What does it take to host a (restrictive) relative clause?

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This paper discusses the syntactic and semantic properties of descriptive relative clauses, a type of relative clause which has mainly been discussed in the literature on Chinese. It is argued that descriptive relative clauses are found in German. In particular it is shown that German has a set of determiners which are used for discourse referents that are already uniquely identifiable. As such, they cannot be restricted by a relative clause. However such DP’s can be modified by descriptive relative clauses. It is proposed that descriptive relative clauses attach to NP while restrictive relative clauses attach to nP. Thus, the paper contributes to the question as to whether there are different relative clauses associated with different layers of projections in the nominal domain.

1 Introduction

I have two main goals in this paper, one theoretical and one empirical. I introduce each of them in turn.

1.1 Theoretical goal: Where do relative clauses attach?

On the standard assumption that the constituents found in natural languages are hierarchically organized, there have been, for a long time, two possible sites of attachment for relative clauses (RC). Ever since Partee 1975 (231), these two sites of attachment have been argued to correspond to two distinct types of RC’s:

i) Appositive RC’s (henceforth ARC) attach to the projection which includes the determiner and as such correspond to term modification.

ii) Restrictive RC’s (henceforth RRC) attach to the nominal projection which excludes the determiner and as such correspond to common noun modification.

Since Abney’s 1987 DP hypothesis, the two levels of attachment are assumed to correspond to DP and NP, respectively. This is illustrated in (1).
More recently, however, there has been an explosion of functional categories both in the verbal and in the nominal domain. Relevant for our purposes is the fact that there are more than two projections within the nominal domain. The number and labels of functional categories is still subject of much debate. In (2) below I give a structure that contains some of the more frequently assumed projections including KP (Bittner & Hale 1991), DP (Abney 1987), Num(ber)P (Ritter 1991), nP (Marantz 1997, Lowenstamm 2008, Saxon & Wilhelm 2010) as well as NP. Given the structure in (2), the question arises as to whether RC’s can attach at each functional projection.

Everything else being equal, we expect this to be the case. But if so, we may expect to find more than two types of RC’s. So is there a different type of RC associated with each layer of functional projection within the DP and how can we tell? This is the larger research question within which I investigate the particular empirical problem I am concerned with in this paper.
1.2 Empirical goal: Where do relative clauses attach?

The empirical goal for this paper is to analyze a peculiar type of RC associated with a particular kind of definite DP in an Austro-Bavarian dialect. Specifically, this type of RC is neither restrictive, nor is it appositive, as I will show. To get an initial idea as to the semantic properties of this RC, consider the example in (3).

(3) Context: the mailman who has been delivering mail in the neighborhood for the last 10 years is retired. Everyone knows this mailman. A and B have been living in this neighborhood. A tells B.

Wasst eh, da Briaftroga (wos bei uns austrogn hot) is jetz in Pension.1

‘You know, the mailman (who delivered our mail) is now retired.’

In this context, the mailman is situationally unique, such that both speech act participants know that there is only one salient mailman. As such, the RC does not serve to identify the discourse referent under discussion. This is consistent with the fact that in (3) nothing is said about other mailmen (i.e., mailmen who did not deliver our mail). Thus, the RC in (3) cannot be considered a restrictive RC. This minimally contrasts with the example in (4).

(4) Context: A and B are having a discussion about the retirement age of mailmen, and other civil servants. A complains:

Die Briaftroga und die Leit vo da Muehobfua gengan vü’z boid in pension. Zum Beispü,…

‘Mailmen and garbage collectors retire way too early. For example…
…dea Briaftroga dea wos bei uns austrogn hot is jetz in Pension
det mailman det, comp at us delivered has is now in retirement
‘the mailman who delivered in our neighborhood is now retired.’

In this context, all mailmen are under discussion and the RC serves to identify the particular mailman A wants to talk about, i.e. the one that delivered the mail in A and B’s neighborhood. In this context, something is said about other mailmen

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1 I follow the standard practice of using the informal orthography for Austro-Bavarian. This is in part based on the Standard German Orthography but changed to reflect the differences in pronunciation. To the best of my knowledge there is no official orthography. Since however we are not concerned with detailed phonological information, I will not provide phonetic transcription of the examples. The glosses include the following abbreviations: 2 = 2nd person; 3 = 3rd person; acc = accusative; cl = classifier; comp = complementizer; cop = copula; det = determiner; fem = feminine; masc = masculine; neut = neuter; nom = nominative; pl = plural; Prt = particle; refl = reflexive; s = strong; sg = singular; top = topic; w = weak
(i.e., there may be some that have not retired yet, etc.). As such, the RC in (4) can be considered an RRC. Note that the difference between (3) and (4) correlates with a difference in the form of the determiner: if there is a unique mailman, as in (3), the determiner is used in its reduced form, sometimes referred to as the weak determiner (henceforth Det_w); if there is no unique mailman salient in the discourse context, as in (4), a different form of the determiner is used, namely the strong determiner (henceforth Det_s). Crucially, Det_s cannot be used in the context of situationally unique referents, while Det_w cannot be used if the discourse referent is not unique, as we will see.

The core problem I wish to address in this paper concerns the proper characterization and analysis of the RC in (3). As mentioned above, it does not appear to be interpreted as an RRC: the nominal it modifies already denotes a unique individual. Moreover, I will show that it also does not behave like an ARC. So what type of RC are we dealing with?

1.3 The proposal in a nutshell

The core proposal I argue for in this paper is summarized in (5). I propose that the third type of RC identified in (3), corresponds to so called descriptive RC’s (also known as characterizing RC’s) known in particular from Chinese languages (see del Gobbo 2005 for a recent analysis and relevant references). I further propose that descriptive RC’s (henceforth DRC) attach at the NP level while restrictive relative clauses attach at the level of nP. I further argue, based on the properties of Det_w, that the nP layer serves as the basis for contextualization: whenever a given referent must be interpreted relative to the discourse context, nP must be present. I implement this by assuming that Spec nP hosts a discourse sensitive variable (labeled C in (5)). Since RRC’s are introduced at nP, contextualization is possible. In contrast, since DRC’s are introduced before C is introduced, it cannot serve to restrict the contextually relevant set of referents.

(5) Three sites of attachment for three types of RC’s
I develop this argument as follows. I start in section 2, with a brief review of the properties of ARC’s vs RRC’s. This will serve as a starting point to explore the properties of DRC’s in section 3. I show that they behave neither like RRC’s nor like ARC’s. In section 4, I show how the analysis introduced in (5) accounts for the properties of DRC’s. In section 5, I briefly discuss and dismiss previous analyses of Det, and their behaviour with respect to RC’s. Finally, in section 6, I summarize and discuss the implications of the analysis, as well as avenues for further research.

2 Restrictive vs. appositive relative clauses

The difference between RRC’s and ARC’s has been widely discussed in the literature (see for example Fabb 1990, de Vries 2006 among many others). Here I briefly summarize those differences that play a role in distinguishing DRC’s. I start with the interpretive differences associated with the head of the relative clause. An RRC forms an integral part of the definite description: it is necessary to determine the referent of that description. For example in (6), the RRC (underlined) serves to identify the relevant young man (i.e., there may be several young men contextually relevant).

(6) The little boy whom you gave the balloon yesterday is Mary’s son.

In contrast, an ARC provides extra information about its external head noun the referent of which is determined on independent grounds. This is illustrated in (7) where the head noun is the moon, a unique individual, which need not be restricted to be identified.

(7) The sun, which seems to be much hotter these days, will rise at 5.21 tomorrow.

Crucially, for our purposes, the difference between RRC and ARC is not restricted to interpretive differences between their nominal heads. Rather the differences go along with formal differences associated with the RC itself. For example, RRC’s but not ARC’s may contain variables that are bound from outside of the RC (BVA). Second, RRC’s but not ARC’s may be extraposed (Ziv & Cole 1974). Third, ARC’s but not RRC’s may contain speaker-oriented adverbs. Finally, the two types of RC’s also differ in their intonational properties: ARC’s display comma intonation (similar to parentheticals) while RRC’s don’t. Instead they form a major phrase (see for example Selkirk 2005). This is summarized in
table 1.2

Table 1. Restrictive vs. appositive RC’s

<table>
<thead>
<tr>
<th></th>
<th>function</th>
<th>BVA</th>
<th>xtrapo.</th>
<th>S-adverbs</th>
<th>intonation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC</td>
<td>extra info</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>comma</td>
</tr>
<tr>
<td>RRC</td>
<td>integral</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>major P</td>
</tr>
</tbody>
</table>

In addition, ARC and RRC can also be distinguished on the basis of the relative pronoun and/or complementizer that introduces them. In particular, ARC’s in English must be introduced by a relative pronoun (i.e., a wh-word) while RRC’s can but need not be introduced by a relative pronoun, or a complementizer. This is summarized in table 2.

Table 2. Restrictive vs. appositive RC’s

<table>
<thead>
<tr>
<th></th>
<th>relative pronoun (wh-word)</th>
<th>complementizer</th>
<th>Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC</td>
<td></td>
<td>that</td>
<td>✓</td>
</tr>
<tr>
<td>RRC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The diagnostics to distinguish between ARC’s and RRC’s are similar in German. This will allow us to explore the properties of DRC’s.

3 Exploring descriptive relative clauses

To explore the properties of DRC’s we will proceed as follows. We start by investigating the properties of the head of the relative clause, establishing that it does indeed denote a (situationally) unique individual (section 3.1). We then investigate properties of RC’s headed by DP’s which denote unique individuals establishing that they are neither appositive nor restrictive (section 3.2). Finally we show that DRC’s also differ in the way they can be introduced (relative pronoun vs. complementizer; section 3.3).

3.1 Definite DP’s that refer to unique individuals

Recall that there is difference between the RC’s in (3), headed by a definite DP with Det\(_w\) and the one in (4), headed by a definite DP with Det\(_s\). In particular, I have claimed that Det\(_w\) is only felicitous in contexts where the discourse referent is unique. The purpose of this subsection is to investigate the properties of weak determiners in more detail in order to establish that they do indeed denote a

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2 For reasons of space I cannot give examples to illustrate these differences. See the references cited for relevant examples.
unique individual.

The difference between strong and weak determiners in dialects of German has been subject of considerable attention for the last 40 years. It was first documented for a dialect of Frisian (Fering) by Ebert 1971 and has since been described for a number of different dialects (Heinrichs 1954, Hartmann 1967: Rhineland; Ebert 1971: Fering (Frisian); Hartmann 1982: Mönchen-Gladbach; Schuster & Schikola 1984: Viennese; Scheutz 1988: Bavarian; Brugger & Prinzhorn 1996: Austro-Bavarian; Himmelmann 1997: Köln; Schmitt 2006: Hessian; Schwager 2007: Bavarian; Leu 2008: Swiss; Schwarz 2009: Standard; Waldmüller 2006: Standard).

Consider the following examples from Ebert 1971 and her description.

(8) a. A hünj hee tuswark
det₆ dog has tooth.ache
‘The dog has a tooth ache.’
b. Di hünj hee tuswark
det₇ dog has tooth.ache
‘The dog has a tooth ache.’

“Both utterances presuppose that the hearer already knows which dog is meant. But the presuppositions for [the two forms] are of a different nature. [ii] is an adequate utterance if the dog was specified in the preceding text; the D-article then refers anaphorically to the text referent. [iii] presupposes that the intended dog does not need to be specified any further, because there is only one dog at the time and place of the speech act that could be meant.” (Ebert 1971: 83; translation Schwarz 2008: 27)

In essence, Det₆ is used anaphorically, while Det₇ is used for unique referents. This seems to be consistent across the different German dialects. The dialect under investigation in this paper is Austro-Bavarian. The paradigm for both determiners is given in table 3 where the left half lists Det₆ and the right half lists Det₇. ³

Table 3. Strong determiner paradigm

<table>
<thead>
<tr>
<th>Det₆</th>
<th>m.sg</th>
<th>fem.sg</th>
<th>neut.sg</th>
<th>Det₇</th>
<th>m.sg</th>
<th>fem.sg</th>
<th>neut.sg</th>
<th>m.sg</th>
</tr>
</thead>
<tbody>
<tr>
<td>nom</td>
<td>dea</td>
<td>die</td>
<td>des</td>
<td>da</td>
<td>d</td>
<td>(i)s</td>
<td>da</td>
<td></td>
</tr>
<tr>
<td>acc</td>
<td>den</td>
<td>die</td>
<td>des</td>
<td>(i)n</td>
<td>d</td>
<td>(i)s</td>
<td>(i)n</td>
<td></td>
</tr>
<tr>
<td>dat</td>
<td>dem</td>
<td>dea</td>
<td>dem</td>
<td>(i)m</td>
<td>da</td>
<td>(i)m</td>
<td>(i)m</td>
<td></td>
</tr>
</tbody>
</table>

³ For the purpose of this paper I ignore plural determiners.
I now show that the two determiners differ in their context of use. What is of interest for the present purpose is that Det$_w$ is only felicitous if the discourse referent is unique. This is reflected in the constraint in (9) proposed by Brugger & Prinzhorn 1996.

(9) NP is introduced by Det$_w$ iff $|NP|=1$ in D
    (where D is the domain of discourse)

In what follows we see evidence for this constraint. Much of the following data discussion is taken from Schwarz 2009, who analyzes the difference between strong and weak determiners in Standard German (see section 5.3 for a comparison between his analysis and mine).

First, given the uniqueness constraint, it is predicted that nominal phrases that are inherently associated with a unique referent will be introduced by Det$_w$. This is indeed the case. Names (10), dates (11), and superlatives (12) have to be introduced by Det$_w$.

(10) a. I hob n'/#den Hons gsegn. I have det$_w$/det$_s$ Hans seen
    ‘I have seen Hans.’
    b. I woa no nia in da/#dea Türkei. I was yet never in det$_w$/det$_s$ turkey
    ‘I have never been to turkey.’

    today is det$_w$/det$_s$ 19$^{th}$ June
    ‘Today is June 19th.’

(12) Ea woa gestan da/#dea Beste. He was yestreday det$_w$/det$_s$ best
    ‘Hans dances the best.’

Similarly, DP’s that denote unique functions (13), unique relations (14), or unique body parts (15), also have to be introduced by Det$_w$.

(13) Noch jedem Spü muass da/#dea Valiera wos ausziagn.
    after each game must det$_w$/det$_s$ loser indef take.off
    ‘After each game, the loser must take off a piece of clothing.’

(14) Wie geht’s’ n da/#dea Frau? how goes’it prt det$_w$/det$_s$ woman
    ‘How is your wife doing?’
(15) Host da  n’/*den Kopf onghaut?
     Have you det,./det, head banged
    ‘Did you bang your head?’

More examples of Det_w introducing DP’s which denote unique individuals are given below. They differ in the type of context relative to which the discourse referent is unique. In (16), the cabinet is unique in the immediate situation use (in the sense of Hawkins 1978). This could be uttered by a husband who knows that his wife is looking for her glasses. In (17), the dog is unique in the larger situation use. This sentence could be uttered by someone telling a friend about an attempted break-in at his neighbor’s house. And finally, in (18), the sun is unique in the global situation use.

(16) Dei Brün is auf da/#dea Kredenz
     your glasses is on det,./det, cabinet
    ‘Your glasses are on top of the cabinet.’

(17) Da/#dea Hund hot die Einbrecher vajogt
     det,./det, dog has det burglars chased.away
    ‘The dog has chased away the burglars.’

(18) D/#die Sun geht heit um hoib sechs auf
     det,./det, sun rises today at half six up
    ‘Today, the sun rises at 5.30.’

Next, generics are also introduced by Det_w, no matter whether the noun is in the singular or in the plural, as shown in (19).

(19) a. Da/#dea Wal wird boid aussteam
     det,./det, whale will soon go extinct
    ‘The whale will soon go extinct.’

     b. D/#die Wale wean boid aussteam
     det,./det, whale.pl will soon go extinct
    ‘The whale will soon go extinct.’

Finally, Det_w must be used for non-referential DP’s such as idioms (20) and what has been referred to as ‘bare singular noun phrases’ (Stvan 1998).

(20) Hiatz geht’s um d’/#die Wuascht
     now goes’it about det,./det, sausage.
    ‘Lit.: Now, it’s about the sausage.’
    ‘It’s now or never.’
(21) Ea geht no ned in die Schui.
He goes yet not in detw/det school
‘He doesn’t go to school yet.’

Interestingly, Detw cannot be used if the DP anaphorically refers to a previously introduced discourse referent, as shown in (22).

(22) In da Stodtbücherei gibt’s a Buach über Kanada.
in det townlibrary exists it a book about Canada
Letzens woa I doat und hob ma des Buach ausboagt.
Recently was I there and have me detw/det, book borrowed
‘In the public library, they have a book about Canada. Recently, I was there and borrowed that book.’
(adapted from Schwarz 2009: 24 (25))

This is particularly interesting, because it is not immediately clear why the uniqueness requirement in (9) would rule out Detw in (22). One might think that the introduction of the discourse referent in the preceding sentence would suffice to render the discourse referent unique in D. But this doesn’t seem to be sufficient to use Detw. A similar point is made by the example in (23). In this context there is a unique house that A is pointing to, but nevertheless Detw is infelicitous – it doesn’t support deictic reference.

(23) Context: A points to a house (the only one in the immediate surrounding) and asks B:
Gfoit da des Haus?
like you detw/det, house
‘Do you like this house?’

In sum, we have the following differences in the context of use for Dets and Detw, respectively.

Table 4. Distribution of Dets and Detw

<table>
<thead>
<tr>
<th></th>
<th>Dets</th>
<th>Detw</th>
</tr>
</thead>
<tbody>
<tr>
<td>situationally unique</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>generic</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>anaphoric</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>deictic</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Note that the notion situationally unique is not quite enough, since there is a sense in which the referent of an anaphoric or deictic DP is also situationally
unique. The difference between those contexts in which Det\textsubscript{w} is felicitous and those in which it is not has to do with whether or not the uniqueness of the referent must be established in current discourse. Det\textsubscript{w} is used if the uniqueness of the discourse referent does not need to be established. It is in this sense that the use of Det\textsubscript{w} does not depend on the discourse context. As such it is crucial that we distinguish between the common ground that is independent of the current conversation (we may call it the common background) and the conversational common ground, which is sensitive to and manipulated by the ongoing discourse (see Krifka 2008).

Turning now to an analysis of this pattern, I propose that the difference lies in the selectional properties associated with the determiner. D\textsubscript{s} selects for nP while D\textsubscript{w} selects for NP, as illustrated in (24).

(24)  a. Det\textsubscript{s}

```
  DP
     /\  \
    D   nP
```

b. Det\textsubscript{w}

```
  DP
     /\  \
    D   NP
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According to the proposal introduced in (5), it is the projection of nP, which forms the basis for contextualization (represented as C in (24)a). I propose, that C provides the basis for context dependence, such as domain restriction, anaphora, and contrast sets. On this account then, the impossibility for Det\textsubscript{w} to be dependent on the discourse context is structurally conditioned. It follows from the absence of an nP complement which in turn results in the absence of C. In the absence of C, this DP cannot be anaphoric or deictic. Furthermore, this will

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4 At this point the postulation of C associated with Spec\textsubscript{nP} should merely be taken as a way of implementing the empirical generalization. I have nothing to say about the theoretical status of C. See Stanley & Szabó 2000 for the claim that domain restriction is associated with NP (rather than for example D). See, however Gillon 2006, for a different view. By contrast set I mean a set of alternatives of referents with the same property introduced by NP. As such it is similar but not identical to the familiar set of alternatives associated with focus. See section 5 for a bit more discussion.

5 See section 5 for a comparison with previous analyses of the contrast.
allow us to understand the fact that only ARC’s and DRC’s but not RRC’s are compatible with Det\textsubscript{w}; RRC’s require a contrast set which in turn requires C.

The structural difference between Det\textsubscript{w} and Det\textsubscript{s} is consistent with the fact that only the former but not the latter allow for subextraction (Brugger & Prinzhorn 1996: 5)

\begin{align*}
(25) & \text{a. Von wem host du } [s \textbf{Possbild } t] \text{ nit gsegn?} \\
& \text{of whom have you detw passport.foto not seen} \\
& \text{‘Whose passport pictured did you not see?’} \\
& \text{b. *Von wem host du [des Possbild } t] \text{ nit gsegn?} \\
& \text{of whom have you det, passport.foto not seen}
\end{align*}

Suppose that nP – like vP – is a phase. It would then follow that extraction out of a DP headed by Det\textsubscript{s} is impossible because there is an intervening phase boundary. In contrast, extraction out of DP’s headed by Det\textsubscript{w} is possible since that phase boundary is missing, as shown in (26).

\begin{align*}
(26) & \text{a. Det}\textsubscript{s} \\
& \begin{array}{c}
\text{DP} \\
\text{Phase} \\
\text{strong} \\
\text{D} \\
\text{nP} \\
\text{C} \\
\text{n} \\
\text{NP} \\
\text{N}
\end{array} \\
& \text{b. Det}\textsubscript{w} \\
& \begin{array}{c}
\text{DP} \\
\text{Phase} \\
\text{weak} \\
\text{D} \\
\text{nP} \\
\text{NP} \\
\text{N}
\end{array}
\end{align*}

The structure in (26) may also allow us to understand the prosodic properties of the determiners. Only Det\textsubscript{w} but not Det\textsubscript{s} may procliticize to the following noun (see section 5.1 for relevant data). This is consistent with the absence of a phase-boundary below Det\textsubscript{w}.

3.2 The properties of DRC’s

We have now established that the head of DRC’s – DP’s introduced by Det\textsubscript{w} – do indeed denote individuals that are situationally unique without having to be introduced as such. We now turn to the properties of the DRC itself. I start by establishing that we are neither dealing with an ARC nor with a RRC.
It has been observed that DP’s introduced by Detₕ may host both ARC’s and RRC’s, as in (27). In contrast, DP’s introduced by Detₜ can only host ARC’s but not RRC’s, as shown in (28) (cf. Brugger & Prinzhorn 1996: 15).

(27) a. des Buach des  was  da CHOMsky gschriem hat…
   detₕ book detₕ comp detₜ Chomsky written has
   ‘The book that Chomsky wrote….’

   b. des Buach, des  was  da Chomsky gschriem hat…
   detₕ book detₜ comp detₜ Chomsky written has
   ‘The book, which Chomsky wrote….’

(28) a. I hob s Buach was  da Chomsky gschriem hat nit glesn
   I have detₜ book comp detₜ Chomsky written has not read
   ‘The book Chomsky wrote….’

   b. *I hob s Buach des (was)  da Chomsky gschriem hat nit glesn
   I have detₜ book pron was detₜ Chomsky written has not read
   ‘I didn’t read the book, which was written by Chomsky.’

At first sight, it is not surprising that RRC’s are incompatible with Detₜ given the properties associated with Detₜ we have discussed in section 3.1. Since Detₜ is only compatible with NP’s that denote individuals that are already unique, further restriction by an RRC is impossible. On this view, the incompatibility between Detₜ and RRC is semantically conditioned (see however section 5.1 for problems with this view). Rather, their function is roughly to characterize or describe the referent. I therefore analyze them as descriptive relative clauses, a type of RC which has been previously reported for Chinese (see del Gobbo 2005).

While it is true that RRC’s are incompatible with DP’s headed by Detₜ, it is not the case that all RC’s associated with such DP’s are appositive. Recall that ARC’s cannot contain bound variables. This is illustrated in (29) for English, and in (30) for Austro-Bavarian.

(29) a. [Every professor], catches a student who cheats in his, class.

   b. *[Every professor], catches John, who cheats in his, class.

(30) a. [A jeda Professor], dawischt an Studentn, der bei eam, schwindlt
   indef every professor catches detₜ student det at him cheats
   ‘Every professor catches the student who cheats in his class.’

   b. *[A jeda Professor], dawischt in Hons, der bei eam, schwindlt
   indef every professor catches detₜ Hans det at him cheats
   ‘I didn’t read the book which Hans writes.’
Crucially, as shown in (31), the RC associated with the DP introduced by Det$_w$ is compatible with a pronoun functioning as a bound variable.

(31) A jede Hausfrau, bei uns in da siedlung…
    A each housewife at us in det$_g$ neighbourhood
    … kennt n briaftroga wos ia$_i$ d post bringt
    … knows det$_w$ mailman comp her det$_w$ mail brings
    ‘Every housewife in our neighbourhood knows the mailman who brings her the mail.’

Similarly, unlike ARC’s, RC’s associated with a DP introduced by Det$_w$ are not compatible with a speaker-oriented adverb. This is illustrated in (32).

(32) Wasst eh, da Peter is saua, …
    Know.2sg prt det$_w$ Peter is mad…
    *wei’s Zimma wos’s eam übrigens z’spot gem hom so kla is
    ... as det$_w$ room comp they him by.the.way too.late given have so small is
    ‘Peter is mad because they room they gave him is so small.’

This establishes that these RC’s are not appositive. Evidence that these RC’s are not restrictive either, stems from the fact that they cannot be extraposed, as shown in (33). This contrasts with RC’s associated with DP’s introduced by Det$_s$, which are restrictive, and which may be extraposed, as shown in (34).

(33) Wasst eh, da Peter is saua, …
    Know.2sg prt det$_w$ Peter is mad…
    i) …wei s Zimma wos’s __ eam gem hom so kla is
       … as det$_w$ room comp they him given have so small is
       ‘Peter is mad because they room they gave him is so small.’
    ii) *…wei s Zimma __ kla is wos’s __ eam gem hom
       … as det$_w$ room so small is comp they him given have

(34) Wasst eh, da Peter is saua, …
    know-2sg prt det$_w$ Peter is mad…
    i) …wei des Zimma des (wos)’s eam gem hom so kla is
       … as det, room det, comp they him given have so small is
       ‘Peter is mad because they room they gave him is so small.’
    ii) …wei des Zimma so kla is des (wos)’s eam gem hom
       … as det, room so small is det, comp they him given have
       ‘Peter is mad because they room they gave him is so small.’
Next we turn to the intonation of RC’s. RRC’s typically form 2 major phrases with their head (Selkirk 2005) while ARC’s display comma intonation. The RC associated with a DP headed by Det\textsubscript{w} however forms 1 major phrase with its head. This is indicated in (35).

\begin{align*}
\text{(35)} \quad & \ldots \text{wei’s } \text{Zímma } \text{wos’s } \text{eam gem } \text{hom so kla } \text{is} \\
& \ldots \text{as } \text{det}_w \text{ room } \text{comp’they } \text{him } \text{given } \text{have } \text{so small } \text{is} \\
& \text{‘Peter is mad because they room they gave him is so small.’} \\
& \text{wei (s } \text{ZIMma wos’s } \text{eam gem hom so kla is)} \\
& \text{H}
\end{align*}

In sum, RC’s associated with DP’s introduced by Det\textsubscript{w} do not behave like RRC’s nor like ARC’s. The differences are summarized in table 5.

<table>
<thead>
<tr>
<th>Table 5. The properties of DRC’s</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BVA</strong></td>
</tr>
<tr>
<td>ARC</td>
</tr>
<tr>
<td>RRC</td>
</tr>
<tr>
<td>DRC</td>
</tr>
</tbody>
</table>

### 3.3 Introducing DRC’s

DRC’s also differ from RRC’s and ARC’s in the way they are introduced. While RRC’s can be introduced by a relative pronoun and the complementizer \textit{wos} as in (37), a DRC does not allow for a relative pronoun but instead can only be introduced by the complementizer \textit{wos} as in (36).

\begin{align*}
\text{(36)} \quad & \text{Context: } \text{A and B are having a discussion about the retirement age of mailmen, and other civil servants. A complains:} \\
& \text{Die Briaftroga und die Leit vo da Muehobfua gengan vū’z boid in pension. Zum Beisþü,…} \\
& \text{‘Mailmen and garbage collectors retire way too early. For example…} \\
& \text{…dea Briaftroga dea wos bei uns austrogen hot is jetz in Pension} \\
& \text{det mailman det, comp at us delivered has is now in retirement} \\
& \text{‘the mailman who delivered in our neighbourhood is now retired.’}
\end{align*}
Context: the mailman who has been delivering mail in the neighborhood for the last 10 years is retired. Everyone knows this mailman. A and B have been living in this neighborhood. A tells B.

Wasst eh, da Biaftroga (*dea) wos bei uns austrogn hot is in Pension.6
Know prt detw mailman comp at us delivered has is in retirement
‘You know, the mailman (who delivered our mail) is now retired.’

3.4 Summary

This concludes our exploration of RC’s headed by DP’s that are introduced by Detw. Since these DP’s refer to unique individuals even in the absence of the RC it follows that the RC cannot be restrictive. And indeed in the literature it has been claimed that RRC’s are impossible in this context. However, we have seen that such DP’s may be modified by RC’s. A detailed investigation of the properties of such RC’s has revealed that they differ not only from RRC’s but also from ARC’s. We can therefore conclude that we must recognize a type of RC different from RRC or ARC. I propose that we are dealing with a descriptive relative clause, in the sense familiar from the literature on Chinese (see for example del Gobbo 2005). The properties we have observed indicate that DRC’s form a tight unit with the head they modify: DRC’s cannot be extraposed and they form an intonational unit with their head. In what follows, I develop an analysis which captures this behavior.

4 The syntax of descriptive relative clauses

As briefly introduced in section 1.3, I propose that DRC’s differ from RRC’s and ARC’s in their attachment site. This illustrated in (5) repeated below as (38).

---

6 I follow the standard practice of using the informal orthography for Austro-Bavarian. This is in part based on the Standard German Orthography but changed to reflect the differences in pronunciation. To the best of my knowledge there is no official orthography. Since however we are not concerned with detailed phonological information, I will not provide phonetic transcription of the examples. The glosses include the following abbreviations:
In this section, I first present independent evidence for the structural difference between DRC’s and RRC’s (section 4.1). I then show that in light of the analysis of Det<sub>w</sub> developed in section 3.2, it follows that Det<sub>w</sub> may not associate with RRC’s (section 4.2).

### 4.1 A structural difference between RRC’s and DRC’s: independent evidence

At least since Bolinger 1967, we know that there are two positions available for nominal modification. This can be seen on the basis of the examples in (39), which show that adjectives may either follow or precede the nouns they modify.

<table>
<thead>
<tr>
<th>TEMPORARY (EPISODIC)</th>
<th>CHARACTERISTIC (INTRINSIC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. the stars <strong>visible</strong></td>
<td>the <strong>visible</strong> stars</td>
</tr>
<tr>
<td>b. the rivers <strong>navigable</strong></td>
<td>the <strong>navigable</strong> rivers</td>
</tr>
<tr>
<td>c. the individual <strong>responsible</strong></td>
<td>the <strong>responsible</strong> individual</td>
</tr>
<tr>
<td>d. the jewels <strong>stolen</strong></td>
<td>the <strong>stolen</strong> jewels</td>
</tr>
</tbody>
</table>

Interestingly, the difference in linear order correlates with a difference in interpretation. In particular, if the adjective follows the noun it modifies, it is interpreted as a temporary (episodic) property of the individual. In contrast, if the adjective precedes the noun it modifies, it is interpreted as a characteristic (intrinsic) property of the individual. This semantic difference can be directly observed in the following examples (see also Larson & Takahashi (2002) discussing examples ascribed to Barbara Citko):

| (40) | a. #The stars visible are invisible today. |
|      | b. The visible stars are invisible today. |
If the adjective denotes a temporary episodic property, a contradiction arises if the modified noun is predicated over the antonym of the modifier (*invisible*). In contrast, if the adjective denotes a characteristic (intrinsic) property predication over its antonym is perfectly acceptable: while these stars are usually among the visible ones, today they are covered by clouds.

Interestingly, the semantic contrast associated with the two positions for modifiers is not always the same. Beside a contrast between temporary and characteristic properties we also find a contrast between deictic and generic modification. Consider (41). If the temporal modifier *Thursday* follows the noun it modifies, it must be interpreted deictically. In contrast, if *Thursday* precedes the noun it modifies, it is interpreted generically.

(41)  

<table>
<thead>
<tr>
<th>DEICTIC</th>
<th>GENERIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>the lecture</td>
<td>the <em>Thursday</em> lecture</td>
</tr>
</tbody>
</table>

The difference in interpretation is made clear in (42). The prenominal generic use of the modifier is compatible with a reading in which a lecture that is usually held on Thursday is exceptionally taught on Wednesday this week. The announcement can be made with the sentence in (42)b but not with (42)a.

(42)  

| a. #This week, the lecture Thursday will be on Wednesday |
| b. This week, the *Thursday* lecture will be on Wednesday |

For completeness note that the prenominal position is in principle compatible with a deictic interpretation. Crucially, if both modifiers appear in prenominal position, the generic reading is associated with the modifier which occupies the position closer to the noun, while the deictic reading is associated with the modifier which precedes the generic modifier as well as the noun. Thus, in the context introduced above, where a lecture typically held on Thursday is exceptionally taught on Wednesday, the instructor could comment with (43)b, but not with (43)a at the end of the week (examples adapted from Larson & Takahashi 2002 ascribed to Jason Brenier).

(43)  

| #My Thursday Wednesday lecture was interesting. |
| My Wednesday *Thursday* lecture was interesting. |

The restriction on the order of the modifiers suggests that the deictic modifier is associated with a higher position than the generic modifier (Larson & Takahashi 2002).

Another contrast associated with the difference in modification site is that between intersective and non-intersective modification. Consider the examples below. On the intersective interpretation *beautiful* modifies the person who is
dancing and identifies him/her as a beautiful person. Similarly, *old* modifies the person who is a friend and identifies him/her as an old person. In contrast, on the non-intersective interpretation, *beautiful* specifies the dancing as beautiful rather than the person and *old* specifies the friendship as old rather than the person.

\[
\begin{align*}
(44) & \quad \text{INTERSECTIVE} & \quad \text{NON-INTERSECTIVE} \\
\text{the beautiful dancer} & \quad \text{the beautiful dancer} \\
= \text{beautiful person} & \quad = \text{dances beautifully} \\
\text{the old friend} & \quad \text{the old friend} \\
= \text{old person} & \quad = \text{long lasting friendship}
\end{align*}
\]

The difference in interpretation is made clear in the following example. Adding the antonym of the modifier will force the non-intersective reading on the modifier which is closer to the noun

\[
(45) \quad \begin{align*}
\text{a. Lena is an ugly beautiful dancer.} \\
\text{b. Pedro is a young old friend.}
\end{align*}
\]

According to Larson 1998 (among others), the two types of modification we have just seen reflect two syntactic positions: an outer and an inner position.

What is crucial for our purpose is the fact that the same structurally conditioned difference between two types of modifiers has also been observed for relative clauses in various languages. In particular, Larson 1998 argues that the structural difference between the two types of RC’s correlates with a difference between S(tage)-level and I(ndividual)-level modification such that S-level RC’s occupy a higher position than I-level RC’s. Evidence that these RC’s are indeed associated with two different syntactic positions stems from certain ordering restrictions. For example, in Japanese, the two types of RC’s may co-occur, but if they do, the S-level RC has to precede the I-level RC. This is illustrated in (46).

\[
(46) \quad \text{Japanese} \\
\begin{align*}
a. \quad \checkmark \text{S-level} & \quad \text{I-level} \quad \text{Japanese} \\
\quad [\text{Watashi-ga kinoo atta}] [\text{tabako-o suu}] \quad \text{hito-wa Tanaka-san desu.} \\
\quad [\text{1sg.-nom yesterday met}] [\text{tobacco-acc inhale}] \quad \text{person-top T.-cop} \\
\quad \text{‘The person who smokes who I met yesterday is Miss Tanaka.’} \\
\quad b. \quad \checkmark \text{I-level} & \quad \text{S-level} \\
\quad ?[\text{Tabako-o suu}] [\text{watashi-ga kinoo atta}] \quad \text{hito-wa Tanaka-san desu.}
\end{align*}
\]

Del Gobbo 2005 argues that the classic distinction reported in the Chinese literature between restrictive RC’s and descriptive RC’s reduces to a contrast between S-level and I-level modification in the sense of Larson 1998. And again,
there is a structural difference that correlates with this interpretive contrast. While S-level RC’s (RRC’s) precede the determiner, I-level RC’s (DRC’s) follow the determiner indicating that they are associated with a lower position. This is illustrated in (47).

(47) Chinese
   a. **RRC D DRC N**
      \[\text{[RRC Zuotian meiyou lai de] na-ge [RRC hen xihuan shang ke de]}
      \[\text{yesterday not come de that-cl very like go class de}
      \[\text{…xuesheng jiao Zhangsan.}
      \[\text{…student call Zhangsan}
      \[\text{‘The student who didn’t come yesterday who likes to come to class very much is called Zhangsan.’}
      \[\text{…xuesheng jiao Zhangsan}
      \[\text{del Gobbo 2005}
      \]

   b. **DRC D RRC N**
      \[\text{[DRC Hen xihuan shang ke de] na-ge [DRC zuotian meiyou lai de]}
      \[\text{very like go class de that-cl yesterday not come de}
      \[\text{…xuesheng jiao Zhangsan.}
      \[\text{…student call Zhangsan}
      \[\text{del Gobbo 2005}

Finally, a similar contrast has been reported for the Athabaskan languages Dene Suline & Tlocho Yatii in Saxon & Wilhelm 2010. In both languages RRC’s follow the head noun. In contrast, when an RC serves to characterize an entity, it precedes the head noun. The latter construction is illustrated in (48) and (49).

(48) Dene Suline
   \[\text{[tsadhëth kanjdhën] dënë}
   \[\text{beaver.furseek.nom person.pns}
   \[\text{trapper’ (lit. ‘fur-seeking person’)}

(49) Tlocho Yatii
   \[\text{[yet’a edaa] soòmbaà}
   \[\text{3.with live.nom money.pns}
   \[\text{‘the money that she lives on}

According to Saxon & Wilhelm 2010, this construction is a productive way of creating new words. As such it is common in dictionaries where lexicalized, conventionalized instances are recorded.

We have now reviewed a number of instances where a difference in the structural position of a modifier (adjectival or RC) correlates with a semantic difference. These differences are summarized in table 6.
On the analysis proposed in (5), repeated below, the structural difference leads to these interpretational differences as follows. Modifiers that are introduced below $nP$ (ie., at NP) cannot access contextual information. Consequently, they cannot be temporary, deictic, or intersective. These types of modifiers require contextualization. Since the temporary modifier is episodic, it requires contextual information; deictic modifiers similarly require access to contextual information; and finally intersective modification requires access to contextual information to create the set of alternatives. By hypothesis, the same holds for S-level as well as restrictive modifiers. In contrast, the modifiers that are introduced below $nP$ and which cannot access contextual information must be interpreted either as characteristic, generic, or non-intersective modifiers. Since I-level predicates can by definition not be restrictive it follows that they pattern with non-intersective modification. By hypothesis, the same holds for descriptive and characterizing RC’s. This is schematized in (50).

(50) Two attachment sites for modifiers

![Diagram of two attachment sites for modifiers]

We have now seen that there is independent evidence for two sites of attachment for modification. The higher modifier position requires contextual information for interpretation, while the lower position does not. On the analysis
developed here the different sites of attachment correspond to $nP$ and NP, respectively. Modifiers attaching to $nP$ can access contextual information because $nP$ hosts C, which I argue serves as the basis for contextualization. In contrast, the lower modifier position NP is not compatible with contextual information because C is not yet introduced.

4.2 **Det$_w$ cannot associate with RRC’s: A structural account**

The analysis developed so far allows us to understand the fact that DPs headed by Det$_w$ cannot host RRC’s but only DRC’s. Recall the analysis of Det$_w$ and Det$_s$ developed in section 3.1. I have proposed that Det$_w$ selects for NP’s rather than $nP$’s. As such they lack the basis for contextualization. In contrast, Det$_s$ selects for $nP$ and is therefore compatible with discourse contextual information (such as deixis, anaphora, and contextually determined sets of alternatives). In combination with the analysis of RC’s I have proposed above, we can now derive the distribution of RC’s. Det$_s$ is compatible with both types of positions and thus with RRC’s and DRC’s. In contrast Det$_w$ is only compatible with DRC’s since it lacks the position which hosts RRC’s ($nP$). This is schematized in (51).

\[
\begin{align*}
\text{(51) a. Det}_s & \quad \text{b. Det}_w \\
\begin{array}{c}
\text{DP} \\
\text{D} \\
\text{strong} \\
\text{C} \\
\text{nP} \\
\text{strong} \\
\text{N} \\
\text{RRC} \\
\end{array} & \quad \begin{array}{c}
\text{DP} \\
\text{D} \\
\text{weak} \\
\text{N} \\
\text{NP} \\
\text{DRC} \\
\end{array}
\end{align*}
\]

We have now developed a simple analysis for the incompatibility of Det$_w$ with RRC’s: it simply lacks the functional layer ($nP$) required for restrictive modification. In particular, RRC’s are used to eliminate potential discourse referents. Consequently, they require a set of alternatives of other individuals satisfying the property denoted by N which are potential candidates for discourse referents. On the analysis developed here, C is required for this contextually constraint set of alternatives, and since C is associated with $nP$, RRC’s require $nP$.

4.3 **Accounting for the differences between RRC and DRC**
So what does this analysis have to say about the differences between RRC and DRC, which are summarized in table 7.

Table 7. Differences between RRC and DRC

<table>
<thead>
<tr>
<th>function</th>
<th>extraposition</th>
<th>intonation</th>
<th>introduced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRC</td>
<td>integral</td>
<td>2 MajorP</td>
<td>(d) w</td>
</tr>
<tr>
<td>DRC</td>
<td>descriptive</td>
<td>1 MajorP</td>
<td>(*d) w</td>
</tr>
</tbody>
</table>

We have already seen why there is a difference in function. DRC’s cannot serve to restrict the reference, since restrictive modification requires a basis for contextualization (C in our analysis), which is absent in DRC’s. What about the other properties that differentiate RRC’s from DRC’s. While I don’t have a detailed analysis for the impossibility of DRC’s to extrapose, I suspect that this is prosodically conditioned. In particular, we have seen that a DRC forms one major phrase with its head. Suppose that this is in fact a requirement for DRC’s. If so, the impossibility for extraposition is derived: linear adjacency is a necessary condition for the formation of a major phrase.

Finally, we turn to the difference in what may serve to introduce the RC. RRC’s can be introduced by a relative pronoun and the complementizer was whereas DRC’s do not allow for relative pronouns but are instead limited to the use of the complementizer was. I propose that the incompatibility of DRC’s with full relative pronouns has to do with the syntax of relative pronouns. In particular, I follow Wiltschko 1998 in assuming that relative pronouns contain an elided NP, as in (52). In other words, I adopt a matching analysis for RC’s (Sauerland 1998, 2002).

(52) Relative pronoun \[ \text{DP} \text{der} \emptyset \text{nP} \]  
Wiltschko 1998

Since elided constituents are inherently anaphoric (Williams 1997) we predict that the elided nominal complement must be nP rather than NP. This follows from our assumption that NP cannot be anaphoric. It thus follows that the antecedent of the elided nP must also be an nP, but this is precisely the projection which is absent in the head of a DRC: weak determiners select for NP, not nP.

This analysis predicts that only Det, but not Detw can function as a relative pronoun because only Det allows for nP, which is necessary to establish the anaphoric relation. This prediction is borne out as shown in (53).

(53) a. dea Briaftroga, dea/*da (wos) bei uns austrogtdet_s mailman det_s/det_w comp at us delivered

7 See Wiltschko 1998 for additional reasons.
‘the mailman who delivers our mail’

b. die Müch, die/*d (wos) d gestan kauft host
det, milk det/detw comp you yesterday bought have.2sg
‘the milk you bought yesterday’

c. des Auto, des/*s (wos) si da Hons kauft host
det, car det/detw comp refl detw Hans bought has.3sg.
‘the car John bought’

In fact, as expected on the present analysis, it is a general property of Detw that it cannot be used as a pronominal form because it doesn’t license an elided nominal complement. This is shown in (54).

(54)  a. *Gestan is {da/d/s} kumma
       yesterday is detw,masc/fem/neut come

b. Gestan is {dea/die/des} kumma
       yesterday is detw,s.masc/fem/neut come

   ‘Yesterday, he/she/it came.’

Note that Wiltschko’s 1998 analysis of pronominally used definite determiners (i.e, Detw, with an elided NP complement) is generalized in Elbourne 2005 for all pronouns, including personal pronouns. Accordingly, the proper syntactic representation for personal pronouns like er (‘he’) and d-pronouns like der would be the same, as shown in (55).

(55) Elbourne’s 2005 analysis of pronouns

```
  DP
    D ... NP
       der
       er
         N
           Ø
```

This contrasts with Wiltschko’s 1998 analysis according to which only D-pronouns contain a D position with an elided NP, while personal pronouns are φPs lacking an NP complement, as in (56).
(56) D-pronouns vs. personal pronouns (Wiltschko 1998)

a. D-pronoun

\[
\text{DP} \\
\text{D} \\
\quad \text{\ldots} \\
\varphi_{\text{er}} \\
\text{nP}
\]

b. personal pronoun

\[
\varphi_{\text{P}} \\
\text{nP}
\]

Note that on Elbourne’s analysis, there is no principled reason as to why d-pronouns but not personal pronouns can function as relative pronouns.

(57) a. Der Mann, der/*er gekommen ist.

the man det/pron come is
‘the man who came’

Since both types of pronouns have the same syntactic structure, they should also have the same distribution, contrary to fact. Wiltschko’s 1998 analysis, however, derives this contrast from the presence vs. absence of an elided NP complement.

Further evidence against a generalized DP+elided NP analysis for pronouns comes from the fact that only personal pronouns but not d-pronouns can be bound (Wiltschko 1998, Déchaine & Wiltschko 2002).

(58) Jeder Mann glaubt dass *der/er stark ist.

every man det/pron believe that *det/pron strong is
‘Every man believes he is strong.’

In sum, I have shown that we can derive the inability of Det\(_w\) (as well as personal pronouns) to function as relative pronouns: neither Det\(_w\) nor personal pronouns are associated with an elided nP, which is however a prerequisite to establish an anaphoric dependency. As a consequence, we have to reject Elbourne’s 2005 generalized D+elided NP structure for pronouns.

5 Previous analyses

On the proposal developed here, the difference between Det\(_s\) and Det\(_w\) is couched in terms of their selectional properties: Det\(_s\) selects for nP while Det\(_w\) selects for NP and as such lacks the basis for contextualization and the layer for outer
modification. This contrasts with the syntactic analysis of Brugger & Prinzhorn (1996) according to which the two determiners differ in the position they occupy (section 5.1). It also contrasts with a syntactic analysis developed in Leu 2008 for the definite vs. demonstrative use of German determiners (section 5.2). Finally, I will also compare the present analysis with a recent semantic analysis developed in Schwarz 2009 (section 5.3).

5.1 Brugger & Prinzhorn 1996

According to Brugger & Prinzhorn 1996 (henceforth B&P), Det$_s$ and Det$_w$ are associated with two different syntactic positions. In particular, they propose that Det$_s$ is syntactically complex in that it associates with both the head of DP and the head of a determiner agreement position (D$_{agr}$). In contrast, Det$_w$ is analyzed as syntactically simplex associating with the lower position (D$_{agr}$) only. This is shown in (59).

(59) Two different positions for Det$_s$ and Det$_w$

\[ \text{a. Det}_s \quad \quad \text{b. Det}_w \]

The uniqueness condition associated with Det$_w$ stems from a restriction that it places on its NP complement. Namely, it requires for the cardinality of NP to equal 1 in D (as schematized in (59)b).

On this analysis, the reason for the inability of Det$_w$ to license an RRC is as follows. They argue that all RC’s associate with D$_{agr}$P. The interpretation of the RC depends on which determiner is used. In the case of Det$_s$, the RC is in a position where it is within the scope of the determiner. As a consequence, the RC is interpreted as a common noun modifier in the sense of Partee 1975, i.e., it functions as an RRC. In contrast, in the case of Det$_w$, the RC is in a position where it takes scope over the entire DP, and is thus interpreted as a term modifier, i.e., it functions as an ARC. Thus, according to this analysis, it is the position of the determiner that differs (D vs. D$_{agr}$) whereas the RC is always associated with the same position. This differs from the analysis developed here according to which it is the position of the RC that differs (NP vs. nP) along with
the selectional requirements associated with weak and strong determiners. The syntactic position of the two determiners however is identical on my analysis.

It is the purpose of this subsection to compare the two analyses. I show that the analysis proposed here has advantages over the one proposed by B&P.

First, as Schmitt 2006 points out, Detₜ is compatible with ARC’s, as shown in (60). This is unexpected on the analysis in B&P because anytime a strong determiner is used the RC will be in its scope and should therefore be restrictive.

(60) a. des Buach des (was) da Chomsky geschriem hat…
   det, book det, comp detₜ Chomsky written has
   ‘The book Chomsky wrote….’

   b. des Buach des (was) da Chomsky geschriem hat…
   detₜ book det, comp detₜ Chomsky written has
   ‘The book Chomsky wrote….’

On the basis of these data, we must conclude that B&P will have to assume at least two distinct positions for RC’s: DagrP and DP. In the case of Detₜ these two positions are available allowing for RRC’s associated with DagrP as well as ARC’s associated with DP ((61)a). In contrast, in the case of Detₜ, only DagrP is available. However, since in this position RC is above Detₜ it follows that it must be interpreted as a term modifier i.e., it functions like an ARC ((61)b).

(61) a. Detₜ
   b. Detₜ

In sum, the B&P analysis minimally has to incorporate the existence of a second position for RC’s. In addition, I have shown that DP’s introduced by Detₜ allow modification by an RC which is not appositive. Moreover, we have seen evidence that DRC’s occupy a position lower than RRC’s. This suggests that the B&P analysis has to be further accommodated to allow for DRC’s; presumably by allowing RC modification of NP. Thus, the analysis of RC’s has to incorporate distinct positions for different types of RC’s, just like the one
developed here. As such it is not more economical than the analysis developed here.

The question remains as to whether we have to incorporate two distinct syntactic positions for the two distinct determiners. In other words, is there independent evidence that would require us to revise our analysis? One of the crucial pieces of evidence for B&P are the extraction facts discussed in section 3.1. (example (25)). Recall that these facts can equally be captured by the analysis developed here: Det, selects for nP, which functions as a phase and therefore does not allow for subextraction.

In what follows, I show that the analysis according to which the two determiners occupy two distinct syntactic positions makes incorrect predictions for the morphology of the determiners. Consider again the paradigms of Det, and Detw, respectively. It is true that strong determiners are morphologically complex, as predicted by the B&P analysis: all strong determiners have an initial d-, which B&P analyze as associating with D. It is also true that the remainder of the determiner can be analyzed as agreement morphology (see also Wiltschko 1998).

Table 8. Strong determiners are morphologically complex

<table>
<thead>
<tr>
<th>Det,</th>
<th>M.SG</th>
<th>FEM.SG</th>
<th>NEUT.SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>nom</td>
<td>d-ea</td>
<td>d-ie</td>
<td>d-es</td>
</tr>
<tr>
<td>acc</td>
<td>d-en</td>
<td>d-ie</td>
<td>d-es</td>
</tr>
<tr>
<td>dat</td>
<td>d-em</td>
<td>d-ea</td>
<td>d-em</td>
</tr>
</tbody>
</table>

On the B&P analysis we would expect that all weak determiners have the form of these agreement endings. In other words, we would expect that Detw can be derived by subtracting the d- morpheme from Det,. Thus, we expect the paradigm given in the left half of table 9, which crucially differs from the existing paradigm, given in the right half of table 9.

Table 9: weak determiner paradigm

<table>
<thead>
<tr>
<th>Detw</th>
<th>PREDICTED PARADIGM</th>
<th>EXISTING PARADIGM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M.SG</td>
<td>FEM.SG</td>
</tr>
<tr>
<td>NOM</td>
<td>ea</td>
<td>ie</td>
</tr>
<tr>
<td>ACC</td>
<td>en</td>
<td>ie</td>
</tr>
<tr>
<td>DAT</td>
<td>em</td>
<td>ea</td>
</tr>
</tbody>
</table>

In comparing the predicted with the existing paradigm, we can identify two problems. First, there are some existing Detw which spell out the d- morpheme rather than the agreement morphology (feminine nominative and accusative forms). And there are some existing Detw which spell out d- plus a reduced form.
of the agreement ending (*da* for masculine nominative and feminine dative). These unexpected forms are set in boldface in table 10.

Second, the vowel we find in the agreement morphology differs from the one in the weak determiner. Consequently the form of the determiner is not predictable on the basis of a morpho-syntactic decomposition. Take for example the neuter form. On Det$_n$, the agreement morphology is formed with a full vowel /e/ while on Det$_w$ it is formed with schwa /ə/ if there is a vowel present at all (i.e., the presence of schwa is optional, indicated by the brackets in table 10).

In sum the morpho-syntactic decomposition of strong determiners does not predict the correct morphology of weak determiners.

But how does the analysis developed in section 3.1 fare in light of these facts? Since the two determiners occupy the same position (D), no morpho-syntactic decomposition is possible. Thus, we have to conclude that the morphological weakening of the determiner is phonologically conditioned. And in fact there is a straightforward phonological rule that can derive the observed forms. In particular, Det$_w$ can be derived from Det$_n$ by means of the rule in (62).

(62) Det$_w$ spells out the coda of Det$_n$ if there is one, otherwise Det$_w$ spells out the onset of Det$_n$.

Thus, there is no morpho-syntactic evidence that the two determiners differ in their morpho-syntax. Instead, they differ in their phonology such that Det$_w$ is derived from Det$_n$. The fact that Det$_w$ is derived from Det$_n$ by means of a phonological rule is expected on the analysis that they occupy the same syntactic position. It would however be an unexpected accident on the analysis according to which Det$_n$ is syntactically more complex than Det$_w$.

Finally, the 3rd assumption that differentiates the B&P analysis from the one developed here has to do with the way the uniqueness condition is derived. B&P posit an explicit constraint placed on the complement NP, namely that its cardinality be equal to 1 in the domain of discourse. In contrast, under my analysis, the uniqueness condition is a byproduct of the inability to contextualize: no contextual information can be supplied to determine the discourse referent. There are two contexts of use compatible with DP’s whose referent cannot be determined by the discourse context. i) The *generic use*: All individuals with the property denoted in N are referred to. ii) The *unique use*. If there is only one individual that satisfies the property denoted by N in the world of discourse then automatically all individuals in the world of discourse are referred to.

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Evidence that Detₖ cannot be associated with a constraint on the cardinality of NP comes from the fact that it may co-occur with plural nouns, as shown in (63).

(63) D’ Gösn san heit wieda lästig
    detₖ mosquitos are today again annoying
    ‘The mosquitos are annoying again today.’

In sum, the syntactic analysis proposed by B&P runs into several problems. First, it makes the wrong predictions for the distribution of ARC’s and therefore needs to incorporate the assumption that different RC’s attach at different layers of the functional projection. Second, it makes the wrong predictions for the morphological form of Detₖ. And third, the possibility for plural NP complements is unexpected.

5.2 Leu 2008

Leu 2008 explores the morpho-syntax of definites and demonstratives in a variety of languages (Germanic and beyond) but with special emphasis on Swiss German. He starts with two interrelated observations. First, in several languages (including German) the demonstrative is homophonous with the definite determiner. The difference between the two forms is in terms of stress: on the demonstrative reading the determiner is stressed (64)a, while on the definite reading stress falls on the noun (64)b.

(64) Standard German
    a. dér Tisch
       det.masc table
       ‘the table’
    b. der Tísch
       det.masc table
       ‘the table’ (Leu 2008: 15 (3))

The second observation has to do with the interaction between the determiner and adjectives. Consider the examples in (65) from Norwegian. The suffixal determiner is used with unmodified nouns and receives a definite interpretation (65)a. In the presence of an adjective, the pre-nominal determiner

---

8 Note that we have to assume that NumP bust be transparent for the type of nominal complement (nP vs. NP). That is, even though NumP intervenes, D must still have access to select the categorial identity of the nominal complements. That such a mechanism is independently needed is argued in Grimshaw 1991 and forms the basis for the concept of an extended projection.
is used. In this case, the determiner may but need not be interpreted as a demonstrative (65)b. Finally, in the absence of an adjectival modifier, the prenominal determiner must be interpreted as a demonstrative (65)c.

(65) Norwegian
a. hus-et
   house-DEF
b. de-t svarte hus-et
   that/the black house-DEF
   OPTIONALLY DEMONSTRATIVE
c. de-t hus-et
   that house-DEF
   OBLIGATORY DEMONSTRATIVE

Leu interprets this pattern as follows. Suppose the use of the prenominal determiner always indicates the presence of an adjectival modifier. If so, the use of the prenominal determiner in (65)b would indicate the presence of such an adjectival modifier. Leu 2008 proposes that this is indeed the case and posits a silent modifier with deictic force (HERE; following work by Kayne, capitalization indicates silence), as schematized in 0. According to this structure, the prenominal determiner occupies a phrasal position within a constituent headed by an adjective (either overt or covert). This structure is in line with research which treats demonstratives as (adjectival) phrases (Dryer 1992, p.120ff, Delsing 1993, chapter 4.3), Chomsky 1995, p.338, Bernstein 1997, p.93, Elbourne (2005 p.4, Julien 2005 among others). Note that to make this work, Leu 2008 has to assume a determiner position D, which in English is occupied by a silent determiner (THE) but which in Norwegian is spelled out in the form of the determiner which suffixes onto the noun (cf. (65)). Thus on this analysis double definite marking is expected.9

(66) Silent modifier

9 The analysis developed here does not necessarily predict the existence of double definiteness. It is however interesting to note that according to Julien 2003, the suffixal determiner is generated in n. If so, double definiteness cannot be taken as evidence for two determiner positions.
While the contrast Leu 2008 seeks to capture is different from the one I am interested here there are nevertheless important parallels that deserve attention.

Consider the contrast between the two types of determiners. The contrast I am considering is between anaphoric/deictic determiners (Detₙ) and determiners used for situationally unique or non-referential determiners (Detₑ). The contrast Leu 2008, is considering is between (deictic) demonstratives (phrasal adjectives) and simple definites. That these two contrasts cannot be reduced to one can be seen on the basis of the fact that Austro-Bavarian has both contrasts. That is, there are in fact three types of determiners. In addition to Detₑ and Detₙ, we also observe a contrast between stressed and unstressed Detₑ. The former is mostly used as a (deictic) demonstrative while the latter is used in anaphoric contexts (i.e. as a definite).

(67)  a. Déa Schnöps is teia wuan.  
   Detₑ Schnaps is expensive become  
   ‘The Schnaps got expensive.’

   b. Déa Schnops is teai wuan.  
   Detₑ Schnops is expensive become  
   ‘This Schnaps got expensive.’

Note that the presence or absence of deictic force is not the only difference between stressed and unstressed Detₑ. Stress on Detₑ is associated with contrastive focus and consequently introduces a contrast set. Thus, the sentence in (67)b is only felicitous in a context where other types or bottles of Schnaps are under consideration.

Since Leu 2008 builds the deictic component into the stressed determiner we expect it to be the basic (and stable) reading. However, this is not the case. There is a non-deictic use of stressed Detₑ as shown in (68).

(68)  Context: A and B are having a discussion about mailmen. A complains that all mailmen are lazy and that they bring the mail really late in the day. B objects:

   DéA Briafroga dea wos bei UNS austrogt kummt imma pünktlich.  
   det mailman pron comp at us delivers comes always on.time  
   ‘The mailman who delivers in our neighbourhood is always on time.’

The use of a stressed non-deictic determiner requires a modifier, in this case a restrictive relative clause. Crucially, this type of determiner still requires a contrast set. In (68), the contrast is specified by the relative clause, which itself must contain a contrastively stressed element (UNS in (68)). This is responsible for the special intonation associated with this type of clause, which is known as the hat contour (see Bühring 1997).
Note for completeness that on the analysis developed here we predict that descriptive relative clauses cannot contain focus which would specify a contrast set. This is because contrast sets require C which is not available with Det\(_w\). This prediction is borne out as shown in

\[(69)\]    
\begin{verbatim}
#da Brieftroga wos bei UNS austreigt is in pension
det mailman pron comp at us delivers comes always on time
‘The mailman who delivers in our neighbourhood is always on time.’
\end{verbatim}

Given that contrastive stress always introduces a contrast set it is not obvious that we need a special syntax or semantics for stressed Det\(_w\) that goes beyond the syntax and semantics we need for contrastive focus (Rooth 1985, Bühring 1997).

5.3 Schwarz 2009

Schwarz 2009 proposes a detailed semantic analysis of the two definites in German within the framework of situation semantics (Kratzer 2007). Before I compare his analysis with the one developed here, a few words are in order about the empirical domain.

5.3.1 Contracted P+Det\(_w\) differs from Det\(_w\)

Schwarz investigates the use of Det\(_w\) in Standard German, where it is limited to contexts immediately following a preposition. In such contexts Det\(_w\) forms a unit with the preposition. Crucially, however, in formal registers, contraction is only available with a limited set of prepositions and definite articles in certain case and gender-marked forms. Citing the Duden Grammar of German (Eisenberg, Gelhaus, Henne and Wellmann 1998, p. 323) Schwarz 2009 lists the following prepositions as allowing contractions (see also Hartmann 1978, Hartmann 1980, Haberland 1985, Cieschinger 2006, Waldmüller 2007).

\[(70)\]    
\begin{verbatim}
an, auf, bei, durch, für, hinter, in, neben, über, um, unter, von, vor, zu
\end{verbatim}

Consider for example (71). While the sentence in (71)a is compatible with a context in which there is more than one house salient in the context and the definite anaphorically, or deictically picks out one particular house, the sentence in (71)b is only felicitous if there is only one house salient in the discourse context. As such the contracted determiner appears identical to Det\(_w\) examined thus far.
a. Hans ging zu dem Haus.
   H. went to det, house
   ‘Hans went to the house.’

b. Hans ging zum Haus.
   H. went to det, house
   ‘Hans went to the house.’

According to most treatments of the two different types of determiners, the
determiner which appears contracted to the preposition in Standard German is
treated on par with the weak determiners which are restricted to colloquial speech
and dialects. Consider in this respect Schwarz’ 2009 reference to Schaub 1979,
who notes that colloquial speech in many dialects allows a far wider range of
contracted forms. On the one hand, there are more preposition-determiner
contractions possible. On the other hand, reduced forms in spoken language of
the definite article also appear after words of other category types, e.g., after
auxiliaries (72)a, complementizers (72)b, and pronouns (72)c.

a. Ich hab’s Fahrrad vergessen.
   I have=det, bike forgotten
   ‘I have forgotten the bike.’

b. Peter ist sauer weil’s Zimmer so klein ist.
   Peter is mad because=det, room so small is
   ‘Peter is mad because the room is so small.’

c. Hans hat mir erzählt dass er’s Haus verkauft hat
   H. has me told comp he=det, house sold has.
   ‘Hans told me that he has sold the house.’

Schwarz 2009: 17 (13)

The determiner in contracted preposition+determiner forms can however
not be equated with Det, elsewhere. While it is certainly the case that the context
of use for contracted preposition+determiner forms parallels that of weak
determiners, they differ in their morphological and prosodic properties. Consider
first the contraction of dative determiners with the preposition zu. While the
masculine and neuter forms are indeed identical to the contracted form elsewhere
(73)a-b, this is not the case for feminine forms (73)c. Here the contracted form is
–r which cannot be used elsewhere. Instead, Det, is da.

(73)  
\[ P + D_{\text{DAT}} \quad D_{\text{w.DAT}} \]
a. MASC I bin zum Hund hi
   I am to-det, dog there.to
   ‘I went to the dog.’

b. I hobe m Fronz a Buach gem
   I have det, Fronz a book given
   ‘I gave Franz the book.’
Moreover, not all prepositions allow for contraction with all determiners. For example, the preposition in can contract with the masculine dative determiner to form im; and in this case the contracted form is the same as Detₜ elsewhere (i.e., m). However, the feminine determiner does not participate in this contraction. In particular, given the pattern we have observed with zu in (73), we would expect the contracted form with the feminine determiner to surface as ir. That is, just like zu + der = zur, we would expect in + der to surface as *ir, which is however unattested. Instead the regular Detₜ is used in the dialect, while no special form is available in Standard German

\[ (74) \]

\[
\begin{array}{ll}
\text{a. masc} & \text{b. fem} \\
\text{I bin } \text{im Keller} & \text{*I bin } \text{ir Kich.} \\
\text{I am in the cellar.} & \text{I am in the kitchen.} \\
\text{I hob } \text{m Fronz s’Buach gem} & \text{I hob r’Maria a Buach gem} \\
\text{‘I gave Franz the book.’} & \text{‘I gave Mary the book.’} \\
\end{array}
\]

The morphological differences between the contracted determiners and Detₜ elsewhere are summarized in table 9. In the dialect investigated here, Detₜ is available for all determiners independent of gender and case. In contrast, the form of the determiner contracted to the preposition in Standard is not always the same as Detₜ and it is not available across all genders and not for all prepositions.

<table>
<thead>
<tr>
<th>Table 9. Detₜ vs. P-D contraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detₜ</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>ACC</td>
</tr>
<tr>
<td>DAT</td>
</tr>
</tbody>
</table>

="zum", "zur", "zum"
Finally, there are also prosodic differences between the determiner contracted to the preposition and Detₚ elsewhere. In particular, contracted forms must encliticize (i.e., they must form a phonological word with the preposition) as in (75)a. They can however not pro-cliticize (i.e., form a phonological word with the following word), as in (75)b. In contrast, Detₚ may either encliticize to the preceding word (76)a or pro-cliticize to the following word (76)b.

(75) \[ \text{P+Detₚ} \]
\[ \begin{align*}
    \text{a. I bin zu'm Haus gegangen} & \quad \text{encliticization} \\
    \text{I am to-detₚ house walked} & \quad \text{‘I want to the house.’} \\
    \text{b. *I bin zu m'Haus gegangen} & \quad \text{procliticization} \\
    \text{I am to detₚ-house walked} & \\
\end{align*} \]

(76) \[ \text{Detₚ} \]
\[ \begin{align*}
    \text{a. I hob'm Fronz a Buach gem} & \quad \text{encliticization} \\
    \text{I have-detₚ Franz a book given} & \quad \text{‘I gave Franz a book.’} \\
    \text{b. I hob m'Fronz a Buach gem} & \quad \text{procliticization} \\
    \text{I have detₚ-Franz a book} & \quad \text{‘I gave Franz a book.’} \\
\end{align*} \]

This establishes that determiners contracted with prepositions in Standard German, cannot be equated with the weak determiners explored in this paper (contra Schwarz 2009, Waldmüller 2007).

5.3.2 The semantics of Detₚ vs. Detₚ

The basic insight behind Schwarz’ 2009 analysis is to make use of the notion of domain restriction, couched within the framework of situation semantics (in particular, the version presented in Kratzer 2007). In particular, Schwarz argues that determiners introduce a situation pronoun (which takes the place of the domain restriction in the sense of Westerstahl 1984). On this analysis the context of use for Detₚ depends on the options for interpreting the situation pronouns they introduce. In particular, “situation pronouns can stand for a contextually salient situation (by receiving a value via the assignment function), be identified with the topic situation (via a Σ-binder below topic), or be bound by a quantifier over situations” (Schwarz 2009: 75). The uniqueness requirement associated with Detₚ is analyzed as a presupposition (i.e., Schwarz adopts a Fregian approach towards definiteness). To account for the difference between Detₚ and Detₚ, he postulates for Detₚ an additional index argument that introduces an individual variable (which is itself associated with a familiarity condition; see Heim 1982).
As such this index argument is responsible for the ability of Detₕ to be used anaphorically. This amounts to building a (phonologically null) pronominal element into strong-article definites (see also Elbourne (2005) and Neale (2004) along with an identity function. In sum, Schwarz’ 2009 lexical entries for Detₜ and Detₖ are given in (77)a and b, respectively. Both entries have a situation pronoun (sᵢ) while only Detₜ has an additional individual variable (y) responsible for anaphoric uses.

(77) a. \( \lambda s_r \lambda P. \lambda y. \lambda x. P(x)(s_r) \land x=y \)  
    b. \( \lambda s_r \lambda P. \lambda x. P(x)(s_r) \)  

We are now in a position to explicitly compare Schwarz’ 2009 semantic analysis with the one developed here. Crucially, Schwarz claims that both the situation pronoun associated with both determiners as well as the individual variable associated with Detₜ are represented syntactically (in the form of covert abstract pronouns). In his account situation pronouns replace the classic C-variables responsible for domain restriction on quantifiers (Westerstahl 1984, van Fintel 1994).

Let us assume that what I have called the basis for contextualization (C) corresponds to the situation pronoun in Schwarz’ analysis. If so, there are two non-trivial differences between Schwarz and my analysis. First, I have argued that DP’s containing Detₜ only, but not DP’s containing Detₖ are associated with C, while Schwarz argues that situation pronouns are associated with both Detₜ and Detₖ. Secondly, on my account, C is associated with nP while Schwarz argues that the situation pronoun is directly associated with the determiner position.¹⁰ This is schematically represented in (78) and (79) respectively and summarized in table 10.

¹⁰ Schwarz 2009 is not explicit about the syntactic position of the situation pronoun or the anaphoric index variable. For concreteness, I assume that both of them are associated with the specifier of DP, rather than the head D. This is consistent with their pronominal status which implies phrasal syntax, which is only compatible with the specifier position and not with the head position.
Let me briefly point out some advantages of the present analysis in which Detₗₗ lacks the basis for contextualization (C or PROₛ). First, on my account nothing special has to be said about the generic or idiomatic use of Detₗₗ. It is precisely the absence of contextual restriction which is responsible for a generic interpretation of DP’s. Similarly, the idiomatic interpretation of Detₗₗ is one in which no contextual restriction is available: in this case it doesn’t even involve reference to a particular individual.

Another piece of evidence suggesting that Detₗₗ may not be associated with contextual restriction (in the form of a situation pronoun) stems from the following consideration. Kratzer 2004 suggests that in German dialects (including Bavarian), situation pronouns may be overtly spelled out in the form
of *da*. She gives the following examples (among others) from a Bavarian TV-show.

(80) a. Wirst doch net streiten wegen [[den zwei Billietten] *da*]
    will.2sg prt not fight because det, two tickets *da*.
    ‘You won’t fight over the two tickets, will you?’

b. Des wean sich saudumm anhör’n wenn
    That would refl. real.stupid sound if
    … [[die Wölfe] *da*] zwitschern würden.
    .. the wolves *da* chirp would
    ‘That would really sound stupid if the wolves chirped.’

From Kratzer 2004

Suppose *da* does indeed spell out the situation pronoun associated with DP’s. If so, we can use it as a test to distinguish between Schwarz’ 2009 analysis of Det$_w$ and mine. Schwarz 2009 analysis predicts that *da* is possible with DP’s headed by Det$_s$ as well as DP’s headed by Det$_w$. In contrast, the analysis developed here predicts that *da* should not be possible with DP’s headed by Det$_w$, but only with DP’s headed by Det$_s$. As shown below, the analysis here makes the right predictions: *da* is possible with DP’s headed by Det$_s$ but not with DP’s headed by Det$_w$.

    I have in det$_s$ dictionary DA looked
    Anaphoric: ‘I looked in that very dictionary.’
    Deictic: ‘I looked in this dictionary here.’

b. *I hob [[im Wörtabuach] *do*] nochgschaut.
    I have in.det$_w$ dictionary DA looked
    ‘I looked in the dictionary.’

(82) a. [[Die sun] *do*] is heit wieda hass.
    det$_{strong}$ sun DA is today again hot.
    ‘The sun here is hot again.’

b. [[D’ sun] (*do*)] is heit wieda hass.
    Det$_w$ sun DA is today again hot.
    Intended: ‘The sun is hot again.’

If DPs headed by Det$_w$ are not associated with a situation pronoun, then we correctly expect that *da* cannot spell it out overtly.

Next we turn to the second difference between Schwarz’ 2009 analysis and the one developed here. This has to do with the locus of association of the situation pronoun: D in Schwarz’ analysis and $n$ in the present analysis. Note that
Stanley & Szabo (2000) argue that domain restriction associates with nouns rather than with determiners. In what follows I show that the two main arguments that have been put forth against this idea do not apply to the particular implementation of the Stanely & Szabo idea developed in this paper, namely that domain restriction (in the form of C) is associated with NP (rather than with NP).

The first argument against Stanley & Szabo’s claim that domain restriction is associated with nouns stems from Breheney (2003) and has to do with non-intersective (intensional) modifiers, like *fake*.

(83) Every fake philosopher is from Idaho.  

(Kratzer 2004)

Suppose the situation pronoun ranges over Americans. If so, the sentence in (83) may only get the interpretation in (84)a. However, if the domain restriction is associated with the noun itself, it is incorrectly predicted that the sentence would have the interpretation in (84)b.

(84) a. Every American fake philosopher is from Idaho.  
     b. Every fake American philosopher is from Idaho

Note, crucially however that Breheney’s argument against C being associated with N does not equally apply to the analysis presented here. In fact, I have specifically argued that non-intersective modifiers are associated with NP, not nP, and therefore below the basis for contextualization (C).

Second, Gillon 2006 argues that in English, bare plural NP’s are not associated with domain restriction. This is unexpected if nouns are indeed associated with domain restriction; it is however expected, if domain restriction is associated with the determiner position, which is absent in the case of bare plurals. However, on the present analysis, we may assume that bare NP’s are indeed bare NP’s with no nP. Therefore, Gillon’s argument against associating C with NP does not necessarily carry over to the analysis presented here.

This concludes the comparison of the present approach to previous analysis of strong and weak determiners.

6 Conclusion

Starting with the standard assumption according to which restrictive relative clauses differ from appositive relative clauses in terms of their site of attachment (NP vs. DP, respectively), the core goal of this paper was to explore the possibility opened up by the explosion of functional projections within the nominal phrase. Is it possible to attach relative clauses at each of the functional
layers proposed in the literature, and if so, what semantic properties are associated with each of them?

Within this general question, we have explored the syntax and semantics of a particular type of relative clause which behaves neither like a restrictive, nor like an appositive relative clause. These are the so called descriptive relative clauses, which have been discussed mostly within the literature on Chinese (see del Gobbo 2005 for references). The main proposal I have developed here was that descriptive relative clauses attach at NP while restrictive relative clauses attach at nP.

An ideal testing ground to explore the difference between restrictive and descriptive relative clauses was provided by the Austro-Bavarian dialect of German. This dialect (like many other German dialects) has two distinct types of determiners: strong determiners can be used deictically, or anaphorically, while weak determiners are used for generics, idioms, non-referential DP’s as well as in contexts where there is only one individual that satisfies the property denoted by N (i.e., situational uniques). Since the latter context (situational uniqueness) is incompatible with restrictive modification, relative clauses associated with DP’s headed by a weak determiner cannot be restrictive. To account for this difference I have proposed that strong determiners select for an nP complement while weak determiners select for NP. Since nP hosts C, which serves as the basis for contextualization, it follows that weak determiners cannot be used for referents whose identity has to be determined contextually (via anaphora, deixis, or restrictive modification). If the analysis developed here is on the right track, we may conclude that one of the core functions of n is to provide the basis for contextualization (in the form of C). Though the question remains as to what the precise syntactic and semantic properties of C are. This has to await future research. Moreover, given the properties associated with modification at the NP layer, we may conclude that NP serves as the basis for conceptualization (see Acquaviva 2009). This is illustrated in (85).

(85) Function of nominal layers

![Diagram of nominal layers]

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