On the pre-theoretical notion "phrasal head":
Ignoring the left periphery is always at your own risk.

Abstract

This paper critically examines a theoretical proposal that was devised in an attempt to
deal in a unified way with the pre-theoretical notion "phrasal head", and whose effect is, in
certain cases, to circumvent constraints imposed by the left periphery on long-distance
movement: the multi-dimensional "Grafting" mechanism of Van Riemsdijk (2006) and
references therein. The constructions for which Grafting has been invoked are examined
one by one, comparing proposed Grafting analyses with specific alternatives based on bi-
dimensional representations. It is argued that the Grafting analyses have no advantage over
their competitors in any of the cases, and that they are in fact empirically and conceptually
inferior in four of the cases and downright inapplicable in the remaining one. The paper
pays special attention to the analysis of Transparent Free Relatives, refining proposals in
Grosu (2003) and bringing into bolder relief their empirical and conceptual merits, and also
sheds novel light on the nature of the far from simple construction and of two Lakovian
amalgams.

1. Introduction

Both the descriptive and the theoretically-oriented literature have often used the term
'head' in an informal sense, in particular, in order to characterize certain types of phrases
which, much like the lexical heads of X-bar theory, necessarily share certain properties
with larger phrases that properly contain them. For example, English-type restrictive
relative constructions are said to be 'externally headed' in the sense that they exhibit a CP-
external NP which behaves in the way just indicated. To avoid confusion with 'head' in the
sense of X-bar theory, I will refer to such objects as 'phrasal heads' or 'pivots.' In certain
cases, the fact that some phrase α is the pivot of some phrase β follows straightforwardly
from the fact β is the extended projection (in the sense of Grimshaw 1991) of α's X-bar
head. For example, when β is the complex DP the tall boys who left, the boldfaced phrase is
a pivot in virtue of the fact that its X-bar head, i.e., boys is the lexical head of the entire
complex DP. In other cases, however, the behaviour of certain phrases as pivots does not
straightforwardly follow from X-bar theory, and it is with a number of such cases and with
the optimal analysis for each of them that the remainder of this paper is concerned.

The constructions to be addressed in what follows have each been the object of a number
of analyses in earlier literature, and I propose to focus here on a specific attempt to unify
them all in terms of a single generative device, to evaluate this device critically, and to
compare analyses based on it with alternative more 'conservative' analyses. The conclusion
I will argue for is that the alternative analyses are at least as good in all cases, and distinctly
superior – empirically and conceptually – in some of the cases.

The device to be considered goes by the name of 'Grafting', and was put forward in Van
Riemsdijk (2006) and a number of earlier papers by the same author (Van Riemsdijk 1998,
extension of Re-Merger (Chomsky 2004). To grasp its nature, it will be useful to consider
the schematic representations in Figures 1 – 3.
Figure 1 illustrates External Merger, as proposed in Chomsky (1993). In contrast to the technique of Chomsky (1965) for constructing hierarchical representations, which relied on phrase structure rules that take the root of a tree as point of departure and expand it into daughters that get expanded in turn until the leaves of the tree are reached, External Merger starts from lexical items (the ultimate leaves of a tree), assembling them into larger constituents, which may then undergo further merging operations, until a single node (the ultimate root) is reached. The diagram in Figure 1 shows the merger of the roots of two (possibly) complex trees A and B to form the single parent tree $\beta$.

– Figure 2 illustrates Re-Merger, a re-interpretation of Internal Merger, i.e., the formation of a chain consisting of identical full copies (Chomsky 1993), which in turn constituted a re-interpretation of what was earlier called 'movement.' In Figure 2, the node C, which was initially merged with E to form the parent node D, is subsequently re-merged with the current root of the tree that contains it, i.e., B, to form another parent node $\beta$. In virtue of this sequence of operations, C ends up having two mothers, D and $\beta$. – Figure 3 illustrates Grafting, which combines elements of Re-Merger and External Merger, in the sense that a proper sub-element of tree A, in particular, D, which was initially merged with F, is re-merged with the root of a different tree B. Due to re-merger, D ends up with two mothers, E and $\beta$, much as C does in Figure 2, but with the following difference: the outcome is a tri-dimensional representation, because the trees A and $\beta$ do not eventually get extended to a common root. Rather, no matter how far upwards each of them is extended, D is, or at least can be, the only sub-structure that they share. Grafting thus combines re-merger with multi-dimensionality.

Now, the combination of re-merger with multi-dimensionality is not a theoretical novelty. It was used, for example, in Moltmann (1992) in order to deal with certain types of coordinate structures, for example, data like those in (1), where the italicized constituents receive a 'collective' interpretation.
Neither is multi-dimensionality per se (i.e., without re-merger) a novelty. It was appealed to, for example, in Cinque (1982) in relation to appositive relatives, which were assumed to lie in a different plane than their matrix, presumably sharing a common root, but no terminals. What is novel in Grafting is the appeal to the combination of re-merger and multi-dimensionality in order to characterize constructions with pivots.

When appealing to these two combined mechanisms, Moltmann carefully emphasized the need to restrict it to coordination, in order to avoid massive over-generation. Using these mechanisms for data other than coordination, as Grafting does, thus require appropriate constraints on the generative power of the theory. Van Riemsdijk (2006, section 3), while arguing that Grafting constitutes the null hypothesis within a theory that countenances Re-Merger and distinct, structurally not yet related, sub-trees, admits that this mechanism brings about massive over-generation, which needs to be suitably constrained. In defense of the absence of such constraints at the present moment, he points out that Movement and its intellectual successors have been intensely researched for a couple of decades, while Grafting is still very young. One may perhaps rest content with this promissory note, were it not for the fact that in section 4.3, Van Riemsdijk takes a huge step away from the need to impose constraints on Grafting, being forced to make this move by considerations of descriptive adequacy (I return to this matter, providing details, in section 3). Basically, he proposes that within a theory which incorporates phasal theory, Grafting should be able to operate before the completion of the phase that most immediately contains the candidate for Grafting. This is in sharp contrast to bi-dimensional Internal Re-Merger, which may operate only after the completion of the immediately containing phase, specifically, by using its left edge to gain access to the immediately higher phase. The license to operate before phasal completion enables Grafting to circumvent cyclicity and Subjacency, that is to say, the various constraints that have been imposed on Movement/Internal Re-Merger by appealing to the left periphery of cycles/phases. What this means in effect is that, since trees A and B in Figure 3 can be extended arbitrarily far upwards, Grafting can ultimately give rise to unbounded dependencies which are ungrammatical, and which are effectively blocked within a framework confined to bi-dimensional representations for constructions that involve neither parentheticals nor coordination. I thus submit that supporters of the view that Grafting is a valid, or even optimal, mechanism for capturing the pre-theoretical notion 'pivot' have the inescapable duty of demonstrating that unwanted over-generation can be controlled by means of reasonably natural and non-adhoc constraints. Until this is done, if it ever is, all that remains to be done is to evaluate the empirical merits and/or demerits of proposed Grafting analyses, comparing them with those of alternative non-Grafting analyses. Importantly, in view of the greater generative power of Grafting, a Grafting analysis needs to be empirically superior to a bi-dimensional competitor in order to justify being preferred to the latter.

In the papers cited above, Van Riemsdijk addresses five linguistic constructions in varying degrees of detail, arguing that Grafting provides optimal analyses for them, with the added advantage of unifying these constructions in terms of a single syntactic mechanism. These are: (i) Free Relatives, (ii) Transparent Free Relatives, (iii) intensional modifiers of adjectives, such as far from, close to, and two 'amalgams' brought up in Lakoff (1974), where they were attributed to Larry Horn and Avery Andrews, and which are known in the literature as (iv) Horn Amalgams, and (v) Andrews Amalgams. In what

[1] a. John bought and Mary sold a total of ten cars.
   b. John ate and Mary drank everything that there was on the table.
follows, I propose to examine these constructions both separately and jointly, comparing the Grafting analyses proposed by Van Riemsdijk with alternative bi-dimensional analyses, the twin goals of this endeavour being to establish which approach, if any, is empirically more successful with respect to individual constructions, and which better captures both shared and distinguishing properties.

The conclusions that will be reached are: (A) One of these constructions, Horn Amalgams, should not even be considered within the framework of our proposed endeavour, because, contrary to what seems to have been taken for granted in past literature, Horn Amalgams have no pivots. (B) The constructions (ii) and (iii) exhibit a contrast in locality not noted in earlier literature, which casts serious doubt on the desirability of a unified syntactic analysis. More generally, a unified syntactic analysis for all these constructions is highly unrealistic. (C) In all cases, the alternative bi-dimensional analyses are empirically and/or superior to the corresponding Grafting analyses. (D) There is, at least at the moment, no known empirical or conceptual justification for resorting to multi-dimensional analyses in constructions other than those which involve parentheticals or coordinations. This paper thus pursues two twin inter-related goals: (i) to bring out the inappropriateness of Grafting for capturing the notion 'pivot', and (ii) to shed novel light on the nature and on the optimal analyses of the constructions at issue.

2. Free Relatives

A first construction for which a Grafting analysis was proposed is the Free Relative (FR) construction, illustrated with English data in (2).

(2) a. He will invite [whoever you invite __].
   b. He will buy [{what(ever), whichever books, however many books} you are willing to sell __].
   c. He can sing [however erect you want him to sing __].
   d. He will sing [however often you ask him to sing __].
   e. He can certainly become [what(ever) his mother most wants him to be __]:
      a lawyer, a doctor, or whatever.

The wh-phrases of FRs (italicized in (2)) are impressionistic pivots in a number of ways. Thus, apart from constructions involving pied-piping, they necessarily agree with the FR in syntactic category and logical type, in syntactic number, and – subject to some cross-linguistic variation – in morphological Case. At the same time, the wh morphology of the pivot makes its pivot status harder to account for than in the case of externally-headed relative constructions, and the gross configurational properties of FRs have formed the object of a lively controversy in the seventies and eighties.

According to one view, defended by Bresnan and Grimshaw (1978) and Larson (1987), the wh-phrase is a CP-external phrasal head, much like the CP-external NP of headed relatives. This approach, which solves the problem by essentially reducing FRs to a variety of externally-headed relatives, was soon shown to be problematic in quite a few ways by a number of authors, in particular, by Groos and Van Riemsdijk 1981, Harbert (1983), Hirschbuehler and Rivero (1983), Suner (1984), Jacobson (1988, 1995), and Grosu (1989, 1994, 1996, 2002, 2003), who argued (with minor differences of detail among them) for an analysis which assigns the wh-phrase to its usual [Spec, CP] position, and assumes a null CP-external head that agrees with the wh-phrase in syntactic and semantic properties (except for mismatches due to pied-piping and/or language-specific options concerning
morphological Case). In particular, Grosu (2003) showed in some detail that this type of analysis effortlessly accounts for all known properties of FRs.

In rejecting his own earlier analysis and proposing a Grafting approach instead, Van Riemsdijk (1998, 2006) offered no empirical arguments against the null-head analysis, and in fact noted that his Grafting problem runs into a potential problem that the alternative analysis avoids: that of assigning distinct theta roles to the same DP, a step in conflict with Chomsky's Theta Criterion. It thus seems that Grafting was appealed to for the analysis of FRs merely because it was assumed to be part of the grammar. We may conclude that FRs at best provide no support for this mechanism, and in fact arguably provide an argument against it.

3. Transparent Free Relatives

Transparent Free Relatives (TFRs) is the construction most prominently appealed to by Van Riemsdijk in support of a Grafting analysis, and the one the one that led to the conclusion that Grafting needs to be allowed to operate before completion of the immediately containing phase, thereby ultimately generating (currently unconstrained) unbounded dependencies (Van Riemsdijk 2006, section 4.3). While superficially similar to FRs, TFRs contrast with FRs in that their impressionistic pivot is not the wh-phrase, which is invariably what or some counterpart in another language, but a CP-internal phrase that functions as the non-subject of a copular structure or small clause, whose subject is the 'gap' of the syntactic chain headed by the wh-phrase (for ease of reference, we will call the pivot from now on 'the post-copular phrase', even when there is no verbal copula).

This can be appreciated by comparing the FRs in (2) (reproduced below for convenience) with the TFRs in (3). Thus, observe that the FRs in (2b)-(2d) are nominal, adjectival, and adverbial respectively, and that the corresponding wh-phrases have the same categorial status as their FRs. Furthermore, the FR in (2d) is interpretable as a predicate owing to the fact that the wh-phrase is so interpretable; if whatever is replaced by whoever, the status of the matrix changes from predicative to equational, the interpretation being that 'he' can become a different person. In (3), on the other hand, the categorial status of the TFR is determined by the post-copular phrase. This is especially clear in (3c), where the TFR occurs in the (necessarily adjectival) attributive position, and where substitution of a nominal predicate, e.g., idiot, for the adjectival pivot results in ungrammaticality

(2) a. He will invite [whoever you invite __].
   b. He will buy [{what(ever), whichever books, however many books} you are willing to sell __].
   c. He can sing [however erect you want him to sing __].
   d. He will sing [however often you ask him to sing __].
   e. He can certainly become [what(ever) his mother most wants him to be __]: a lawyer, a doctor, or whatever.

(3) a. John is talking to [wh that seems [__ to be [{ap a policeman, his brother-in-law}]]].
   b. John is [what I might characterize [__ as [ap exceedingly interested in magic]]].
   c. John is a [ap devious and [ap what some people might describe [__ as [ap highly unreliable]]] individual.

Van Riemsdijk's discussion of TFRs is carried out against the background of earlier analyses by Kajita (1977) and Wilder (1998), both of whom proposed to analyze the prima facie embedded pivot as a CP-external phrasal head within a bi-dimensional tree. Van Riemsdijk points out that while such an analysis is feasible when the pivot is linearly right-
peripheral within the TFR, it becomes problematic with respect to TFRs with string-medial pivots, such as those in the German and English examples in (4a) and (4b) respectively.

(4) a. Ich habe mir [was man als einen schnellen Wagen bezeichnen könnte] gekauft.
   I     have me what one as a  fast         car.ACC describe could bought
   ‘I have bought myself what one might call a fast car.’

   b. I just noticed [what may well seem [to be construable as an NP by
      proponents of LFG] to people unfamiliar with that theory].

In order to deal with such data, which seem intractable within a bi-dimensional framework, Van Riemsdijk submits that an appeal to Grafting is inescapable for an adequate analysis of TFRs, the grafted node being the pivot. Furthermore, since this operation gives rise to unbounded dependencies after linearization, as most dramatically brought out by (4b), where the pre- and post-grafting positions of the pivot are linearly separated from each other by four unpaired phasal boundaries (two VPs and two CPs), Van Riemsdijk (2006, section 4.3) proposes to endow Grafting with the ability to operate before completion of the immediately containing phase, as already noted in section 1 and earlier in this section. However, the two conclusions urged by Van Riemsdijk bear a number of comments.

Concerning the alleged inescapability of Grafting, it only follows under the assumption, which is not logically necessary, that the pivot role of the post-copular phrase needs to be formally expressed by analyzing this phrase as a CP-external phrasal head (an assumption that Van Riemsdijk shares with Kajita 1977 and Wilder 1998, as noted above). In Grosu (2003), I showed that most of the properties of TFRs can be captured within a bi-dimensional analysis that views TFRs as having the gross configurational properties of FRs (in particular, a null CP-external head), and the pivot as occupying a strictly relative-internal post-copular position, its syntactic and semantic properties being shared with the TFR in virtue of a 'transparency channel', which arises due to an equational construal of the copular structure, a highly under-specified wh-element, and agreement of the latter with the null CP-external head. In this paper, I will offer certain refinements in my earlier analysis, which enable it to account in a more satisfactory way for certain properties of TFRs. For ease of reference, I will henceforth call the kind of approach adopted by Kajita, Wilder and Van Riemsdijk 'direct', and the one adopted in Grosu (2003) and defended below, 'indirect.'

Concerning the proposal to give Grafting the power to create unbounded dependencies, it appears to be descriptively necessary for TFRs and Andrews Amalgams, and under the (incorrect) assumption that they have pivots, for Horn Amalgams as well. It is not necessary for FRs, where Grafting of the wh-phrase in [Spec, CP] may only give rise to a string-vacuous displacement, and effect that Van Riemsdijk does not account for, but for which an account can perhaps be imagined (see footnote …). More seriously, however, unbounded Grafting must be disallowed for the far from construction, owing to certain facts not noted in earlier literature, and it is not clear how this can be achieved in a non-stipulative way. This point will be illustrated and discussed in section 4.

The remainder of this section is organized as follows: In section 3.1, I note three sets of (morpho-)syntactic facts that are problematic for direct analyses, but straightforwardly accounted for under the indirect analysis. In section 3.2, I note a problem for the compositional interpretation of TFRs under direct analyses. In section 3.3, I outline the gist of the indirect analysis, bringing out its ability to account for the pivot properties of the post-copular phrase, to ensure a straightforward compositional semantic interpretation, and to shed light on properties that indirect analyses need to stipulate.
3.1. The direct vs. the indirect approach to TFRs: the (morpho-)syntactic perspective

According to direct analyses, TFRs have a configurational structure radically different from that of FRs. Thus, while FRs are viewed as externally headed by their wh-phrase or by a null category that agrees with it, TFRs are viewed as externally headed by their post-copular phrase. In contrast, the indirect analysis views TFRs as externally headed in just the way FRs are. Each analysis makes a number of predictions, to which we now turn.

A first prediction made by direct analyses is that extraction out of the pivot of a TFR should be essentially as easy as out of an incontrovertible external head. The indirect analysis, on the other hand, predicts that extraction out of the pivot should be sensitive to TFR-internal factors. These two predictions were examined in Grosu (2003, section 5.5), where it was argued, on the basis of data like (5), that the empirical facts support the indirect analysis.

(5) a. Who did he buy [a portrait of ___ (that pleased Mary)]?
   b. Who did he buy [(?*what seems to many to be) a portrait of ___]?

(5a) shows that the acceptability of extraction out of the NP portrait of who is not affected by the presence or absence of a modifying relative clause. (5b) shows that extraction may get substantially degraded when this nominal is the pivot of a TFR. The fact that the internal make-up of the TFR affects the acceptability of extraction points to the conclusion that the pivot is itself internal to the relative clause. This conclusion is not affected by the observation that some informants judge the full version of (5b) to be marginal, rather than totally out, since it is well-known that the perceived deviance of extraction out complex DPs depends on a number of factors, in particular, on whether the DP is definite or indefinite, the latter situation having a mitigating effect (Erteschik-Shir 1973).

Two additional facts, the first of which was noted in Grosu (2003, section 5.4), support the view that the pivot of a TFR does not interact with the matrix, while the wh-element shows the kind of interaction found in FRs, which is just what one may expect under the indirect approach, but precisely the opposite of what one may expect under the direct approach.

The fact noted in Grosu (2003, section 5.4) concerns the morphological Case requirements imposed on the pivot. The indirect approach predicts that the pivot should be sensitive only to local Case requirements, the Case requirements imposed on the TFR by the matrix being irrelevant. The Grafting approach, on the other hand, predicts that the pivot should be sensitive to both Case requirements, on a par with the wh-phrases of FRs, which, as already noted, are subject to 'matching effects.' The following data from German confirm the predictions of the indirect approach and disconfirm those of the Grafting approach. For the sake of clarity, I note that the local Case requirement that characterizes als small clauses in German is that the non-subject must agree in Case with the subject.

(6) a. Ich habe mir soeben gekauft, [was von vielen als {ein merkwürdiger Wagen, *einen merkwürdigen Wagen} bezeichnet werden würde].
   I have just bought what by many as a strange.NOM car described be would
   ‘I have just bought myself what might be called a strange car by many people.’

b. [Was viele als {eine merkwürdige, einen merkwürdigen Wagen} bezeichnen würden] wurde trotzdem soeben verkauft.
   what many as a strange.NOM car a strange ACC car describe would be nonetheless just sold
   ‘What many people might describe as a strange car has nonetheless just been sold.’
For completeness, I note that comparable data were brought up in Van Riemsdijk (1998, 2001), but with all versions starred, and thus in support of the claim that the pivot is sensitive to both subordinate and matrix Case requirements. Since these judgments were contested in Grosu (2003), Van Riemsdijk (2006, section 5) suggested that such data are subject to dialectal variation. To check for this possibility, I re-submitted the data to the evaluation of large audiences of native speakers of German from various areas of Germany (at the Zentrum für Allgemeine Sprachwissenschaft in Berlin and at the University of Konstanz). I can report that not a single informant had the slightest objection to the unstarred versions of data like (6a-b), while unhesitatingly rejecting the starred versions. There thus seems to be no basis for assuming dialectal variation, and we may conclude that the judgments reported by Van Riemsdijk are idiosyncratic and non-representative.

The final set of facts, which to the best of my knowledge has not been noted in earlier literature, concerns the (in)sensitivity of the wh-element to matrix Case requirements. This point cannot be checked in relation to data like (6), because was is compatible with both Nominative and Accusative Case. We can, however, demonstrate sensitivity of was in TFRs to matrix Case requirements by exploiting an interesting German-specific set of facts. Gallmann (1990, 1996), and subsequently Bayer, Bader and Meng (2001), observe that a small class of lexical items, in particular, etwas 'something', nichts 'nothing', and was 'what', may occur in positions to which Dative Case is assigned by a preposition, but not in positions where it is assigned by a verb. More generally terms, P-assigned Dative does not need to be morphologically realized as a suffix, while V-assigned Dative does. This phenomenon is illustrated in (7) with respect to interrogative was, Case requirements being indicated by superscripts on the assigner. Importantly, comparable effects are found in was-FRs, in the sense that Dative may be assigned to the FR by a preposition, but not by a verb, as illustrated in (8). And crucially, exactly comparable effects are found in TFRs, as can be gathered from the contrast between the (a) and (b) sub-cases of (9)-(10). The parallel behavior of FRs and TFRs is exactly what the indirect approach predicts, but is entirely unexpected under the direct approach.

(7) a. Mit$^{\text{DAT}}$ was hat er noch nicht gerechnet?
   \textit{with what has he yet not counted}
   b.*Was hat er widersprochen$^{\text{DAT}}$?
   \textit{what has he contradicted}

(8) a. Er hat mit$^{\text{DAT}}$ [was du gesagt hast] nicht gerechnet.
   \textit{he has with what you said have not counted}
   'He did not reckon with what you said.'
   b.*Er hat [was du gesagt hast] nie widersprochen$^{\text{DAT}}$.
   \textit{he has what you said have never contradicted}
   'He has never contradicted what you said.'

(9) a. Er wohnt in$^{\text{DAT}}$ [was man ein-en Hühnerstall nennen koennte].
   \textit{he lives in what one a-ACC chicken-coop call could}
   'He lives in what one may call a chicken-coop.'
   b.*Er hat [was man ein-e merkwuerdige Idee nennen koennte] viel
   \textit{he has what one a-ACC strange idea call could much}
   Aufmerksamkeit geschenkt$^{\text{DAT}}$.
   \textit{attention given}
   'He has devoted considerable attention *(to) what one might call a strange idea.'
(10) a. Sie spricht mit\textsuperscript{DAT} [was ich ein-en totalen Idioten nennen wuerde].
   she speaks with what I a-ACC total idiot call would
   'She is speaking with what I would call a total idiot.'
   b. *Sie hat [was ich einen totalen Idioten nennen wuerde] soeben widersprochen\textsuperscript{DAT}.
   she has what I an-ACC total idiot call would just contradicted
   'She has just contradicted what I would call a total idiot.'

That the bracketed structures in (8) and (9)-(10) are FRs and TFRs respectively follows from the following considerations: Since the internal configuration that characterizes TFRs, i.e., a copular structure or small clause with the trace of was as subject, is lacking in (8), these data necessarily exhibit FRs. Since what-FRs and their cross-linguistic counterparts are incompatible with human denotata (a point to which I return in more detail in section 3.3), as illustrated by the (a) subcase of (11) (adapted from Wilder 1998), the structures in (10) can only be TFRs. As for the structures in (9), they are ambiguous between an FR and a TFR construal, the latter being more likely (the two readings can be paraphrased roughly as follows: FR: he lives in the (contextually unique) thing that may be called a chicken-coop; TFR: he lives in something that may be called a chicken-coop).

(11) a. # She is talking to [{what was addressing a large audience yesterday},
   i.e., {a policeman, Bill, her brother-in-law}].
   b. She is talking to [{what seems to be {a policeman, Bill, her brother-in-law}}].

I note in passing that (9a) and (10a) also support the conclusion reached on the basis of (6), since these examples are acceptable despite the fact that the explicitly Accusative pivots are incompatible with P-assigned Dative, as illustrated in (14).

   He lives in a-DAT a-ACC chicken-coop
   She speaks with a-DAT a-ACC total idiot

3.2. The direct vs. the indirect approach to TFRs: the semantic perspective

Van Riemsdijk, much like the proponents of earlier direct analyses of TFRs, discussed their semantic and pragmatic properties only in the vaguest terms, and did not address the task of providing an explicit compositional semantics for them. When this issue is seriously addressed, it emerges that a straightforward solution is not obviously available.

The semantic-pragmatic raison d’être of TFRs may be described as follows:

(13) The denotatum of the TFR needs to be a distinct 'version' ('counterpart', alter ego, etc.) of the pivot which is defined at intensional indices distinct from those at which the denotatum of the pivot is defined.

That the denotatum of the TFR needs to be distinct from that of the pivot at some index is revealed by the infelicity of data like (14a,c), which contrast with the felicity of (14b,d).

(14) a. #Bill is eating with [what is your fork].
   b. Bill is eating with [what seems to be your fork].
   c. #Evgeny lives in [what was St. Petersburg].
   d. Evgeny lives in [what was once Leningrad] (but is now St. Petersburg).
Note that in the felicitous examples (14b,d), the pivot is defined at the indices of a CP-internal intensional operator (in boldface), while the TFR is defined at matrix indices. Furthermore, the quantificational force of the TFR is potentially distinct from that of the pivot, being in fact invariably existential. This can be seen quite clearly in relation to (14b), where the pivot is a definite description, and the TFR is most naturally paraphrasable as 'something that seems to be your fork', not as 'the thing that seems to be your fork.' Similarly, in the version of (11b) with Bill, the natural paraphrase is 'she is talking to someone who seems to be Bill', not 'she is talking to the individual who seems to be Bill.'

Under the indirect approach, the meaning of TFRs can be captured straightforwardly. In (14b), for example, we may assume that the copula equates, at the indices of the intensional operator seems, the value of the individual concept denoted by your fork (type <s,e>) with the value of an individual-concept variable in subject position. Using a two-sorted logical language, abstraction over this variable yields (15a) as the translation of the relative CP, and the application of Existential Closure to this abstract enables the entire sentence to end up with the intuitively correct meaning in (15b).

\[(15)\]
\[
\begin{align*}
&\textbf{a. } \lambda i \lambda x_{<s,e>} \forall i' \in \text{SEEM}(i) \left[ x(i') = \text{YOUR FORK}(i') \right] \\
&\textbf{b. } \lambda i. \exists x_{<s,e>} \left[ \text{EAT}(i) (\text{BILL}(i), x(i) := \forall i' \in \text{SEEM}(i) \left[ x(i') = \text{YOUR FORK}(i') \right]) \right]
\end{align*}
\]

Under the direct approach, and in particular under Van Riemsdijk's Grafting approach, the pivot is a member of both the matrix and the relative, and since it is defined only at the indices of a CP-internal operator, it follows that only the token of the pivot internal to CP needs to be visible to the semantics. In other words, the approach at issue is faced with a so-called 'reconstruction effect', for which a variety of proposals have been made in earlier literature. Insofar as externally-headed relative clauses are concerned, there have been proposals based on head-raising, which, much like the Grafting analysis, assume a chain of identical copies, or one constituent with multiple mothers, as input to the semantics (see, e.g., Fox 1999, Bhatt 2002), as well as proposals based on direct interpretation of the surface representation (see, e.g., Sharvit 1996, 1999, Jacobson 2002, 2004, Grosu and Krifka, forthcoming). However, all these proposals addressed constructions in which only an NP, not a full DP, needed to be 'reconstructed.' For example, Grosu & Krifka (op. cit.) analyzed in considerable detail a construction with almost the configurational properties assumed by Van Riemsdijk for TFRs, and with a number of shared semantic properties. This construction, to which they refer as Equational Intensional 'Reconstruction' (EIR) relatives, is illustrated in (16).

\[(16)\]
\[
\begin{align*}
&\textbf{a. } \left[ \text{The gifted mathematician that Bill supposedly is } \_ \_ \_ \right] \text{ should have little difficulty}
\text{ with this easy problem.} \\
&\textbf{b. } \left[ \text{The gifted mathematician that Bill allegedly is } \_ \_ \_ \_ \right] \text{ should have solved this}
\text{ trivial problem with greater ease.}
\end{align*}
\]

Note that, under a head-raising analysis (with or without multi-dimensionality), the italicized NP is assumed to occur in post-copular position, where it restricts an individual-concept variable at the indices of the boldfaced intensional operator (Grosu and Krifka argue in detail that in EIR relatives, much as in TFRs, the copular structure is necessarily equational, and an intensional operator is necessarily present for felicity. However, the interpretation of the complete complex DP, as well as the raison d'être of EIR relatives, contrast crucially with the construal/raison d'être of TFRs: whereas the latter are necessarily defined at intensional indices distinct from those at which the pivot is, the
former are defined just at the indices at which the 'reconstructed' NP restricts the variable. In (16b), for example, the bracketed DP denotes Bill as a gifted mathematician in worlds of allegation, but not necessarily in other worlds, e.g., those of the speaker's assumptions about reality (in fact, this sentence implicates that the speaker does not view Bill as a gifted mathematician). What this means is that TFRs are a sui generis type of construction, which requires a sui generis 'trace conversion' procedure (to borrow a term from Fox 2002 and Bhatt 2002, where a special operation was proposed and used in order to deal with relatives that involve NP reconstruction). What can this procedure be? Since no proposals have been made, I am reduced to conjectures, but the minimal thing that can achieve the desired semantics would seem to be something essentially like (17).

\[
(17) \text{PIVOT}_{\alpha} \rightarrow \text{PIVOT}_{\alpha} = \text{VARIABLE}_{\alpha}
\]

With such a procedure, a variable equated with the pivot is introduced, and if the copula and the chain headed by what are ignored (or rendered redundant in some way), the semantic interpretation of, e.g., (14b) can proceed essentially along the lines that yielded (15), i.e., abstraction over an individual concept variable introduced by the schema in (17), and Existential Closure at the level of the matrix.

I submit that this way of getting the semantics of TFRs amounts to a reductio ad absurdum of the Grafting analysis of TFRs. It arguably makes little sense to resort to the ad hoc operation schematically indicated in (17) in order to create a representation that is straightforwardly obtainable from precisely the portion of structure that this analysis makes no use of (the copula and the chain headed by what). Moreover, observe that under this analysis, no portion of the putatively CP-external pivot plays any role in the semantics. I submit that this state of affairs in conjunction with the incorrect syntactic and morpho-syntactic predictions made by the Grafting analysis (see section 3.1) points to the conclusion that the Grafting analysis of TFRs is on the wrong track.

For completeness, I will take a brief look at a somewhat different conceivable approach to the semantics of TFRs, which is suggested by the kind of syntactic analysis put forward in Kajita (1977). Basically, Kajita proposed that the grammar should include rules of syntactic reinterpretation, whose function is to turn a non-head that exhibits head-like properties into an actual head, and the remainder of the construction, into a derived adjunct of this derived head. Kajita does not discuss the compositional semantics of the output of such rules, but a possibility that one might want to try to explore would be to view the derived adjunct as an intensional modifier of some sort of the derived head. To be sure, we noted at the beginning of section 3 that Kajita's bi-dimensional proposal seems unable to cope with data like those in (4), but the semantic tack just envisaged may be adapted to the Grafting analysis, in the sense that the possibility to be explored is one in which the graft tree serves as an intensional modifier of the pivot qua member of the host tree. This tack may seem initially promising in view of the existence of lexical intensional modifiers, such as alleged, presumed, potential, apparent, etc., with which a DP denotes something potentially different from what it would denote without it (recall that a TFR also denotes something potentially different from what its pivot does). However, the semantics of such modifiers cannot be straightforwardly extended to TFRs, because the former modify NPs, while TFRs qua modifiers of their pivot would need to somehow modify DP. The different semantics of the two constructions can be appreciated by noting the distinct parenthesized continuations of (18a) and (18b) (which a prominently brought out by the distinct parenthesized continuations).
(18) a. Mary shot [all the apparent unicorns] (which turned out to be merely bulls with one horn sawed off).
   b. Mary shot [what appeared (to her) to be all the unicorns] (but turned out to be just two of them).

I see no obvious way of making sense of the notion 'intensional modifier of DP', so the onus of proof is entirely on proponents of the Grafting analysis of TFRs. Until they offer an explicit proposal, the conclusion urged at the end of the preceding paragraph stands.

3.3. The empirical and conceptual merits of the indirect analysis of TFRs

The negative conclusions reached with respect to the Grafting, and more generally, with respect to direct approach to TFRs, are only significant if it can be shown that the indirect approach successfully copes with the various properties of TFRs. Insofar as the facts that proved problematic for direct approaches are concerned, the ability of the indirect approach to deal with them has already been demonstrated in section 3.1 and 3.2. In this section, I propose to address the remaining interesting properties of TFRs. In particular, I propose to examine in some detail the 'transparency channel' that was alluded to in earlier sections, to introduce a small, but significant refinement in my earlier analysis (Grosu 2003), and to argue that the indirect analysis is also conceptually superior to the direct one in being able to shed light on certain properties that the latter approach needs to stipulate.

Starting with the last point, Van Riemsdijk 1998, section 4.1, proposed that the following three properties of TFRs are 'definitional', i.e., in need of stipulation.

(19) a. The wh-phrase is exclusively what or some counterpart in another language.
   b. The trace of what is always in the subject position of a copular structure or small clause.
   c. In contrast to FRs, which are inherently definite (Jacobson 1988, 1995), TFRs may also be indefinite, their (in)definiteness properties being inherited from those of the pivot.

Insofar as (19c) is concerned, I argued in section 3.2 that this characterization of TFRs is not quite right, since these appear to be invariably indefinite (see the text immediately after the examples in (14)). The view that TFRs reflect the (in)definiteness status of their pivots, which was also shared by a number of predecessors (Nakau 1971, Kajita 1977, Wilder 1998) and which was viewed as providing strong support for an analysis in which the pivot heads the TFR, rests primarily on the shared privileges of TFRs and their pivots to occur in the context there BE __ XP, a point illustrated in (20).

(20) a. There is {a, #the} virus in this program.
   b. There is [what seems to be {a, #virus}] in this program.

However, as has been widely acknowledged in the literature, this context does not test for definiteness, but rather for specificity, in the sense that it only allows entities which are entirely discourse-novel and disallows entities that are discourse-linked in some way, be they definite or indefinite. The inability of discourse-linked indefinites to occur in this context is illustrated in (21a).

(21) a. #There is a particular virus we both know in this program.
   b. #There is [what seems to be a particular virus we both know] in this program.
The infelicity of the version of (20b) with a definite pivot is thus consistent with the possibility that the TFR has discourse-linked existential force. In fact, given the *raison d'être* of TFRs stated in (13), it makes good sense for a version/counterpart of the pivot to be indefinite, since even if the pivot is unique and contextually presupposed, the version denoted by the TFR is neither necessarily unique nor contextually presupposed. At the same time, any version of a discourse-linked entity is itself discourse-linked (hence, the infelicity of (21b)), while a version of something novel is itself novel. In sum, all the facts in (20)-(21) can be satisfactorily explained under the hypothesis that the TFR reflects the discourse-(un)linked properties of the pivot, rather than its definiteness properties.

Turning now to (19a,b), these two properties appear arbitrary and mysterious under the direct approach, since neither the copula nor the chain headed by the wh-element can play any role in determining the semantics of TFRs, as was seen in section 3.2. In fact, two additional facts about TFRs, which are stated in (22), are also mysterious under the direct approach.

(22) a. In every language that has so far been examined, the left periphery of TFRs exhibits exactly the morpho-syntactic properties of what-FRs in the corresponding language, a remarkable fact, since the left periphery of FRs varies dramatically across languages (Grosu 2003, section 5.7).
   b. The existence of FRs in some language does not guarantee the existence of TFRs in that language. At the same time, the presence/absence of TFRs in languages with FRs is not an arbitrary fact. Rather, it appears to depend on whether the cross-linguistic counterpart of what is suitably under-specifiable, and also on whether it is free from free-choice import (see Grosu 2003, section 8, for detailed discussion and illustration).

In contrast, the conjunction of (19a-b) and (22a-b) arguably makes excellent sense within the framework of the indirect approach. (19a), i.e., the fact that the wh-element can only be what or a counterpart in another language, is the natural consequence of the fact that what is the wh-form which allows the greatest amount of under-specification and flexibility, being, at least in English, (in principle) compatible with human and non-human denotata (e.g., *what did you see there?* \{a table, John and Mary\}), with individual and predicate denotata (the latter being illustrated by, e.g., *what John definitely isn't is a genius*), with nominal and adjectival status (an illustration of the latter being *what John definitely isn't is brilliant*), with universal and existential quantification (as brought out by the observation that the question *where can I buy a newspaper?* can be answered either by a full enumeration of the contextually accessible places, or by a mention of a single place, presumably, the most easily accessible), and with singular and plural syntactic number (this will be illustrated below). In contrast, other wh-forms are not nearly as extensively under-specified; for example, who is compatible only with human individual denotata. As for items with free-choice import, in particular, whatever, these are inappropriate for a different reason (which will be made clear below).

It needs to be emphasized that under-specification is a vital component of an analysis of TFRs in which the wh-phrase does not itself serve as pivot, but rather needs to enable another constituent to function as a pivot, in particular, by endowing it with 'derived' properties. In view of this, the state of affairs outlined in (22b) is precisely what one may expect, as far as under-specification is concerned (i.e., languages in which the counterpart of what resists under-specification unsurprisingly do not exhibit TFRs).
At the same time, under-specification is just one of two factors needed for the creation of a transparency channel. Thus, in order for a 'non-head' to serve as pivot, it is necessary not only that the wh-element (which, by assumption, determines the content of the null CP-external head; see section 2) be 'receptive' to its properties, but also that an appropriate mechanism for 'conveying' these properties from the pivot to the wh-element be ensured. I submit that equation is an optimal mechanism for achieving this end. If so, the syntactic configuration indicated in (19b), i.e., a copular structure or small clause whose terms are the pivot and a variable bound by what, is arguably necessarily found in TFRs because such a configuration most naturally serves as basis for an equational construal.

The thesis that the copular structure/small clause within TFRs is equational is sometimes met with initial skepticism, on the grounds that TFRs do not 'feel' equational. This reaction is, however, traceable to the fact that equational statements are in general felicitous when they equate entities that are contextually assumed to be potentially different, and infelicitous when they express no more than the proposition that something is identical to itself. This can be appreciated by noting the contrast in felicity between (23a-b) and (24b), when the latter's speaker purports to tell Mary no more than that he loves her (something that is naturally expressed by (24a)). Importantly, an infelicitous sentence like (24b) can be 'salvaged' by resorting to intensional operators in order to assert a correspondence relation between entities defined at distinct indices, which, unlike identity to oneself, is non-trivial; this is shown in (24c), with the context: the speaker fell in love with the description of a woman he hadn't met, and it eventually turned out that that woman was Mary.

(23) a. The Evening Star is the Morning Star.
   b. Jack the Ripper is (in fact) your cousin John.

(24) a. Mary, I love you!
   b. #Mary, I love someone who is you!
   c. Mary, I fell in love with someone who turned out to be you!

Now, it was pointed out in section 3.2 that TFRs are themselves infelicitous when their denotatum is characterized by mere identity with the pivot, as in (14a,c), and are salvaged by a characterization which establishes correspondence with the pivot at distinct indices, as in (14b,d). This is precisely what one may expect under the assumption that TFRs rely on equation.

The crucial role of equation in the creation of a successful transparency channel can be appreciated by considering a number of facts, which were discussed in detail in Grosu (2003), and which I will now summarize.

First, note that in equation, the equated terms are necessarily of the same logical type, while in predication, the predicate is necessarily one type higher than its argument. This fact is crucial in enabling a straightforward compositional semantic interpretation of certain TFRs, for example, of (25).

(25) Bill has become what I would characterize [as boring].

The import of this sentence is that Bill has acquired a certain property which the speaker would characterize as being the BORING property (with the implicature that other people might characterize it differently, thereby enabling this example to satisfy the raison d'être of TFRs). If the bracketed small clause is predicative, its subject gap must have the logical type of individuals, and abstraction over this variable followed by Existential Closure assigns to the TFR the logical type of generalized quantifiers of individuals. This type cannot be predicated of the matrix subject, and in order to allow an interpretation for the
matrix, the existentially quantified TFR must be given matrix scope (by Quantifier Raising, Cooper storage, or some equivalent mechanism), with its 'trace' construed as a variable of the type of individuals. This forces an equational construal of become, and the entire sentence is assigned the unwanted reading that Bill has become a certain (inanimate) entity that the speaker views as boring. In contrast, if the bracketed small clause is equational, we get the desired reading. The subject gap is construed as a property variable, abstraction yields a set of properties, Existential Closure yields a generalized quantifier of properties, Quantifier Raising/Cooper storage yields a property variable whose value at the indices of the matrix may be predicated of the value of the subject at those indices, and the sentence ends up with the desired reading (see above).

The second important fact is that despite the ability of what to exhibit underspecification, this option is limited in certain contexts by independent factors, and is only revealed under special licensing conditions. An illustration of this state of affairs can be provided with respect to syntactic number. Thus, although what is compatible with semantic plurality, as noted earlier in this section, it is typically semantically singular even when semantically plural, as illustrated with an interrogative construction in (26a). However, syntactic singularity appears to be no more than a default value which may be neutralized in an equational copular configuration, the latter having the power to convey syntactic number specifications to what, as shown in (26b-c).

   b. What {seems, *seem} to be the problem?
   c. What seem to be the problems?

Now, what also exhibits a singular default value in incontrovertible FRs, as illustrated in (27a), where the indicated acceptability values hold even in situations where the speaker sees more than one object in his room. In TFRs, however, the syntactic number of the construction depends on that of its pivot, as illustrated in (27b-c). This is exactly what one may expect, given the equational copular construction within TFRs.

(27) a. [What I see in my room] {scares, *scare} me.
   b. [What {seems, *seem} to be the dagger] {is, *are} lying on the desk.
   c. [What seem to be the daggers] {are, *is} lying on the desk.

Now, given the ability of equation to convey specification to what under equation, overcoming default values, when these exist, it seems reasonable to assume that this ability extends to other syntactic and/or semantic features for which what or a cross-linguistic counterpart can in principle be under-specified in the corresponding language, in particular, to syntactic category, thereby providing an account of the acceptability of (3c), and to the [+/-Human] feature, thereby providing an account of the facts in (11). Furthermore, it also makes perfect sense to assume that the transparency channel within a TFR can also convey information in the 'converse direction', yielding an account of Dutch data like (28) (adapted from Van Riemsdijk 2006), where the agreement features received by a TFR of category AP can be inherited by the adjectival pivot via an under-specified wat-chain and an equational small clause (this example has a number of interesting ramifications, which will be addressed in section 5).

(28) Bill ontdekte een [AP wat ik zou noemen eenvoudig-*e)] oplossing
    Bill discovered a what I would call simple solution
    'A what I would call simple solution'
A fact that deserves special discussion concerns the quantificational force of TFRs. It is widely recognized since at least as early as Jacobson (1988) that FRs have definite force (at least insofar as FRs with 'plain' wh-elements, such as what, are concerned). To my knowledge, there is no known interesting derivation of this fact anything else, so it may be viewed, at least at the moment, as an inherent property of FRs. In Grosu (2003), I assumed that this inherent property of FRs is also present in TFRs, and proposed to account for their existential force by appealing to the fact that definiteness in FRs may target something other than individuals, e.g., degrees, kinds, properties, and by assuming that in TFRs, it always targets properties. I now think, however, that this view is in need of revision, on both empirical and conceptual grounds. Empirically, this assumption lead to a subtly unsatisfactory interpretation for property-denoting TFRs, such as (25), which seems to be more appropriately paraphrased by 'Bill has acquired a property that I would characterize as being the BORING property' than by 'Bill has acquired the property ...' Conceptually, it seems more compatible with the overall nature of TFRs to assume that since what is in principle compatible with both universal/definite and existential quantification, TFRs are free to exhibit the quantificational force required by their raison d'être, which, as we have seen, is existential.

With the refinement just proposed, TFRs emerge as a construction that differs minimally from FRs, specifically, to the extent needed to satisfy their raison d'être, which is achieved by a maximal exploitation of language-specific under-specification options. As for the fact that TFRs systematically appear to borrow the superficial garb of FRs (see (22a)), the reason arguably is that what-FRs endowed with the appropriate internal configuration constitute an optimal vehicle for conveying the intended import of TFRs in a maximally wide range of contexts. For example, while some TFRs can be paraphrased reasonably well by relative constructions externally headed by something, some of them cannot, because this item is less extensively amenable to under-specification. This state of affairs can be appreciated by examining the following data, which show that something, while compatible with both individual and property denotata (see (29a-b)), is not compatible with human denotata (see (29c)) or with adjectival status (see (29d)).

(29) a. John is looking at {what, something that} seems to be a wall.
   b. John is {what, something that} I might characterize as exceedingly interested in magic.
   c. John is talking to {what, *something that} seems to be {a policeman, his brother-in-law}.
   d. John is a devious and {what, *something that} some people might describe highly unreliable individual.

To complete the picture of TFRs, we will now address the second part of (22b), which is also implicit in (19a), i.e., the fact that free-choice items are inappropriate in TFRs, as illustrated by (30). Note that the full version of (30) is an FR, roughly paraphrasable as 'Bill intends to invite anything (in fact, anyone) that looks like a policeman' (with the copular structure construed predicatively), in contrast to the reduced version, which is a TFR, roughly paraphrasable as 'Bill intends to invite a person who looks like a policeman.'

(30) Bill intends to invite what(#ever) seems to be a policeman.
The incompatibility of the full version of (30) with a TFR reading is basically traceable to the fact that it is in general incongruous to equate a fully or partly specified entity with something whose choice is left free, as can be gathered from the examples in (31).

(31) a. #John is anyone at all.
    b. #Anyone at all is John.

The full version of (30) with a purported TFR interpretation seeks to establish a correspondence between an entity defined at indices of appearance and an entity defined at the index of evaluation in the matrix. The extension of the TFR at the matrix index is thus fixed by this index in conjunction with equation, so that free choice is inappropriate.

Summarizing the gist of section 3, we have achieved two twin sets of results. On the one hand, it has been shown that the direct approach as represented by Van Riemsdijk's Grafting analysis is beset by (morpho-)syntactic and semantic problem, and seems unable to shed light on a number of properties of TFRs, in particular, their striking cross-linguistic morpho-syntactic similarity to FRs, their particular internal configuration, their highly restricted inventory of wh-elements, and their (non-)existence in languages with FRs. On the other hand, it was shown that the indirect approach can successfully handle all these challenges. The general view of TFRs I have proposed is that they are a syntactic variety of FRs which maximally exploits the under-specification options available in the corresponding language in order to convey a meaning and to live up to a raison d'etre that are quite different from those of FRs.

4. Intensional modifiers of adjectives

In arguing for rules of syntactic reinterpretation, Kajita (1977) proposed to apply them not only to TFRs, but also to constituents like those in (32), where, according to standard grammatical principles, the italicized element appears to be the head, but the boldfaced element exhibits pivot properties.

(32) a. This is [AP close to trivial].
    b. These people are [AP far from innocent].

Van Riemsdijk (2001, 2006) adapts Kajita's views to his own framework, and proposes that the boldfaced element is grafted unto the matrix, becoming in effect the head of the AP. The principal basis for this claim is that the boldfaced elements exhibit head-like behaviour when the bracketed APs serve as pre-nominal modifiers, in the sense that they satisfy the principle in (33).

(33) The Head Final Filter

An XP (in particular, an AP) left-joined to a head-initial projection needs to exhibit its own X head at its right edge.

Thus, observe that the AP in (32a) contrasts with the superficially similar AP close to the city insofar as ability to satisfy the Head Final Filter is concerned. Van Riemsdijk (op. cit.) furthermore shows that in Dutch data like (34b), the pivot adjective bears the agreement suffix that typically occurs on the heads of modifying ad-nominal APs (demonstration omitted).
(34) a. This is a \[AP \text{ close (*to the airport)}\] city.
b. This is a \[AP \text{ close to trivial}] matter.

Both writers, however, fail to point out a fact that poses a serious challenge to the view APs like those in (32) and TFRs should be analytically unified by means of a single syntactic mechanism (rules of syntactic reinterpretation or Grafting). As a preamble to showing this, let us note that the construction in (32) is not automatically found in languages other than English and Dutch, as can be gathered from (35).

(35) a. These people are [far from innocent].
b. Deze mensen zijn [verre van onschuldig].
c. *Diese Leute sind [weit (entfernt) von unschuldig].
d. *Ces gens sont [loin d'innocents].
e. *Indivizii ăștia sunt [departe de nevinovați].
f. *Ha-anashim ha-ele [rexokim mi xafim mi-pesha].

At the same time, all the above languages can convey the intended import of the various subcases of (35) by introducing a non-finite form of the copula, as illustrated in (36).

(36) a. These people are [far from \textit{being} innocent].
b. Deze mensen zijn [verre van (om) onschuldig \textit{te zijn}].
c. Diese Leute sind [weit davon entfernt, unschuldig \textit{zu sein}].
d. Ces gens sont [loin \textit{d'être} innocents].
e. Indivizii ăștia sunt [departe de \textit{a fi} nevinovați].
f. Ha-anashim ha-ele [rexokim mi \textit{lihyot} hafim mi pesha].

Now, observe that these more complex APs cannot satisfy the Head Final Filter, as shown in (37).

(37) a. This is a [far from (*\textit{being}) interesting] proposal.

This plainly shows that, in contrast to TFRs, where reinterpretation/Grafting needs to operate over an ultimately arbitrary large context, these operations can only be highly local insofar as the creation of intensional modifiers of adjectives is concerned. In particular, Grafting must be denied the power to operate before completion of the immediately containing phase with respect to APs like those in (32) (recall that Van Riemsdijk 2006, section 4.3, proposed that it be granted such power in relation to TFRs).

The optimal analysis of data like (32) is not our concern here, and I thus confine myself to noting that a local and language-specific re-analysis of the kind envisaged by Kajita would seem to be adequate. Such a rule is needed to account for contrasts like that in (34), but it is not necessary for getting the correct semantics, since the intended reading is also available in constructions like (36), where re-analysis needs to be blocked. As far as I can see, the preposition may receive its standard interpretation as a two-place relation both in constructions like close to the city and in constructions like close to trivial, with the difference that it relates two spatial locations in the former case and two points or segments on an abstract scale of degrees ranging from complete triviality to maximal interest.

The results of this section point to the conclusion that Grafting is not only inappropriate for analyzing TFRs (as argued at length in sections 3.1 and 3.2), but also fails to provide an
initially plausible basis for unifying TFRs with other constructions, in particular, with data like (32).

5. Horn Amalgams

Lakoff (1974) introduced to the linguistic community two constructions that he characterized as 'amalgams', presumably because they seem to be 'amalgamated' out of two (or more) independent sentences. These two constructions, which have come to be known as Horn Amalgams and Andrews Amalgams, are illustrated in (38) and (39) respectively.

(38) a. John is going to – I {think, regret to say} it's Chicago – on Saturday.
   b. John is going to – is it Chicago? – on Saturday.

(39) a. John has just eaten [you will never guess how many apples].
   b. John invited [you'll never guess [DP how many people]] to [you can imagine [DP which place]] with [God only knows [DP what purpose in mind]], although he was [you can guess {DP how tired, [DP under what kind of pressure]}], having come home [you certainly know [ADVP when]].

Lakoff, and later, Van Riemsdijk (2001, 2006), viewed the italicized constituents in (38) and the boldfaced ones in (39) as pivots (I have used distinct types of print 'with malice aforethought'; the reasons behind it will become clear in what follows). Within Van Riemsdijk's framework of assumptions, this means that the pivots need to be grafted unto the main clause, Grafting availing itself in these cases of the power to create unbounded dependencies, much as in TFRs. This is in effect what Van Riemsdijk (2006, section 6) proposes with respect to both types of amalgams (he actually discusses only Horn Amalgams in some detail, alluding only briefly to Andrews Amalgams his footnote 22, but makes it nonetheless clear that he views a Grafting analysis as appropriate for both).

Van Riemsdijk argues at some length that Horn Amalgams need to be analytically unified with TFRs in terms of Grafting, in view of a number of properties shared by the two constructions. The title of a forthcoming contribution to a Festschrift, 'Towards a unified analysis of wh- and non-wh-amalgams' (mentioned in the list of references, but not discussed in the body of the paper) suggests that he views Horn and Andrews Amalgams as analytically unifiable by means of a Grafting analysis. I submit, however, that whatever properties Horn Amalgams may share with other constructions, an analytical unification by means of Grafting with pivot-possessing constructions cannot even get off the ground, because Horn Amalgams have no pivots at all.

I submit that the string flanked by hyphens in (38a-b) is simply a parenthetical sentence, the italicized constituent having no corresponding syntactic 'counterpart' in the matrix, whether overt or null, at any level of representation. That is to say, I propose that the main clause is a syntactically incomplete sentence, with the object of to left unfilled. (38a) or (38b) may be uttered, e.g., when the speaker stops in the course of producing a sentence and refrains from producing an object for to, e.g., because (s)he is unsure of what to say, or is reluctant to utter what (s)he believes needs to be said, and utters a hedging parenthetical instead. Evidence for the thesis that the matrix clause is incomplete in such cases emerges from a consideration of the contrast between (40) and (41).

(40) a. *I think it's Chicago – is a large city.
   b. *Is it Chicago? – is a large city.
   b. *It is Chicago, isn't it? – has a most important university.

(41) a. Hasn't – I seem to recall it was Chicago – been once claimed to be the capital of the US?
b. Hasn't – it was Chicago, wasn't it? – been once claimed to be the capital of the US?

What (40) shows is that the parenthetical part of a Horn Amalgam cannot occur in utterance-initial position, but any preceding linguistic context, however slight, e.g., as in (41), restores acceptability. My explanation for this effect is that the non-realization of an expected constituent cannot be signaled without some prior context. When no such context exists, the main clause is perceived as incomplete in languages like English. In pro-drop languages like Romanian, the main clause is complete in data like those in (40), but the entire string is interpreted as a sequence of two independent sentences, much like the English data in (40) with insertion of *it* after the parenthetical expressions (which is not the intended reading on a Horn Amalgam construal).

Van Riemsdijk (2006, footnote 27) notes the existence of data like (40), but dismisses them as a mere garden-path effect, which he attributes to the fact that the utterance-initial parentheticals look like independent sentences. If this were the correct explanation, (40a-c) should become acceptable once the intended reading is recognized, just as it does in well-known examples like *the horse raced past the barn fell*. However, data like (40) in no way improve under such circumstances, indicating that more is at stake than simply a garden-path effect. It is instructive in this connection to consider situations comparable to (40), but involving Andrews Amalgams, as in (42).

(42) a. [You can well imagine *who*] is still hiding under my bed.
   b. You can well imagine [who is still hiding under my bed].

The bracketed constituent in (42a) is also a possible independent sentence, as can be seen by considering, for example, the following discourse: *Someone is still hiding under my bed. You can well imagine who.* However, (42a) is not deviant, and there is no tendency to construe the string following the bracketed constituent as an incomplete sentence. If anything, the string in (42a) is structurally ambiguous, so that (42a) may in principle be misconstrued as (42b), but this effect is not persistent, and can in fact easily be 'overcome' by careful intonation.

To complete the emerging picture of Horn Amalgams, note that the italicized constituent in (38a-b) plays no semantic role in the matrix, either. This can be appreciated by comparing (38) with (43).

(43) a. John is going to *Chicago* – I {think, regret to say} it's *Chicago* – on Saturday.
   b. John is going to *Chicago* – is it *Chicago*? – on Saturday.

In (43), the speaker initially commits himself/herself to the view that John is going to Chicago, and subsequently hedges about the claim (s)he has just made, while in (38), there is no such initial commitment.

I conclude from what has been said above that Horn Amalgams consist of a syntactically and semantically incomplete matrix, and a parenthetical insert. Like all structures with parentheticals, the representational needs to be multi-dimensional, but without any structure shared by the distinct bi-dimensional trees.

A consequence of the conclusion thus reached is that whatever similarities may exist between Horn Amalgams and TFRs, they cannot support an analytical unification by means of Grafting. Nevertheless, such similarities are not necessarily without interest, and in the remainder of this section, I address the similarities noted by Van Riemsdijk, exploring their underpinnings and possible theoretical interest.
One similarity noted by Van Riemsdijk is, as far as I can see, of minor theoretical interest, if any. Van Riemsdijk observes that both constructions can be used to express 'hedges.' But while the parenthetical of a Horn Amalgam needs to hedge, as suggested by the oddity of (44), a TFR merely may hedge, as in (45a), but does not have to, as shown by the felicity of (45b).

(44) #John is going to – (I know) it is Chicago – on Thursday.
(45) a. John is eating with what might well be a fork.
     b. John is eating with what is definitely a fork.

The two constructions thus have distinct pragmatic raisons d'être, which partly 'overlap' in the sense that both are consistent with hedging. This is basically the pragmatic story, and I fail to see that it has any implications of interest for the formal analyses of the two constructions.

The second similarity is more interesting, and can be traced, I believe, to the fact that both constructions include an equational proposition. As Van Riemsdijk puts it, both constructions exhibit certain 'transparency effects.' In sections 5 and 6, he brings up data like the following, which exhibit small-clause complements of call (in which the equated terms are presumably construed meta-linguistically).

(46) a. Nick has made what one may call [significant headway].
     b. They didn't make a lot of, I think the correct term is [headway].
(47) a. She was what I might call [proud of herself].
     b. She was, I think you might call it [proud of herself].

Van Riemsdijk's view that the bracketed constituents in (46a-b) need to be grafted unto the matrix apparently rests on the assumption that idiom chunks need to form a continuous constituent at some level of representation (in particular, the one that serves as input to the semantics). This is however incorrect, because idiom chunks are also found in equational pseudo-clefts like (48a), where they cannot be part of a continuous constituent at any level of representation. That is to say, the bracketed constituent in this example may not be viewed as grafted from the position of the gap, because the gap is 'pre-empted' by what. Furthermore, as Van Riemsdijk (2000, section 2.1, 2006, section 5) himself observes, there exist acceptable equational constructions like (48b), where one of the chunks is missing, but may be plausibly viewed as implicit in the interpretation of the under-specified element that; that is to say, that is contextually construable as what they made, so that (48b) is in fact an elliptical pseudo-cleft. Now, observe that what in (46a) is also contextually construable as what Nick has made, and the correct term in (46b) is contextually construable as the correct term for what they didn't make.

(48) a. What they are rumored to have made __ is [significant headway].
     b. That was [significant headway].

The upshot of the above is that the rightmost idiom-chunk in (46a-b) does not need to be part of the matrix in order to be licensed by the other chunk, since licensing may effortlessly take place within the subordinate equational structures.

Turning now to (47), Van Riemsdijk's claim that the bracketed constituents need to be grafted unto the matrix apparently rest on the assumption that the italicized anaphors and antecedents need to be in some kind of local c-command configuration, since he suggests (in section 4.2) that the anaphoric relation in data like (46a) would "not be possible if the
relative clause were a 'real' relative clause." Actually, the suggestion within quotes is too strong. Undoubtedly, antecedent-anaphor relations are not freely permitted 'across' relative clause boundaries, but they do seem to be permitted in data with incontrovertible externally-headed relatives that exhibit internal configurations comparable to that found within TFRs, as shown in (49a). If so, the acceptability of the essentially synonymous TFR in (49b) is unsurprising.

(49) a. She is something that can only be call proud of herself.
   b. She is what can only be call proud of herself.

Apparently, the anaphoric relation is licensed in both (49a) and (49b) via equation. That this is a possible form of licensing is also brought out by the fact that such relations are found in equational pseudo-clefs where the antecedent fails to locally c-command the anaphor (see (50)).

(50) a. What she (unquestionably) is __ is [proud of herself].
   b. What she (certainly) isn't __ is [proud of herself].

Now, observe that the Horn Amalgam in (47b) most plausibly includes an elliptical pseudo-cleft, it being construable as what she was. If so, its acceptability is reducible to whatever factors license (50a-b).

Taking stock of what has been established so far, the parallelism between the (a) and (b) sub-cases of (46)-(47) is traceable to the fact that both TFRs and Horn Amalgams include equational structures.

Van Riemsdijk (2006, section) also brings up two further properties arguably shared by the two constructions, which he presents as transparency effects, but which turn out upon closer consideration to be more properly viewed as opacity effects.

One of these two properties is an alleged transparency to extraction from the (presumed) pivot. In section 3.1, we saw that this thesis is incorrect with respect to TFRs (see (5) and the immediately preceding and following text). Concerning Horn Amalgams, offers the data in (51), which he views as acceptable, but all the informants I have consulted found them barely comprehensible, and severely unacceptable. On the assumption that extraction has operated out of a parenthetical, the judgments of my informants are unsurprising, since extraction out of parentheticals is in general notoriously difficult.

(51) a. *Who did they publish, I believe it was a dirty picture of __ ?
   b. *What conversation did John make, I believe it very probably was an unauthorized recording of __ ?

The second of the two properties alluded to two paragraphs earlier concerns certain alleged Case-matching effects that concern the (presumed) pivot. In section 3.1, I showed that no such effects exist in TFRs, the pivot being sensitive only to relative-internal Case requirements (see (6) and the immediately preceding and following text). The following facts show that in Horn Amalgams, the putative pivot is comparably sensitive only to parenthetical-internal Case requirements.

(52) a. Er wohnit in\textit{DAT} – naja, man koennte es {einen, *einem} Hühnerstall nennen\textit{ACC}.
   he lives in         well one may      it  a-ACC  a-DAT chicken-coop call
   'He lives in, well, one may call that a chicken-coop.'
b. Er hat sich – ich glaube das nennt man \(\text{ACC} \) Wahrsager – anvertraut \(\text{DAT} \)

‘He entrusted himself *(to), I believe one calls that a soothsayer.

Thus, the version of (52a) with \(\text{ACC} \) is fine, because the local Case requirements within the parenthetical are satisfied, the requirements of the matrix preposition being irrelevant. The version of (52a) with \(\text{ACC} \) is unsurprisingly atrocious, because Dative Case is not licensed within the parenthetical. The version of (52b) with \(\text{ACC} \) is crashingly deviant, for the same reason that the corresponding version of (52a) is. As for the version of (52b) with \(\text{ACC} \), it is, while somewhat less severely deviant than that with \(\text{ACC} \), still degraded, owing to the fact that the Dative requirement of the matrix Verb is morphologically unrealized (see discussion of (7)-(10)).

The last set of facts presented by Van Riemsdijk as shared transparency effects concerns satisfaction of the Head Final Filter in Dutch in data like the following.

(53) a. Bill ontdekte een [AP wat ik zou noemen eenvoudig-*(e)] oplossing
   Bill discovered a what I would call simple solution
   ‘Bill discovered a [what I would call simple] solution’

b. Bill ontdekte een, ik denk dat je het zou mogen noemen eenvoudig-*(e), oplossing.
   Bill discovered a I think that you it would may call it simple.Agr solution
   ‘Bill discovered a – I think you may call it simple – solution.’

In section 3.3, I showed that the presence of the inflectional agreement suffix on the pivot in (28) (= (53a)) can be accounted for within the indirect approach by appealing to the transparency channel. However, Van Riemsdijk (2006, sections 1 and 4.2) notes a prima facie challenge for both his analysis and mine. Thus, according to both analyses, there is a token of an inflected adjective in predicative position within the relative clause, although continental West Germanic languages (Dutch and German) generally disallow inflected adjectives in this position. Van Riemsdijk proposes an ingenious way of circumventing this problem: he proposes to assume that the structure shared by the relative and the matrix is just the adjectival stem, the inflectional suffix being part of the matrix only. On this view, there is only one inflected adjective, and it occurs in attributive position.

The problem with this ingenious solution is that it cannot be obviously extended to comparable situations that do not involve complex morphology, and which are not limited to West Germanic languages. Thus, it is well-known that adjectives like alleged, presumed, former, pseudo, etc., can only be used ad-nominally, not predicatively, as illustrated in (54), but such adjectives can nonetheless function as pivots of TFRs, as shown in (55).

(54) a. Bill is a {false, pseudo-} prophet.
   b.*This prophet is {false, pseudo}.

(55) He is a [dubious and [what some people might even call {false, pseudo-}]] prophet.

Data like (40)-(41) were discussed in Grosu (2003, section 7.5), where it was pointed out that the restriction illustrated in (54b) is typically illustrated with strictly predicative data, and it was proposed, relying on data like (56), that it does not extend to equational constructions. We may note here that the ban on inflected predicative adjectives in continental West Germanic languages is also usually illustrated with strictly predicative
data, and that inflected adjectives may occur in certain equational contexts, as illustrated with German data in (43). If so, the data in (53a) and (55) cease to be puzzling.

(56) 'Alleged' is 'presumed'; 'pseudo' is 'false'; 'former' is 'earlier.'
(57) a. A: Maria ist eine genial-e Frau
    Maria is a brilliant-AGR woman
b. B: Was ist 'genial-e'?
    what is brilliant-AGR
c. A: 'Genial-e' ist 'sehr klug-e'.
    brilliant-AGR is very smart-AGR

A possible objection against using data like (56)-(57) to get (53a) and (55) 'off the hook' is that the equated adjectives in the former two examples clearly have meta-linguistic import, something that does not seem to be the case in the latter two. It is possible, however, that the necessarily meta-linguistic status of the equated adjectives in (56)-(57) is a consequence of the fact that what gets equated are fully specified properties. To control for this potentially interfering factor, it is more instructive to consider equational constructions with under-specified subjects. A perfect test case is provided precisely by HAs, in particular, by (53b) and (58).

(58) The police have named Bill as the only – I think it's still presumed
    (at the moment) – murderer.

For reasons made clear earlier in this section, the boldfaced constituents in these examples cannot possibly be members of the main clause, because Horn Amalgams were shown to have no pivots. The fact that these data are both acceptable and devoid of meta-linguistic flavor supports the hypothesis that the ban on Dutch/German inflected adjectives and on attributive adjectives in post-copular position does not extend to equational constructions, and shows that the challenge raised by data like (53a) and (55) has been successfully met.

As a parting shot, I note that the acceptability of the full version of (58) further strengthens the thesis that that the boldfaced constituent is not a member of the matrix, because if it were, a violation of the Head Final Filter should result.

6. Andrews Amalgams

In the preceding section, it was noted that the contrast in acceptability between (40) and (42a) points to the conclusion that Andrews Amalgams, unlike Horn Amalgams, need to be viewed as possessing pivots. Thus, while both constructions exhibit what we may call 'Inserts" with the appearance of an independent sentence, this appearance does not reflect reality in the case of Andrews Amalgams. In addition to the contrast just mentioned, Andrews Amalgams also differ from Horn Amalgams prosodically: while the Inserts of the latter are most naturally uttered with a parenthetical intonation, those of the former are uttered with the continuous intonational contour that characterizes arguments, predicates, and adjuncts of comparable length and 'heaviness'. These facts point to the conclusion that Andrews Amalgams are constitutive elements of their matrix, and that they are complex XPs of a category appropriate to their matrix slot, rather than independent sentences.

A brief examination of (39) reveals that Andrews Amalgams invariably include a wh-phrase whose logical type, syntactic category, and – as will be seen below – morphological Case match the corresponding properties of their Insert. On these grounds, the wh-phrase qualifies as the pivot of its Insert, as indicated in (39) by means of boldfacing.
Semantically, the Inserts of Andrews Amalgams have existential quantificational force. To see this, note that the Inserts in (59) are most naturally paraphrasable by means of indefinite expressions, as, for example, in (60).

(59) a. He gave me [you will never guess what].
    b. He invited [you will never guess how many people].
(60) a. He gave me something such that you will never guess what it was.
    b. He invited a number of people such that you will never guess how large that number was.

Note that the content of the external heads used in the paraphrases is essentially that of the wh-phrase, with the proviso that its force is not interrogative. At the same time, the wh-phrase plays an incontrovertible semantic role in its Insert-internal position, being – as has been widely recognized in the literature – the 'remnant' of a sluiced interrogative clause (that the clause is interrogative is brought out by the fact that that the wh-phrases are allowed only in the complement position of predicates that can select interrogative complements, e.g., *she met you probably {suspect, *believe} who last night*).

The facts just outlined can be captured in (at least) two conceivable ways. One possibility is to merge the wh-phrase Insert-internally and then to Graft it unto the matrix. Under this analysis, both 'copies' of the 'chain' need to be interpreted, the one in the host tree without interrogative force. An alternative possibility is to adopt a bi-dimensional framework, generating the wh-phrase Insert-internally and assigning the Insert a null external head, whose syntactic and semantic content matches the content of the pivot, except for the interrogative force of the latter (the precise nature of the matching process remains to be made explicit, but I will leave this task for another time, confining myself to the reasonable assumption that it can be implemented).

The former approach faces the kind of objection that was noted in section 2 with respect to FRs: the same constituent is assigned two thematic roles (when the Insert is argumental). Another objection arises in connection with the phenomenon known as 'Swiping' (Merchant 2002), and which is illustrated with respect to a 'standard' Sluicing construction in (61).

(61) Mary has eloped with someone, but I won't tell you who with.

At least some informants accept Andrews Amalgams with Swiping, as in (62), and this is an embarrassment for the Grafting analysis, which – recall – assumes that the grafted element is 'pronounced' as part of the host tree. If the boldfaced string in (62) is viewed as part of the matrix in overt representation, it occurs in an in situ position, where Swiping is otherwise excluded, as illustrated in (63).

(62) Mary seems to have eloped [only God knows who with] an hour ago.
(63) a.*Who spoke who with yesterday?
    b.*Napoleon shouted who at before the battle of Austerlitz?

In sum, a non-Grafting analysis seems to do better than a Grafting one with respect to Andrews Amalgams as well.

Before concluding this section, I will take a brief look at the ways in which Andrews Amalgams seems to relate to other constructions, in particular, to standard Sluicing construction and Horn Amalgams, without in any way attempting to do full justice to this interesting construction within the limited scope of this paper.

25
One way in which Andrews Amalgams seem to differ from standard Sluicing constructions concerns the optional/obligatory status of the ellipsis. The data in (64) show that standard sluiced constructions always have essentially synonymous non-elliptical counterparts, regardless of whether the ellipsis is syntactically controlled, as in (64a), or pragmatically controlled, as in (64b) (on these notions, see Hankamer and Sag 1976).

(64) a. Bill wants to play poker with someone, but I won't tell you who (he wants to play poker with).
   b. [Context: someone discovers a murdered relative, and exclaims:] My God, who (can have done such a thing)?

In Andrews Amalgams, however, non-elliptical Inserts seem to force a Horn Amalgam reading. Thus while (65a) is fine with continuous intonation, (65b) seems to require a parenthetical intonation, as signaled by hyphenation.

(65) a. Bob found [you can easily guess what] last night.
   b. Bob found – [you can easily guess what he found] – last night.

Furthermore, non-elliptical inserts are impossible in utterance-initial position, just like the Horn Amalgams discussed in section 5, as shown in (6).

(66) [You know who (*I have in mind)] wants to kills us.

The necessary status of ellipsis appears to be a consequence of a more general fact: the wh-phrase needs to be in a string-final position within its Insert. This can be appreciated by noting that the full version of (67), in contrast to the reduced version, greatly favors a Horn Amalgam construal.

(67) Bob has obtained [I'll never reveal what (to any of you)] from Mary.

I conjecture this is due to the fact that Andrews Amalgams, in view of their superficial appearance as independent sentences, require special 'help' for their complex XP status to be recognized. Placing the wh-phrase at the Insert's right edge, where it can naturally receive special stress, is apparently one way of signaling its pivot role, and thus the complex XP status of the Insert. In fact, Andrews Amalgams seem to need some 'help' at their left edge as well, as suggested by the fact that (68) is not a felicitous alternative to (39b) (up to the first comma). I conjecture that the juxtaposition of the various Inserts, as well as the absence of left-adjacent matrix elements, makes the constitutive status of the Inserts harder to recognize, with the result that (68) sounds like a sequence of independent sentences.

(68) John invited [you'll never guess [vp how many people]] [you can imagine [vp to what kind of a party]] [it should be obvious [vp at which place]] [God only knows [vp with what purpose in mind]].

In short, Andrews Amalgams need special conditions to 'overcome' an alternative reading that takes them at face value, and the obligatory status of ellipsis falls out from them.

There is one more interesting aspect of Andrews Amalgams that I wish to draw attention to, and which is arguably a consequence of their raison d'être. The latter is, I submit, to 'veil' information that may lead to the identification of the intended denotatum, by
indicating or hinting at knowledge that certain individuals (most commonly, but not necessarily, the speaker and/or the hearer) may (or may not) have. Thus, note Andrews Amalgam Inserts tend to be infelicitous when they cannot be construed as pragmatically implying something about the state of knowledge of certain 'relevant' individuals. To illustrate, consider the (in)felicity of the following utterances in out-of-the-blue situations.

(69) a. Ed is marrying [I won't tell you who] next week.
   b. #Ed is marrying [Bill doesn't know who] next week.
(70) Ed is marrying [even God doesn't know who] next week.
(71) Ed is marrying [Bill knows, KNOWS who] next week.

(69a) transparently suggests that the speaker possesses the relevant information, and is unsurprisingly felicitous. (69b) does not obviously imply anything about anyone else's state of knowledge, and is thus infelicitous out-of-the-blue; however, if it is assumed that Bill is the speaker's only source of information about Ed's plans, (69b) becomes felicitous, in virtue of the pragmatic implication that the speaker doesn't know, either. Similarly, the reduced version of (70) is strange for the same reason that (69b) is, but the full version is felicitous, because even suggests that God is the Being most likely to possess the relevant information, so that if He doesn't have it, the speaker doesn't have it, either. Finally, (71) is OK with emphatic stress on knows because it suggests a prior assumption that Bill doesn't know, and thus makes Bill's state of knowledge contextually relevant.

Now, Hankamer (1978), in discussing a challenge by Schachter (1977) to the claim (made in Hankamer and Sag 1976) that VP-ellipsis allow only syntactic control, argued that pragmatic control is allowed, but only in "(certain) illocutionary charged utterances", being "possible only in modes other than those that are concerned in a straightforward way with the transmission of information." Sluicing was also claimed in Hankamer and Sag (1976) to be restricted to syntactic control, but (64b) shows that pragmatic control is possible under the kind of circumstances indicated in Hankamer (1978). Importantly, Andrews Amalgams always satisfy Hankamer's conditions (for reasons made explicit in the preceding paragraph), and thus should always be compatible with pragmatic control.

In this connection, we may note that there are situations where pragmatic control is the only reasonable option, (72) being a case in point.

(72) Does {you, we both} know who want to kill us?

Thus, (72) does not (necessarily) purport to ask the tautological question 'does someone such that {you, we both} know that (s)he wants to kill us want to kill us?', but rather something like 'does someone such that {you, we both} know who I {have in mind, am thinking of} want to kill us?'. Also, in a construction with multiple Inserts, such as (39b), it is rather hard to see what the syntactic controllers of the various ellipses might be (the skeptical reader is invited to try), while reasonable interpretations of the ellipses under the assumption of pragmatic control are very easy to find.

In addition to such semantic-pragmatic considerations, the assumption that pragmatic control is available can explain certain syntactic facts that would otherwise be quite puzzling. Thus, in standard Sluicing constructions, preposition stranding within the ellipsis is generally allowed just in case the individual language independently allows it in comparable non-elliptical constructions (Ross 1969, Merchant 2006, section 3.2.2). This can be appreciated by examining the Romanian example in (73) on the one hand and its English translation, as well as (64a), on the other, and by noting that in all these cases, the (un)acceptability of the full version extends to the reduced version.
(73) *Ion a reușit datorită cuiva, dar n-am să-ți spun
dar I Subj.Prt.-you.Sg.Dat tell cui
Ion has succeeded thanks-to someone.Dat but not-have.I Subj.Prt.-you.Sg.Dat tell
dar n-am să-ți spun
cui (a reușit el datorită).
who.Dat has succeeded he thanks-to
Ion succeeded thanks to someone, but I won't tell you who (he succeeded thanks to).

Now, consider (74). The full version (which, for reasons pointed out above in connection with (65), can only be a Horn Amalgam) is expectedly ungrammatical, just like the full version of (73). Unlike the reduced version of (73), however, the reduced version of (74) is grammatical as an Andrews Amalgam. Comparable facts obtain in Modern Greek, a language where data like the two versions of (73) are both ungrammatical (see Merchant op. cit.), but where data like the reduced version of (74) are grammatical, as illustrated by (75) (kindly provided by Jason Merchant, p.c.).

(74) Ion a reușit datorită [știi tu cui (*a reușit el datorită)]
Ion has succeeded thanks-to know.2.Sg you.Sg who.Dat has succeeded he thanks-to
la examenul deieri.
at exam-the of yesterday
'Ion succeeded thanks to [you know who] at yesterday's exam.'

The acceptability of the reduced version of (74) and of (75) seems to suggest that the constraint on P-stranding is somehow suspended in Andrews Amalgams. However, this fact is only puzzling if it is assumed that syntactic control of the ellipsis is the only option. If the pragmatic control option exists, there is no puzzle, since a deviant structure like the one within parentheses in (74) never exists at any stage of the derivation.

The assumption that the reduced version of (74) relies on pragmatic control raises the issue of how the wh-phrase gets Case. My proposal is that it gets Case via agreement with the null external head, there being no other possible source. This thesis is supported by the observation that the Case (or prepositional marking) of the wh-phrase must always match the corresponding requirements imposed on the Insert. In (74), for example, the Insert is assigned Dative Case by the preposition datorită, and the Case of the wh-phrase can only be Dative, substituting, say, the Nominative/Accusative form cine for cui results in ungrammaticality. Note that unless the Case of the wh-phrase is coerced by agreement, there is no reason why a Nominative form should not be acceptable, since it is very easy to imagine plausible pragmatically-induced construals of the ellipsis (e.g., știi tu cine e persoana la care mă gândesc 'you know who the person I am thinking of is').

A similar point is made by the facts in (76).

(76) Vrea [știi tu (*la) cine] să mă omoare?
wants know.2.Sg you.Sg at who Subj.Prt. me kill
'Does [you know who] want to kill me?'

The reduced version is an essential counterpart of (72), in the sense that pragmatic control is the only plausible option. Here, too, a plausible construal of the ellipsis that is consistent with the full version is very easy to imagine (e.g., mă gândesc 'I am thinking'). The severe ungrammaticality of the full version points to the already established conclusion that Case/prepositional properties can only be assigned to the wh-phrase by the matrix, via agreement with the null external head.
The grammaticality of (75) and the reduced version of (74), as well as the interpretation of (72), are consistent with the hypothesis that pragmatic control is always available for Andrews Amalgams. The following data suggest that it might be the only option available.

(77) * Ion a reușit datorită cuiva, dar n-am să-ți spun Ion has succeeded thanks-to someone. Dat but not-have.1 Subj.Prt.-you. Sg. Dat tell datorită cuia (a reușit el). thanks-to whom. Dat has succeeded he 'Ion succeeded thanks to someone, but I won't tell you who thanks to whom (he succeeded).'

(78)* Ion a reușit datorită [știi tu datorită cui] Ion has succeeded thanks-to know.2.Sg you. Sg thanks-to who. Dat la examenul de ieri. at exam-the of yesterday 'Ion succeeded thanks to [you know thanks to whom] at yesterday's examination.'

(77) is the grammatical way counterpart of (73), in which the potentially offending preposition has been pied-piped, rather than stranded, and the ellipsis is syntactically controlled by the italicized string. If syntactical control were available in Andrews Amalgams, (78) ought to be grammatical as well, with the same controller and a nominal null external head (the latter is expected to be possible, because in the absence of pragmatic control, there is no reason to expect matching effects between the null head of the Insert and the wh-phrase). The ungrammaticality of (78) (as an Andrews Amalgam) points to the conclusion that Andrews Amalgams are restricted to pragmatic control. Presumably, this is in an inherent property, conceptually motivated – even if not logically predicted – by the fact that the conditions for pragmatic control always exist in Andrews Amalgams, in contrast to standard Sluicing constructions, which can certainly deal with no more than the straightforward transmission of information.

7. Summary and conclusion

In this paper, we have examined the proposal to use the syntactic mechanism of Grafting in order to capture (presumed) pivot properties in five linguistic constructions. It was shown that this approach is empirically and/or conceptually problematic in all five cases, and that in each case, a superior more conservative analysis is available. There is thus no known evidence at the moment that Grafting is ever needed for capturing pivot properties. While multi-dimensional representations with shared sub-structures may be expected within a theory that assumes remerger, a reasonable notion of economy might dictate that its greater power should not be used when adequate bi-dimensional analyses are available.

On the positive side, I have attempted to shed novel light on the nature of the constructions examined and on the underpinnings of shared properties, when these exist. I have found no grounds for syntactically unifying constructions other than FRs and TFRs, which, I argued, have the same gross configurational properties, and differ only in the extent to which they exploit the under-specification options made available by the language, TFRs going farther than FRs in this direction, a state of affairs clearly motivated by their specific raison d'être, which is quite different from that of FRs.
REFERENCES


Jacobson, P. 1995. ‘On the quantificational force of English free relatives’. In E. Bach, E.


