Chapter 3

The NP vs. DP-debate and notions of headedness

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Much of the NP vs. DP-debate has relied on largely conceptual and theory-internal arguments. In this paper, I instead discuss well-established concepts of headedness and explore their relevance for the NP vs. DP-debate. I will rely on two simple and arguably theory-neutral concepts: (i) the fact that there is an asymmetric relationship between head and non-head regarding selection and form determination and (ii) the fact that the features of the head are present on the maximal projection and its consequences for distribution, selection and agreement. While not all arguments lead to a conclusive result, the facts overall favor the DP-hypothesis: W.r.t. the asymmetry between D and N, we will see some evidence that D selects N(P). Facts from categorial selection, selection of particular forms of the D-position and from agreement with hybrid nouns suggest that the features of D rather than those of N are present on the maximal projection. This clearly supports the DP-hypothesis.

1 Introduction

It is fair to say that the DP-hypothesis, first proposed in Abney (1987), and illustrated in the tree diagram in Figure 1, has been very successful. In most of the current formal syntactic literature, especially that carried out within the Minimalist Program since Chomsky (1995), the DP-hypothesis is usually taken for granted.  

1The idea that the determiner is the head of the noun phrase can also be found in literature predating Abney’s dissertation, see Abney (1987: 77) for references. In the literature on German, the NP/DP-debate was most prominent in the late 80s/early 90s, see Vater (1984, 1986) for proponents of the NP-hypothesis and Haider (1988, 1992), Bhatt (1990), Gallmann (1990), Olsen (1991) and Vater (1991) for proponents of the DP-hypothesis; interestingly, the earliest mention of the idea that D is the head can already be found in Erben (1980: 280).
Against this background it is somewhat surprising that most of the evidence in its favor is based on theory-internal considerations, either having to do with specific assumptions within GP-theory at the time or presumed parallels between the nominal and clausal structure. Arguments that refer to established concepts of headedness are actually rather rare and have not played a prominent role in the discussion. This paper therefore aims to address this issue by discussing a number of widely-accepted concepts of headedness and applying them to the NP vs. DP-debate. It will be shown that while some of the concepts do not lead to a conclusive result, some actually make clear predictions and help tease apart the two different theories. As we will see, facts from selection and agreement favor the DP-hypothesis, while none of the diagnostics favors the NP-hypothesis. Overall, then, the DP-hypothesis is at an advantage.

This paper is structured as follows: Section 2 briefly discusses examples of theory-internal arguments in favor of the DP-hypothesis. Section 3 introduces different concepts of headedness and applies them to the NP vs. DP-debate. Section 4 concludes.

2 Theory-internal arguments for the DP-hypothesis

As discussed in Salzmann (2020), previous arguments in favor of the DP-hypothesis can be categorized as follows:

i. Conceptual arguments that are largely due to specific assumptions of the GB-framework at the time.

ii. Parallelism arguments based on the presupposition that the clausal and nominal architecture must be very similar.

iii. Constituency arguments showing that N forms a constituent to the exclusion of D.
iv. Head-movement arguments suggesting that there is an $X'$-position above N.

As shown in Salzmann (2020), most if not all of these arguments are inconclusive. The constituency arguments are irrelevant since they do not diagnose headedness. The head-movement arguments are relevant, but strictly speaking, they do not show that the higher head has to be identified with D. For the conceptual and parallelism arguments, reasonable alternatives can be provided within the NP-hypothesis. Since I have discussed this extensively in my previous work (and see also Bruening 2009, 2020, Bruening et al. 2018), I will only discuss one concrete case and refer the reader to the references just mentioned for details.

The first argument for the DP-hypothesis comes from examples like the following, where in addition to the possessor there is also a prenominal determiner present (such structures are limited in English but frequent in other languages, e.g., Hungarian, cf., e.g., Abney 1987: 270-276 and Salzmann 2020):

(1) John’s every secret wish

Such examples posed a problem under the $X'$-theoretic assumptions of the Government-and-Binding era because it was assumed that heads only project one specifier (Abney 1987: 288-297). Since both the quantifier and the possessor have to occupy specifier positions of N, analyzing the previous example as in Figure 2 was not an option:

![Figure 2: Co-occurrence of possessor and determiner under the NP-hypothesis](image)

No such problems arise under the DP-hypothesis, where the possessor occupies the specifier, while the determiner is in the D-position. The respective structure is given in Figure 3.

While consistent with the assumptions at the time, the restriction to just one specifier has been given up in the meantime. One obvious reason for this are languages with multiple *wh*-fronting where at least under some analyses, all fronted
wh-phrases occupy specifiers of the same head. Multiple specifiers are also frequently postulated in scrambling languages. See, e.g., Heck & Himmelreich (2017) for cases where multiple scrambling targets different specifiers of v.

Even in languages like English where there is no overt evidence for several specifiers of the same head being occupied at the same time, multiple specifier configurations can arise during the derivation, e.g., when a wh-object undergoes successive-cyclic movement via Spec,vP.

3 Concepts of headedness and their implications for the NP/DP debate

I take the following concepts of headedness to be well-established and uncontroversial since they rely on simple phrase-structural properties:\(^2\)

- the head and the complement are in an asymmetric relationship
- the features of the head are present on the maximal projection

As far as I can tell, these criteria are shared by most contemporary syntacticians, which makes them largely theory-neutral (as long as phrase-structure is adopted).

\(^2\)I ignore semantic concepts of headedness as discussed in Zwicky (1985), since they generally do not lead to useful results w.r.t. the relevant properties: In a PP or an Aux-VP-combination, one will classify the noun or the verb as the semantic head. But with respect to their syntactic behavior, it is clear that the preposition and the auxiliary are the heads instead. Consequently, nothing much can be gained by classifying the noun as the semantic head of the noun phrase.
I will now explore the implications of these concepts for the NP/DP debate. The first property of heads has consequences for selection and form determination between D and N. The second affects the distribution of the constituent of which X is the head and its interactions with material outside its projection w.r.t. selection and agreement. Most of these arguments are discussed in more detail in Salzmann (2020).

3.1 Head/non-head asymmetry

This asymmetry is very clear when we look at verbs and their arguments: It is the verb that selects the argument, e.g., an NP, and it is the verb that determines its form, e.g., by assigning it a case.

3.1.1 Selection

When we look at the noun phrase, the result of applying this criterion is not fully clear. On the one hand, D-elements like the definite determiner do not occur without a noun. On the other hand, there are noun phrases without an overt determiner, e.g., with bare plurals:

(2) books

This might suggest that the determiner is the head. However, this is in fact far from clear since there is a large body of literature suggesting that in cases like the one just mentioned, there is in fact a silent determiner (I will come back to this below). Note also that the determiner must be present with singular nouns.

Another aspect to be considered when applying the selection criterion is to ascertain whether one is dealing with syntactic or semantic selection. The fact that the determiner requires a noun could simply be due to the fact that it is specified to combine with a predicate to return an individual (cf. Longobardi 1994). However, such interactions also exist between adverbs and verbal projections of different sizes, but nobody would treat the adverb as the syntactic selector. Furthermore, nothing in the semantic composition requires D to be the syntactic head (cf. Bruening 2009: 31 for more discussion).

In the case at hand, however, it can be shown that semantic selection is not sufficient. As pointed out in Larson (2019), determiners cannot combine just any predicate. Rather, they require a nominal predicate:

(3) Every man/happiness/*happy
This suggests indeed that D selects N. Under the assumption that only heads can select (cf. also Zwicky 1985 for discussion), this would argue in favor of the DP-hypothesis. While arguably the standard assumption, there have been proposals suggesting that non-heads can select, too, see Bruening et al. (2018), who argue for selection by D under the NP-hypothesis. Thus, one probably shouldn’t draw any strong conclusions from this. \(^3\)

### 3.1.2 Form determination

Form determination refers to phenomena like case-government and morphological selection in verbal complexes (where the auxiliary/functional verb determines the form of the lexical verb). In the following example, each verbal element determines the form of the immediately subordinate verb (from Bruening 2009: 30):

\[(4)\] I might have been being handed some cocaine (when the police caught me).

It is difficult to apply the criterion to the noun phrase, though. Bruening (2009) argues that the noun should be considered the head because its features determine those of NP-modifiers like adjectives and determiners, which show concord with the head noun in gender and number. \(^4\) However, concord is to be distinguished from government. In government by verbs, a verb governing accusative case on an object is not accusative itself; it does not share a feature with the object; rather, it assigns a feature to the object for which it is not specified itself (case is just a probe feature). Concord, on the other hand, involves the sharing of features.

There are, to my knowledge, no cases of form determination within the noun phrase that would clearly identify either D or N as the head. Strong and weak

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\(^3\) A popular concept of headedness is obligatoriness. It overlaps with the asymmetry argument in that the selector is also obligatory (unless it is elided, which is irrelevant, as this is phonetic deletion). The limits of the argument become clear once cases are considered where the dependent argument cannot be omitted. This not only holds for objects of verbs like devour, but also for complements of prepositions. W.r.t. the noun phrase, we can observe that both determiner and noun are present and neither can be omitted (assuming there to be a silent determiner with bare plurals). Consequently, the obligatoriness criterion leads to an inconclusive result when applied to the noun.

\(^4\) Double definiteness in Germanic could potentially be considered a case where D determines features of the noun, but that largely depends on one’s analysis of the phenomenon, and it is far from obvious that this phenomenon should be subsumed under concord, see, e.g., Schoorlemmer (2012) for recent discussion.
inflection on adjectives in Germanic (where the adjective covaries with the definiteness/shape of the D-element) shows that D can affect the form of other constituents within the noun phrase. This may suggest that D is indeed a head, from which one may conclude that it must be the head of the noun phrase. While plausible, it relies on the assumption that probes must be heads and cannot be phrasal. While the predominant view, alternative conceptions have been proposed. Probing by phrasal elements is arguably inevitable if concord within the noun phrase involves a phi-probe on A targeting N (and if A is adjoined to NP). Thus, no argument can be made for either the NP- or DP-hypothesis on the basis of form determination.

3.2 The features of the head are present on the maximal projection

This property of heads has the consequence that it is the features of the head that are visible to the syntactic context outside the noun phrase. Features of other noun phrase internal constituents, however, are less visible.

This has the following syntactic implications: First, the head determines the distribution of the phrase since its category label is visible on the projection. Second, the head is the preferred element for higher heads to interact with. This can be seen in that the head/the features of the head are the preferred target for selection and agreement.

3.2.1 Distribution

The question is whether the distribution of noun phrases is due to the categorial properties of D or those of N. Since the distribution of pronouns and noun phrases is very similar and since verbs can be combined with both nouns/noun phrases and pronouns, this would seem to favor the DP-hypothesis; one could simply state that verbs generally combine with D(Ps). However, given that pronouns are frequently reanalyzed as D-heads taking a silent NP-complement (Elbourne 2005), it is not inconceivable that they could also be reanalyzed as NPs with only the determiner overt as in the figures in Figure 4.

Thus, in either case, the similar distribution of nouns/noun phrases and pronouns would be due to whatever categorial feature is on the maximal projection

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5 Another possibility may be the genitive of quantification in Slavic, where the NP in the scope of the quantifier/numeral appears in the genitive. If quantifier/numeral occupy the head of the DP, this would indeed represent a case of form determination. In some of the analyses, however, cf., e.g., Bošković (2006), the quantifier actually occupies a specifier position, which renders the argument inconclusive.
in both cases, viz., either D or N. Thus, arguments from distribution do not help to decide the NP/DP-debate.\(^6\)

3.2.2 Selection from outside

There are three different aspects of selection that are relevant here, viz., selection of particular phi- or definiteness features of noun phrases, categorial selection, and third, selection of particular lexical items within noun phrases in the context of idioms, addressing an argument from Bruening et al. (2018).

3.2.2.1 Selecting features of D vs. N

Morphological selection is assumed to target features of the head in a selector’s complement. In the case of verbal complements, this can be features such as +/- wh, +/- V2, +/- subjunctive or specific non-finite forms (participle, bare infinitive, to-infinitive).

As pointed out in Bruening (2009), there do not seem to be any cases where the verb selects D-related properties such as a particular definiteness value or particular determiners (but see the next subsection). This does not support the DP-hypothesis. However, one also does not find any cases where a verb selects properties of N. One does find semantic selection, e.g., selection of an animate/inanimate noun, but I am not aware of any cases where the verb selects any particular morpho-syntactic features of N like [gender] or [number] (to the extent that the latter really is a feature of N and not of Num). Consequently, the facts from morphological selection are inconclusive w.r.t. the NP/DP-debate.

3.2.2.2 Categorial selection

Bruening et al. (2018: 6) claim that there is an important asymmetry between the selection of verbal and nominal complements:

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\(^6\)Pronouns sometimes display different distribution than nouns, but that usually concerns weak pronouns. For instance, in German, weak pronouns are fronted to the Wackernagel position and weak object pronouns cannot occur in Spec,CP. However, this restriction is not primarily about their categorial status but about their information-structural possibilities and, associated with that, their prosodic weight (which in some works, however, is reanalyzed as a categorial difference): none of these restrictions apply to strong pronouns.

German personal pronouns are different from demonstrative pronouns in important respects that argue against a silent NP-complement, see Salzmann (2020: 6, fn. 4) for discussion.
While verbs can select verbal complements of different sizes like CP, TP, vP and VP, there do not seem to be any cases where verbs select nouns of different types, e.g., DP vs. NP.

While this is generally correct, there are cases that suggest that categorial selection of different types of noun phrases may be necessary after all. This holds quite generally for pseudo-incorporation, which often involves NP-objects, which are predicates and thus compose differently with the verb. Crucially, contrary to the claims in Bruening et al. (2018); Bruening (2020), it is not the case that each verb of a language can occur with both ‘regular’ and pseudo-incorporated nouns. The class of verbs that allows pseudo-incorporation is always restricted. For instance, as discussed in Kallulli (1999), in Albanian, a language that generally allows bare count singulars, pseudo-incorporation is blocked with individual-level predicates like ‘love’, ‘hate’, ‘admire’, ‘respect’. Furthermore, it is often observed that verb and noun together express an ‘institutionalized activity’, see Dayal (2011: 164-165). There is thus clearly a selectional component. Under the DP-hypothesis, one can state that some verbs allow the selection of NPs in addition to DPs. Under the NP-hypothesis, the difference can arguably only be captured by means of semantic selection, viz., some verbs can select predicates in addition to individuals.

However, not all cases can be handled by means of differences in semantic selection. Erschler (2019) discusses a comitative preposition in Ossetic that selects NumP but is crucially not compatible with DP (he shows that the selection must be morphosyntactic rather than semantic). The need for categorial selection is even more obvious w.r.t. the distribution of bare noun constructions and weak definites. Both are semantically very similar in that they covary under ellipsis and quantification and do not support anaphora (Carlson et al. 2006, Aguilar-Guevara 2014). The following two examples illustrate covariation under quantification. In both cases, a distributive reading is possible (in fact by far the most salient if not even only reading).

(5) a. Jeder Schüler spielt Klavier. (German)  
every student plays piano  
‘Every student plays the piano.’

b. Jeder Schüler bleibt im Bett.  
every student stays in the bed  
‘Every student stays in bed.’

What is relevant in the case at hand is that the two construction types are in complementary distribution within a language; given that they have the same
semantics, the distribution of the presence/absence of the definite article cannot be captured in semantic terms. The fact that the distribution has to be captured in morphosyntactic terms becomes particularly obvious once English is compared with German. While there are cases where the languages pattern the same (e.g., uses of the weak definite construction as in ‘take the bus’ or the bare noun construction as in ‘take to court’), there are several cases where the distribution is the opposite. English uses the weak definite in the expressions \textit{play *(the) piano, read *(the) newspaper, listen to *(the) radio}, while German uses the bare noun construction in these cases. However, it is not always the case that a weak definite in English corresponds to a bare noun in German. The reverse can also be found: We find bare nouns in the following English expressions \textit{stay in (*the) bed, go to (*the) church, be in (*the) jail}, while German requires the weak definite.

How can this distribution be captured and what does it imply for the NP/DP debate? Under the DP-hypothesis, one can handle the distribution by means of categorial selection. Certain verbs or prepositions (in certain collocations) select either a full DP as in \textit{take the bus}, other verbs or prepositions select a bare NP in certain cases as in \textit{stay in bed}. Under the NP-hypothesis, the challenge arises to ensure that in some cases only a bare noun is possible. However, determiners are modifiers under the NP-hypothesis and therefore it should always be possible to add them (with count nouns). One cannot use selection here: One cannot assume that V/P selects an N which in turn selects nothing.

3.2.2.3 Selection of D-elements in idioms

Bruening et al. (2018) and Bruening (2020) discuss selection relationships in conventionalized expressions/idioms. They show that these expressions always consist of (potentially a sequence of) local relations, which are mainly government relations between heads. There can be open slots, but they never affect heads in the government sequence but only left branches or the lowest complement. This is illustrated by the following German example:

(6) Gefahr laufen, zu ...

\begin{center}
\begin{tabular}{ll}
risk & run \\
\end{tabular}
\end{center}

‘run the risk to ...’

Here, the verb and the object are fixed, as is the specification of the non-finite complement clause attached to the noun, which has to be a \textit{to}-infinitive. However, everything else in that non-finite clause is open. The open slot is the structurally lowest position. Open slots in the middle of the government sequence, however, do not seem to be found. For instance, while there are idioms involving V+P+N, there are no idioms involving just V+N with P being completely open.
While this may seem like a complicated and counter-intuitive approach to idioms (and it is not fully clear how such an idiom would be represented in the lexicon), it should be pointed out that this view avoids the pitfalls of constituency-based approaches since idioms crucially need not form a syntactic constituent. Thus, Bruening’s approach seems like an interesting proposal to capture what a possible idiom can look like.

What is relevant in the current context is that, according to the authors, there is an important asymmetry between the verbal and the nominal domain. While conventionalized expressions can involve verbs selecting functional heads with particular properties, e.g. +wh-clauses (as in know which way the wind blows), the to-infinitive discussed above or particular prepositions, there do not seem to be conventionalized expressions involving nominals where the D-position is fixed. They argue that even if there is a default specification for the D (e.g., the or a or no determiner at all), they argue that the choice of D can always vary. The type of examples Bruening has in mind are as follows: the idiom foot the bill normally takes the definite determiner, but one can find variations as in the following example:

(7) Taxpayers must foot another bill

The same goes for idioms with indefinite determiners. The idiom beat a dead horse, but one can find variants like the following:

(8) politicians who continue to beat the dead horse that all the economy needs to be robust is for rich people ...

https://www.english-corpora.org/iweb/

Crucially, what cannot vary, however, is the content of N. This strongly suggests that N+V form a closer unit than N and D and thus favors the NP-hypothesis. Under the DP-hypothesis, one would expect the D-position to be fixed.

In what follows I will take issue with this argument (see also Larson 2019 for similar criticism). First, both in English and in German, there is usually a canonical form for the D-position, even if the D-position is to some extent variable. For instance, in the following two German idioms, it is clear that the canonical form is either definite or indefinite:

(9) a. ins Gras beissen
   in.the grass bite
   ‘die’

b. jemandem einen Korb geben
   to.someone a basket give
   ‘reject someone’
Thus, if there is a default specification, this means that we have rather specific knowledge about the form of the D-position. Thus suggests that selection is needed after all. Second, there are many idioms where no flexibility of the D-position can be found, neither via google nor via the DeReKo-corpus, the largest corpus of written German (https://www1.ids-mannheim.de/kl/projekte/korpora.html). Here are a few German examples where the D-position is either empty (bare singular, bare plural), definite or indefinite:

(10)  
a. Leine ziehen  
leash pull  
‘to get lost’  
b. Bände sprechen  
volumes speak  
‘to speak volumes’  
c. die Flinte ins Korn werfen  
the shotgun into the grain throw  
‘to give up’  
d. ein Licht aufgehen  
a light appear  
‘to dawn upon’

Third, concerning variability, one has to distinguish different cases. There are indeed cases of free variation. Some German examples can be found in Fleischer (1982: 209), of which I represent one where the determiner can be ‘all’, ‘both’ or ‘the’:

(11) alle / beide / die Hände voll zu tun haben  
all both the hands voll to do  
‘Have one’s hands full’

In many other cases, the variation largely involves creative language use that is generally possible with idioms but not indicative of an open slot. Often, the effect of choosing different Ds leads affects the quantification of the event (cf. foot another bill above). As competent speakers and cooperative hearers, we can also play with this. For instance, while the following opaque idiom normally does not allow any variation regarding the D-position, once we force it, one can probably obtain a plausible interpretation nevertheless (recall that ins Gras beissen means ‘to die’):
3 The NP vs. DP-debate and notions of headedness

(12) in ein anderes Gras beissen als sein Vater
     in a different grass bite like his father
     ‘die in a different way than his father’

Thus, by deviating from the canonical form of the idiom, one can achieve a certain effect that is part of creative language use, but this does not imply that the D-position is generally free. Crucially, since the nature of the D-position cannot be predicted on the basis of semantics, it will have to be regulated by syntax, viz., by selection.

Consequently, the argument from idioms actually favors the DP-hypothesis because it allows direct selection of the D-position. The presence of absence of a D-element can, in addition, be handled by means of categorial selection (NP vs. DP). Under the NP-hypothesis, serious problems arise. To account for idioms without a D, one would have to prevent the presence of a D, but since determiners are modifiers, there is no obvious way to do that. Furthermore, to ensure that a specific D occurs, one would have to select an N which in turn selects a particular type of D. While doable, this solution would be more complicated than direct selection as under the DP-hypothesis.

3.2.3 Agreement

Given that the features of the head of the noun phrase are present on the maximal projection, we expect the (features of the) head to be the preferred goal for probes, e.g., those initiating agreement, outside the noun phrase. Access to the non-head will be blocked by Relativized Minimality/the A-over-A-principle (Chomsky 1973). The two different theories thus make crucially different predictions here. Under the DP-hypothesis, D will be the preferred target, while N and other constituents may be inaccessible. Under the NP-hypothesis, the reverse prediction is made: It is N that should be the preferred target, while D should be less accessible. The crucial differences are indicated in the tree diagrams given in Figure 5 (potentially inaccessible material is set in gray).

\[
\begin{align*}
\text{v +} & \quad \text{DP} \\
\text{XP} & \quad \text{D'} \\
&D \quad \text{NP}
\end{align*}
\]

Figure 5: Minimality under the DP- and NP-hypothesis

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The predictions are thus rather clear here. However, since D and N normally agree in phi-features through concord, it is difficult to find cases that would help tease apart the two theories. In Salzmann (2020) I argue that agreement switches within the noun phrase with hybrid nouns in Bosnian-Croatian-Serbian favors the DP-hypothesis: In this language, certain nouns can trigger biological or grammatical agreement on various nominal and clausal agreement targets. Importantly, there can be switches from grammatical to biological agreement but not the other way around. I argue that this follows most naturally under the DP-hypothesis. Suppose that N bears both gender features, that all heads within DP enter Agree with each other and that each head will only target the next lower head. This can lead to a situation where we find biological agreement only on D. When the verb targets the noun phrase in this case, it can only copy the biological gender feature, the grammatical gender feature on N is inaccessible. While this follows under the DP-hypothesis, the reverse would be predicted under the NP-hypothesis: Since N is the head, both gender features would be present on the maximal projection. Thus, a switch back from biological to grammatical gender between D and v should be possible, contrary to fact.\footnote{Another possible argument for the DP-hypothesis could come from agreement with quantified nouns where in some cases agreement can only target the features of the quantifier and not those of the noun, see Danon (2013), Driemel & Stojković (2019). This suggests that the quantifier is the head rather than the noun.}

4 Conclusion

While much of the literature on the NP/DP-debate discusses conceptual and theory-internal arguments, this paper has focused on arguments that make direct reference to concepts of headedness. The two criteria I have relied on are (i) the asymmetric relationship between head and non-head regarding selection and form determination and (ii) the fact that the features of the head are present on the maximal projection.

As we have seen, while several arguments turn out to be inconclusive, the facts overall favor the DP-hypothesis. W.r.t. the asymmetry between D and N, there is some evidence that D selects NPs. The facts from categorial selection and the selection of the form of D-elements in idioms suggest that it must be possible to select (i) both DP or NP and (ii) different types of D. This can straightforwardly handled by means of the DP-hypothesis, while under the NP-hypothesis, blocking the presence of a D-head in certain collocations/idioms turns out to create insurmountable problems. Furthermore, agreement facts from hybrid agreement
suggest that D is closer to noun phrase external agreement probes than N, which supports the DP-hypothesis. I thus conclude that based on simple and arguably theory-neutral diagnostics for headedness, the DP-hypothesis is at an advantage.

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3 The NP vs. DP-debate and notions of headedness


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