in (4), and partly also in (2), is not, strictly speaking, a cluster. Hence we predict that the verb sequence can be broken up by other lexical material. We will see in section 2.4.3 that this is generally correct. <sup>4</sup> This is because V<sub>2</sub> crosses the potential landing site V<sub>2</sub> if it adjoins to the V<sub>1</sub>-V<sub>2</sub> cluster in V<sub>1</sub>. Notice that the equidistance principle of Chomsky (1992:24) does not apply to bead morement, since a bead dis not contained in the minimal domain of the chain resulting from head morements ince

DUTCH AS AN SVO LANGUAGE 339	verb sequence, even if this yields an order which does not appear to have a systematic counterpart in any Dutch dialect, such as the order in $(4)^3$ . This observation raises the question whether the order of the verbs in (4) and $(5b)$ is due to a linearization rule, or whether the language user creates these orders by ignoring the morphological character of the past participle, thus treation is this an ordinary infinitive. Only in the latter case can the variation be described in structural terms. When the verb cluster in Dutch contains a modal verb $(V_1)$ and an infinitive $(V_2)$ , the order $1\cdot 2$ is clearly favored in both written and spoken Dutch (Stroop 1970:254, 256): <sup>3</sup>	<ul> <li>(8) a. ?dat Jan Murie kussen wil that John Mary kiss waals "that John waars to kiss Mary."</li> <li>bdat Jan Mary wait kussen that John Mary waats kiss ".that John wars to kiss Mary."</li> <li>When the verb cluster contains more verbs, the 3-1-2 order with V<sub>1</sub> an</li> </ul>	infinitive is impossible (cf. Shroop 1970:256); (9) a. * .dat Jan Marrie kussen zal willen that John Mary kiss will want "that John will want to kiss Mary." bdat Jan Marie zal willen kussen that John Mary will want kiss "that John will want to kiss Mary."	I suspect that the order <i>I-2</i> in (5b) and the order <i>I-2-3</i> in (4) are modeled on the comparable orders in (3b) and (9b) where the most deeply embedded verb is an infinitive. If so, a linearization rule is not needed to account for (4) and (6b). The orders result from treating the past participles as infinitives. In the OV-analysis, this leads to right-adjunction	<sup>6</sup> The puristic tendency to avoid verb sequences ending with the inflected auxiliary is in all probability also responsible for the word order phenomena reported in Michabs (1958), Verhauselt (1951), and Sassen (1963), in the relevant constructions, Small Clause predicates with the morphological single of a part participle or a z-infinitive optionally appear to the right of the inflocted auxiliary (mostly a form of zijn 'be) in an embedded clause. Examples:dis net flocted auxiliary (mostly a form of zijn 'be) in an embedded clause. Examples india net flocted auxiliary (mostly a form of zijn 'be) in an embedded clause. Examples:dis net types are proof, who are not exartly under auxiliary (mostly or the restored to the right of the inflocted auxiliary (mostly or the restored in the order auxiliary (mostly a form of zijn 'be) in an embedded clause. Examples:dis net type and the restored in the order or the restored in the restored in the restored in the restored one. Leventurer is in both cases, the auxiliary final order is the outlet order is used quite froquently in written Dutch. Heaverya (1990:39) notes that the predicate-final order is explicitly preseribed in a 1936 style manual of the averagoper <i>De Volksfroxe</i> .
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Let us first consider the difference between (2) and (4) in a little more detail, in the light of the two analyses under comparison here.

of language contact. As Stroop (1970-258) shows, the verb cluster in (4) is hardly ever used by dialect speakers. Among dialects, the order in (2) is the most popular one. A third order, 3-2-1 (*verteld hebben zal* 'told have will'), is dominant in dialects in the North, and a fourth order, 1-3-2 (*zal verteld hebben* 'will told have') is also attested, albeit with limited What is striking about the paradigm is that the placement of the past participle appears to be optional. This is strange from a minimalist point of view. There is reason to believe, however, that those speakers of Standard Dutch who accept both (2) and (4) are to a certain extent bilingual (cf. Hoekstra 1992b). This bilingualism is probably not the result distribution.

The bilingualism I have in mind is the result of purism. It is also apparent in the less complicated pair in (6):

- đ 9
- ..dat Jan Marrie gekust heeft that John Mary kissed has "that John Sissed Mary" add Jan Marre heeft gekust that John Mary has kinsed ف
  - "..that John kissed Mary."

(6a) and (6b) are both well represented among the dialects of Dutch. However, Stroop (1970:250), following up on earlier research by A. Pauwels, shows that the order in (6a) is overwhelmingly more prominent. Notice that in German, (6a) is the only order allowed:

- German ...daß Johann Maria gekült hat that John Mary kissed hus "..that John kissed Mary" "...that John Maria hat gekült "...daß Johan Maria has kissed <u>م</u> σŝ Э
- and other purists, who, as Stroop conjectures, considered the widely used order of (6a) as a German infiltration.<sup>7</sup> I presume that this language policy has led to a tendency to put the past participle at the end of the Stroop shows that the order in (6b) was favored by copy editors, teachers,

<sup>7</sup> Stroop (1970:252) quotes a 1960 style abeet from the quality newspaper Algemeen Hardelsblod, where the order pass participle-auxiliary was condemned as German and had to be avoided. See Elaeseryn 1990:36f and references cited there for evidence that this puristic policy was still in existence in 1990.

DUTCE AS AN SVO LANGUAGE 341 2010 a dat Jan Maria makrat bakhan ad Markam Durch And	that John Mary kissed have will "that John will have kissed Mary"	b. dat John Marta gekult haben wird that John Mary kissed have will ".that John will have kissed Mary."	The derivation of these clusters requires that $V_x$ be adjoined to the left of $V$ and that $V$ holdborness individual other as $V$ and that $V$ holdborness is $2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 $	$v_1$ , and that $v_3$ we have use its real plued, either to $v_2$ uncerty, or, in a later stage, to the two verb cluster $V_2$ , $V_1$ in $V_1$ or in Pred. <sup>10</sup> Hence, in the OV-	analysis the direction of adjunction must be parametrized. <sup>11</sup> $T_{2}$ the VO and with a must be parametrized.	IN ME VO-ADALYSIS, NO SUCE PARAMENTZAGON IS DEGREG. UN TRE assumption that incorporation is always left-adjunction, the difference	between (10) and (2)/(4) is just a matter of overt vs. covert movement of the infinitival verbs involved <sup>12</sup>	We may conclude that the VO-analysis is superior to the OV-analysis	in its potential to explain the structure of verbal clusters in Dutch.	Therefore, the order of the embedded verb and the complement clause in (1) must be taken to add the basic order the basic order the set into the set of th	complement in the VP.	This conclusion will be strengthened in the next section.				<sup>19</sup> In principle, one could also assume, in the OV-analysis, that verb clusters of the 3-3-1 type involve an advinantion at all <i>Hamanas</i> this mould lanear used and for the 2-3-1 type	order can never be broken up by intervening material.	<sup>11</sup> The Dutch dialects in question and German are standardly analyzed as SOV languages. like Standard Dutch.	<sup>12</sup> I have ignored the possibility that the past participle does not adjoin to a higher verb but	raises to the specifier position of a Pred? Although this would strengthen the argumentation	ы support of the VO-aypothesis advanced in section 2.3, it would also make it harder to refute the OV-hypothesis on the basis of directionality of adjunction. The past participle could	then be assumed to move to the PredP in (2), and adjoin to the right in (4), being treated as	an infinitive, as we have assumed. This would yield right adjunction, but not an inconsistent direction of adjunction. However, the assumption that next narticiples move to the specifier	position of a PredP leaves unexplained that stranded prepositions cannot intervene between	the past participle and the higher verb:	geverld	the brush where you the door red with paulood with have "the brush which you pulated the door red with"	For this reason. I assumed that past participles move to a higher verb rather than to	specifict position.
															-														
340 DUTCH SYNTAX of the past narticiple to the next biober verb in the VO-analysis to	or any your purative or and they are ready and they are ready and a solution of the ready and the ready of the ready are ready and the ready of the read	The only variation which the minimalist program allows is expressed in terms of the strength of morphological features represented in functional heads. If the features are strong, overt movement to the relevant	functional projection is obligatory, if they are weak, overt movement is evoluded This seems to be insufficient to describe the meation of clusters	Apparently, movement of one lexical head to another ( <i>incorporation</i> ) must	be allowed as well, as in Baker (1988), and Chomsky (1992:23). Assuming incornoration to be a universal process. It must exist recently in these	languages which do not show it overtly. This suggests that, again, certain	features are involved which can be either strong or weak. If so, incorporation can be described within the narrow marrins of a minimalist	theory of parametrization.	Crucially, what is not part of a minimalist theory of parametrization	is arectionating of adjunction (section 1.3.3). It complex patterns of parametric variation can be described by employing the strong/weak	distinction only. this appears to be the desired analysis from the	minimalist point of view.	In the VO-analysis, the contrast between (2) and (4) can be described in these minimulist terms The edimetrics in (9) is due to effective	triggering adjunction of the past participie to the highest verb. As (8) and	(9) show, the trigger is somehow related to the morphological properties	of past participles: infinitives are not affected by the same trigger. (4) can	uten oe described by assuming toak past partuches in tuis type of construction are treated as infinitives, which again eliminates the trigger	for movement.	In the OV-analysis, there must be a trigger for incorporation of the	intitutives and for adjunction of the past participle to the highest verb. The derivation of (4) follows straightforms reliv on the assumption that	and desired of (12) source su argament and 13) on the assumption that past participles are treated as infinitives in these constructions. However.	the derivation of (2) requires a specification of the direction of adjunction.	As we have seen, this type of specification falls outside the bounds of the	<u>minimalist</u> approach.	It is easy to see that the specification of the direction of adjunction in the OV-analysis is a normetric succification and not a universal one. The	dialerts of Dutch smoken in the North of the country use a verb cluster of	the 3-2-1 type (Stroop 1970:256), just like German:		

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<sup>13</sup> See also Kann (1992), Lattewitz (1993). <sup>14</sup> The tradition goes back to Evers (1975).

DUTCE AS AN SVO LANGUAGE 345	If we adopt the hypothesis that the VP in Dutch is head initial, all these problems disappear. In extraposition constructions (11), the infinitival complement clause can be assumed to occupy its basic position, whereas V <sub>1</sub> can has undergone short movement to Pred. The analysis of the third construction (15a) differs minimally from the analysis of extraposition. We must assume that in ordinary extraposition		verb rais 1, procras Kaan (1 Jyzed in	(19) verb razing (=12) Lyor object, fur V, fur V <sub>2</sub> f, ]]] verb projection raising (=16a) fur V, Lyor object, furz V <sub>2</sub> f, ]]]	Thus, (16a) differs minimally from (12) in that in (16a) the projection of $V_2$ is expanded up to the AgrOP level, creating a position for licensing the direct object of <i>kussen</i> Siss', whereas the infinitival complement in (12) does not contain an AgrOP. As a result, the direct object of $V_2$ must be	<sup>22</sup> Details are left out from the representations in the text. The vertes are represented in their base position. The status of the embedded clause in the third construction is left open. The captions extreposition, third construction, werb raising, werb projection raising obviously refer to a sets of phenomena. not to actual movement operations of the type suggested by the terminology.
	_					
DUTCH STATAX	target for this movement. <sup>17</sup> In addition, the extraposition does not lead to opacity of the infinitival complement. <sup>18</sup> (17) Wie heett Jan geprobeerd om to kussen? who has John tried COMP to kiss "Who did John try to kiss?"	The derivation of verb raising (12) involves adjunction to the right, a suspect operation if Kayne (1993) is correct, and something we found in the previous section to be not subject to parametrization. The derivation of the third construction (15a) is equally suspicious as the derivation of extraposition, since the former is a subtype of the latter. Finally, Verb Projection Raising (16) is a doubly suspect operation since it involves righ-adjunction of a nonhead to a head (cf. Baltin 1982, Chomsky 1986b). <sup>19</sup>	<sup>17</sup> Bennis and Hoekstra (1989) argue for a Tense-linking requirement governing the various movements in verb raising and extraposition constructions in Dutch (cf. also Rutten 1991). In Bonnis and Hoekstrat's analysis, all verbs in a construction have to be linked to the matrix tense. Tense linking takes place by creating a Tense-chain consisting of local links which connect a verb with Tense, or by composing Tense-chains under a condition of sistorbood of arbitrary links of two Tense-chains. Bonnis and Ecoekstra argue that in Dutch, the V-position cannot be part of a Tense-chains. Bonnis and Ecoekstra argue that in Dutch, the V-position cannot be part of a Tense-chains. Honce, the verb has to move to T, the head of a lead tinal PT. On the assumption that the V-position of sentencial complements. The Tense-thain in Inkien recuirements.	the embedded clause must be linked to the matrix Tense-chain by chain composition. Since the sister of the embedded clause, it is not part of a Tense-chain, the mebedded dhause has been in order to make chain composition possible. Thus, the Tense-linking analysis is bused on the assumption that the verb in embedded dinases moves to the right in Durch, an assumption which we have found to be unsupported in this book. Dropping this assumption would amount to accopting that the V-position in Dutch is part of the Tense-chain and would remove the proposition three of removes the information. The complement to exclude the possibility <sup>14</sup> The complementizer or is included in the infinitival complement to exclude the possibility	that (1) is derived from a third construction extraposition. In that case, are 'moo 'would be extracted from a position to the right of the past participle (AgrOP in the matrix clause, presumably). The complementizer own in not allowed in the third construction type of extraposition, according to Den Besten and Rutten 1989:55. <sup>10</sup> The phenomena underlying Verb Projection Raising have jed to a number of more or loss complicated analyses. The classical malysis involves adjunction of N. Hacgeman and Van Reimedijk (1986) argue that adjunction does not suffice, and resort to an analysis involving multiple tree representations. Kostor (1987) argues that the latter stop is uncalled for, and	propose a linearration rule effecting inversion of possibly tunkles propertions of V. Yanden Wragnerd (1980a) argues that Vor VP-movement is never involved, and presents arguments to assume that the phenomenon involves right-adjunction of an AgrOF to a maximal projection. This is certainly the most attractive analysis of Verb Projection Russing based on the OV-hypothesis I have seen, incurring only the problem of movement and adjunction to the right.
344	target for this mov to opacity of the inf (17) Wie t who t "Who did	The derivation of v suspect operation if the previous section of the third constru- of the third constru- extraposition, since Projection Raising Tright-adjunction of 1986b). <sup>19</sup>	<sup>17</sup> Benais and Hoekstra movements in verb rais In Benais and Roekstra tense. Tense linking ta connect a verb with Ter ennot be part of a Teu TP. On the assumption Inking reoutiments on linking reoutiments	the embedded clause m the sister of the ambedi to raise in order to ma based on the assumption assumption which we h would amount to accopt remove the proposed in The complementizer of	that (17: is derived from extracted from a positi presumably). The com extraposition, according <sup>16</sup> The phenomena under complicated analyses. T Riemadijk (19:86), argue nultiple tree represent	propose a insarration Wyngrerd (1998) argue to assume that the pl projection. This is certa the OV-hypothesis I ha the right.

DUTCH AS AN SVO LANCUACE 347	leftward movement of embedded verbs. An analysis based on the alternative, according to which the VP in Dutch is head final, must express the difference between Dutch and German in terms of direction of adjunction.	2.5 Conclusion	In this section I have argued that the VP in Dutch is head initial. The verb final orders in embedded clauses in Dutch are all derived orders. Direct objects in Dutch move to the specifier position of AgrOP in overt syntax, embedded predicates move to the specifier position of PredP.	Clausal complements appear to the right of the verb in embedded clauses in Dutch. It follows from the properties of verb clusters in Dutch and related languages that this overt verb-complement order reflects the basic structure of the VP in Dutch.	3 On the Structure of Other Lexical Projections	3.1 Introduction	In the preceding section, I argued that the VP in Dutch can profitably be analysed as being head initial. Earlier, in chapter III, we reached a similar conclusion for the structure of the functional projections in Dutch. This suggests that all projections in Dutch are head initial.	in the final section of this chapter, I will consider very briefly the structure of the remaining lexical projections, the Noun Phrase (NP), the Preposition Phrase (PP), and the Adjective Phrase (AP).	A comprehensive treatment of the syntactic properties of these projections falls outside the scope of this book. My goal in these pages will be to discard <i>prima facie</i> evidence for the head final status of these	projections, and to discuss certain favorable consequences for the analysis of these projections emanating from the hypothesis that all projections in	Dutch are head initial. It is obvious that relative certainty about the basic structure of the NP, AP, and PP is hard to get without studying the internal syntax of these projections in more depth. Moreover, it is unclear whether more detail will bring more clarity in this issue. In the minimalist approach,	syntactic licensing processes always involve movement to positions in the functional domain at some point in the derivation. It is well known that
346 DUTCH STATAX	licensed in the functional domain of the matrix clause in standard verb raising constructions like (12). Though many questions concerning the syntax of verbal clusters remain, we can immediately conclude that the SVO hypothesis leads to a simplification, both in taxonony and in analysis. This is an important	result, not just note the fourth of view of description of second s	Apart from morphological issues and questions of overt versus covert movement, what the language user has to learn in order to master the complex pattern of Germanic verb clusters is that not every clausal constituent needs to be expanded up the AgrOP level, as long as an AgrOP is eventually created. This possibility is allowed by the universal	structure building mechanism of generalized transformations, and therefore does not count as a burden for the language learner. More generally, the question which cycle will host which functional proiections must be answered in terms of locality theory. If a functional	projection is created in a cycle which cannot be reached by the movement operations needed to eliminate its features, the derivation will not converge. The locality principles involved are presumably universal as well. In the case at hand, they allow speakers of Dutch to license the object of an infinitival complement clause in the functional domain of the must converted are achieved and the functional domain of the	language learnes: Lius seens to remain minum and the convertence. Lius seens to remain minum the convertence of the convertence	In contrast, in the tranuconal analysis passed on the COV right processes were correct, the language user would have to learn whether to move a clause, a head, or a projection of a head, and whether to adjoin those elements to the right or to the left. Then, in addition to that, it would have to be learned whether the element that is moved to the right	contains an AgrOP or not, in order to distinguish between the extraposition and the third construction. <sup>21</sup> The SVO-hypothesis clearly has the advantage over the traditional	hypothesis here.	2.4.4 Conclusion	The syntax of verb clusters in Dutch can be described in a maximally simple way if we assume that the VP in Dutch is head initial. This suggests that the difference between German and Dutch verb clusters reduces to a difference between overt (in German) and covert (in Dutch)	<sup>21</sup> Also, assuming Vanden Wyngaerd's (1389¢) analysis, in order to distinguish between verb raising and Verb Projection raising.

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Therefore, we cannot exclude the possibility that elements are not in their domain of the VP (Abney 1987, many others). We may assume that APs basic position in the observable overt syntax. This makes it hard to draw the functional domain of at least NPs is as articulate as the functional and PPs have a functional domain of appropriate complexity as well. any conclusions out of context.

projections and the VP in Dutch are head initial, the null-hypothesis must be that the remaining lexical projections do not deviate from the established pattern. Therefore, in the absence of evidence to the contrary, we must conclude that NP, AP, and PP are head initial as well. Nevertheless, if we were right earlier on in arguing that the functional

In the following sections, aspects of the syntax of NP, AP, and PP are treated in that order.

## 3.2 NP

For one thing, it is not clear that nouns have complements. In contrast to prepositions, transitive adjectives, and verbs, nouns do not take noun The issue of the basic structure of the NP is extremely difficult to resolve. phrase complements:

- de verwoesting \*(van) de stad ತ Э
- the city Caesar verwoestte de stad the destruction of á.
- the city destroyed Caesar

This is generally accounted for in terms of Case theory, nouns being unable to assign Case (Chomsky 1981:49). This explanation can be translated in minimalist terms by stating that the functional domain of a noun phrase lacks a licensing position for the noun's complement.<sup>1</sup>

Emonds (1985) rejects an account of (1a) in terms of Case theory, noting examples like the following:

- John arrived a welcome guest John's arrival "(as) a welcome guest ಕ ಸ 8

Arrive being an unaccusative verb, the problems for Case assignment to a welcome guest are the same in both (2a) and (2b). Emonds proposes that

<sup>1</sup> Note that nouns do take clausal complements. This supports the hypothesis that clauses are not licensed in AgrOP. This hypothesis is instrumental in the explanation of the distribution of noun phrases and clauses (see section II.4.3).

the preposition as in (2b) has to appear because nouns, unlike verbs, cannot assign a 9-role without intervention of a preposition.

However, in the minimalist framework (2b) may receive a similar explanation as (1a), on the assumption that a welcome guest in (2) is a Small Clause predicate. If Small Clause predicates must be licensed in the specifier position of a Predicate Phrase, as proposed in section 2.3, we can maintain the standard analysis by stating that the functional domain of a noun phrase not only lacks an AgrOP, but also a PredP.<sup>2</sup> This possibility of unifying the analysis of (la) and (2b) provides additional support for the existence of a PredP.

Nevertheless, the obligatory prepositional character of the complement of a noun raises the question how PPs are licensed. There appear to be two options. Either PPs are licensed in the specifier position in the functional domain of a noun, or PPs inside noun phrases must be considered as adjuncts.

There appears to be some support for the latter point of view. The prepositional complement of a noun is never obligatorily present:

- de verwoesting (van de stad) ಷ 4
  - the destruction of the city
- Caesar verwoestte (de stad) destroyed the city Caesar <u>م</u>
- John arrived The arrival ତ୍ର
- ام اہ

But if the PPs inside noun phrases are adjuncts, the issue of the basic structure of the NP becomes void.

phrases are generated as complements of the noun, and have to be Let us therefore assume, for argument's sake, that the PPs inside noun licensed in the functional domain of the noun phrase.

structure of the NP. As has become clear in recent years, nouns have a well developed functional domain (referred to as DP), and several analyses This, however, does not make it any easier to unravel the basic involving head movement of the noun into its functional domain have been proposed (cf. Abney 1987, Delsing 1988, Longobardi 1990, Valois 1990, Bernstein 1991, Ritter 1991, Holmberg, ed., 1992, Lattewitz 1992). In combination with the potential movement of the PP complement to a <sup>2</sup> Many of the facts finailiar from Kayze (1984, chapter 7) may be explained by the absence of a PredP in DPs (o.g. Mary proved a good companion - "Mary's proof a good companion). It is unclear to me, however, why insertion of a preposition does not help in these cases. unliko in Emonds' examples.

351 German	e licensed in ntax Hence, d position in	kerstörung in which is the orted by the oun and the ad noun are Dutch:	Dutch		un (and with ldest cannot rena suggest ion. <sup>4</sup> hat the head can draw no	te head noun, in plete-us-possible N to the head of L Otherwise, the in Dutch would
DUTCH AS AN SVO LANGUAGE die Zenstörung der Stadt	destruction of th Les that the I configuration <i>Lerstörung</i> 'd	Lattewitz argues that the derived position occupied by Zerstörung in (9) is the head of a functional projection the specifier of which is the designated licensing position for APs. This analysis is supported by the existence of morphological agreement between the head noun and the adjective, and by the observation that the AP and the head noun are strictly adjacent. Both phenomena can also be observed in Dutch:	<ul> <li>áýn oud/*oude huis</li> <li>one old-SG/PL house-SG</li> <li>twee oude.*oud huizen</li> <li>two old-PL/SG houses-PL</li> </ul>	<ol> <li>a. het oudste huis in de strant the oldest house in the street</li> <li>b. * het oudste in de straat huis the oldest in the street house</li> </ol>	In (10), the adjective shows number agreement with the noun (and with the numeral). In (11) the PP restricting the scope of <i>oudsle</i> 'oldest' cannot appear between the adjective and the noun. These phenomena suggest that the noun and the AP are in a specifier-head configuration. <sup>4</sup> Let us therefore assume that this is the case. It follows that the head of the NP in (6a) is in a derived position, and that we can draw no conclusions as to the basic structure of the NP in Dutch.	<sup>4</sup> It is clear that the entire AP must be in a specifier-head relation with the head noun, in view of constructions like <i>de zo complete mogelijke verwoesting</i> the as-completo-as-possible destructions. Notice, however, that the anylysis inplues that movement of N to the baod of the adjectival agreement phrase also takes place when there is no AP around. Otherwise, the the adjectival agreement phrase also takes place when there is no AP around. Otherwise, the solucion of the postcoonding relative in German and of the postmominal PP in Dutch would not be accounted for in noun phrases without an adjective.
6	Latte a spe the h (9).	(9) is desig exristi adjec strict	(01)	(TI)	In (1 the r appe that that L C concl	<ul> <li>It is view of destru- the ad position position</li> </ul>

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position in the functional domain, this makes it difficult to determine the structure of the NP on the basis of overt word order. In Dutch, complement PPs always follow the head noun in overt

syntax:

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de verwoesting van de stad the destruction of the city \* de van de stad verwoesting the of the city destruction

فر

However, this fact does not prove that NP in Dutch is head initial. It could be that the noun *verwoesting* has moved to a position in its

On the other hand, it is not easy to demonstrate that head movement functional domain in overt syntax.

has taken place in (6a), either. The determiner and the noun are not necessarily adjacent, so the head noun cannot have been moved to the determiner, the head of DP:

complete verwoesting van de stad complete destruction of the city de the Э

Also, it is not likely that the head noun has been moved to the head of the Adjective Phrase (AP), since *complete* can be modified:

- de zo complect mogelijke vorwoesting van do stad the so complete possible destruction of the city "the as-complete-as-possible destruction of the city" 3

modifies the adjectival head completer 'complete'. This shows that the head noun verwoesting is not adjoined to the adjectival head, and that the In (8), the circumpositional degree element zo...mogelijk 'as...as possible'

adjective complex is not adjoined to the determiner.<sup>3</sup> The head movement in the Dutch DP, therefore, lacks a clear target. It may be that the PP *van de stad* 'of the city' is in its licensing position in the functional domain of the noun *vervoesting*. If that is the case, we must conclude that *verwoesting* has moved through the head of the functional projection in which the PP is licensed, to a functional head position to the left of the PP.

Lattewitz (1992) argues that this derivation takes place in the DP in German, where the postnominal PP can be a genitive DP:

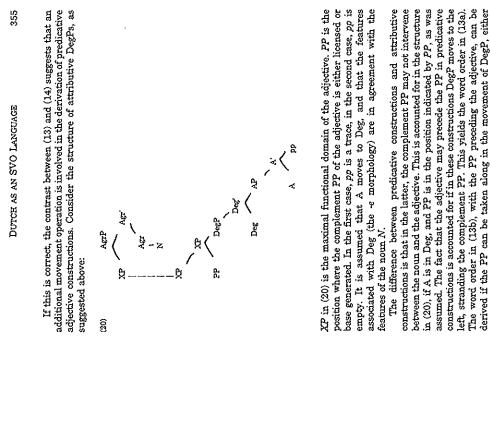
<sup>3</sup> See section 3.3 on the structure of the AP.

	is trots op zijn auto is proud of his car is op zijn auto trots is of his car proud	When the adjective is inflected, the a the degree morphology:	oud of something" rliefd op iemand amored on someone kort-et "shortest" kort-et "shortest"	Let us assume, nonowing Corver (1921), that comparative superlative APS involve a functional projection DegP (Degree Phrase), morphology associated with the Degree features is visible on the adjec	clear that (13a) serves this purpose either. There are indications that adjective itself is in a derived position.	<ul> <li>clear that (13a) serves this purpose either. There are indications that the adjective itself is in a sesume, following Corver (1991), that comparative and supellative APS involve a functional projection DeeP (Degree Phrase). The morphology associated with the Degree features is visible on the adjective:</li> <li>(16) korte "short" short" where "shortar"</li> <li>(16) korte "short" shorts" the agreement morphology is suffixed to the degree morphology.</li> <li>(16) korte "shortar"</li> <li>(17) korte "shortar"</li> <li>(19) korte "shortar"</li> <li>(10) korte "shortar"</li> <li>(11) kortes "shortar"</li> <li>(12) kortes "shortar"</li> <li>(13) kortes "shortar"</li> <li>(14) kortes the adjective is indected, the agreement morphology is suffixed to the degree morphology.</li> <li>(17) kortes a shortar the agreement morphology is suffixed to the degree morphology.</li> <li>(17) kortes the abortar's "shortar"</li> <li>(17) kortes the abortar's "shortar"</li> <li>(17) kortes the abortar's "shortar"</li> <li>(18) kortes a shortar the degree features in a derived position.</li> <li>(19) kortes the dot on the adjective is in a derived position.</li> <li>(10) contain the features associated with the morphology on the AP and an element features express a relation between the AP and an demention over the AP and an the morphology in (17) then results from overt morement of <i>kort, korter, korter</i> to Deg.</li> <li>(16) This analysis is prompted by the the existence of discontinuous degree elements in Dutch, in particular the existence of discontinuous degree elements in Dutch, in particular morphology in (17) the adjectivel anothology in the adjectivel anothology is therein adjective in a shortar (position adjective in a discontinuous degree elements in Dutch, in particular the existence of discontinuous degree elements in Dutch, in particular the discontinuous degree elements in Dutch, in particular the adjective adjective down degree elements in adjective of discontin adjective and adjective adjective adjective adj</li></ul>	<ul> <li>3.3 AP</li> <li>3.3 AP</li> <li>The complement of an adjective is generally expressed in a PP in Dutch:</li> <li>(12) a. tross opiets proud on something proud prout prouge proud provided in attributive constructions. The man is proud of his car proud prove on prime and provided in the glosses, the adjective shows agreement with the head proun in attributive constructions, but not in predicative constructions. The man that is proud of his car provided in the glosses, the adjective shows agreement with the head provided in the glosses, the adjective shows agreement with the head provided in the glosses, the adjective shows agreement with the head prove on the indicated in the glosses, the adjective shows agreement with the head prove of his car provided in the glosses in and provided in the glosses in and prove on the indicated in the adjective shows agreement with the head prove of his car provided in the glosses in the operiment of adjective shows agreement with the head prove of his car proved of hi</li></ul>
Dutch:	Dutch: licative	Dutch: sur Sur	clear that (13a) serves this purpose either. There are indications that adjective itself is in a derived position. Let us assume, following Corver (1991), that comparative superlative APS involve a functional projection DegP (Degree Phrase). morphology associated with the Degree features is visible on the adjec	clear that (13a) serves this purpose either. There are indications that adjective itself is in a derived position.			DUTCH SYNTAX

function of 9-role assignment. The nonadjacency in (15) indicates that the order in (14a) does not serve to indicate the basic order of elements in the AP. However, it is not

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because a larger category can be moved, or, if the PP is an adjunct, because the PP may be adjoined in various positions.

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[as...possible].<sup>6</sup> In attributive APs, the agreement morphology is suffixed to mogelijk instead of to the adjective:"

route zo kort mogelijke us short possible-AGR zo korte mogeliji een ল ತ (18)

mogelijk route route к сеп م

route as short-AGR possible 4

to Deg in (18a), to check its degree features. As predicted, the adjective's This follows if we assume that *mogelijk* is generated in the head of DegP, carrying the agreement morphology. In this view, *kort* must be adjoined superlative degree morphology appears in between the adjective and mogelijk:

kortst mogelijke route shortest possible-AGR route kort mogelijkste route short possible-DEG-AGR route နိုင်ငံ နိုင်ငံ နိုင်ငံ ч (fI)

à

The hypothesis of A-to-Deg movement in Dutch goes halfway in explaining the mandatory adjacency of the adjective and the noun. It makes the correct prediction that the only exceptions to this adjacency requirement involve adjunction to an element in Deg.

What is missing in the explanation is an account of the absence of complement PPs between the adjective and the noun. But we had to conclude above, on the basis of (15), that complement PPs in APs are either in a position in the functional domain, or base generated as adjuncts. If adjuncts cannot be generated to the right, either approach suffices to account for the obligatory adjacency of adjective and noun in Dutch, assuming, as in section 3.3, that AP (now including the functional domain of AP) and N are in a specifier-head configuration in overt syntax in Dutch. <sup>6</sup> Zo...mogelijk should not be confused with zo...cds mogelijk [ns...as possible]. The latter expression is one of a productive paradigm of comparisons, including also zo groen als gras 'as green as grass', zo good als nieuw 'as good as new', etc. One of the differences between the predicative APs (hij is zo tross mogelijk op zijn auto (he is as proud possible of his carl, "hij zo trost op zijn auto mogelijk he is as proud of his car possible), wateresa in zo...ak insgelijk da mogelijk mogelijk complement PP (hij ze bross op zijn auto als mogelijk (he is as proud of his car as possible), hij is zo trots als mogelijk op zijn auto [he is as proud two types of expressions is that in zo...mogelijk, mogelijk procedes complement PPs in as possible of his car]).

<sup>7</sup> This is only possible with zo...mogelijk, not with expressions of the type zo...als mogelijk ("een zo kort als mogelijke rouze [a as short as possible route]), with the exception of zo goed als nieuw [as good as now], which has come to mean practicnIly new'.

DUTCH AS AN SVO LANGUAGE 357	<ul> <li>(27) a. Een zijn principes trouwe Catalaan</li> <li>(27) a. Een zijn principes trouwe Catalaan</li> <li>"A Catalaan loyal to his principles."</li> <li>b. "Een trouwe zijn principles."</li> <li>c. "Een trouwe zijn principles."</li> <li>c. "A troub to the troup to the troup to the troup to the adjective:</li> <li>(28) de winkelsluiture door het verblift in de VS ontwend</li> </ul>	(29) die stoppendigung voor net veroupt die star van die tie stoppendigung voor net veroupt die stary in die US die vased "no longer used to the opening hours because of the stary in the US" (29) zijn principes ondanks het verblijf in de VS trouw his principles in spike of the stary in the US loyal "Joyal to his principles in spike of the stary in the US"	(28) and (29) can be used in predicative and attributive constructions alite. This indicates that the complement of a transitive adjective in Dutch is in a derived position in the functional domain of the adjective. We may assume that this derived position is a licensing position located somewhere between DegP and XP in (20). Consequently, the word order in transitive APs is irrelevant for the issue of the basic structure of the AP.	A final question to be answered is why the complement precedes the adjective in predicative transitive APs, whereas either order is possible in predicative intransitive APs. This follows if the functional projection designated for licensing the complement of the transitive adjective is always taken along in the movement of DegP to the left. If this is correct, the crucial difference between intransitive and transitive adjectives resides in the position of the complement in overt	syntax. The PP-complement of intransitive adjectives can be either stranded or taken along, the DP-complement of transitive adjectives must be taken along. Suppose that the part that is moved in predicative constructions is always the same category, some functional projection of the AP carrying the features relevant for the movement. Then the difference between transitive and intransitive adjectives necessarily licensing position of the complement of transitive adjectives necessarily falls inside that category. In contrast, the complement of an intransitive adjective could be defined as an adjunct, without a fixed adjunction position. Consequently, the PP in intransitive APs could be adjoined both inside and outside the category that is moved in predicative constructions.
DUTCH SYNTAX	The alternative, according to which all elements are in their basic position in (13a), is doubtful, considering the absence of strict adjacency of the adjective and the complement PP in these constructions: (21) de man is zo trots als een pauw op zijn auto the man is zo proud as a peacock of his car With this much in mind, let us turn to the transitive adjectives in Dutch (cf. Van Riemsdijk 1983). Transitive adjectives take a noun phrase complement. Some, like the	ones in (22), are obviously deverbal, others, like the ones in (23), are not: (22) ontwend past participle of ontwennen 'oreak a habit' toegewijd devoted to: past participle of teewijden devote' toegenegen "affectionate', past participle of <i>teewijden</i> thereto	conscious of fed up with in command of (a language) remedital of trived of 'done to' 'loyal to' 'boyal to'	ment invariably precedes the transitive adjective: Hij is de winkelsluiting oatwend The is the abop-desing dis-used The is ontwend de winkelsluiting he is dis-used the shop-cleaing	<ul> <li>Buijffe zijn perincipes trouw</li> <li>the romatina his principles loyal</li> <li>Tic romatins loyal to his principles.</li> <li>Bui blijfe trouw zijn principles</li> <li>Een de winkelsluiting ontwende Nederlander</li> <li>the the shop-closing dirava.</li> <li>a dis-used the shop-closing burs.</li> <li>Een de winkelsluiting Dutchman</li> </ul>
356 DUTCI	The alternative, according to which all elements are in their position in (13a), is doubtful, considering the absence of strict adja of the adjective and the complement PP in these constructions: (21) de man is zo trots als een pauw op zijn auto the man is as proud as a peacock of his car. With this much in mind, let us turn to the transitive adjectives in 1 (cf. Van Riemsdijk 1983). Transitive adjectives take a noun phrase complement. Some, lib	ones in (22), are obviously deverba (22) ontwend past participl toegewijd devoted to, p toegewijd devoted to, p	(23) zich bewust 'conscious of zat 'fed up with' matching 'in command of (a daukbaar 'grutchil twaard' indachtig 'mindful of mabij 'diose to' trouw 'loyal to' waard 'worth'	The complement invariably precedes the transitive adjective: (24) a. Hij is de winkelsluiting oatwend he is the shopelosing dis-used "He is no longer used to the opening hours of the shops." b. * Hij is oatwend do winkelshuiting he is dis-used the shop-closing	<ul> <li>(25) a. Hui blift zijn principes trouw he romains his principes loyal "He romains loyal to his principles."</li> <li>b. * Hi blift trouw zijn principles.</li> <li>b. * Een de winkelsluiting ontwende a the shop-closing diarused a dis-used to the shops.</li> <li>(26) a. Een de winkelsluiting ontwende a the shop-closing a dis-used to the shops.</li> </ul>

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DUTCE AS AN SVO LANGUAGE 359	3.4 PP Dutch has prepositional PPs, postpositional PPs, and circumpositional PPs:	(32) op het dak on the roof °on(to) the roof	<ul> <li>(33) a. het dak op postpositional the roof on "out the roof"</li> <li>b. er op there on "out(b) it"</li> </ul>	(34) van ket dak af of the roof off "off of the roof"	Inside VP, prepositional FPs may be adjuncts or Small Clause predicates: (35) adat Jan op het dak sprong that John on the roof jumped	"that.John was jumping on the roof." ".that John jumped onto the roof." bdat Jan sprong op het dak that John jumped on the roof "that John was jumping on the roof."	Postpositional PPs and circumpositional PPs inside VP are always Small Clause predicates: (36) adat Jan het dak op sprong that John the roof on jumped *.that John jumped onto the roof. b. *dat Jan sprong het dak op that John jumped the roof on	<ul> <li>(37) adat Jan van het dak af sprong</li> <li>that John of the coof off jumped</li> <li>"hat John jumped off of the roof."</li> <li>b. *dat Jan sprong van het dak af</li> <li>that John jumped of the roof off</li> <li>As always, Small Clause predicates may not appear to the right of the verb in embedded clauses.</li> </ul>
358 DUTCH SYNTAX	It is tempting to suggest that the functional domain of transitive APs contains an AgrOP, like VPs, but unlike intransitive APs and NPs. This could be related to Van Riemsdijk's (1983) characterization of transitive APs as verbal categories. Certain phenomena point to the verbal character	of transitive adjectives, also with the non-deverbal transitive adjectives listed in (23). For example, transitive adjectives, like past participles, cannot be modified with te too', instead of which te zeer too much' must be used:	<ul> <li>(30) a. Hij is zija beginselen te "(zeer) trouw he is himoples teo much loyal</li> <li>b. Hij is teo ("zeer) trouw he is too much loyal</li> </ul>	Also, transnrve aqlecurves generally appear to resuce y duce to the and a superiative formation. <sup>9</sup> and superiative formation. <sup>9</sup> (31) a. Jan is de TV meer zul/7/zather dan de radio	John is the TV more fed up than the radio "John is more fed up with the TV han with the radio." b. Jan is zatter??meer zat dan Piet John is more drunk than Pete	Possibly, these phenomena support the idea that transitive adjectives are verbal elements. This would make it possible for transitive adjectives to feature an AgrOP in their functional domain. This again would help explaining the fixed position of the complement of transitive adjectives, compared to (what looks like) the complement of intransitive adjectives. T will leave these and other aspects of the syntax of APs for further	study. In conclusion, the complement-head order in transitive APs cannot be considered as evidence in support of the idea that APs in Dutch are head final. Thus, the overt syntax of NP and AP does not allow us to draw any conclusions as to the basic structure of the lexical projections. In the next section. I will argue that the properties of complex PPs do lead to the conclusion that the PP in Dutch is head initial.	* Απ exception is formed by <i>darkboar</i> 'grateful', which allows a synthetic comparative and superlative even when used transitively.

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DUTCH AS AN SVO LANGUAGE	in (33a) is necessarily interpreted as being directional. <sup>10</sup> On an analysis along the lines of Van Riemsdijk (1990), the derivation of (33a) from (32) affects the descriptive content of the preposition. This effect is not expected if movement to a functional head is involved. At the conceptual level, the idea that the PP headed by $P_2$ in (38) is a head final functional projection does not accord well with the generalization that functional projections in Dutch invariably are head initial. Hence, if a postpositional preposition really occupies a functional position, we expect the PP or noun phrase to its left to be in a derived position, we expect the PP or noun phrase to its left is in a derived position, it does not follow that the postpositional preposition occupies a functional position.	<ul> <li>a. het dak weer op the roof again on "back onto the roof"</li> <li>b. van de tafel weer af of the table again off "back through the trees"</li> </ul>	This suggests that the noun phrase in (41a) and the PP in (41b) are in a derived position. This is a possibility that the minimalist approach allows. We may assume that the noun phrase and the PP in (41) are generated in the complement of the final preposition, and have to be licensed in a specifier position in the preposition's functional domain. The nonadjacency	<sup>16</sup> More exactly, (33a) is used only when the direction is upward. Thus, it is impossible to say <i>Jan sprong de inbreker op</i> (John jumped the burglar onto! John jumped on the burglar. The <i>Jan sprong de inbreker op</i> (John jumped the burglar onto! John jumped on the burglar. The <i>Jan sprong de inbreker</i> (John jumped on the burglar) is fine. <sup>14</sup> When directional PPs, but with an adjunct PP in combination with a particle Small Clause protexter. In butch, the two situations and the adjunct PP is intrelevant, to fourse. In Dutch, the two situations can be kept apart because adjunct PPs is intrelevant, of course. In Dutch, the two situations can be kept apart because adjunct PPs is intrelevant, of course. In Dutch, the two situations can be kept apart because adjunct PPs is intelevant. PF cannot (i). Also, particles cannot appear in nominalizations as free standing elements. Whereas postpoistions are lay. The nonadjacency functions is a free standing elements.
	in (33a) is r along the lui affects the expected if At the co head final generalizati initial. Hen position, we position, it functional p As a ma preceding n	4 ( <b>1</b> 1 1	This sugges derived posi We may ass in the comp specifier pos	<sup>19</sup> More exactly Jan sprong de prepositional de prepositional de de inbreker [06 de inbreker [16 prodicate. In L prodicate. In L of courret. In D of courret. In D of courret of the PP cannot (01, whereas position.

whereas postpositions can (ii). The nonadjacency illustrated in geauine circumpositions. з

date the schedurch mann afforicater, was de muur that the buildsthe maan afforicater, was de anuur that the buildstheam an affungage of the wall de sprong was de mun wall out af the manbulke the jump of the wall of the manbulke 3

<sup>9</sup> Van Riemsdijk's analysis is quoted from the handout of his presentation.

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The fact that postpositional PPs and circumpositional PPs behave alike in this respect suggests that the latter are a subcase of the former. This would imply that circumpositional PPs are structured as in (38):

[m [m P\* NP ] P\*2] (<u>8</u>

Van Riemsdijk (1990) argues extensively for the constituent analysis of circumpositional PPs in German and Dutch in (38). This analysis is clearly supported in German, where prepositions govern overt Case morphology: Cerman unter der"die Brücke under the-DATACC brück (ontional) durch die"der Brücke threugh the-ACCDAT brüge т (62) ف

In circumpositional PPs, the Case morphology on the noun phrase is governed by the preposition preceding it:

unter der"die Brücke durch under the-DAT/ACC bridge through "under the bridge (directional)" (<del>0</del>

to its left is not a head-complement relation. If it were, it would have to be specified that the preposition *durch* through' (cf. (39-40)) takes a noun phrase complement to its right and a PP complement to its left. Van Riemsdijk (1990) also argues that the relation between  $P_2$  and the PP

Van Riemsdijk (1990) also argues that the PP to the left of  $P_2$  is not an adjunct, and proposes an analysis of circumpositions in which  $P_2$  is a functional head. In this analysis, postpositional PPs can be regarded as circumpositional PPs with an empty functional head, which is filled by moving the lexical preposition to the functional head.

analyzed in (38) do not display a head-complement configuration. However, the idea that  $P_2$  is a functional head is problematic, since  $P_2$ lacks one of the defining characteristics of functional elements: it has 'descriptive content' (in the sense of Abney 1987:65). Consider the contrast between (32) and (33a). On the analysis in which I fully agree with Van Riemsdijk (1990) that circumpositional PPs as

 $P_z$  is a functional head, (33a) is derived from (32a) by moving the preposition op 'on' from  $P_1$  (in (38)) to the position of the functional head  $P_2$ . However, whereas op in (32) can be both directional and locational, op

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further indicates that the preposition is not in the head position of the relevant functional projection.

Let us therefore assume that circumpositions have the basic structure in (42), and that the overt word order in (34) is derived by movement of the complement of  $\mathbb{P}_2$  to the spec-position in the functional projection FP:

Ξ P\* [\*\* P\*1 DP (re spec F\* [re (42)

van de tafel af

There is some evidence that the analysis in (42) must be preferred over a consistently head final analysis of circumpositions, illustrated in (43): As can be seen, (42) is a consistently head initial structure.

Pe ] P2 ] F9 đđ [PP Spec [pp [pp (43)

de tafel van af

The evidence is based on the existence, next to (34), of (44):

van af de tafel of off the table "off of the table" Ŧ

Assuming the structure in (42), (44) can be derived by moving  $P_1$  and left-adjoining it to  $P_2$ . This leads to a simple description of the alternation: either the head of the complement PP is adjoined to the higher P, or the entire complement is moved to a specifier position in the functional domain.

Assuming the structure in (43), more operations have to be involved. To derive (34) (*van de tafel* af [of the table off]),  $P_1$  has to move to a position to the left of the noun phrase *de tafel* the table'. The nature of this position is unclear, however. Then, to derive (44),  $P_1$  has to be left-adjoined to  $P_2$ , yielding *van af*, and the complex *van af* has to move leftward again to another position to the left of *de tafel*.

Consider next how the structure of circumpositions in (42) sheds interesting light on postpositional PPs. We have noticed above that circumpositional PPs may be a subclass of postpositional PPs. If so, it may be desirable to analyze postpositional PPs along the same lines as circumpositional PPs. This can be done if we assume that in postpositional PPs P<sub>1</sub> is occupied by an empty preposition.

This analysis makes it possible to account for the subtle differences of interpretation between (32) and (33a). As noted above, (33a) is necessarily interpreted as directional, whereas (32) may be analyzed as both

DUTCH AS AN SVO LANGUAGE 365	(33) b. er op there on "on(to) it"	Only elements with the morphological feature [+R] appear as complements in this kind of PP. This suggests that movement to a licensing position is involved. Accordingly, the noun phrase and the preposition are not necessarily adjacent:	(51) er weer op there agnin on "back on it"	This type of PP, then, does not even remotely suggest that the PP in Dutch has a head final basic structure. The availability of both a directional and a locational intermetation	suggests that (33b) is closer to (32) than to (33a). I will therefore assume that an empty directional P, is present in the complement of the locational	$r_2$ op, and that $r_1$ moorporates in $r_2$ , yneuning the inverpretation paraphrased in (47). The difference between (33b) and (32) is that in the former case the norm bhrase in the complement of P, has a morphological	feature which requires overt movement for licensing purposes, whereas in (32), for all we know, this noun phrase does not move in overt syntax. Returning to the issue of the basic structure of the PP in Dutch, none of the PP-tyres in (32)-(34) provides evidence to support the idea that PPs	in Dutch are head final. Conversely, certain intricate patterns of word order and interpretation become understandable if we assume the simple	head initial PP-structure in (42). 3.5 Conclusion	Assuming the minimalist approach, it is extremely difficult to compile empirical evidence regarding the basic structure of the lexical projections. The general possibility of moving elements into the functional domain makes it unclear whether the observed word orders reflect the basic order. The discussions in this section lead to the conclusion that reliable evidence is not based on the observed word order, but on the elegance of the analysis of constructions involving a stack of lexical projections of the same categorial status. Thus, multiple VP-constructions in Dutch receive the most elegant analysis if all VPs involved are head initial. Likewise, the structure and interpretation of complex PPs suggest that overt head final PP orders are derived from basic head initial structures. In connection with the results from chapter III and the conceptual considerations in section 7.3.3 this leaded to the conclusion that	1011011011010101010101011111101010111111
DUTCH SYNTAX	<i>varaf</i> compared to <i>varaf.</i> In <i>varaf</i> , but not in <i>varaf</i> , P <sub>2</sub> <i>af</i> is necessarily interpreted as involving downward motion:	<ol> <li>de sprong van de tafel af the jump of the table off "he jump down from the table"</li> <li>de sprong vanad de tafel the jump of off the table "the jump from the table</li> </ol>	(48b), but not (48a), has the interpretation 'away from the table'. This is explained if $a_i^{\prime}$ contributes the notion DOWN, and if adjunction of var to $a_i^{\prime}$	obscures are downward aspeet of and houst, while heeping are tess specific aspect AWAY. <sup>22</sup> Accordingly, <i>vanaf</i> but not <i>vanaf</i> can be used to indicate removal in time: <sup>13</sup>	(49) а. <b>vnnaf maandag</b> of off Monday "from Monday on"	b. * van maandag af of Monday off	As for the locational interpretation of (32), we may assume that in this case TO is absent, with HIGH selecting a noun phrase complement instead of a prepositional complement. This yields the interpretation in (50):	HICK, the table	Turning finally to (33b), repeated here for convenience, this is an example of the core case of postpositional PPs in Dutch in which we know that the complement of the preposition is in a derived position (Van Riemsdijk 1978):	<sup>21</sup> The relatedness of DOWN and AWAY is suggested by expressions like <i>down in history</i> and <i>down in Texas.</i> <sup>22</sup> The modely on' can also be translated with <i>van meandag af acn</i> fof Möödsy off ool, where a third preposition, <i>acn</i> 'ao' contributes an aspect of duration. Assuming the basic tructure to be ( <i>down off form.</i> Assuming the <i>down in the reposition, acn</i> 'ao' contributes an aspect of duration. Assuming the basic structure to be ( <i>down off form.</i> Assuming the <i>down in the reposition, acn</i> 'ao' contributes an aspect of duration. Assuming the basic structure to be ( <i>down</i> , expectine position to the left of <i>af</i> , <i>nad van meandag af acn</i> is derived by moving <i>van meandag of acn.</i> is the required to a specifier position to the left of <i>af</i> , <i>nad van meandag af</i> , acn is derived by an sufficient to a the set option. <i>P van op acn.</i> for up on', used only in <i>Jc kunt van hen op on an</i> ( <i>you can op acn.</i> for an of <i>drived by an arbaic act and addag' of aci.</i> This can be option to the required by <i>down</i> and the required by <i>down</i> and <i>down</i> and <i>down</i> . Again, the structure the <i>down of aci. the struct van hen if the van act act</i> and <i>down</i> . Again, the strict upward motion interpretation of <i>op</i> is lost, even though no incorporation seems to have taken place.	

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all projections in Dutch are head initial.

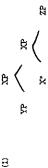
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## CONCLUSION

In the preceding chapters I have argued that the syntactic structures of Dutch all consist of molecular substructures with a universal hierarchical and linear organization, and that the processes affecting the elements in these substructures all conform to the requirements of the Minimalist Program of Chomsky (1992), or to the more restrictive modifications of the minimalist approach proposed here.

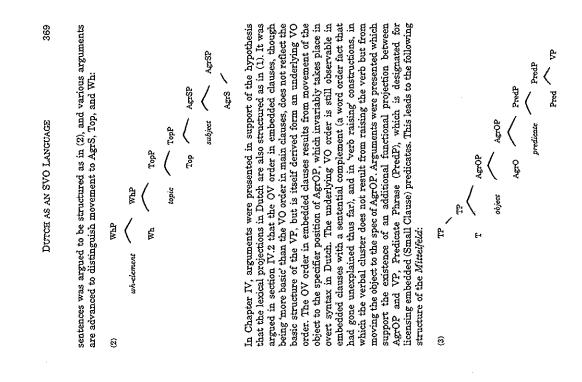
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The hierarchical and linear organization of the molecular substructures underlying Dutch syntactic structures is as proposed in Kayne (1992, 1993), illustrated in (1):



that the functional projections in Durch have the head initial structure in (1). These arguments are based on the position of the infinitival marker/preposition  $\varepsilon$  to', the position of clitics in Dutch, the phenomenon of complementizer agreement, and verb movement in subject initial main clauses and inversion constructions. In section III.1, it was argued that  $\varepsilon$  is generated in a right-peripheral functional head. On the minimalist assumption that inflected verbs preferably remain inside VP in overt syntax (by the economy-related In chapter III, I presented several arguments in support of the hypothesis

principle of Procrastination), the clause-final position of the inflected verb



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in embedded clauses in Dutch does not provide an argument for head final functional projections.

In section III.2, it was argued that clitics in Dutch are syntactic clitics, the distribution of which may be accounted for on the hypothesis that clitics are generated in and adjoin to functional heads. The differences in clitic placement between Dutch and French follow from independently established differences in verb movement between the two languages. Since clitics in Jutch appear to the left of the VP, it must be concluded that the functional projections in Dutch are head initial.

in inversion constructions. In these dialects, the verb in inversion constructions shows the same morphology as the inflected complementizer. This confirms the traditional view that the verb is in the complementizer to-C movement with verb movement suggests that verb movement takes Complementizer agreement phenomena were analyzed in section III.3 place as a Last Resort operation, when AgrS-to-C movement is impossible. This is a crucial step in understanding the absence of verb movement in embedded clauses, both in complementizer agreement dialects and in Standard Dutch. Second, certain complementizer agreement dialects have position in inversion constructions (Den Besten 1977). It also confirms a morphological reflex of AgrS-to-C movement. The relevant different forms for the inflected verb in subject initial main clauses and Fravis' (1984) addition to this analysis, according to which the verb occupies a lower functional head in subject initial main clauses. This again supports the idea that the functional projections in Dutch are head phenomena are interesting in two respects. First, the interaction of AgrSinitial. se

to Standard Dutch as well, on the assumption that Standard Dutch has generative analysis of verb movement in subject initial main clauses in Dutch, according to which the verb moves to C, is not empirically modification. C must be split up into two distinct functional heads, Top In sections III.4 and III.5, the various verb second constructions in Standard Dutch were discussed. The analysis of the asymmetry between main and embedded clauses with respect to the position of the finite verb developed for complementizer agreement dialects in section III.3 applies abstract AgrS-to-C movement. It was argued that the traditional On the other hand, the traditional analysis of inversion constructions as involving verb movement to C is by and large supported, with one and Wh, and the verb targets Top in topicalization constructions and Wh verb second in Dutch is not a unitary phenomenon in the sense that the verb invariably targets a single position. It is a unitary phenomenon, however, in the sense that a specifier-head configuration in a designated functional projection is created in each case. The Vorfeld of Dutch in wh-movement constructions (cf. Müller and Sternefeld 1993). Thus, supported and not compatible with the restrictive minimalist approach

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In this analysis, Verb Projection Raising can be dispensed with, and the relevant constructions can be analyzed as involving functional projections (AgrOP, PredP) in the complement of the hierarchically higher verb.

In section IV.3, it was argued that the properties of the Dutch NP and AP present no arguments for a head final structure of these projections. On the other hand, the syntactic and semantic properties of complex PPs do support the hypothesis that the PP in Dutch is invariably head initial, even in postpositional constructions.

These analyses all support the hypothesis that syntactic structures in Dutch are uniformly built up according to the universal structure building instructions which yield (1).

The other objective of this book was to reach a maximally restrictive analysis of the various movement processes taking place in the verbal system. In chapter II, it was argued that the traditional generative analysis of verb movement in Dutch (involving generalized V-to-C movement)leaves several phenomena unexplained. Foremost among these is the supposed movement of the subject to the specifier position of CP in subject initial main clauses. The idea that subject placement is a subcase of popicalization was discussed and dismissed in section III.5.1.

In a minimalist approach to subject placement (cf. Chomsky 1992), the null hypothesis is that the subject moves to the specifier position of AgrSF in neutral word order constructions (with overt subject movement). This follows from standard feature checking requirements, on the assumption that the N-feature of AgrS in the relevant language is strong. According to this approach to verb movement in Dutch, not the position of the subject is problematic, but the distribution of the finite verb.

The absence of verb movement in embedded clauses in Dutch makes it impossible to assume that the V-feature of AgrS is strong. The absence of verb movement in embedded clauses then follows from economy of derivations (the 'fewest steps' requirement). This, however, makes it necessary to provide a trigger for verb movement to AgrS in subject initial main clauses which overrules the fewest steps requirement.

In view of this, the hypothesis was advanced that verb movement to AgrS in Dutch takes place in order to make checking of the strong N-feature of AgrS possible. Assuming that licensing relations invariably are sisterhood relations (section 1.3.2), the first projection of AgrS (the *spotection* of AgrS) must play an active role in checking the N-features. It is proposed that a Projection of a head α has access to the N-features. It can put a is (+accessible). If α is [-accessible], it becomes [+accessible] if the V-features of care removed first. The pattern of verb movement in Dutch is now explained if AgrS has the following feature specification:

AgrS N-feature: strong V-feature: weak

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V-feature: weak accessibility: negative The strong N-feature forces the subject to move to the specifier position of AgrSP. The weak V-feature in principle procrastinates verb movement to covert syntax (LF). However, the l-accessibility! feature dictates that the N-feature of AgrS cannot be checked until its V-feature is eliminated. Verb movement to AgrS then takes place as a Last Resort operation, checking and eliminating the V-feature of AgrS. As a result, the N-feature of AgrS is activated (becomes accessible to the AgrSP Projection) and N-feature checking in overt syntax under sisterhood becomes possible.

I further assumed that economy of representation entails that features are present in as few positions as possible (section III.4.4). Thus, verb movement to AgrS actually has the result that the N-feature of AgrS movement to AgrS Projection, feeding feature checking under sisterhood. Another consequence of this view on the distribution of morphological features is that independent functional head movement of AgrS to C (where C' stands for Top or Wh) removes the V-feature of AgrS to C (where C' stands for Top or Wh) removes the V-feature of AgrS from the original position of AgrS. Thus, AgrS-to-C movement bas the same effect as V-to-AgrS movement: the V-feature of AgrS is removed, and the Nfeature of AgrS is activated. For this reason, AgrS-to-C movement obviates verb movement. This explains the absence of verb movement by fasture of AgrS is activated. For this reason, AgrS-to-C movement by the resistence of agrS is activated. For this reason, AgrS-to-C movement by a subsence of verb movement in Standard Dutch as well, the absence of verb movement in Standard Dutch as well, the absence of verb movement in Standard Dutch as well, the absence of verb movement in Standard Dutch as well, the

Another consequence of the hypothesis that the V-feature of AgrS is only present on the head of the chain resulting from AgrS-to-C movement is that AgrS-to-C movement removes the trigger for V-to-AgrS movement in inversion constructions. Thus, we may assume that in inversion constructions, the verb moves to C in one step, and adjoins to AgrS in C, thus checking the V-features of AgrS under sisterhood. Verb movement to C across AgrS is empirically supported, as it explains the obligatory stranding of object clifts in AgrS in inversion constructions in Dutch. Verb movement to C in inversion constructions in Dutch is likewise

Verb movement to C in inversion constructions in Dutch is likewise analyzed as a Last Resort movement (section III.5.3). It is assumed that the functional heads in the CP-system (Top and Wh) carry N-features but no V-features. The N-features are assumed to be strong in Dutch, triggering overt movement of topics and wh-elements. The absence of V-features follows from the definition of Top and Wh as nonL-related functional heads (Chomsky and Lasnik 1991). Since Top and Wh have no V-features, verb movement to the CP-system violates the economy principle Greed unless the V-feature of a lower functional head ends up

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in C as the result of independent functional head movement. In Dutch, this is the case if AgrS moves to C. Assuming now that Top and Wh in Dutch are also specified as f-accessiblel, the V-feature of AgrS represented in Top/Wh must be removed in order to activate the N-feature of Top/Wh. This triggers ver movement to C, along the same lines as verb movement to AgrS is triggered in subject initial main clauses. The analyses in this book invariably take Chomsky's Minimalist Program as their starting point. In certain area's, however, it appeared necessary to propose further restrictions.

On propose Juner resultations. One restriction, argued for throughout this book, is that economy of derivation does not entail that steps must be as short as possible. The abolition of the shortest steps requirement is generally enforced by dircumstance that local head movement is generally enforced by independently established feature checking requirements. In other cases, such as successive cyclic movement, local movement steps are replaced by the operation Form Chain of Chomsky (1992). I have taken this operation to proceed in such a way that intermediate links in a chain are introduced through generalized transformations *before* long distance movement takes place. It follows from the absence of the shortest steps requirement that Grammar. This is a welcome result, since the Equidistance Principle predicts that scrambing (movement to AgrO takes place as well. This prediction is returded by the facts of Durich and related languages. The Equidistance Principle, however, does derive part of the organization of the functional domain. This result is now lost, and the question of the derivation of the structure of the functional domain must be left as a subject for further study (see Hoekstra and Zwart 1993b for discussion).

À second refinement of the minimalist approach argued for in this book is the adoption of a one-level X-bar theory (cf. E. Hoekstra 1391). This makes it possible to derive the effect of target extension in a generalized transformation in a simple way. The rule is that if  $\alpha$  is adjoined to  $\beta$  by a generalized transformation, the projection of  $\beta$  has the categorial factors of  $\beta$  and the bar level of  $\alpha$ . I have proposed to distinguish the first projection of a need  $\alpha$  (the Projection of  $\alpha$ ). Unlike in the two-level X-bar theory, this distinction is not expressed in terms of bar level status, but in terms of feature content: the Projection of  $\alpha$ . Unlike in the two-level X-bar theory, this distinction is not expressed in terms of bar level status, but in terms of feature content: the Projection of  $\alpha$  may host the morphological fister of a Projection is not expressed in terms of bar level status, but in terms of feature content: the Projection of  $\alpha$  may host the morphological fisternes of  $\alpha$ , but Segments may not. Specifier can now be defined as a sister of a Projection between a specifier-head agreement can be reduced to a sister of a Projection between a specifier and a Projection carrying the N-features of the braic. Since V-features are also checked in sisterbod configurations (resulting from adjunction to a functional head), and theta-

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role assignment also requires a sisterbood configuration, we can formulate the following hypothesis:

## (5) All licensing relations are sisterbood relations

As was illustrated above, the active role of the Frojection of  $\alpha$  in checking the N-features of  $\alpha$  is instrumental in explaining the verb movement pattern in Dutch.

licensing the subject in AgrSP is recreated in CP, as proposed by Rizzi (1991a). The definitions do not exclude, however, that head movement creates a derived checking position for V-features. This follows from the It follows from (5) that the definition of the notion checking domain can be sharpened. Assuming Chomsky's (1992) distinction between into a Projection of  $\alpha$ , the Projection of  $\beta$  cannot be involved in checking the N-features of  $\alpha$ . Thus, the specifier of  $\alpha$ , and not the specifier of  $\beta$ , is  $\alpha$  to B. Consequently, the specifier of  $\alpha$  does not become part of the internal domain of this chain, contrary to what is proposed in Chomsky movement of  $\alpha$  to  $\beta$ . As a result, the V-features of  $\alpha$  must be checked by complement domain and residual domain, the checking domain of lphaof  $\alpha$  (for checking V-features) and the sister of the Projection of  $\alpha$  (for checking N-features). The *internal domain* of a can still be defined as the on the definition of checking domain that was argued for in Chomsky (1992). Since head movement of  $\alpha$  to  $\beta$  does not turn the Projection of  $\beta$ part of the checking domain of the chain resulting from the movement of (1992). These definitions make it impossible that the specifier-head configuration (actually, the specifier-Projection configuration) needed for assumption that the V-features of a head  $\alpha$  are carried along in the adjoining the lexical head (the verb, in this case) to  $\alpha$  in its derived position. As mentioned above, this derivation takes place in inversion consists of those positions in the residual domain of  $\alpha$  that are the sister minimal complement domain of  $\alpha$ , i.e. the sister of  $\alpha$  in the complement domain of  $\alpha$ . It also follows that head movement does not have the effect constructions in Dutch.

Finally, as illustrated above, the idea that the Projection of  $\alpha$  must perform the checking operation that eliminates the N-features of  $\alpha$  makes it possible to introduce a third instance of parametric variation associated with functional heads. Next to the strength of N-features and V-features, the accessibility of functional heads to their Projection can be parametrized. We may consider this as an arbitrary specification of a functional head, like the other instances of parametric variation in the minimalist approach. The accessibility parameter is needed to account for the phenomenon that sometimes a head must be affected in some way, for instance its N-features can be checked. The N-feature checking in these

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operations. (The principle of Greed is not violated because none of the The accessibility parameter is intended to express this, linking the notion of conditional feature checking to the independently established universal mechanism of feature checking in a sisterhood configuration. cases is conditional: it takes place only when assisted by such movement movements proposed takes place exclusively to help out other elements.)

## References<sup>1</sup>

ABNEY, S.P. (1987) The English Noun Phrase in its Sentential Aspect. Dissertation,

ALTTANNI, H. (1984) 'Das System der enlütüschen Personalpronomina in einer mittelbairischen Mundart' Zeitschrift für Dialektologie und Linguistik 51, 191-211.

ANDERSON, A.-B. AND Ö. DAHL (1974) 'Against the Penthouse Frinciple'. Linguistic Inquiry 5, 451-453.
AOUV, J. AND D. SPORTCER (1983) 'On the Formal Theory of Government'. The Linguistic Review 2, 211-236.
BACH, E. (1962) 'The Order of Elements in a Transformational Grammar of German'. Language 38, 263-269.
BACH, E. (1971) 'Questions'. Linguistic Inquiry 2, 154-166.
BACH, M. (1988) 'Incorporation of Englishi Questionas: The Role of an Abstract Question Morpheme'. Foundations of Language 6, 137-219.
BACH, M. (1988) 'Incorporations' of Carnyage 5, 137-219.
BACH, J. (1988) 'Incorporation' of Movement Rules'. Linguistic Inquiry University of Chinage.
BACHT, M. (1988) 'Samentrekkingen in Nederlandse syntactische groepen. Leiden University Press, Leiden.
BAUTH, M. (1982) 'A Landing Site Theory of Movement Rules'. Linguistic Inquiry 13, 1-38.
BAYER, J. (1984) 'Towards an Explanation of Certain fact. Phenomena: The OOMP-nodo in Bavarian Syntax'. The Linguistic Rules'. Scatential Complementation, Foris, Dordrecht.
BAYER, J. (1994) 'Towards an Explanation of Certain fact. Phenomena: The OOMP-nodo in Bavarian' In W. de Geest and Y. Putseys, eds., Sentential Complementation, Foris, Dordrecht.
BAYER, J. (1990) Directionality of Government and Logical Form: A Study of Focusing Tearties and Wh-Sope. Habilitationalisticung, University of Konstan.

BAYER, J. 1983) Zum in Bavarian and Scrambling, In W. Abraham and J. Bayer, eds., Dialektsyntar, special issue of Linguistische Berichte 5, 50-70. BECH, G. (1952) 'Uber das niederländische Adverbialpronomen er'. Travauz du Corcle Linguistique de Copenhague 8. BERKOREL, O. (1378) 'Die neuhochdeutschen Zwillingswörter'. Germania 23, 257-292. BENNIS, H. (1986) Gaps and Dumnies. Foris, Dordrecht.

\* Surmanos containing de i den. 1e, or vaniden) are listed under D. T. and V. rospectively.

REFERENCES 377	CARDINALETTI, A. (1992a) 'On Cliticization in Germanic Languages'. Ms., University of Vaulea and Geneva. CARDINALETTI, A. (1992b) 'SpeeCP in Verb Second Languages: Null Subjects, Expletives, and Nominative Case Assignment'. Ms., University of Venice and Geneva. CARDINALETTI, A. AND I. ROBERRS (1991) 'Clause Structure and X-Second'. Ms., University of Venice and University of Geneva. CARRER. J. AND J.H. RANDALL (1992) 'The Argument Structure and Syntactic Structure of Resultatives. Linguistic Inquiry 23, 173-234.	<ul> <li>CHOMSEN, N. (1961) 'On the Notion Tayle of Grammar". In J.A. Fodor and J.J. Katz, eds The Structure of Language. Readings in the Philosophy of Language. Readings in the Philosophy of Language. Readings in the Philosophy of CHOMSEN, N. (1966) The Theory of Syntax. MIT Press, Cambridge, Mass. CHOMSEN, N. (1966) The Theory of Cranative Grammar, In N. Chomsky, Topics in the Theory of Grammational Generative Grammar, In N. CHOMSEN, N. (1972).</li> <li>CHOMSEN, N. (1972) Studies on Nominalization. In Q. ChOMSEN, N. (1972) Studies on Nominalization. In Q. CHOMSEN, N. (1972) Studies on Semantics in Generative Grammar. Mouton, The Haque.</li> </ul>	CHONSKY, N. (1977) CORMIDIES ON LTADSOMMADIONS. IN S.M. ANDERSON MAY F. KipATSKY, OK. A Festschift for Morris Halle, Holt, Reinhart, and Winston, New York. CHONSKY, N. (1977) 'On Wh-Movement'. In P. Culievver, T. Wasow, and A. Akmajian, eds., Formed Syntax, Academic Fress, New York. CHONSKY, N. (1983) 'On Binding', Linguistic Inquiry 11, 1-46. CHONSKY, N. (1983) 'On Binding', Linguistic Inquiry 11, 1-46. CHONSKY, N. (1983) Some Concepts and Consequences of the Theory of Government and Binding, MIT Press, Cambridge. CHONSKY, N. (1983) Some Concepts and Consequences of the Theory of Government and Binding, MIT Press, Cambridge.	CEONSERY, Now JORE. CEONSERY, N. (1986) Burners. Mrn Press, Cambridge Mass. CEONSERY, N. (1981) 'Some Notes on Economy of Derivation and Representation'. In R. Freidin, ed., <i>Principles and Parameters in Comparative Grammar</i> , Mrn Press, Cambridge Mass. CEONSER, N. (1992) 'A Minimalist Program for Linguistic Theory'. <i>Mrt Occasional</i> <i>Papers in Linguistics</i> 1. CEONSER, N. AND H. LASNIK (1971) 'Filters and Control'. <i>Linguistic Inquiry</i> 8, 425- 504.	<ul> <li>Defin.</li> <li>An Entransional Handbook of Contemporary Research, Walter de Gruyter, Berlin.</li> <li>CrNOTS, G. (1990) Types of A'Dependencies. Mrr Press, Cambridge.</li> <li>CDOPER, K. AND E. ENCENAEL (1989) Yull Subjects in Zurich German'. Working Papers in Scantantura Syntax 44, 3144.</li> <li>CONVER, N. (1991) Topicance for DegP. Proceedings of NELS 21, 3347.</li> <li>CONVER, N. (1991) Topicance for DegP. Proceedings of NELS 21, 3347.</li> <li>CONVER, N. (1991) Topicalization, Inversion, and Complementizers in English. In D. Diefitto, M. Eversert, A. Evers, F. Shurman, eds., Going Romance and Beyond. Ors Working Papers. University of Utrecht.</li> <li>DE GENST, W. P.F. (1990) 'Universele grammatica op de Gentse toer'. Taal en Tongrad, special issue 3 on dialect syntax, 108-124.</li> <li>DE HANN, G. (1979) Conditions on Rules. Fortis, Dordrecht.</li> </ul>

DUTCH SYNTAX

376

- BENNE, H. (1992) Tang Haad Movemont The Position of Particles in the Verbal Custer in Dutch. In R. Bok-Bomman and R. van Hout, eds., *Linguistics in the Netherlands*, 1992, John Benjamins, Amsterdum.
   BENNE, H. AND, L. HAJCEMAN (1984) 'On the Status of Agreement and Relative Constructions. Forsi, Dordrecht.
   BENNE, H. AND, T. HAJCEMAN (1984) 'On the Status of Agreement and Relative Constructions. Forsi, Dordrecht.
   BENNE, H. AND, T. HORSETRA (1989) 'Why Kaatjo Waart Heard Sing a Song' In D. Jaspers, W. (2006) The Photology of Clinicitation. Jourd Active Assoc. Scatternial Complementation and the Lendon. Studies in Honour of Wirn dc Geest, Poris, Dordrecht.
   BENNESK, E. AND P. (2001) The in Fronch and Waltoon: Evidence for Parametric Complementation and the Lendon. Studies in Honour of Wirn dc Geest, Poris, Dordrecht.
   BENNESK, J. (1991) The Sin Fronch and Waltoon: Evidence for Parametric Complementation and the Lendon. Studies in Honour of Wirn dc Geest, Poris, Dordrecht.
   BENNESK, J. (1991) The in Fronch and Waltoon: Evidence for Parametric Complementation and the Lendon. Studies in Honour of Wirn dc Geest, Poris, Diotectecht.
   BENNESK, A. (1992) South American Verba Schuldentschen in Schlinkohen und im umgangesprechtichton. Studies for Junguisticke Berichte 5, 71-98.
   BENNESK, A. (1993) 'South American Verba Abademic Verlag, Berlin, Elanguistic Berichte 5, 71-98.
   BENNESK, J. J. AND D. JONAS (1993) 'Spectra Abademic Verlag, Berlin, Linguisticke Berichte 5, 71-98.
   BENNESK, J. (1983) 'Gronnaria de Jung Relation's Spectra forours in the Internation of the American Verba Abademic Verlag, Berlin, BLACK, J. (1992) 'South American Verba Abademic Verlag, Berlin, Linguisticke Berichte 5, 71-98.
   BENNESK, J. J. AND D. JONAS (1993) 'Spece Strabolishing Perpection in the Kolendentation of Linguistices Berichte 5, 71-98.
   BOLLUK, J.D. AND D. JONAS (1993) 'Spece Strab

-----

- Dordrecht.
  - CARDINALETT, A. (1990) 'Subject/Object Asymmetries in German Null-Topic Constructions and the Status of SpecCP', In J. Mascaró and M. Nespor, eds., Grammar in Progress. GLOW Essays for Henk van Riemsdijk. Foris, Dordrecht.

1000	

378

DE HAAN, G.J. (1990) Hootd- en bijzinnen: Traditie en progressie'. Handelingen van het 40ste Nederlandse Filologencongres, pp 203-213. The Hague. DE HAAN, G. (1992) Inflection and Cliticization in Frisian -ste, -ste. -ste. Ms.,

University of Groningen. DE HAAN, G. AND F. WEERMAN (1986) Finiteness and Verb Fronting in Frisian. In H. Haider and M. Prinzhorn, eds., Verb Second Phenomena in Germanic

Languages, Foris, Dordrecht. DB HOOP, H. (1992) Case Configuration and Noun Phrase Interpretation. Dissertation, University of Groningen. Groningen Dissertations in Linguistics

DE ROOL, J. (1965a) Als-Of-Dat. Dissortation. University of Nijmegen.
 DE ROOL, J. (1965b) T knew you knew he knew. Taal en Tongval 17, 105-123.
 DE ROOL, J. (1965b) Tanew you knew he knew. Taal en Tongval 17, 105-123.
 DE VISSER, M. (1999) 'Yoegwoord, relatife partikel en persoonsvorm in een dialect. Taal en Tongval 31, 222-241.
 DE VRES, W. (1910-1911) Dysmelic, Opmerkingen over Syntaxis. Appendix to the Program of the Municipal Gymerkingen over Syntaxis. Appendix to the Program of the Municipal Gymerkingen over Syntaxis. W. (1940) 'Congruerande voegwoorden'. Tijdschrift vor Nederlandse Taal. en Lettendunde 59, 78-79.
 DE WDD, M. (in preparation) Inversion in French. Dissertation, University of

Groningen. DELEROCK, O. (1911) Germanische Syntax II: Zur Stellung des Verbums. Toubner.

Leipzig. DELSING, L.O. (1988) The Scandinavian Noun Phrase'. Working Papers in Scandinavian Syntax 42, 57-79. DER BESFER, H. (1977) 'On the Interaction of Root Transformations and Loxical Delective Verbs'. Ms., MIT and University of Amsterdam. Also published in Den Besten (1989). DEN BESFER, H. (1978) 'Aunditary Delections and the Interplay between Local DEN EBESTER, H. (1978) 'Aunditary Delections and the Interplay between Local Delective Rules and Filters'. Paper presented at the GLOW Colloquium.

Amsterdam. DEN BESTEN, H. (1986) 'Decidability in the Syntax of Verbs of (Not Necessarily) West-Germanic Languages' Groninger Arbeiten zur germanistischen Linguistik 28, 232-256. Roprinted in Den Besten (1989). DEN BESTEN, H. (1989) Studies in West Germanic Syntax. Dissertation, University

of Tilburg.

DEN BESTEN, H. AND J. EDMONDSON (1983) The Verbal Complex in Continental West Germanic'. In W. Abraham, ed., On the Formal Syntax of the West Germanic', John Englamms, Amarcham. DEN BESTEN, H. AND J. KUTTEN (1989) 'On Verh Raising, Extraposition, and Free Word Order in Dutch'. In D. Jaspers, W. KLooster, Y. Putseys, and P. Seuren, eds. Sentential Complementation and the Lexicon. Studies in Honour of Wim eds. Sentential Complementation and the Lexicon. Studies in Honour of Wim de Geest First. Dorativecht. DEN BESTEN, H., J. RUTTEN, T. VEENSTRA, AND J. VELD (1988) 'Verh Raising. Extrapositie en de Derde Constructée, Ma, Unversity of Amsterdam. DEN BESTEN, H., J. RUTTEN, T. VEENSTRA, AND J. VELD (1988) 'Verh Raising. Constituent Structure of VP in the Germanic Languages'. Paper presented at the Constituent Structure of VP in the Germanic Languages'. Paper presented at the CLOW Colloquium, Venice.

DEN DEXEN, M. (1992a) Particles. Dissertation, University of Leiden. HIL dissertations 3.

REFERENCES

DEN DIKKEN, M. (1992b) 'Empty Operator Movement in Dutch Imperatives'. In D.

Gilbers and S. Loyvarga, eds., Language and Ognition 2 Yearbook 1992 of the Research Group for Linguistic Theory and Knowledge Representation of the University of Groningen. University of Groningen. DEN DIRCEN, M. AND E., HORSENRA (1993) No. Cause for a Small Clause? (Non-Jarguments for the Structure of Resultatives', Ms., University of Groningen and P.J. Meertens Institute Amsterdam. DEN DIRCEN, M. AND R. MULDER (1991) 'Double Object Scrambling'. MIT Working Peorer's in Linguistics 14, 67-82. DI SCULLO, A.-M. AND E. WILLIAMS (1387) On the Definition of Word. MIT Press,

Cambridge. DIESNet, M. (1990) 'Verb Movement and tho Subject Position in Yiddish', Natural Language and Linguistic Theory 8, 41-79. DUMOULIN, PE. AND J. COUMANS (1986) Sjöd miech nog eint in. Het dialect van Maasstricht BZZIDH, The Hague. EMONDS, J. (1970) Root and Structure Preserving Transformations. Dissertation, MIT.

EMONDS, J. (1976) A Transformational Approach to English Syntax Root, Structure-Preserving, and Local Transformations. Academic Press, New York, Structure-Preserving, and Local Transformations. Academic Press, New York, EMONDS, J. (1986) The Syntax of Referenciation. Foris, Dordrecht, EVERAST, M. (1985) The Transformational Cycle in Dutch and German. Dissertation, University of Ureecht. Distributed by the Indiana University Linguistics Club, DTR, A. (1982) Twee functional Cycle in Dutch and German. Dissertation, EVERS, A. (1982) Twee functionale principes voor de regel "Verschuft het Werkwoord: Glob 1, 11-30.
 FABS, N. (1984) Syntactic Affraction. Dissertation, Mir. ANSELOW, G. (1991) Minimale Syntax. Groninger Arbeiten zur germanistischen Linguistik Structure Kurn of the Base Generators'. Ma., University of

Passau.

FELK, S. (1393) Parasitic Gaps in German, Ms., University of Passau.
 FUKU, N. AND M. SPEAS (1396) 'Specifiers and Frojection. MIT Working Pepers in University of Neuron M. SPEAS (1396)' Specifiers and Frojection. MIT Working Pepers in University of Ventice.
 GUISTT, G. (1391) 'Zu-Infinitivals and the Structure of IP in German.' Ms., Ubiversity of Ventice.
 GORMAN, T. (1993) 'Cu-Infinitivals and the Structure of IP in German.' Ms., University of Ventice.
 GORMAN, T. (1993) 'Conserverveeging in de dialecten van het Nederlands'. *Linguistics in the Netherlands 1977-1973*, Foris, Dordrecht.
 GORMAN, T. (1993) 'Conserverveeging in de dialecten van het Nederlands'. *Tael en Torqued* 44, 97-139.
 GRENNERG, J. (1993) 'Some Universals of Grammar with Particular Reference to the Order of Meaningful Elements'. In J. Greenberg, ed., Universals of Languistic Review 7, 333-365.
 HARGEMAN, L. (1991) 'Subject Fronouns and Subject Clitics in West Flemiah'. *The Linguistic Review* 7, 333-365.
 HARGEMAN, L. (1992) 'Some Speculations on Argument for the Analysis of Verb Scend. In West Flemiah'. Grounager Arbeiten zur germanistischen Linguistic Review 7, 333-365.
 HARGEMAN, L. (1992) 'Norgations on Argument Shift, Clitics and Crossing in West Flemiak. MS., University of Genave.

Proceedings of NELS 22, 195-208.

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HAECEMAN, L. AND H. VAN REEMEDLER (1986) Verb Raising, Scope, and the Typology of Rules Afflecting Verbs' *Linguistic Inquiry* 17, 417-466. HAECEMAN, L. AND R. ZANUTTINI (1991) Negative Heads and Negative Concord.

Ms., University if Geneva.

HAESERNN, W. (1990) Syntactische normen in het Nederlands. Een empirisch onderzoek naar volgordevariatie in de werkwoordelijke eindgroep. Dissertation, Uhrwensip of Nijmegen. HAIDER, H. (1986) 'Yopicalization and Other Puzzles of German Syntax'. In G. Grewendorf and W. Sternefeld, eds., Scrambling and Barriers, John

Benjamins, Amsterdam. HAUDER, H. AND M. PRINCHORN, EDS. (1986) Verb Second Phenomena in the

Germanie Languages. Foris. Dordrecht. HARNESER, R. (1988) 'Die sogenaamte "sogenaamte Flexion der Konjunktionen". In E. Köller et al., eds., Begrarisch-Osterreichische Diclektforschung, Wurzburg. HAUCEN, E. (1937) Begnatung Norwegtan. Appleton-Century-Crotts, New York. HAVERKORT, M. (1992) Clitics and Parametrization. Dissertation. University of

HEYCOCK, C. AND A. KROCH (1993) Verb Movement and Coordination in the Certamonic Languages: Evidence for a Relational Perspective on Liconsing', Ms., Year, Ukresniy, A. (1986) Subjektslucken in Koordinationea. Ms., University of Cologra, Rokew, T. (1955) Konjugaesje, kumulphoby of follsetymologyske analyse fan editational Languistics. The Macmillan Company, New York.
HOEKERM, T. (1955) Subjektslucken in Koordinationea. Ms., University of Cologra, New York.
HOEKERM, T. (1955) Subjektslucken in Koordinationea. Ms., University of Cologra, New York.
HOEKERM, T. (1956) Subjektslucken in Koordinationea. Ms., University of Cologra, New York.
HOEKERM, J. (1958) Subjektslucken in Koordinationea. Ms., University of Cologra, Agreement. PROCEEDAGS of BLS 12, 147-158.
HOEKERM, J. (1993) Suppression of a Word Order Pattern in West Germanic'. In J. van Marie, ed. Historical Linguistics 12, 147-158.
HOEKERM, J. (1993) Suppression of a Word Order Pattern in West Germanic'. In J. van Marie, ed. Historical Linguistics 20, University of Coroningen Dissertations in Linguistics 2.
HOEKERM, E. (1991) Licensing Conditions on Phrase Structure. Dissertation. Justertation. Justertation. Justertation. University of Coroningen Dissertations in Linguistics 2.
HOEKERM, E. (1992) Usenstry Cornaine Syntax. Tromas, November 22.
HOEKERM, E. (1993) Supersions of Number Agreement on COMP. In F. Drijkoningen and K. Linguista in the Netherlands. Paper Research Groningen June 13.
HOEKERM, E. AND CJW, ZWART (1992). Topicalisatio in the Netherlands. Paper presented on Spektator.
HOEKERM, E. (1993) Supersions of Number Agreement on COMP. In F. Drijkoningen and K. Linguistatis in the Netherlands. Paper Presentation of the University of Groningen June 13.
HOEKERM, E. AND C.JW, ZWART (1993). The Generalization in the Netherlands. Paper presented on Spektator.
HOEKERM, E. AND C.JW, ZWART (1993). The Generalized June Subistite to the

Paper presented at the TABU-dag, Groningen, June 25. HOEKSTRA, J. AND L. MARACZ (1989) 'On the Position of Inflection in West Germanic', Working Papers in Scandination Syntax 44, 175-88. HOEKSTRA, T. (1983) 'The Distribution of Scatential Complements'. In H. Bennis and WU.S. van Lessen Kloeke, eds., *Linguistics in the Netherlands* 1983, Foris, Dordrecht.

REFERENCES

HOEKSTRA, T. (1987) 'Extrapositie en Sov.' TABU 17, 133-142.
HOEKSTRA, T. (1980) 'Small Clause Results'. Lingua 74, 101-139.
HOEKSTRA, T. (1980) 'Aspect and Theat Theory'. M. University of Leiden.
HOEKSTRA, T. (1990) 'Aspect and Theat Theory'. M. University of Leiden.
HOEKSTRA, T. (1990) 'Aspect and Dyna Theory. M. University of Leiden.
HOEKSTRA, T. (1986) 'Word Order and Syntactic Reniew 7, 1-79.
HOLMERG, A. (1986) Word Order and Syntactic Reniew 7, 1-79.
HOLMERG, A. (1986) Word Order and Syntactic Reniew 7, 1-79.
HOLMERG, A. (1986) Word Order and Syntactic Reniew 7, 1-79.
HOLMERG, A. (1986) Word Order and Syntactic Reniew 7, 1-79.
HOLMERG, A. ND CHR. PLATZGK (1989) 'The Role of ACR and Fluiteness'.
Working Pepers in Scandinavian Syntax 43, 51-76.
HOOFER, J.B. AND S.A. THOMESON (1973) 'On the Application of Root Transformation'. Linguistic Inquiry 4, 465-47.
HONSTEN, N. AND D. LIGHTFOOT (1987) 'Prediction and Roo'. Language 63, 23-33.

HUANG, C.-T.J. (1984) 'On the Distribution and Reference of Empty Pronouns'. Linguistic Inquiry 15, 531-574. HUYBREGTS, R. (1992) 'Scattering: A Derivational Approach without S-structure'. Paper presented at the 8th Workshop on Computative Germanic Syntax.

Tromse, November 21. Tromse, November 21. HUTAREOUTS, R., AND H., VAN REMSEDIK (1985) 'Parasitic Gaps and ATE'. *Proceedings of Nucles* 15, 168-187. IATEDOU, S. (1990) 'About Agr(P?' Linguistic Inquiry 21, 551-577. IATEDOU, S. AND A. KROGH (1992) 'The Licensing of CP-recursion and its Relevance to the Germanic Verb-Second Phenomenon'. Ms., University of Penasytania. JACKENDOFF, R. (1972) Semantic Interpretation in Generative Grammar. MIT

Press, Cambridge. JackEndoff, R. (1377) X-Syntax: A Study of Phrase Structure. MIT Press,

Gambridge. JAECCIL, O. (1980) On Some Phonologically Null Elements in Syntax. Dissertation,

JAKOBSOK, R. (1935) 'Beitrag zur allgemeinen Kasuslehre'. In Selected Writings II, 23-71, Mouton, The Hague, 1971.
JANSEN, F. (1978) 'Sentoneo Initial Elements in Spoken Dutch'. In W. Zonneveld, ed., Linguistics in the Netherlands. 1974-1976, Peter de Ridder Press, Lisse. JANSEN, F. (1981) 'Syntakische konstruktise in gespreken teal. Huis aan de Drie Grachten, Amsterdam.
JASTERS, D. (1989) 'A Head Position for Dutch Clitics, or. Wilma, Wilm, and Watemagel. In. J. Jaspers, W. Klooster, Y. Putseys, and P. Seuren, eds., Sentential. Complementation and the Lexicon. Studies in Honour of Wim de

Geest. Poris, Dordrecht. JEDIC, H.H. (1969) Ocerki po sintaksisu niznenemeckogo gowora Altaiskogo kraja. Omsk.

JESPERSEN, O. (1933) Essentials of English Grammar. George Allen and Unwin,

London. JOENSON, K. (1991) 'Object Positions'. Natural Language and Linguistic Theory 9,

517-636. Kaan, E. (1992) A Minimalist Approach to Extraposition. MA Thesis, University

of Groningen. KATZ, J.J. AND P.M. POSTAL (1964) An Integrated Theory of Linguistic Descriptions. MIT Press, Cambridge, Mass.

SYNTY
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22
S
Ш
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DUTCH
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382

z

- KAYNE, R.S. (1975) French Syntax. The Transformational Cycle. Mrr Pross
- Cambridge. KAYNE, R.S. (1982) 'Predicates and Arguments, Verbs and Nouns'. Paper presented at the GLOW Colloquium, Paris. KAYNE, R.S. (1983) 'Ornicedness and Binary Branching. Foris, Dordrecht, KAYNE, R.S. (1983) 'Principles of Particle Constructions'. In J. Guéron, H.-G. KAYNE, R.S. (1983) 'Principles of Particle Constructions'. In J. Guéron, H.-G.
  - Dordrecht.
- KAYNE, R.S. (1987) 'Facets of Romance Past Participle Agreement'. In P. Beninch, ed., Dielect Variation in the Theory of Grammar, Foris, Dordrecht, 1989. KANNE, R.S. (1991) 'Romance Clitics, Verb Movement, and PRO' Linguistic Inquiry.
  - 22, 647-686. KANNE, R.S. (1992) Word Order'. Guest lecture at the GLOW Colloquium, Lisbon,
- April 14. KANNE, R.S. (1993) The Antisymmetry of Syntax'. Ms., City University of New
- KERSTENS, J. (1975) 'Over afgeleide structuur en de interpretatie van zinnen'. Ms., University of Amsterdam. KESTER, E.P. (1993) 'The Case Morphology of Dutch Adjectives'. In M. Everaert, B. Schuten, and W. Zonneveld, eds., OTS Yearbook 1992, University of
  - KEYSER, S.J. (1968) Review of Adverbial Positions in English by Sven Jacobson.

- KITAGAWA, Y. (1396) Subject in Japanese and English. Dissertation, University of KITAGAWA, Y. (1986) Subject in Japanese and English. Dissertation, University of Massachusetts at Amherat.
   KOELMANS, L. (1965) Tets over de woordvolgorde bij samengestelde predikaten in het Nederlindar. De Nitzuwe Taadgås 58, 156-165.
   KORNER, K.-H. (1984) Teutsche Dialekte und fremde Sprachen. Teil III: Pronominale Subjectsenblise. In H. Krenn, J. Niemeyer, and U. Eberhardt, eds., Sprache und Text, Niemeyer, Tubingen.
   KOON, J. (1978) Is Nederlands een SOV-taal? Inaugural address. University of Leiden. Noord-Hollandsche Uitgeversmaatschappij, Amsterdum.
   KOON, J. (1978) Tronching in Duchi. In F. Jansen, ed., Studies on Fronking, Peter de Ridder Fress. Durtheht.
   KOOPMAN, H. AND D. SPORTICHE (1991) The Position of Subjects. Lingua 85, 211-KOOPMAN, H. AND D. SPORTICHE (1991) The Position of Subjects. Lingua 85, 211-

- KOSNELTER, W. (1986) The Status of the Finite Inflection in Icelandic and Swedish, Working Papers in Scandinguian Syntax 26. KOSNELLER, W. (1993) Barriers and Licensing. Dissertation, University of
- Groningen.
- KOSTER, J. (1974) 'Het werkwoord als spiegeleentrum'. Spektator 3, 601-619.
  KOSTER, J. (1975) 'Dutch as an Sov Language'. Linguistic Analysis 1, 111-136.
  KOSTER, J. (1976a) Locality Prinzipas in Synam. Foris, 100 reduction.
  KOSTER, J. (1978b) 'Wy Subject Sentences Don't Exist'. In S.J. Keyser, ed., Resert Transformational Studies in European Languages, MIT Press, Cambridge.
  KOSTER, J. (1984) 'Global Harmony. Ms., University of Thlung.
  KOSTER, J. (1986) 'The Relation between Pro-drop, Scrambling, and Vorb Movements'. Ms., University of Groningen.
  KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar. Foris, KOSTER, J. (1987) Domains and Dynasties. The Redictal Autonomy of Syntar.
- - Dordrecht

- KOSTER, J. (1989) 'Left-right Asymmetries in the Duth Complementizer System'. In D. Jaspers, W. Klooster, Y. Putseys, and P. Seuren, eds., Sentential Complementation and the Lexicon, Studies in Honour of Wim de Geest. Foris.
- Dordrecht
  - KOSTER, J. (1993) Predicate Incorporation and the Word Order of Dutch'. Ms., University of Groningen. KUAXK, J. (1975) Linguistics in the Netherlands 1972-1973. Van Goreum, Assen. KRARE, H. W. MED (1969) Germanische Sprachunssenschaft. Walter de Gruyter,
- Berlin. KRUISDNGA, E. (1938) Het Nederlands van nu. Wereldbibliotheek, Amsterdam. KUTNER, H.L. (1961) Struktwelle Grammatik der Münchner Stadtmundart.
- Oldenbourg, Munich. LaNDEEER, H.C. (1951) Klank- en vormleer van het dialect van Overflakkee. Van

  - Gorcum, Assen. LAPORTE, S.G. (1981) The Representation of Inflectional Morphology Within the Lexion! Proceedings of NELS 11, 190-204. LASON, R.K. (1988a) 'On the Double Object Construction'. *Linguistic Inquiry* 19, 335-330.
- LARSON, R.K. (1988b) 'Light Predicate Raising'. Lexicon Project Working Papers 27
- Contex for Cognitive Science, MT.
   LASTEC, H. (1982) Restricting the Theory of Transformations: a Case Study'. In N.
   Edomatein and D. Liggutdoo, edo, *Explanation in Linguistics. The Logical Problem of Langues Acquisition*. Logman, London.
   LASNEK, H. AND M. SATTO (1984) 'On the Nature of Proper Government'. *Linguistic Inquiry* 15, 235-289.
   LASNEK, H. AND J. URIAGEREKA (1988) A Course in GB Syntax. MTT Press, Combridge.
   LATTEWITZ, K. (1992) 'The Structure of the German Genitive'. To appear in

- Linguisristic Berichts.
   LATTEWITZ, K. (1993) Why German is more complicated than Dutch', Paper presented at the Geseneting, Cologne, July 10, 114.
   LAWF, R. (1991) Effects of Head-Movement on Theories of Subjacency and Proper Government. Dissertation, Mrn.
   LAWF, R. (1992) Effects of Head-Movement on Theories of Subjacency and Proper Government. Dissertation, Mrn.
   Law, P. (1992) Effects of Head-Movement on Theories of Subjacency and Proper Government. Dissertation, Mrn.
   Law, P. (1992) Threaton (1992) Provented Conjugations and Verb Second Effects in Romance. In Charles and T.A. Morgan, eds., Theoretical Analyses in Romance Linguistics, John Benjamins, Amsterdam.
   LENERZ, J. (1983) Thodence that to is a Complementizer? Proper presented at the Sth Workshop on Complementizer? Tromse, November 20.
   LENERZ, J. (1983) Thichtronic Syntax. Tonnae, November 20.
   LENERZ, J. (1983) Diachronic Syntax. Verb Position and Cone in German'. In J. Tonan, ed., Studies in Grammar, Peris, Dordrecht.
   LENERZ, J. (1983) Diachronic Syntax. Universitesvorlaget. Tronas, November 20.
   LENERZ, J. (1984) Finamark of Torna. Universitesvorlaget. Tronas.
   LONCORARD, G. (1990) Syndance for the Exciton. Dissertation, Mrn. Loncorenant, G. (1990) Syndance for the Exciton. Dissertation, Mrn. Conscendent, Constant, Constant, Constant, Constant, Constant, Mrn. Loncorenant, R. (1990) The A/A' Discinction and Movement Theory. Dissertation, Mcn., Man., M

- Mtr. MaLING, J. (1372) 'On Gapping and the Order of Constituents'. *Linguistic Inquiry* 3, 101-108.

385	coccedings of ality'. Paper and Syntax'. I functionele phology and Movement to Approach to presented at presented at presented at age numbers age to The Dissertation, bject Clitics'. trating the bject Clitics'. trating the bject Clitics'. trating the bject Clitics'.	CPs'. Working
References	<ul> <li>REULAND, E.J. (1981) 'On Extraposition of Complement Clauses'. Proceedings of NEES 11, 2963).</li> <li>RULLAND, E.J. (1982) 'Dependencies and Violations of Configurationality'. Faper presented at the GLOW Colloquium, Paris.</li> <li>REULAND, E.J. (1980) 'Taniniary the Relation between Morphology and Syntax'. Excusorb. E.J. (1990) 'Taniniary the Relation between Morphology and Syntax'. Excusorb. E.J. (1990) 'Taniniary the Relation between Morphology and Syntax'. Remove, Narry 29, 253-367.</li> <li>RULAND, E.J. (1990) 'Tanation the Prise on the arth van functionele acteoprise, TTT 9, 29, 309.</li> <li>RULAND, E.J. (1990) 'Tanation for the Relation between Morphology and Syntax'. Forebook of Morphology 31, 253-367.</li> <li>RULAND, E.J. (1990) 'Tanation for the Relation between Morphology and Syntax'. Terrobox of Morphology 31, 254-306.</li> <li>RETLAUD, E.J. (1990) 'Tanation Sourcest and the Relation between Morphology and Syntax'. Forobox of Morphology 31, 254-306.</li> <li>RETLAUD, E.J. (1990) 'Speculations of Walmwen, Apoldorn.</li> <li>RETTL, I. (1990) 'Speculations on Verb Scool.' In J. Mascard at The GLOW Colloquium, Leiden, March 27.</li> <li>REZZI, L. (1991) 'On the Status of Referential Indices'. In A. Kasher, ed., The GLOW Colloquium, Leiden, March 27.</li> <li>REZZI, L. (1991) 'On the Status of Referential Indices'. In A. Kasher, ed., The Construction in Remaint, Red Enditor, Narch 27.</li> <li>REZZI, L. (1991) 'On the Status of Referential Indices'. In A. Kasher, ed., The Construction in Rotex, Dontrock 10, J. Mascard at Relation Syntax. Rote, Dontrock 11, 30.</li> <li>REZZI, L. (1991) 'On the Status of Referential Indices'. In M. Reservation. March 37.</li> <li>REZZI, L. (1991) 'On the Status of Referential Indices'. In A. Kasher, ed., The Construction Status in Relations Proves (1990) 'On Indianaly and the Definition of A. Positions'. Proper Flast A. Rotex, Rote 70.</li> <li>REZZI, L. (1991) 'On the Status of Referential Indices'.</li></ul>	warrz, B.D. AND S. VIRNER (1989) 'All Verb Second Clauses Are CPs'. Papers in Scandinavian Syntax 43, 27-49.
	<ul> <li>REULAND, E.J. (19</li> <li>REULAND, E.J. (26</li> <li>REULAND, E.J. (19</li> <li>REULAND, E.J. (19</li> <li>REULAND, E.J. (10</li> <li>REULAND, E.J. (10</li> <li>Syntax, Yean</li> <li>RHEINHOUTZ, Canadrawa</li> <li>RHEINHOUTZ, Canadrawa</li> <li>RHEINHOUTZ, Canadrawa</li> <li>RHEINHOUTZ, Canadrawa</li> <li>RHEINHOUTZ, Canadrawa</li> <li>RETZH, L. (1991a)</li> <li>REZZI, R. (1991a)</li> <li>REZZI, R. (1991a)</li> &lt;</ul>	SCHWARTZ, B.D. Papers in S

11. 206-212. MORO, A. (1993) *The Aspectual Nature of Syntactic Complementation*. MULDER, R. (1992) *The Aspectual Nature of Syntactic Complementation*. Dissertation, University of Leidon. Hit dissertations 4. MULDER, G. AND W. STERNETELD (1990) 'Improper Movement'. Paper presented at the TIDurg' C. AND W. STERNETELD (1990) 'Improper Movement'. Paper presented at MULLER, G. AND W. STERNETELD (1990) 'Improper Movement'. Paper presented at the TIDurg' C. AND W. STERNETELD (1990) 'Improper Movement and Unambiguous Binding'. Linguistic Inquiry 24, 461-507. NELENAN, A. (1990) 'Scimbling as a D-structure Phenomenon'. P apper in N. Corver and H. van Riemabiling as a D-structure Phenomenon'. P apper in N. Curstat, J. (1993) 'Clitic Movement and the ECP: Evidence from Berber and Romanoc Linguistic Inquiry 24, 461-507. OURALLA, J. (1993) 'Clitic Movement and the ECP: Evidence from Berber and Romanoc Linguestic Inquiry 25, 155-215. OURALLA, J. (1993) 'Structural Categories and the Head Parameter'. Paper presented at the GLOW Colloquium. Leiden, March 27. OVERDER, G. (1993) 'Stinistische Grammatica van het Moderne Nederlandsch. Tjeenk Willink, Zwolle. PAADERCOOFE, P. (1991) 'Persoonsvorm en voegwoord'. Nieuwe Taalgids 54, 296-3010000.

Groningen MAX, R. (1985) Logical Form. MIT Press, Cambridge. MCDARTEL, D. (1982) Partial and Multiple Wh-Movement'. Natural Language and MCDARTEL, D. (1961) '7 565-604. MERCICRNS, P.J. (1961) 'Zijn dat kooplieden of zijn kooplieden dat?' De Nieuwe Taalgats S.J. 152-154. MICTEREL, C. (1959) 'Op de grens van oopula en hulpwerkwoord', Taal en Tongual 11, 206-212. •

PALMATER, R.A. (1972) A Glossary for English Transformational Grammar.
PALMATER, R.A. (1972) A Glossary for English Transformational Grammar.
Appleton-Contury-Crofts, New York.
PESETSKY, D. (1983) Wh-in situ: Movement and Unselective Binding. In E.J.
PESETSKY, D. (1983) Wh-in situ: Movement and Unselective Binding. In E.J.
PESETSKY, D. (1983) Wh-in situ: Movement and Unselective Binding. In E.J.
PESETSKY, D. (1983) We-lin ed.B. ter Moulen, eds. The Representation of IIndefiniteness, Mitt Press, Cambridge.
PALA, A. (1918) Suffiguerung der Personalpronomina im Donau-bairischen.
PALA, A. (1918) Suffiguerung der Wissenschaften Wien, philosophisch-historische Klasses, Sitzungsberichte 190.
PLATZAK, CHR. (1983) 'Germanic Syntax and the COMPINEL Parameter'. Working Papors in Scandinavae Sintax and the COMPINEL Parameter'. Working Papors in Scandinavae Mary 1988, 215-238.
PLATZAK, T. (1989) 'Verb Movement, Universal Grammar, and the Structure of IP. Linguistic Inquiry 20, 365-424.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora: Dissertation, MIT.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora: Dissertation, MIT.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora: Dissertation, MIT.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora: Dissertation, MIT.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora: Dissertation, MIT.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora: Dissertation, MIT.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora: An Logologics: An Argunate Anaphora. Dissertation, MIT.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora and Logolohos: An Argunate Araphora, Cambridge UK.
RENNEMART, T. AND E.J. REULAND (1991) 'Anaphora and Logolohos: An Argunate Araphora, Anaphora and Logolohos: An Argunate Araphora and Argunate Araphora and Logolohos: An Argunate Araphora, Cambridge UK.

MALING, J. AND R. SFROUSE (1991) "The Case of Predicate NPs'. Paper presented at the 7th Workshop on Comparative Germanic Syntax, Stuttgart, November 22.

MALLING, A. (1979) Deense spraakkunst voor iedereen. Het Spectrum, Utrecht/Antwerpen. MARKGZ, L.K. (1989) Asymmetries in Hungarian. Dissertation, University of

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- 1	
- 6	-
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SHEFHERD, P.H.M. (1945) Van Taol naar Taal. Nederlands voor Maastricht en omstreken. Geffin, Maastricht.
SHLONSKY, U. (1992) 'Agreement in Compi. Paper presented at the 8th Workshop on Comparative Germanic Syntax, Tromse, November 22.
Stormsson, H.A. (1990) 'VI Declaratives and Verb Raising in Icelandić'. In J. Maling and A. Zaenen, eds., Modern Icelandic Syntax Syntax and Semantics SMT, Academic Press, New York.
SMT, A.J. (1993) 'The Relative and Cleft Constructions of the Germanic and Romanic Longues. Dissertation, University of Tilburg.
SNELDRES-DE VOCEL, K. (1919) Syntaxe historique du français. Wolters.

Groningen. SPORTICHE, D. (1988) 'A Theory of Floating Quantifiers and its Corollaries for Constituent 2. Linguistic Inquiry 19, 425-449. SPORTICHE, D. (1982) 'Clitic Constructions', Ms., UCLA. SPROAT, R. (1985) 'Welsh Syntax and VSO Structure'. Natural Language and

Linguistic Theory 3, 173-216. STOETT, F.A. (1977) Middelnederlandse Spraakkunst. Syntaais. Martinus Nijboff.

The Hague.

STOWELL, T.A. (1981) Origins of Phrase Structure. Dissertation, MIT. STOWELL, T.A. (1983) Subjects across Categories. *The Linguistic Review* 2, 285-312.

J.L.
 STROOR, J. (1970) 'Systeem in gesproken werkwoordsgroepen'. In J. Stroop, ed., Nederlands dialeconstarrook, Huis aan de Drie Grachten, Amsterdam, 1983.
 STROZER, J.R. (1976) Chites in Spenish. Dissertation, UCu.
 STROZER, J.R. (1985) Char and X-plain: A Study of X-bar Theories of the Phrase Structure Component. Foria, Dordrecht.
 STRESMA, R. (1992) Subject and Accomplishments. The Case of Chinese ba. Dissertation, University of Iciden. HII dissertations 1.
 Theories J. (1992) Subject and Coordinate Asymmetries and the Syntactic Structure of German'. In R. Lippi-Green, ed., Recent Developments in Germanic Linguistics, John Benjamis, Amsterdam, 127-140.
 Tex, CATE-SILTWERBAND, R. (1973) Zuseede spraakiunst voor iedereen. Het Tex CATE-SILTWERBAND. R. (1973) Zuseede spraakiunst voor iedereen. Het

Spectrum, Ulrecht/Antwerpen. TENN, C. (1387) Gremmaticalizing Aspect and Affectedness. Dissertation, MIT. TEERSCE, C. (1978) Topics in German Syntax. Dissertation, MIT. THEERSCE, C. (1978) 'Some Remarks on Asymmetrical Coordination'. In F. Drijkoningen and R. van Flout, eds., Linguistics in the Netherlands 1993, John

TerkAnsson, H. (1985) V.I. V2. V3 in Icelandic'. In H. Haider and M. Frinzhorn, TerkAnsson, H. (1985) V.I. V2. V3 in Icelandic'. In H. Haider and M. Frinzhorn, eds., Verb Scenad Phenomena in Germanic Languages, Foris, Dordrecht. TerkAnsson, H. (1992) Harvard Fall term class lectures. TerkAnsson, H. (1992) 'Comments on the Paper by Vikmer 1991bl. Ms., University of Iceland and Harvard University.
 TOMASELLI, A. (1990) La sintassi del verbo finito nelle lingue germaniche. University L. (1984) Parameters and Effects of Word Order Variation. Dissertation.

VIS, L. (1991) "Parameters of Phrase Structure and V2 Phenomena". In R. Freidin, ed., Principles and Parameters in Comparative Grammar, Mir Press, Cambridge TRAVIS,

REFERENCES

TROSFERUD, T. (1988) The Null Subject Parameter and the New Mainland Scandinavian Word Order. In J. Niemi, ed., *Papers from the 11th* Scandinavian Conference of Linguistics, Vol. 1, 87-100.
KALOS, D. (1990) The Internal Syntax of DP and Adjective Placement in French and English. *Proceedings of NELS 21*, 367-381.
VAN BUUREN, L. (1980) 'On Dutch Intonation'. In S. Daalder and M. Gerritsen, eds., Linguistics in the Netherlands 1980, North-Holland, Amsterdam.
VAN DENGE, E. (1992) 'Zinsvermenging in het Middelnederlands' 7A97'22, 101-108.

VAN 1005.
 VAN 1005.
 VAN DER. HORST, J.M. (1961) Kleine Middelnederlandse syntexies. Huis aan de Drie Grachten, Amsterdam.
 VAN DER MEER, G. (1993) 'Reported Spoech and the Position of the Finite Verb (Some Facts from West Frisian)'. Lauronse Bijdragen TT, 301-324.
 VAN DER MEER, G. (1991) 'The "Conjugation" of Subclause Introducens: Frisian -st. NowTLE 1T, 630-54.
 VAN DER MEER, G. (1991) 'The "Conjugation" of Subclause Introducens: Frisian -st. NowTLE 1T, 630-54.
 VAN DERE, J. (1938) De vervoeging der onderschikkende voegwoorden en vonnaamwoorden.' Onze Tachtnin 3, 1-11 33-41.
 VAN DRIEL, J. (1988) De vervoeging der onderschikkende voegwoorden en vonnaamwoorden.' Onze Tachtnin 3, 1-11 33-41.
 VAN EARINGEN, G.B. (1958) 'Vervoegide voegwoorden in het Oosten'. In G.B. van Reethinder G.B. (1958) 'Vervoegde voegwoorden in het Oosten'. In G.B. van Reethinder, A. (1958) 'Networki, 1979.
 VAN EARINGEN, G.B. (1958) 'Netwoegde voegwoorden in het Oosten'. In G.B. van Reathingen. Gramarie, EES. Uhrechi, 1979.
 VAN EARINGEN, H. (1978) A Case Study in Syntactic Markedness. Foris, Dorderchi.

VAN REEMEDING, H. (1983) The Case of German Adjectives'. In F. Heny and B. Richards, eds., *Linguistic Categories: Auxiliaries and Related Puzzles I*, Reidel, Dordrecht.

Dordrecht. VAN Erzaszburg, H. (1990) Functional Prepositions'. Paper presented at the Europy Theme Group 8 meeting on Clitics and other Nonlexical Categories, Tiburg, February 16. VANACKER, V.F. (1949) 'Over enkele meervoudsvormen van voegwoorden'. *Taal en Tonguel* 1, 32-45 76-93 108-112. VANACKER, V.F. (1953) Syntaxis van gesproken taal te Aalst en in het Land van Aalst in de XVV<sup>4</sup>, de XVT<sup>4</sup> en de XVIT<sup>4</sup> eeuw. Belgisch Universitair Centrum voor Neerlandisciól.

WORTER, VF. (1968) Syntaktische Daten aus Französisch-Filmische Tonband Aufnahmen. In L.E. Schmitt, ed., Verhandlungen des Zen Internationalen Dialekologenkongresses special issue of Zeitschrift für Mundarforschung II, Steiner, Wissbaden 844-555.
 VANACTER, V.F. (1969) Zuidnederlands dialectmateriaal op de band en enkele duble werkwoordgroepen in ze-positis. Tada in Töngud. 21, 239-244.
 VANACTER, V.F. (1976) "Een "Zuidnederlandse" constructie in een paar Zuidnederlands dialector, De Nieuwe Tazigids 1970, special Van Haeringen issue, 140-157.
 VANCCE, B. (1988) "Lévolution du pro-drop en françuis in de filmeria. Reule québécoise de linguistique du français. Reule québécoise de linguistique falos faile di français. Reule québécoise de linguistique bistorique et applique 7, 55-112.
 VANDEN WYNGAERD, G. (19899) "Paising to Object in Dutch and English'. Dutch

Working Papers in English Language and Linguistics 14.

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- VANDEN WYNGAERD, G. (1989c) 'Verb Projection Raising and the Status of Infinitival Complements'. In D. Jaspers, W. Klooster, Y. Putseys, and P. Seuren des. Sentential Complementation and the Lenicon. Studies in Honour of Wim de Geest, Foris, Dordrecht. VENDRYES, J. (1937) 'Sur Vemploi de l'auxiliaire avoir pour marquer le passé'. In J. Wils et al. eds., Mélanges de linguistique et de philologie offerts à Jacq. van
- Ginneken, Klincksieck, Paris.
  - VERCOULLE, J. (1885) 'Spraakleer van het Westvlaamsch dialect' *Onze Volkstaal* II, 3-47.
- VERGNAUD, J.-R. (1979) 'Quelques éléments pour une théorie formelle des Cas'. In
- J.R. Vergmand (1985). Dépendances et niveaux de répresentation en syntaxe. Beijamins, Amsterdam.
   VERGNAUD, J.R. (1985). Dépendances et niveaux de répresentation en syntaxe. Beijamins, Amsterdam.
   VERASELT, J. (1961). Verschillen tussen Noord en Zuid inzake de volgorde hulpwerkwoord-hoofdwerkwoord', Taal en Tongval 13, 153-157.
   VERLAND, B. (1981). Dialekter i Norge. Malmerker med språkhistoriske forklaringer. Universitetsfolget, OSlo.
   VERSE, S. (1991b) Trinte Verh Movement and the Licensing of NP Positions in the Germanic Languages. Dissertation, University of Geneva.
   VERSE, S. (1991b) Trinte Verh Movement Workshop, University of Maryland, College Park, October 14.
   VERSE, S. AND B. SGEWAART (1992) The Verh Mavement Workshop, University of Maryland, College Park, October 14.
   VERSE, S. AND B. SGEWAART (1992) The Verh Mavselle yn the Fryskr. In S. Dyk and G.J. University of Geneva and Boston University of Lauses'.

- Leeuwarden.
- Lectuvardea.
   Waczenwardea.
   Waczenwardea.
   Waczenwardea.
   Waczenwardea.
   Kadogermanische Forschurgen 1, 333-436. Also in J. Wackernagel. Kleine Sciriften 1, Vandenboeck and Ruprech. Göttingen 1969, 1-104.
   WarnAME, A. (1992) Wh.in-Situ, Subjacency, and Chain Formation'. MIT Occasional Papers in Linguistics 2.
   WEBELINTE, G. (1989) Syntactic Staturation. Theroneast and the Modern Germanic Languages. Dissertation. University of Massachusetts at Amherst.
   WEENMAN, F. (1989) Syntactic Staturation Phenomena and the Modern Germanic Languages. Dissertation. University of Massachusetts at Amherst.
   WEENMAN, A. (1939) 'Conspirator, A synchronic and a diachronic analysis of verbol positions in the Germanic Languages. Forts, Dordrecht.
   WEENMAN, A. (1939) 'Conspirator, Spring, Dordrecht.
   WEENMAN, A. (1939) 'Conspirator, Spring, Dordrecht.
   WEINER, A. (1938) 'Mundurtliche Enklisen bei Schmeller und heute'. In L.M. Editor and Sci. (1907) 'Die sogenannte Flexion der Konjunktionen'. Zeitschrift Deutscher Mundarten, 1992-105.
   WEENKE, O. (1983) 'Mundurtliche Enklisen bei Schmeller und heute'. In L.M. Erkinger and B. Naumann. eds., Johann Andrees Schmeller und der Beginn der Germanistik. Johabourg, Munich.
   WEENKE, G. (1991) 'Optional Infinitives, Head Movement and the Economy of Doriversity of Morryland, College Park, October 15.
   WILDER, CER, AND D. CAVAR (1993) 'Word Order Variation, Verb Movement, and Economy Principles' Mas., Goethe University of Frankfurt an Main.
   WILLIANS, E. (1993) 'On the Notions "Learchind, College Park, October 15.
   WILDER, CER, AND D. CAVAR (1993) 'Word Order Variation, Verb Movement, and Economy Principles' Mas., Goethe University of Frankfurt an Main.
   WILLIANS, E. (1981) 'On the Notions "Learchinds College Park, October 15.
   WILDER, CER, AND D. CAVAR (1993)

- Groningen

- ZWART, C.J.W. (1988) The First Case. The Nominative as a Default Case and Consequences for Control Theory. MA thesis, University of Groningen. ZWART, C.J.W. (1990a) Functional Projections in the Syntax of Dutch'. Paper presented at the CUNY Syntax Linnch, New York, October 23.

- ZWART, C.J.W. (1990b) 'Clitchs in Dutch: Evidence for the Position of INFL'. Paper presented at the Giselle conference, Girona, July 21.
  ZWART, C.J.W. (1990b) 'Clitchs in Dutch: Evidence for the Position of INFL'. Paper presented at the TIX-dag. Urtecht, January 20.
  ZWART, C.J.W. (1991b) 'Clitchs in Dutch: Evidence for the Position of INFL'. Consinger Arbeiten zur germanistischen Linguistik 33, '11-92.
  ZWART, C.J.W. (1991b) 'Clitchs in Dutch: Evidence for the Position of INFL'. Groninger Arbeiten zur germanistischen Linguistik 33, '11-92.
  ZWART, C.J.W. (1991b) 'Verb Movement and Complementizor Agreement. Mar. Working Fapers in Linguistics 18 (1993), 297-340.
  ZWART, C.J.W. (1991b) 'Verb Movement and Complementizor Agreement. Mar. Working Fapers in Linguistics 18 (1993), 297-340.
  ZWART, C.J.W. (1991b) 'Verb Movement and C.Vet eds.. Language and Cognition in Putch. Torque for the Research Group for Linguistic 200 (Sontison I. Yeenbook 1991 of the Research Group for Linguistic 200 (Sontison I. Yeenbook 1991 of the Research Group for Linguistic 200 (Sontigon I. Yeenbook 1991 of the University of Groningen. University of Groningen, 333-350.

- Zwarr, C.J.W. (1991d) 'Expletive Raising and Expletive Replacement in Dutch', Proceedings of ESCOL 8, 393-404.
  Zwarr, C.J.W. (1992d) 'Sov Languages Are Head Initial'. Paper presented at the Swarr, C.J.W. (1992b) 'Sov Languages Are Head Initial'. Paper presented at the Swarr, C.J.W. (1992b) 'Sov Languages Are Head Initial'. Paper presented at the Swarr, C.J.W. (1992b) 'Notes on Clinics in Dutch'. In L. Hellan, ed., *Clinics in Genatic and Stavic, Europy* 4 (1993), 113-152.
  Zwarr, C.J.W. (1992b) 'Notes on Clinics in Dutch'. In L. Hellan, ed., *Clinics in Genatic and Stavic, Europy* 4 (1993), 113-152.
  Zwarr, C.J.W. (1992c) 'Subject Initial Verb Second in West Flemish: A Reply to Halegenan', Groninger, Arbeitor zur Germanistischen Linguistik 35, 72-91.
  Zwarr, C.J.W. (1992d) 'Matching'. In D. Gilbers and S. Loyverga, eds., *Language and Cognition 2, Yeurbook 1992 of the Research Group for Linguistik 35, 73-91.*Zwarr, C.J.W. (1993c) 'Dutch Explexives and Small Clause Predicate Raising', *Proceedings of Nucl. S 24, 477-491.*Zwarr, C.J.W. (1993d) 'Dutch Explexive eds., *Diateksyntax.* Special issue 5 of Linguistics Arry and J. Bayer, eds., *Diateksyntax.* Special issue 5 of Linguistics (Jay)' (1993d) 'Shortest Steps vs. Feuest Steps'. Ms., University of Conniegue.
  - Groningen. Zwarr, C.J.W. (1993d) Het ontstaan van  $\Gamma$ en C' '. Paper presented at the Thi-

- dag, Urrecht, January 16. Zwarr, C.J.W. AND E. HOERSTEA (1989) Functionele Projecties in Nominalisaties'. M.S., Uriversity of Groungen. Zwarr, C.J.W. AND E. HOERSTEA (1990) 'Clitics en de positie van INFL in het Nederlands'. Paper presented at the TABU-dag, June 8. Zwarrs, J. (1992) X.-Syntar, X.-Semantics. On the Interpretation of Functional and Lectod Heads. Dissertation, University of Utrecht. Zwarrs, J. (1977) 'On Clitics'. Reproduced by the Indiana University Linguistics Club, Bloomington, Indiana.
  - - ZWICKY, A. (1985) 'Clitics and Particles'. Language 61, 283-305