Specificational copular sentences and pseudoclefts

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Specificational copular sentences and pseudoclefts

This is a survey article on specificational copular sentences, including specificational pseudoclefts. Section 1 will address the typology of copular sentences in some detail, laying out the various types of copular constructions identified in the literature and highlighting their properties and differences. Section 2 will repeat the typological exercise of section 1 with specific reference to a subtype of copular sentence referred to as the pseudocleft construction. Sections 3 and 4 will subsequently home in on specificational copular sentences (pseudocleft and non-cleft alike) and discuss their characteristics. Sections 5 and 6 address questions arising specifically in the context of specificational pseudoclefts and discusses the various analyses proposed for these constructions in the literature. Finally, section 7 discusses semi-clefts (constructions that superficially resemble pseudoclefts but lack a wh-operator) and their relationship with pseudoclefts.

1 Types of copular sentences

1.1 Copular sentences: Preliminaries

In this work, by copular sentence in the broad sense of the term we understand any sentence type of the general schema in (1). (We exempt from the schema in (1) constructions in which YP is a participial VP — these are either passives (if the V–head is a past participle) or progressives (where the V–head is a gerund or present participle). Neither ‘auxiliary construction’ is generally included in the set of copular sentences. We will follow standard practice here.)

(1) the general format of copular sentences

XP be YP [where YP ≠ participial VP]

The schema in (1) gives us a variety of different types of copular sentences, some examples of which are given in (2)–(13) (see Blom & Daalder 1977:115, Safir 1983, Den Dikken 1987, Neeleman 1997:106–10, Mikkelsen 2005:194, Potts 2007 on examples of the type in (6)–(9), with (6)–(8) featuring what Safir has called ‘Honorary NPs’, analyzed by Blom & Daalder and Den Dikken as elliptical NPs, and (9) involving a quotation, whose categorial status is unclear):

(2) My colleagues are my best friends. XP=DP YP=DP
    My best friends are my colleagues.

(3) My colleagues are nice people. XP=DP YP=NP
    *Nice people are my colleagues.

(4) My colleagues are nice. XP=DP YP=AP
    *Nice are my colleagues.

(5) My colleagues are in the conference room. XP=DP YP=PP
    In the conference room are my colleagues.

(6) Under the bed is a good place to hide. XP=PP YP=DP
    A good place to hide is under the bed.

(7) Down the hill is easier than up the hill. XP=PP YP=AP
    Easier than up the hill is down the hill.

(8) Bashful is a terrible thing to be. XP=AP YP=DP
    A terrible thing to be is bashful.
‘Yes’ is my answer. My answer is ‘yes’.

That they fought is the most unfortunate thing. The most unfortunate thing is that they fought.

That they fought is unfortunate. *Unfortunate is that they fought.

What happened is they fought. *They fought is what happened.

What they did was fight. Fight was what they did.

What John is is important to himself. Important to himself is what John is.

Exemplification is not exhaustive here, and certain non-trivial questions are raised already at this elementary stage — for instance, concerning the analysis of constructions like (12)–(14), particular types of pseudocleft construction; and about the accidental or principled non-existence of certain XP/YP combinations in some or all languages. At this elementary stage in the discussion these questions will not need to concern us. We will return to the former question (sections 3 and 6); the latter will not play a role in the discussion to follow at all.

Note that although the schema in (1) is presented as a linear string, we make no a priori claims here about the word order of copular sentences. Indeed, one of the things we will have occasion to discuss in great detail in this work is the fact that a specific subtype of copular sentence, the specificational copular sentence, typically allows its major constituents to ‘change places’: one often finds that in such sentences each can be on either side of the copula. It is important to emphasize that we do not follow here the practice of some of the literature on specificational copular sentences to count as ‘specificational’ only the versions of examples like those in (2) and (14) given in the second text lines of the examples. In much work on specificational copular sentences (including, most recently, Mikkelsen 2005, who claims that ‘[i]n specificational clauses, the predicative DP is in subject position and the referential DP is inside the verb phrase’; p. 162), these constructions are defined in such a way that the syntactic constituent representing the ‘variable’ (the ‘superscriptional’ constituent in Higgins’s 1979 terminology) precedes the constituent providing the ‘value’ for this variable. Higgins (1979) made it quite clear that specificational copular sentences often show flexibility of word order: both What John is is important to himself and Important to himself is what John is are specificational pseudoclefts, with the AP (important to himself) in both cases supplying the value for the variable in the wh-clause; the predicational copular sentence What John is is important to him, by contrast, is linearly rigid.

Specificational and predicational copular sentences are just two of a variety of copular sentence types distinguished in the literature on copular sentences. Before we will be able to properly address the specifics of specificational constructions (which are the focus of this work), we will first of all need to outline the typology of copular sentences, which will serve as a backdrop to the discussion to follow. Thus, in sections 1.2 and 1.3 we will go through increasingly more detailed typologies of (largely double–NP) copular sentences, then proceeding to attempts at reducing the fine-grained typologies to a simpler pattern (section 1.4), and finally (section 1.5) raising the question of whether the typology of copular sentences (however coarse- or fine-grained) should be given shape: in terms of properties of the copula or in terms of properties of the structure/derivation/major constituents of the constructions in question.
1.2 Types of copular sentences (I): A basic two-way split

That not all copular constructions are of the same type is not a contentious claim. There is a general consensus that at least two types need to be distinguished. Basing themselves typically on the referentiality of the second, or post-copular noun phrase in a ‘straight’ or ‘canonical’ double–NP copular sentence of the general format $NP_1$ is $NP_2$ (cf. (15) for an example), scholars have made a general distinction between double–NP copular sentences in which $NP_2$ is non-referential and ones in which $NP_2$ is referential. Even when it comes to this simple two-way split, however, terminological proliferation is rampant. The overview in (16), which aims to be representative rather than exhaustive, gives the reader a glimpse of the kinds of labels assigned to the two types of copular sentence, with references to their inventors in the right-hand margin. In what follows we will use the boldface labels predicational (food for the dog in (15) predicates a property of his supper) and specificational (food for the dog specifies what his supper consists of), due to Akmajian (1979).

\begin{align*}
\text{(15)} & \quad \text{His supper is food for the dog.} \\
\text{a.} & \quad \text{predicational: ‘His supper serves as food for the dog.’} \\
\text{b.} & \quad \text{specificational: ‘He eats food for the dog for his supper.’}
\end{align*}

\begin{align*}
\text{(16)} & \quad \text{a basic two-way split} \\
\text{a.} & \quad NP_2 = \text{non-referential} \quad \text{b.} \quad NP_2 = \text{referential} \\
& \quad \text{classifying} \quad \text{identifying} \quad \text{[Kruisinga & Erades 1953]} \\
& \quad \text{intensive} \quad \text{extensive/equative} \quad \text{[Halliday 1967, Huddleston 1971]} \\
& \quad \text{non-equational} \quad \text{equational} \quad \text{[Bolinger 1972]} \\
& \quad \text{ascriptive} \quad \text{equative} \quad \text{[Lyons 1977]} \\
& \quad \text{attributive} \quad \text{identificational} \quad \text{[Gundel 1977]} \\
& \quad \text{predicational} \quad \text{specificational} \quad \text{[Akmajian 1979]} \\
& \quad \text{predicational} \quad \text{specificational(ly identifying)} \quad \text{[Declerck 1988]}
\end{align*}

All scholars referred to in (16) essentially agree that the difference between the two types of copular sentences in (15a,b) turns on the referentiality of the post-copular noun phrase, though individual authors disagree on the precise notion of referentiality that they avail themselves of (see Keizer 1992:chapter 2 for a detailed précis).

1.3 Types of copular sentences (II): More fine-grained typologies

While the Greek philosophers of classical antiquity (Aristotle, Plato) already recognized the versatility of the copula and the many sides of ‘being’, it was not until Higgins (1979) that the linguistics literature was introduced to syntactic and semantic grounds for distinguishing more than just the two basic types of copular sentence in (16). Higgins (1979) proposed a four-way distinction in the realm of copular sentences, adopting the basic split in (16) and enriching it with two additional types (of which the fourth is often referred to as the equative construction as well), as in (17). In his reappraisal of Higgins’s seminal work on copular
sentences, Declerck (1988) once again recognizes four basic types (though the criteria used for distinguishing them differ from those employed by Higgins, and concomitantly the definitions of the various types are not exactly the same either). Declerck also considers the possibility that there might be even more types of copular sentences, highlighting in particular the ‘definitional copular sentence’ in (18e). Mikkelsen (2005:49), arguing that Higgins’s class of identificational copular sentences is not semantically uniform, proposes that (17c) be split into two subclasses, which she calls ‘truncated clefts’ (for *That is Susan*) and ‘demonstrative equatives’ (exemplified by *That woman is Susan*).

\[
\begin{array}{cccc}
\text{NP}_1 & \text{NP}_2 \\
\text{a. predicational} & \text{referential} & \text{predicational} & (\text{Higgins 1979}) \\
\text{b. specificational} & \text{superscriptional} & \text{specificational} \\
\text{c. identificational} & \text{referential} & \text{identificational} \\
\text{d. identity statement} & \text{referential} & \text{referential} \\
\text{a. predicational} & \text{referring} & \text{non-referring} & (\text{Declerck 1988}) \\
\text{b. specificational} & \text{weakly referring} & \text{strongly referring} \\
\text{c. descriptionally} & \text{strongly referring} & \text{strongly referring} \\
\text{d. identity statement} & \text{referring} & \text{referring} \\
\text{e. definitional} & \text{non-referring} & ?
\end{array}
\]

For both Higgins and Declerck (and also, more recently, for Mikkelsen 2005), the typology of double–NP copular sentences is in large measure a function of the referentiality of the two noun phrases that constitute them, as well as the discourse function of the various copular sentences (usable as answers to questions, list readings, focus/presupposition), their syntactic properties (reversibility etc.; see section 4) and their intonational properties. Higgins and Declerck disagree on the proper definition of ‘referential’, however. Higgins follows Strawson (1950) and Geach (1970) in taking ‘referentiality’ to be about ‘what a proposition is about’. Declerck, on the other hand, avails himself of a subtler approach to referentiality, making distinctions not just between referring and non-referring NPs but also, within the set of referring NPs, between weakly and strongly referring NPs (the former corresponding to Donnellan’s 1966 ‘attributive’). (Declerck does not make the referential status of NP₂ in definitional copular sentences explicit.)

Higgins explicitly rejects a classification of the NP₁ of specificational copular sentences (his ‘superscriptional’ NP) as ‘attributive’ in Donnellan’s sense (but see Declerck 1988:48–49 for a repartee of Higgins’s counterarguments). For Higgins neither NP₁ nor NP₂ of a specificational copular sentence can be referential (since specificational copular sentences are not ‘about’ either of the two NPs); he therefore needs to introduce additional terminology to label the constituents of specificational sentences (as ‘superscriptional’ [defining the heading of a list] and ‘specificational’ [specifying the content of the list]). Apart from drawing a connection with lists (or ‘colon constructions’; cf. the winner is: *John Johnson* or the winners are: *John Johnson, Jack Jackson, Dick Dixon, ...*), however, Higgins never makes it entirely clear what it means for an NP to be ‘superscriptional’.

Examples of the various types of copular sentences distinguished in (17) and (18) are given in (19)–(23), along with a summary of their most important characteristics (largely adapted from Declerck 1988, to whose work the page references in (19)–(23) refer; cf. also Keizer 1992:chapter 2).
(19)  

*Predicational double–NP copular sentences:*

a. John is a teacher.

b. Mary is a pretty girl.

- are ‘not felt to answer a question asking for specificational (identifying) information’
  (p. 55, *q.v.* for further discussion)

- do not alternate with *it*-clefts (*it is a teacher that John is*), which are ‘always specificational’ (p. 69)

- are not reversible (*a teacher is John*)

(20)  

*Specificational(ly identifying) double–NP copular sentences:*

a. The bank robber is John Thomas.

b. The only people that can help you are the Prime Minister and the Queen herself.

- exhaustively specify the candidates (‘values’) for the ‘variable’ (*the bank robber* in (20a)); ‘list reading’, ‘exhaustivity’ — section 3.2.2

- alternate with *it*-clefts (*It is John Thomas that is the bank robber*) and put focus on the ‘value’ NP (*John Thomas* in (20a))

- are reversible (John Thomas is the bank robber)

(21)  

*Identificational/descriptionally identifying double–NP copular sentences:*

a. That (man) is John’s brother.

b. That (place) is Boston.

- are not meant to specify a value for a variable (p. 95) and are not exhaustive or contrastive

- do not alternate with *it*-clefts (*It is that (man) that is John’s brother; *It is John’s brother that is that (man)*)

- are not reversible (*John’s brother is that (man)*)

(22)  

*Identity statements:*

a. The Morning Star is the Evening Star.

b. Dr Jekyll is Mr Hyde.

- are typically used to correct the hearer’s assumption that two different descriptions apply to two different referents

- do not alternate with *it*-clefts (*It is the Morning Star that is the Evening Star*)

---

1 Recall that Mikkelsen (2005) argues that *That is Susan* and *That woman is Susan* are syntactically different, representing ‘truncated clefts’ (cf. the full cleft *That is Susan who is knocking on the door*) and ‘demonstrative equatives’, respectively.
are reversible (*The Evening Star is the Morning Star*)

(23) Definitions:

a. A motor car is a vehicle that has four wheels and is propelled by an internal combustion engine.

b. A pyramid is what the Egyptians built to bury their pharaohs in.

• though a paraphrase of the form ‘NP1 is the following: NP2’ (‘list’) is possible, definitions lack the exhaustivity typical of specificational sentences

• do not alternate with it-clefts (*It is a vehicle that has four wheels and is propelled by an internal combustion engine that a motor car is*)

• are not reversible (‘That is to say, switching the places of the subject NP and the predicate nominal in [(21a,b)] results in a sentence that is not ungrammatical, but which no longer counts as an example of a definition’ — p. 113)

Copular sentences are often several ways ambiguous on paper. Thus, Higgins (1979:266–73) presents the examples in (24) and (25) (the latter due to Kripke 1972:271–73; see also Mikkelsen 2005:57) as three-ways ambiguous copular constructions:

(24) The girl who helps us on Friday is my sister.

a. predicational Answers the question of how the referent of NP1 is related to the speaker; no exhaustivity implied.

b. specificational Provides an exhaustive list in answer to the question Who is the girl who helps you on Friday?

c. identificational Identifies the referent of NP1 as the speaker’s sister (cf. That is my sister).

(25) The winner might have been the loser.
(Context: the 1972 U.S. presidential election, won by Nixon and lost by McGovern.)

a. predicational Nixon (the referent of the winner) might have lost (the loser construed predicatively).

b. specificational McGovern (the referent of the loser) might have won (the winner construed predicatively).

c. identificational Nixon might have been McGovern (both the winner and the loser construed referentially).

1.4 Reducing the typology

Higgins (1979) notes that his identity statements and identificational copular sentences are potentially reducible to one single type, depending on one’s interpretation of ‘referentiality’: if one insists ‘that referentiality is a property of expressions, not of the use of expressions, then one might also want to insist that
[an identificational copular sentence] is an identity statement’ (p. 263). He himself uses ‘referentiality’ with reference to the use of expressions, however, so he keeps the two types of copular sentence distinct. Mikkelsen (2005), on the other hand, does collapse them, arriving at a three-way typology of copular sentences: predicational, specificational, and identity (or equative), with the three members of the typology distinguished in formal-semantic terms on the basis of the semantic types of their constituents:

\[
\begin{array}{ccc}
\text{NP}_1 & \text{NP}_2 \\
(26) & \text{a.} & \text{predicational} & <e> & <e,t> & \text{(Mikkelsen 2005)} \\
& \text{b.} & \text{specificational} & <e,t> & <e> \\
& \text{c.} & \text{identity} & <e> & <e> & \text{(equative)} \\
\end{array}
\]

Taking Higgins’s typology as her starting point, Verheugd (1990) has attempted to reduce the four types of copular sentence in (17) to the two basic ones in (16), once again making crucial use of the notion ‘referentiality’. Verheugd’s objective is to reduce Higgins’s five NP types (referential, specificational, superscriptional, predicational, identificational) to just two: referential and non-referential. With particular reference to specificational copular sentences and Higgins’s notion of superscriptional NPs, she argues that such NPs can be treated as underlying predicates. She thus treats specificational sentences like *The culprit is John* as inverse copular sentences: copular sentences with a surface word order derived via inversion of the underlying subject–predicate order (see sections 4.2 and 4.3, below, for details concerning the properties of copular inversion).

In their studies of the syntax of copular sentences, Heggie (1988), Moro (1997), Mikkelsen (2005) and Den Dikken (2006) take the same tack, treating specificational sentences as inverse copular constructions. This literature has presented a variety of syntactic arguments to support a transformational derivation of such inverse copular sentences — though Heggie differs from the other contributors to this approach with respect to the way she implement the analysis. We will return to the details in the discussion of inversion (once again, see sections 4.2 and 4.3, below).

By analyzing specificational copular sentences as inverse copular constructions, the principles-and-parameters analyses by Verheugd, Heggie, Moro, Mikkelsen and Den Dikken continue the line of thought initiated by Blom & Daalder (1977), who likewise claim that there are just two types of copular sentence (the predicational and specificational types) and that as far as the underlying relationship between two NPs in predicational and specificational copular sentences is concerned there is no difference between the two sentence types: in both, one of the two NPs is the predicate of the other; underlyingly, then, both types of copular construction are predicational. Blom & Daalder take their cue from the intonational contour of copular sentences (focal stress in particular), and give the following characters of specificational and predicational copular sentences:

\[
(27) \!
\begin{array}{l}
\text{a. in a specificational copular sentence, the focused element is contained in the hyponym = Theme = deep structure subject} \\
\text{b. in a predicational copular sentence, the focused element is not contained in the hyponym = Theme = deep structure subject} \\
\end{array}
\]

Of these two claims, the former is undisputed; that predicational copular sentences demand that the focus not be on/in the subject is a controversial claim, however (see Heycock 1994, 1998).
Blom & Daalder (1977) (who express their indebtedness to Den Hertog 1903) are perhaps the most rigid and explicit champions of the idea that all copular sentences are underlyingly represented as predications, with one of the two NPs functioning as the hyperonym (Lyons’s 1977 ‘superordinate’; cf. ‘predicate’) of the other (the hyponym). They even extend their hyponym/hyperonym (or subject/predicate) approach to identity statements of the type in (22), saying that the post-copular noun phrase in such constructions is the hyponym of the pre-copular NP. They argue as follows (p. 76; my somewhat liberal translation):

In an example such as [(22a)], [the Morning Star] is presented as the more narrowly described element, while [the Evening Star] is a non-directly-identifying expression. Put differently, ‘being the evening star’ is a property which is ascribed to something, in this case to what is referred to as [the Morning Star].

Since this treatment of identity statements entails that of the two NPs in (22) only the pre-copular one is referential, they add (p. 77, translation mine; original italics):

The necessary ‘referential’ knowledge, the knowledge that we are dealing here with what are called “definite descriptions”, can be taken to be of a different nature than knowledge of the content of a grammatical construction. We would therefore like to claim that the referential knowledge in the case of an interpretation which goes beyond the grammatical interpretation is added to the hyperonym relationship expressed in the grammatical construction.

For Blom & Daalder, in other words, ‘referentiality’ is less basic when it comes to the grammatical classification of copular sentences than it is for the other scholars referred to in the foregoing: a predicate nominal, while quintessentially non-referential, can nonetheless be interpreted referentially on the basis of the language user’s non/extra-grammatical knowledge.

Blom & Daalder’s predicational approach to equative copular sentences/identity statements is controversial; and since, as far as their syntactic properties are concerned, identity statements have more in common with (inverse) specificational copular sentences than with their predicational counterparts (cf. esp. Heycock & Kroch 1999, also Guéron 2000, Den Dikken 2006; cf. e.g. section 4.3.2, below), it may be better (if one wants to treat them as underlyingly predicational in the first place) to try to analyse equatives along the lines of inverse specificational constructions. Be that as it may, even when we confine our attention to specificational copular sentences (for which inversion accounts have been proposed not just by Blom & Daalder but by Heggie, Moro and Verheugd as well) the idea that the relationship between the two NPs is one of hyponym/hyperonym or subject/predicate is a matter of debate.

Thus, Declerck (1988:93) dismisses the approach, stressing that ‘[s]pecificational sentences do not express a hyponymy relation’. In defence of his position, Declerck draws on Higgins (1979) and Halliday (1967, 1968): Higgins points out that the essence of the specificational relationship is that the contents of the concept expressed by the superscriptional NP are specified, which ‘naturally means that the NP denoting the concept and the NP specifying its contents cannot differ in generality or specificity’ (Declerck 1988:92–93); and Halliday argues that the two NPs of specificational sentences have ‘the same degree of specificity, and
that this is precisely the reason why such sentences are reversible’ (Declerck 1988:93, fn. 98).

In what follows, we will not take a stand on the question of whether the four or five types of copular sentences enumerated in (17)/(18) qualify as primitives or whether they are instantiations of two or even just one ‘macro-category’ of copular constructions, noting simply that if one wants to reduce the various types of copular sentence to one underlying structure, this will be the structure most directly represented by copular sentences of the predicational type: a subject–predicate structure (cf. Blom & Daalder 1977, Heggie 1988, Verheugd 1990, Moro 1997, Mikkelsen 2005, Den Dikken 2006 for representatives of this general perspective; Den Dikken 2006:sect. 3.2.2 presents a specific proposal for the analysis of equative copular sentences that renders the referentiality of the two physical noun phrases compatible with an underlying subject–predicate structure).

1.5  
A typology of copulas?

In sections 1.2 and 1.3 we have seen that there is good reason, at least descriptively (for the possibility of reducing the typology from a theoretical perspective, see section 1.4), to distinguish between a number of different types of copular construction (cf. (16)–(18)). There are two ways, in principle, of thinking of such a typology of copular constructions (cf. (28)). We refer to Keizer (1992:section 2.1) and Moro (1997:Appendix) for careful discussion, which we will summarize briefly in this section.

(28)  
a.  
one ‘be’, different structures/derivations


b.  
multiple ‘be’s


The ‘classical’ position in this debate is the one represented by Aristotle and Plato — the idea that ‘be’ is a polysemous lexical item with a variety of different meanings (corresponding to the different types of copular sentence enumerated in the foregoing). Modern philosophers have generally followed this venerable tradition in assigning *be* a variety of different meanings (cf. e.g. Mill 1856:86, Russell 1903:64).

In early generative work, the multiplicity of the copula seems to have been assumed more or less as a matter of course: thus, Huddleston (1971:241), in making a distinction between predicational and specification pseudoclefts, refers to the dichotomy in terms of the different types of *be* used in them: ‘intensive *be*’ versus ‘equative *be*’; elsewhere in the book he also distinguishes an identificational *be*. In making this three-way distinction among types of *be*, Huddleston follows Halliday’s (1967:66) typology of copulas. Likewise, Bolinger (1972:98) casts his typology of copular constructions in terms of a typology of *be’s, recognizing an eqational *be*, a locational *be* and a non-eqational *be*. Akmajian (1979) similarly talks in terms of two species of *be, as does Higgins (1979:191) (‘the verb *be* is the identity’); but Higgins (1979:161–63) also takes care to point out that ‘other verbs that permit a meaning relation similar to specification’, like *lie in, consist in, constitute, amount to, entail, involve, have to do with*(also justify) behave the same way when it comes to one of the key properties of specification pseudoclefts: connectivity.

Declerck also claims that the Blom & Daalder type approach to specification pseudoclefts (which treats them as predicational underlyingly) is incompatible with Givón’s (1973:119) universal that ‘a predicate may never be less general than its subject’ — but this is a mistake on Declerck’s part: for advocates of the inversion approach to specification pseudoclefts, the pre-copular NP₁ (the hyperonym) is indeed the predicate underlyingly, with the post-copular NP₂ (the hyponym) being its subject.
More recently, Seuren (1985:299) has also felt the need to ‘begin by distinguishing a separate verb be, distinct from the ordinary predicative be ... and distinct also from the be of identity’ — a type of be that he labels ‘specifying be’, used in specificational pseudoclefts. And in the principles-and-parameters framework, Safir (1985:116) stands out as an example of the multiple-be approach, distinguishing at least two lexical entries for be: an identificational and a predicational one. In a rather different vein, Guéron (1992) argues that, while otherwise meaningless, the copula is an ‘identificational operator’ in inverse (specification) copular sentences at the level of commentaire.\footnote{Guéron (1992) makes a difference between the récit and the commentaire, two levels of interpretation (a distinction which does not correspond to that between overt syntax and LF). In the récit of an inverse (specification) copular sentence like the culprit is John, the copula is a part of the predicate, along with the non-verbal part; in the commentaire (a ‘metalinguistic’ level, according to Guéron) it is an identificational operator.} For a recent principles-and-parameters study of copular constructions (with special reference to Hebrew), the use of be in predicative and identity sentences in English, and the meaning of ‘the verb be’, see Rothstein (2001). Rothstein takes the copula in equative copular sentences to be responsible for type-shifting its complement into a predicate (via Partee’s 1987 IDENT type-shifter).

The generative literature has generally tended, however, to the one-be approach, ascribing the semantic variability of copular sentences to the structures involved, not to the semantics of be.\footnote{As Partee (1998) points out, ‘[i]n the Slavic literature, it has long been noted that insofar as differences in the semantics of different copular sentences can be predicted from differences in the semantics of the ‘arguments’ of the copula, it should not be necessary to posit ambiguities in the copula itself’, she refers to Chvany (1975) and Padočeva & Uspenskij (1979) in this context. Irrelevant in the context of specificational copular sentences and pseudoclefts but significant in the broader context of copular sentences in general is the fact that languages may use different linker elements in copular sentences with an individual-level predicate (like intelligent) and ones with a stage-level predicate (like sick). Spanish and Portuguese are such languages (cf. the ser/estar distinction, where estar goes back to the Latin verb stare ‘stand’). We will not be concerned with this question here. See Schmitt (1996) and references cited there for discussion of the distribution of ser and estar.} In fact, most authors in this framework agree that a key property of be is that it has no meaning at all — it is a functional element, linking the major constituents of copular sentences (cf. Stowell 1981, Heggie 1988, Moro 1997, Den Dikken 2006). Even generativists who believe in the existence of a separate category of equative copular sentences alongside predicative copular constructions (see Heycock & Kroch 1999, Adger & Ramchand 2003, Pereltsvaig 2001, Mikkelsen 2005, Reeve 2012) routinely hasten to add that they do not take this to imply the existence of a separate ‘equative be’: there is only one copula, a ‘relator’ or ‘linker’ (see Den Dikken 2006), as its name suggests; the difference between equative and predicational copular sentences lies in the structures of the constructions. These approaches recognize multiple copular sentences while at the same time avoiding the need to attribute specific semantic properties to the copula. Thus, Heycock & Kroch (1999), while stating explicitly that they reject an analysis in terms of an equative copula (noting correctly that ‘equative semantics is independent of the presence of the copula’; 1999, 381), postulate a functional category in the small clause in the complement of be that performs the necessary semantic function (see section 4.1.1 for brief discussion), and Reeve (2012) similarly attributes the semantics of specification and equation to a functional head, ‘Eq’, which he places in the extended projection of the copular verb; for Pereltsvaig (2001), there is a distinction between be as a realization of I or v.\footnote{Mikkelsen’s (2005) position in the matter is not crystal clear. On p. 50 she hints that she ‘will suggest a meaning for the copula itself, but the evidence for it will be indirect’; but on p. 61 it is stated that ‘the specificational copula does not contribute an identity relation; in fact, its contribution to the semantic contribution is truly minimal’, and on p. 162 it says that in both predicational and specificational copular sentences ‘the copula is semantically inert’.}

The copula in specificational copular sentences is a ‘specifying copula’ — that performs the necessary semantic function (see section 4.1.1 for brief discussion), and

The generative work referred to in the previous paragraph is generally in agreement with Dik (1983), which represents a Functional Grammar perspective (for more FG–based studies on copular sentences, see Hengeveld 1992 and Keizer 1992; we will not address these further here).
In what follows we will follow (28a), the one-be approach to copular constructions — in the light of Higgins’s (1979:161–63) point about equivalents of be, and the fact that in the absence of an explicit demonstration of the polysemy (or, in fact, the ‘semy’, i.e. the meaningfulness) of the copula, one should proceed on the assumption that all of the semantics of copular sentences derives from (i) its major constituents and (ii) their syntactic structure and derivation.

2 Types of pseudocleft sentences

2.1 Pseudocleft sentences: Preliminaries

A particular kind of copular sentence which has attracted a great deal of specific attention in the generative linguistic literature is the so-called pseudo(-)cleft construction. Quintessential representatives of the class of pseudoclefts are copular sentences featuring a wh-clause, typically with what (less often where, when, why, how; even more rarely who), as one of their major constituents. Examples of such pseudoclefts are given in (25)–(33) (cf. esp. Akmajian 1979:18–19).

(29) What John does not eat is food for the dog.
(30) What John is is a good teacher.
(31) What John is is tall.
(32) What we need is Jerry drunk.
(33) Where John finally ended up was in Berkeley.
(34) When John arrived was at five o’clock.
(35) Why John went to the bookstore was to buy a book about pseudoclefts.
(36) How John did it was by using a decoder.
(37) Who John visited was Bill.

Not all types of specificational pseudocleft illustrated in (29)–(37) are found in all languages (Ross 1999 notes, for instance, that Japanese and Kitchangana (Bantu) seem not to have the counterpart of (31)). Even in English, as Akmajian (1979:83, fn. 1) notes, ‘[m]any speakers find sentences such as [(37)] unacceptable (or less acceptable than sentences [(29)–(36)]) but judge as acceptable sentences [(29)–(36)]’. In his corpus-based study, Collins (1991) found not a single example of a who-pseudocleft, while of all the tokens of pseudoclefts with wh-words other than what, only one had the order illustrated in the examples above (with the wh-clause preceding the copula — see also Gelykens’s 1984 corpus-based study for the rarity of this type, attested just once in his corpus; cf. also Heggie 1988:352–53), all other cases involving the reverse order — but even then, their total incidence is not anywhere near that of what-clefts. Higgins (1979:2) explicitly sets aside all pseudoclefts with wh-elements other than what; we will not, though most of our examples will indeed be of the what type.

7 The term is spelled variably as ‘pseudo-cleft’ (cf. e.g. Huddleston 1971, Akmajian 1979, Higgins 1979) or ‘pseudocleft’ (cf. more recent work); we will use the non-hyphenated spelling in what follows.

8 (32) is taken from Ross (1999), where the ‘nouniness’ of Jerry drunk is noted (cf. Safir’s 1983 ‘Honorary NPs’).
The unbalanced distribution of what vs. wh-words disappears once we include in the class of pseudocleft constructions examples featuring a headed relative instead of a wh-clause, illustrated in (38)–(43). All examples on this list are equally acceptable.

(38) The things John does not eat are food for the dog.
(39) The place where John finally ended up was in Berkeley.
(40) The time at which John arrived was at five o’clock.
(41) The reason why John went to the bookstore was to buy a book about pseudoclefts.
(42) The way John did it was by using a decoder.
(43) The {“one\checkmark person} who John visited was Bill.

Most scholars agree that ‘th-clefts’ (to borrow Collins’s 1991 term; see also his ‘all-clefts’: All John ever eats is food for the dog) should be treated on a par with ‘wh-clefts’ (an alternative for the term ‘pseudoclefts’) — but Hankamer (1974) warns that the two, though similar, should not be identified (on account of the fact that ‘the allowable subjects of [‘th-clefts]’ are very restricted’; Hankamer 1974:fn. 9); see also (205)–(206), below). In this work, we follow the general trend of assimilating ‘th-clefts’ to ‘wh-clefts’.

The term ‘pseudocleft’ seems to be a terminological innovation that we have generative linguistics to thank for — as Higgins (1979:1) puts it, ‘[t]his term is relatively new and seems to have arisen within the transformational-generative tradition, its formation emphasizing the formal and semantic kinship of the construction concerned to what Jespersen termed the “cleft” construction’. Jespersen’s (1961) term cleft sentence applies to such constructions as It was Bill that/who John visited yesterday, featuring the pronoun it in pre-copular position and a relative clause to the right of the copula. In early work on ‘wh-clefts’, they occasionally were referred to simply as ‘clefts’ (cf. Jacobs & Rosenbaum 1968:39). The parallels and differences between it-clefts and pseudoclefts will not be discussed here in any detail; that the two cannot be identified is clear, for instance, from the fact that there is no it-cleft counterpart to our earlier example in (32) (cf. *It is Jerry drunk that we need).9

2.2 Types of pseudocleft (I): A basic two-way split

Just like there are several types of copular sentence, the literature has also found occasion to distinguish different kinds of pseudocleft construction — where ‘pseudocleft’ is understood in the sense of section 2.1: as a copular sentence featuring a wh-clause or a corresponding (light-)headed relative clause construction as one of its major constituents (on a substantially narrower interpretation of the term ‘pseudocleft’, see section 2.4). Thus, Higgins (1979) distinguishes between two types, as in (44) (cf. the typology of copular sentences in (16)). The difference between the two can be illustrated with the aid of the ambiguity of the example in (29) (adapted from Clifton 1969; cf. (15), above): here food for the dog may be taken to denote a property ascribed to the referent of what John does not eat (‘the things that John does not eat serve as food for the dog’), in which case we are dealing with a predicational pseudocleft; alternatively, we can take food for the dog to be a specification of what it is that John does not eat (‘John does not eat the following: food for the dog’), in which case we are confronted with a specificational pseudocleft.

9 We will not dwell on it-clefts here except in contexts in which a comparison of clefts and pseudoclefts will be fruitful. For a recent detailed study of the syntax of it-clefts, see Reeve (2012). On the scope of the term ‘pseudocleft’ (or ‘wh-cleft’), see section 2.4, below.
(44)  

\textit{a basic two-way split} (Higgins 1979)  

a. predicational  
   (29): ‘The things John does not eat serve as food for the dog.’  

b. specificational  
   (29): ‘John does not eat (the following:) food for the dog.’  

2.3 Types of pseudocleft (II): More fine-grained typologies  

In section 1.3 we have seen that a more microscopic investigation of copular sentences has turned up a number of additional types of such constructions (cf. (17) and (18)). In the light of the proliferation of copular sentences in general and the fact that pseudoclefts are unquestionably copular sentences themselves, one might therefore reasonably expect there to exist more than just two types of pseudocleft construction. And indeed, a more elaborate typology of pseudoclefts has been argued to exist. The one in (45) is due to Declerck (1988:70).  

(45)  

\textit{a more refined typology of pseudoclefts}  

a. predicational  

b. specificational  

c. identity  

d. definitional  

(45a,b) are familiar from the foregoing discussion; examples of pseudoclefts identity statements and definitional pseudoclefts are given in (46) and (47), respectively (from Declerck 1988).  

(46)  

\textit{pseudocleft identity statements}  

a. What I did WAS what you told me to do.  

b. The one who is drinking the martini IS Mr Brown.  

(47)  

\textit{definitional pseudocleft sentences}  

A pyramid is what the Egyptians built to bury their pharaohs in. (cf. (23b))  

Declerck’s (1988) typology of double–NP copular sentences in (18) raises the expectation that a fifth type of pseudocleft construction might exist: descriptionally identifying pseudoclefts (cf. (18c); or Higgins’s 1979 identificational pseudoclefts, (17c)). Though Declerck does not discuss this, it does indeed seem possible to find pseudocleft counterparts to examples of the type in (21), above: sentences of the type in (48) would appear to instantiate this type.  

(48)  

\textit{identificational/descriptionally identifying pseudoclefts}  

a. That is what I need.  

b. This is how I did it.
The examples in (48) seem parallel to the examples of identificational/descriptionally identifying double–NP copular sentences given in (21) — a parallelism which extends to the fact that reversal of the word order of (48b) is impossible (*How I did it is this).10 Collins (1991) includes (48) type examples in his set of specificational pseudoclefts and consequently finds overwhelmingly more XP<wh orders than wh<XP cases in his corpus.

For constructions of the type shown in (44b), with proximal this rather than distal that, it does not seem generally impossible, however, to reverse word order: with ‘colon intonation’ following this and a following specification, examples like What I’m looking for is this: a crowbar and a wrench are perfectly acceptable. Constructions such as this are most certainly specificational (as is revealed by their characteristic ‘colon intonation’ and their ‘list reading’; cf. Higgins 1979 on the latter as a defining property of specificational sentences). One might actually go so far as to hypothesize that this this is a quintessential ingredient of specificational copular sentences: one might suggest that it is this this (which would have a null incarnation in all specificational sentences in which it does not surface overtly) that functions as the predicate of specificational sentences, with the other two major constituents functioning as subject and ‘specifier’ of this predicate.

The typology in (45)+(48) mimics the typology of copular sentences presented in section 1.3. A more microscopic typology (developed in Declerck 1988:220ff.) zooms in on specificational ‘clefted sentences’ (a cover term for it-clefts and specificational pseudoclefts), and primarily uses the information-structural properties (for more on these, see section 3.2.2, below) and concomitant intonational characteristics of the constructions as diagnostics:

(49)  
\[ \text{a typology of specificational pseudoclefts} \]

a. contrastive pseudoclefts (or ‘stressed-focus’) (see (50))
b. unaccented-anaphoric-focus pseudoclefts (see (51))
c. discontinuous pseudoclefts (see (52))11

(50)  
\[ \text{a. Who broke the window? — The one who did it was John.} \]
\[ \text{b. Who broke the window? — John was the one who did it.} \]

(51)  
\[ \text{a. It turns out that there is interesting independent evidence for that rule, and that evidence is what we must now turn to.} \]
\[ \text{b. Why is everybody so interested in uranium? — Because uranium is what you need to produce atomic power.} \]

(52)  
\[ \text{a. My dear friends, what we have always wanted to know but what the government has never wanted to tell us, is what exactly happens at secret conferences like the one you have been reading about in the papers this week; there is one man, however, ...} \]
\[ \text{b. Those apples are good, aren’t they? — So they are! What keeps me from eating all of them is that mother would be furious if I left none for the others.} \]

10 Reversal of the order of (48a) is not ungrammatical, but when reversed (What I need is that) it takes on the guise of a specificational pseudocleft, and is not identificational/descriptionally identifying anymore.

11 The term ‘discontinuous pseudocleft’ is adapted from Declerck (1988:222), who uses ‘discontinuous cleft’; the adjective ‘discontinuous’ does not refer to discontinuous constituency; though Declerck does not elaborate on the rationale for using this adjective to define pseudoclefts of the type in (52), what seems to be behind this term is the fact that in these constructions both the focus and the wh-clause are accented and represent new information, as indicated in (53).
These three types of specificational clefted sentences have the following key properties (cf. Declerck 1988:224):

<table>
<thead>
<tr>
<th>Type</th>
<th>Focus New; Clause Old</th>
<th>Focus Old; Clause New but Represented as Old</th>
<th>Both Focus and Clause New</th>
</tr>
</thead>
<tbody>
<tr>
<td>new/old info</td>
<td>focus new; clause old</td>
<td>focus old; clause new</td>
<td>both focus and clause new</td>
</tr>
<tr>
<td>accent</td>
<td>focus: heavy; clause: weak</td>
<td>focus: weak; clause: normal</td>
<td>both focus and clause normal</td>
</tr>
<tr>
<td>contrast focus</td>
<td>strongly</td>
<td>not strongly</td>
<td>not strongly</td>
</tr>
<tr>
<td>word order</td>
<td>both orders good</td>
<td>wh-clause post-copular</td>
<td>both orders good</td>
</tr>
</tbody>
</table>

As far as word order is concerned, Declerck’s (1988) ‘unaccented-anaphoric-focus’ pseudoclefts (49b) are special in that they allow only the XP<\(wh\)-order — cf. the ‘identificational/descriptionally identifying pseudoclefts’ of (48); see also Collins (1991) on the differences between pseudoclefts with \(wh<XP\) word order and their congeners with XP<\(wh\) orders. What this shows is that, when one is talking about pseudoclefts, one should be careful to keep an eye on their word order.

The role of word order is also emphasized by Den Dikken et al. (2000), who make a distinction, within the class of specificational pseudoclefts, between ‘Type A’ and ‘Type B’ constructions:

\[
\text{(54) Den Dikken et al. (2000)}
\]

\[a. \text{‘Type A’ specificational pseudoclefts} \]
\[\quad \text{• feature as their major constituents a } wh\text{-clause and a full IP (which is subject to optional ellipsis)} \]
\[\quad \text{• have } wh<\text{XP orders only} \]
\[\quad \text{• exhibit connectivity effects for negative polarity and case} \]

\[b. \text{‘Type B’ specificational pseudoclefts} \]
\[\quad \text{• feature as their major constituents a } wh\text{-clause and some XP (X≠I)} \]
\[\quad \text{• have } XP<wh\text{ orders only}\]
\[\quad \text{• do not exhibit connectivity effects for negative polarity} \]

As the characterizations of the two types in (54) suggest, Den Dikken et al.’s (2000) two-way split within the class of specificational pseudoclefts is based largely on the behavior of pseudoclefts with full–IP ‘value–XPs’

---

12 Den Dikken et al. (2000) advance the claim that their ‘Type B’ specificational pseudoclefts uniquely allow an XP<\(wh\) order tentatively. If the claim holds, it stands out as a surprise, in light of the general reversibility of specificational copular sentences based on a small clause with a definite predicate nominal (that free relatives are definite is apparent, for instance, from their resistance to serving as the associate of there in there-existentials: *There is what I like to drink in the fridge). See section 4.1.2, point (vii), for an indication that ‘Type B’ specificational pseudoclefts probably are reversible.

13 For the meaning of this term and other names for the relevant constituent, see (58) and the text immediately below it.
(as in (55); see e.g. Ross 1972 for discussion) and pseudoclefts featuring connectivity effects with respect to the case form of and the licensing of negative polarity items in the ‘counterweight’ of the wh-clause (see (56), from German, and (57)).

(55)  
\begin{align*}
\text{a. } & \text{What John bought was he bought some wine.} \\
\text{b. } & \text{He bought some wine was what John bought.}
\end{align*}

(56)  
\begin{align*}
\text{a. } & \text{Was Hans essen wollte war } \{\text{ein/einen}\} \quad \text{Apfel.} \\
& \quad \text{what } \text{Hans eat wanted was } \text{a(NOM)/a.ACC apple} \\
\text{b. } & \text{ } \{\text{Ein}/^*\text{einen}\} \quad \text{Apfel war was } \text{Hans essen wollte.} \\
& \quad \text{a(NOM)/a.ACC apple was } \text{what } \text{Hans eat wanted}
\end{align*}

(57)  
\begin{align*}
\text{a. } & \text{What John didn’t buy was (he didn’t buy) } \text{any wine.} \\
\text{b. } & \text{*Any wine was what John didn’t buy.}
\end{align*}

We will have occasion to discuss these two properties of (‘Type A’) specificational pseudoclefts in more detail further below. (See especially section 3.4 for discussion of the role of word order in the domain of specificational pseudoclefts.)

In what follows, we will not be concerned in any detail (except when it comes to contrastive analyses) with pseudoclefts of any type other than the specificational ones.

2.4 The scope of the term ‘pseudocleft’

There is considerable confusion and disagreement in the literature on pseudocleft constructions concerning the meaning and scope of the term ‘pseudocleft’. To quote Higgins (1979:1–2) on this point:

14 Sentences of the type in (55b) are given as ungrammatical in Ross (1972) and Den Dikken et al. (2000). Ross (1999, 2000) notes that there is a contrast between bought and did in the wh-clause (with inversion being grammatical when did is used), and points out furthermore that not all speakers seem to reject (55b) even with bought. So we have updated Den Dikken et al.’s *-judgment accordingly. Ross (1999) also notes that, for those speakers for whom (55b) as it stands is good, the construction can be input to Sluicing as well, yielding sentences like "He bought some wine, is what," which are ‘used only in colloquial spoken English’. O’Neill (2012) calls sentences like (55b) ‘specificational copular amalgam’ constructions, of which further illustrations are given in (ib) and (iib). Note that the copula in (ib) and (iib) is is, and as O’Neill (2012:26) points out, ‘[w]hile the copula does show optional past tense agreement with a past-tense weight or counterweight, the form is is generally the default’ in specificational copular amalgams; so (55b) is relatively marked compared to (ib) and (iib). We will not discuss specificational copular amalgams here; see O’Neill (2012) and references cited there (incl. esp. Ross-Hagebaum 2004 and Lambrecht & Ross-Hagebaum 2006) for detailed discussion of their distributional properties and their syntax, which is non-trivially different from that of the constructions under discussion in the main text. We add here that the reduced version of (iib), with just any wine in precopular position (cf. (57b)), is ungrammatical for all speakers, including those who accept (iib).

(i)  
\begin{align*}
\text{a. } & \text{What we should get is we should get a new car.} \\
\text{b. } & \text{*We should get a new car is what we should get.}
\end{align*}

(ii)  
\begin{align*}
\text{a. } & \text{What John didn’t buy is John didn’t buy any wine.} \\
\text{b. } & \text{*John didn’t buy any wine is what John didn’t buy.}
\end{align*}
Unfortunately, the domain of application of the term is not completely clear, and there is much confusion in the literature. There are two features of the pseudo-cleft construction which are by many authors taken as defining features: (i) a semantic kinship to cleft sentences, and a consequent semi-formal requirement that pseudo-cleft sentences should have a bipartite form, looking like a broken-up form of a simple sentence, with a ‘focal’ constituent which in some sense is being emphasized, and a remainder; (ii) a formal requirement that the sentence is a copular sentence having a subject that consists of a clause introduced by a Wh-item, usually what, this subject clause constituting the remainder of the simple sentence, and a portion which follows the copula and constitutes the focal constituent, the constituent which is being emphasized.

While some scholars use ‘pseudocleft’ as a cover term (in the way we did in section 2.1; cf. also Declerck 1988), others confine its reference in one or more of the following ways:

- to distinguish between examples with a wh-clause and examples featuring a headed relative (with the one/thing/reason/time/way/... [cf. (33)-(39)], or all, as in all John eats is food for the dog; cf. Prince 1978, who uses the term ‘wh-cleft’ in this narrow sense)
- to single out one particular type of pseudocleft construction: the specificational pseudocleft (see e.g. Akmajian 1979, who uses the term ‘pseudocleft’ in this narrow sense)
- to single out pseudocleft constructions with wh<XP word orders (see the above quote from Higgins 1979 — these are Den Dikken et al.’s ‘Type A’ pseudoclefts)

Following, for instance, Akmajian (1979) and Collins (1991), we will include in this study not just (i) those pseudoclefts featuring a wh-clause (‘wh-clefts’) but also what Collins (1991) calls (ii) ‘th-clefts’ and (iii) ‘all-clefts’. Unlike Akmajian (1979) but instead following, for instance, Higgins (1979) and Declerck (1988), we will not confine the term ‘pseudocleft’ to specificational constructions; to refer to such pseudoclefts we will use the term ‘specificational pseudoclefts’. Though the emphasis will be on specificational pseudoclefts in what follows, we will contrast these with their predicational congenerers in various places to properly delineate the set of specificational pseudoclefts.15

3 Specificational copular sentences and pseudoclefts: An inventory of properties

3.1 Characterizing specificational pseudoclefts

What unites the examples in (29)–(43) (with (29) read specificationally) and sets them apart from other copular sentences is (as Akmajian 1979:19 puts it) ‘that the initial clause of the pseudo-cleft contains what is essentially a semantic variable, a semantic “gap” which must be “filled” or specified by the focus item’. Even pseudoclefts with a headed relative as NP1 are different from specificational copular sentences of the type discussed in section 1: they ‘contain relative clauses whose heads function as variables ranging over given semantic classes’. We may therefore rephrase our character of specificational pseudoclefts as follows:

(58) specificational pseudoclefts consist of

• a constituent containing a variable (also called identified (Huddleston 1971) or anchor (e.g. O’Neill 2012))

15 Recall from section 1.1 that (unlike some of the literature) we do not define specificational copular sentences in linear terms: it is not descriptively adequate to distinguish specificational copular sentences from predicational copular sentences in terms of a word order in which the syntactic constituent representing the ‘variable’ precedes the constituent providing the ‘value’ for this variable.
• a constituent (exhaustively) specifying the value for that variable (also called identifier (Huddleston 1971), focus (Akmajian 1979, Higgins 1979), highlighted constituent (Collins 1991), counterweight (Heycock & Kroch 1999))

• a form of the copula linking the two major constituents

In what follows, we will refer to the constituent containing the variable simply as ‘the variable’ (or ‘the wh-clause’, in the discussion of pseudoclefts), and to the constituent specifying the value as ‘the value–XP’.

The recipe in (58) is advantageous in two respects. We will highlight one of these in the remainder of the present section, and the second one at the outset of section 3.2.1.

(i) Connection between specificational pseudoclefts and question–answer pairs

First of all, (58) allows us to see the connection between specificational pseudoclefts and question–answer pairs (see (59)).

In both we find a constituent containing a variable (the wh-clause in (59i)) and a constituent (exhaustively) specifying the value for that variable (the focus of the post-copular constituent/answer in (59ii)); the two construction types are obviously different in that the copula is obligatorily present in the former, but absent from the latter.

(i) (ii)

(59) a. What John did was (John) read the newspaper.
   b. What did John do? — (John) read the newspaper.


3.2 Properties distinguishing specificational from predicational copular sentences

3.2.1 Syntactic properties

(ii) Reversibility

The second respect in which the recipe in (58) is beneficial is that it makes no reference to word order. And indeed, a key property which specificational pseudoclefts share with specificational copular sentences (cf. section 1.3) is their reversibility (see (60)–(61)).

16 Note in this context that it is precisely the link between specificational pseudoclefts and question–answer pairs that has led Declerck 1988:8 to call the answer clause of a question–answer pair such as who opened the door? — John opened the door a ‘specificational sentence’ (i.e., for Declerck, the scope of the term ‘specificational sentence’ includes non-copular answers to questions; see also Akmajian 1979:178–80 for a wider application of the term ‘specificational’ than the one used here). Declerck’s extension of the term ‘specificational’ mistakes the ‘value’–XP (the answer) for an entire ‘variable–value’ pair — John opened the door is not a specificational sentence per se: it is the ‘value’ of a specificational question–answer pair.

17 Both Schlenker (2003) and Romero (2005) apply the question–answer pair approach not just to specificational pseudoclefts but to specificational copular sentences in general, representing the ‘superscriptional’ noun phrase of a double-NP specificational copular sentence as a concealed question. Thus, a specificational construction such as The culprit is John is argued to be interpreted along the lines of The answer to the question who is the culprit? is John. Neither Schlenker nor Romero establishes an explicit link between their semantic proposal and the syntax of specificational copular sentences.
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(60) a. What John contributed to the conference was his best speech ever.  
   [ambiguous: predicational or specificational]

b. His best speech ever was what John contributed to the conference.  
   [specificational only]

(61) a. John’s contribution to the conference was his best speech ever.  
   [ambiguous: predicational or specificational]

b. His best speech ever was John’s contribution to the conference.  
   [specificational only]

While the a–examples in (60) and (61) allow a reading for his best speech ever according to which it predicates a property of the pre-copular constituent alongside a specificational reading which says that John contributed his best speech ever to the conference, only the latter reading survives in the b–examples.

It should be borne in mind that reversibility is not a foolproof diagnostic for specificational status — there are specificational copular sentences that are not reversible. The restrictions on reversal are largely of a categorial nature:

• if the value is an adverbial, the value<variable order is typically poor (though not entirely impossible); see (62) (Declerck 1988:40, Heggie 1988:371, Collins 1991)

(62) a. The usual method of solving this problem is by firing the coach.

b. ??By firing the coach is the usual method of solving this problem.

• if the value is not an expression containing an iota operator, a variable and a domain of individuals, it cannot precede the variable; see (63) (Guéron 1992 has the most explicit discussion of this constraint)

(63) a. Bill is {captain of the team/a doctor/a friend of mine/the best doctor in town/my best friend}.

b. {*Captain of the team/*a doctor/*a friend of mine/the best doctor in town/my best friend} is Bill.

• if the value is a full IP (possible only in pseudoclefts), it often cannot precede the variable if the verb in the wh-clause is substantive (rather than do); see (64) (Ross 1999, 2000, Den Dikken et al. 2000)

(64) a. What John {did/bought} was he bought some wine.

b. He bought some wine was what John {did/*bought}.

18 A problem arises here only for specificational readings of (63a); predicational and identificational copular sentences never invert to begin with (cf. (19) and (21) above). Declerck treats (63a) with captain of the team as a specificational copular sentence and has no answer to the question of why (63b) is ungrammatical; Higgins (1979) analyses the same sentence as an identificational copular sentence; a third (and plausible) option is to treat it as a garden-variety predicational copular sentence.

19 Recall note 14, above, for the observation that (64b) with bought is not uniformly rejected by English native speakers; but (64b) with bought is not a garden-variety specificational copular sentence. O’Neill (2012) calls it a specificational copular amalgam.
if the value is an AP and the verb in the wh-clause (of pseudoclefts) is not the copula, it must precede the variable; see (65) (Heggie 1988:352–53)

(65) a. *How John likes his women is rather plump.
b. Rather plump is how John likes his women.

Most of these constraints on reversal are not very well understood. These constraints aside, the general rule is that specificational sentences are reversible. This seems to lead to a paradox when combined with the parallel between specificational sentences and question–answer pairs highlighted under (i), above. Question–answer pairs are not reversible (i.e., the answer does not normally precede the question). Den Dikken et al. (2000) address this question and distinguish two types of specificational pseudocleft, ‘Type A’ and ‘Type B’ constructions (cf. (54), above): it is only the ‘Type A’ cases that (thanks to their full–IP ‘value’) are on a par with question–answer pairs; and concomitantly, a hallmark of ‘Type A’ constructions is that they are not reversible.

With these caveats in place, we will now continue down the list of definitional properties of specificational copular sentences (see Akmajian 1979, Higgins 1979 and Declerck 1988 for the provenance of many of the following arguments, acknowledged wherever distinctive).

(iii) Connectivity/connectedness effects A property of specificational constructions which has preoccupied much of the discussion of these sentences in the generative literature is the fact that they exhibit connectivity/connectedness effects (cf. (66) for initial illustration). (The terms ‘connectivity’ and ‘connectedness’ are used interchangeably, the latter being the older term (cf. Akmajian, Higgins); however, to avoid confusion with the technical term ‘connectedness’ introduced by Kayne (1984), in what follows we will avail ourselves of the label ‘connectivity’.)

(66) a. What John treasures most is a book about himself/*him.
b. John’s greatest treasure is a book about himself/*him.

As (66) shows, connectivity (here with respect to anaphor–antecedent relationships) is a property of specificational sentences in general, not just specificational pseudoclefts. Indeed, ‘[s]pecificational sentences are the only type of copular sentences that show “connectedness”’ (Declerck 1988:51) — as a consequence, connectivity effects can be used as a disambiguator of otherwise ambiguous pseudoclefts, as Higgins shows: while (67) is ambiguous between a specificational and a predicational reading, (68a) with anaphor connectivity is unambiguously specificational and (68b) is predicational only.

(67) What John is is important.
   a. specificational: ‘John is important.’
   b. predicational: ‘What John stands for is important.’

(68) a. What John is is important to himself.     [specificational]  (Higgins)
b. What John is is important to him.            [predicational]

The contrast in (65) is due to Heggie (1988). Not all speakers find this contrast equally strong, however — some, in fact, find it very weak at most. Pseudoclefts with how are usually not very good to begin with; for many speakers the choice of word order does not seem add further complications above and beyond the use of a how-pseudocleft.
Connectivity effects come in a variety of subtypes, listed and briefly discussed here.

(iii.a) Reflexive connectivity (see (68); cf. Higgins 1979)

(iii.b) Reciprocal connectivity (see (69); cf. Declerck 1988:52):

(69) a. What they did was kiss each other. [specificational]

b. *What they did was surprising to each other. [*predicational]

Reflexive and reciprocal connectivity, taken together, have served from the very beginning of the theoretical discussion of pseudocleft constructions as a key argument for somehow relating the specificational pseudocleft to the simple clause that paraphrases it (for (69a): They kissed EACH OTHER, with in situ focus). The argument is simple and clear: specificational pseudoclefts reproduce ‘across the copula’ the binding properties characteristic of simple clauses.

The argument has never been airtight, however. As Blom & Daalder (1977:54) points out (see (70)), anaphor connectivity breaks down in Dutch when the anaphor is itself the post-copular constituent of the pseudo-cleft (rather than being contained in it); note, though, that English examples rendering things like (70a) are generally judged grammatical in the literature — see e.g. Akmajian’s 1979:125 The one that I shaved was myself and The one that you cheated was yourself, and below on emphatic reflexives in English; we are not aware of any reported English counterparts to Dutch (70b), featuring the reciprocal, but they seem perfectly grammatical: What they most detested was each other (Caroline Heycock, p.c.).

(70) a. ?*Wie hij op het oog heeft is zichzelf.  
   who he on the eye has is SE-self
   ‘Who is he thinking of is himself.’

b. *Wie zij tartten was/ waren elkaar.  
   who they pestered was/ were each other

Note also that pseudoclefts (and it-clefts as well) behave ‘anomalously’, from the simple clause perspective, in a number of contexts, as noted by Akmajian (1979:125) and Hankamer (1974:231–32, fn. 6) (cf. also Sharvit 1997, Den Dikken et al. 2000:74, fn. 29) — see (71a), from Akmajian, and (71b), adapted from an example of Hankamer’s attributed to Stephen Anderson. Akmajian points out in a footnote (fn. 10 on p. 153) that the reflexives used in examples of this kind ‘cannot be interpreted as normal reflexives, since they form the foci of their containing sentences’ (original emphasis); this is certainly true, but the fact remains that the non-cleft counterparts of example like (71a,b) remain unacceptable even with heavy focal stress on the reflexive; cf. (72).

(71) a. The one who John claimed had been cheated was himself.

b. What was staring up at John out of his soup was himself.

(72) a. *John claimed that himself had been cheated.

b. *Himself was staring up at John out of his soup.

The status of anaphor connectivity as an argument for a transformational relationship of some sort between specification pseudoclefts and their corresponding non-cleft paraphrases is less than crystal clear, therefore.
We note here that anaphor connectivity is unaffected by the linear word order of specificational sentences: that is, (68a) and (69a) remain grammatical with the relative order of variable and value inverted, as shown in (73):

(73)  
   a. Important to himself is what John is.  
   b. Kiss each other is what they did.

In this respect, anaphor connectivity effects in specificational sentences are different from a third case of binding connectivity attested by specificational constructions (iii.c):

(iii.c) Principle C connectivity (‘anti-reconstruction’) (see (74); cf. Heycock & Kroch 1999, Den Dikken et al. 2000:84, fn. 35):

(74)  
   a. *What he had said to Mary was that she had been lying to John.  
      [specificational]  
   b. What he had said to Mary was an embarrassment to John.  
      [predicational]

The facts in (74) are as expected, in the light of the anaphor connectivity effects noted above. Interestingly, however (cf. Den Dikken, Meinunger & Wilder 2000:84, fn. 35), (75), which has XP<wh order, is grammatical, in contradistinction to the wh<XP case in (74a):

(75)  
   Peter’s picture of Mary is what he covets most

Den Dikken et al. suggest that perhaps ‘such sentences are not SPCs [specificational pseudoclefts, MD] at all, or are ambiguous between an SPC and some other sentence type, e.g. an equative sentence’.

(iii.d) Negative polarity item connectivity (see (76)–(77); cf. Ross 1972, Akmajian 1979, Halvorsen 1978):21

(76)  
   a. What I have never noticed is any signs of dissatisfaction.  
      [specificational]  
   b. *What I had never noticed was noticed by any of us.  
      [*predicational]

(77)  
   a. What John hasn’t done is leave yet/*already.  
   b. What I doubt is that anyone/*someone needs this money.  
      (cf. what I don’t doubt is that *someone/someone needs this money)  
   c. What John doesn’t want is ever to be left alone.

Higgins (1979:23–24) acknowledges the NPI connectivity effect noted by Ross and Akmajian (along with a number of other connectivity effects listed here) but decides not to address it, saying that of the connectivity effects canvassed by Akmajian ‘[t]he only one ... that carries any great weight is the reflexive pronoun case’. His rationale is as follows: ‘the rule is more clearly defined and the phenomenon better understood than, for instance, that governing some/any alternations’. Heggie (1988:325, fn. 5) also explicitly sets aside NPI connectivity in her otherwise detailed discussion of specificational pseudoclefts. As Den Dikken, Meinunger & Wilder (2000) argue

21 The data in (76)–(77) are from the published sources mentioned; many speakers find (77b) with someone grammatical, on a par with I doubt that someone needs this money — positive polarity items like someone are generally allowed to scope below extraclausal NPI–licensers like doubt (cf. Von Fintel 1999). The key fact in (77b), however, is the grammaticality of anyone.
in detail, however, the distribution of NPI connectivity effects does indeed give us clear insights into the analysis of (a subtype of) specificational pseudoclefts.

We note in the context of negative polarity connectivity in specificational pseudoclefts that Blom & Daalder (1977:24–25) present two types of example, from Dutch, in which such connectivity breaks down in these constructions. (They in fact draw the general conclusion that specificational pseudoclefts exhibit no NPI connectivity effect (in Dutch), but this is too strong a claim: Dutch counterparts to examples of the type in (76a) are grammatical, as shown in (78).)

(78) Wat ik nog nooit opgemerkt heb is ook maar enig teken van ontevredenheid.

‘What I have never noticed is any sign of dissatisfaction.’

The first type of example discussed by Blom & Daalder is illustrated by the pair in (79). Blom & Daalder note (with a reference to the discussion of any in Klima 1964) that (79a) allows for a (salient) reading in which ieder behaves like English any: what (79a) then says is that he refused and would refuse any medicine at all that one offered or would offer him. That reading (which we may call the polarity reading of (79a)22), Blom & Daalder point out, is unavailable for the pseudocleft in (79b); the example in fact has no reading at all: it is unacceptable as a reflex of a general ban on QPs as the post-copular constituent of pseudoclefts (be they predicational or specificational; see also the text accompanying (143), below, for discussion).

(79) a. Hij weigerde ieder geneesmiddel.

he refused every medicine

b. *Wat hij weigerde was ieder geneesmiddel.

what he refused was every medicine

The lack of connectivity in (79b) is paralleled by the unavailability in (80b) of the inference which presents itself in (80a): that he gets upset about any joke at all (cf. Fauconnier 1975; like (79), we present this under the rubric of ‘negative polarity’ — cf. fn. 22). We share Blom & Daalder’s judgment; though we are not aware of any discussion of this phenomenon in the literature on English pseudoclefts, the facts seem transposable to English, with the same net result: a lack of parallelism/connectivity between specificational pseudoclefts and their simple clause counterparts.

(80) a. Hij trekt zich het onschuldigste grapje aan.

he pulls SE the most-innocent joke PRT

‘He gets upset about (even) the most innocent of jokes.’

22 Though more like a ‘free choice item’ (FCI) than like an NPI, this reading qualifies as a polarity reading on the understanding (see Giannakidou 1998) that FCIs are polarity items.
b. Wat hij zich aantrekt is het onschuldigste grapje.

what he SE PRT-pulls is the most-innocent joke

‘What gets him upset about is the most innocent of jokes.’

The failure of polarity connectivity in examples of the type in (80b) is presumably connected to the fact that, systematically, NPI connectivity breaks down in specificational pseudoclefts whenever special NPIs (like not ... until; Clifton 1969, Higgins 1979:44, Sternefeld 1997) and idiom chunks are involved:23

(81) a. *What John didn’t do was (he didn’t) leave until 6 p.m.

b. *What didn’t John do? — (He didn’t) leave until 6 p.m.

(82) a. *What John didn’t have was (he didn’t have) a red cent.

b. *What didn’t John have? — (He didn’t have) a red cent.

Den Dikken et al. (2000:80) address this point and observe (i) that the ban on special NPIs and negatively polar idiom chunks as the ‘value’–XP of specificational pseudoclefts rears its head in question–answer pairs as well (cf. the b–examples in (81) and (82)), and (ii) that this ban manifests itself even when the ‘value’–XP or answer is a full IP containing a local licenser for the negative polarity item. The deviance of the examples in (81) and (82) (and presumably that of (80) on its idiomatic reading as well) should be sought, Den Dikken et al. suggest, in the lack of interpretive parallelism between the wh-clause and the ‘value’/answer (manifest also in the oddity of a question–answer pair such as What did John take? — ??He took a picture, on an idiomatic reading): while the ‘value’/answer is idiomatic, there is no choice but to read the wh-clause literally, which yields a clash.

23 Included in this category is also the Dutch special polarity item ‘polar-heel’ (Den Dikken 2002, 2006b), which can be licensed directly by having it scope over a clause-mate negation, or parasitically by connecting it to a polarity item that allows licensing by a non-clause-mate negation. While (ia) (a case of direct licensing of polar-heel) and (iia) (a case of parasitic licensing, with polar-heel piggy-backing on ooit ‘ever’) are grammatical, their pseudocleft counterparts in (ib) and (iib) are bad with hele included. In line with the text discussion below (82), a connection with question–answer pairs asserts itself here as well: the c–examples are likewise unacceptable when hele is included in them.

(i) a. Ik zou die hele vent nooit uitnodigen.
   I would that whole bloke never invite
   ‘I would never invite that bloke at all.’

b. Wie ik nooit zou uitnodigen is die (*hele) vent.
   who I never would invite is that whole bloke

   who would you never invite that whole bloke

(ii) a. Ik denk niet dat ik die hele vent (*ooit) zou uitnodigen.
   I think not that I that whole bloke ever would invite

b. Wie ik niet denk dat ik ooit zou uitnodigen is die (*hele) vent.
   who I not think that I ever would invite that whole bloke

   who think you not that you ever would invite that whole bloke
(iii.e) Quantifier connectivity (see (83); cf. Hankamer 1974:223):

(83)  a.  What the little bastards did was all get in the tub at the same time.

b.  *What the little bastards did was all surprising to us.

This once again highlights the parallel between specificational pseudoclefts and their simple clause paraphrases (cf. *The little bastards all got in the tub at the same time*). If ‘floating quantifiers’ (like all in (83a)) are taken to be stranded by movement of the quantified noun phrase (cf. Sportiche 1988), the distribution of all in (83) might be construed as an argument for a transformational analysis of specificational pseudoclefts (cf. section 6 for discussion of transformational approaches). The stranding analysis of floating quantifiers is controversial, however (see Bobaljik 2003 for a critical assessment).

(iii.f) Scope connectivity (see (84); cf. Declerck 1988:53; Den Dikken et al. 2000):

(84)  a.  *What I want to marry is a nice Swedish girl.

b.  What he wanted to find was a nice Swedish girl to marry.

An example of the type in (84) allows a reading of a nice Swedish girl on which it is in the scope of the intensional verb want, but such a reading is available only on the specificational reading of the sentence, not on the predicational one.

Scope connectivity also comes to the fore in the examples in (85), which show that the ‘value’–XP of a specificational pseudocleft allows for the same de dicto/de re ambiguity (customarily treated in terms of scope) as does the object of the corresponding simple clause.

(85)  a.  What John seeks is a unicorn. [de dicto or de re]

b.  John seeks a unicorn. [de dicto or de re]

(iii.g) Selectional connectivity (see (86)–(87); cf. Peters & Bach 1968, Hankamer 1974, Heggie 1988):

(86)  What John counted was the pigeons/*the pigeon.  
      cf. John counted the pigeons/*the pigeon.

(87)  a.  What John wondered was whether/*that it was raining.  
      cf. John wondered whether/*that it was raining.

b.  What he’s {asking/not saying/*saying} is whether there will be any beer.

c.  What {that depends/*John counts} on is whether there is enough beer.

d.  What she wouldn’t say (*to me) was why she ate them all at once.²⁴

For reasons inherent in the lexical selectional properties of the verb count, a plural countable object (or a furniture-type mass term, not illustrated here) is needed in combination with this verb. As (86) shows, this selectional restriction imposed by count carries over into specificational pseudoclefts featuring this verb in the

²⁴ The contrast between say and say to me is reported in Hankamer (1974); not all speakers share this judgment, many finding the example perfectly acceptable with to me included. It remains unclear how to account for the contrast if it is real.
wh-clause. Likewise, the fact that wonder selects a wh-clause complement asserts itself in the pseudocleft in (87a) as well. (Of course, (87) involves specificalional pseudoclefts for trivial reasons, wh-questions not being construable as predicates.)

(iii.h) Emotive should connectivity (see (88)–(89); cf. Higgins 1979:139–40, Bošković 1997, Heycock & Kroch 1999) Another reflex of selection which we may mention here under the general rubric of connectivity effects is what we will call ‘emotive should connectivity’:

(88) a. The odd thing is that he should have managed to do this all by himself.
    b. What is odd is that he should have managed to do this all by himself.

(89) It is odd that he should have managed to do this all by himself.

As Higgins (1979:139–40) first noted, the ‘value’–XP of a specificalional copular sentence may contain so-called ‘emotive should’ as a reflex of a selectional property of a subconstituent of the ‘variable’ constituent. Predicates like odd can trigger the use of should in the clause that they select (cf. (89)); this selectional property of the predicates in question is preserved in specificalional copular sentences, despite the fact that a direct link between odd and the clause containing should is not estabishable in (88).

We add in the context of ‘emotive should’ (even though this does not obviously have anything to do with connectivity) that the presence of ‘emotive should’ in specificalional pseudoclefts may also be triggered by a predicate outside the pseudocleft construction altogether — and that, when this happens, ‘emotive should’ will show up either in the root clause or in the wh-clause if the word order of the pseudocleft is XP<wh but may surface only in the wh-clause if the order is wh<XP (see Higgins 1979, also Bošković 1997:271, Heycock & Kroch 1999):

(90) a. It is a pity [that [proud of himself] should be [what John is]].
    b. It is a pity [that [proud of himself] is [what John should be]].

(91) a. *It is a pity [that [what John is] should be [proud of himself]].
    b. It is a pity [that [what John should be] is [proud of himself]].

For Bošković (1997) and Heycock & Kroch (1999) the facts in (91) are an indication that specificalional pseudoclefts of this type are ‘reconstructed’ into their simple clause counterparts in the semantic component of the grammar. See especially Bošković (1997:271) for careful discussion, as well as for the observation that the distribution of ‘emotive should’ is a diagnostic for distinguishing specificalional and predicational pseudoclefts: in the latter, ‘emotive should’ never shows up in the wh-clause in such contexts as (92):

(92) a. It is a pity [that [what John is] should be [worthwhile]].
    b. *It is a pity [that [what John should be] is [worthwhile]].

(iii.i) Case connectivity (see (88)–(90); cf. Iatridou & Varlokosta 1998, Bošković 1997) One last connectivity effect that we will discuss here involves case. Iatridou & Varlokosta (1998) point out that the ‘value’–XP of specificalional pseudoclefts is case-dependent on the verb in the wh-clause; that of predicational pseudoclefts is not. The German pair in (93) (recall (56)) shows this most clearly, thanks to the morphology on the post-copular noun phrase:
Den Dikken et al. (2000:73, fn. 27) point out that Iatridou & Varlokosta have overstated the case: (93b) is not unambiguously predicational; it allows a specificational interpretation as well (as is shown by connectivity effects, which are reproducible in this kind of sentences; see Sharvit 1997 for a similar observation about Hebrew). Be that as it may, (93a) is certainly unambiguously specificational (moreover, as noted in (56), it is grammatical only with a wh<XP word order, a ‘Type A’ diagnostic; see Den Dikken et al. 2000 for discussion). It shows that the ‘value’–XP can get its case from the verb in the wh-clause: a case of case connectivity.

That the ‘value’–XP is case-dependent on the verb in the wh-clause is shown also by facts presented by Bošković (1997:250). While ask and wonder both semantically select a question, it is only ask which allows this question to take the form of a noun phrase; this follows from the fact that only ask is a case assigner. The distribution of CP and DP complements seen in the simple clauses in (94) is mimicked perfectly in the corresponding specificational pseudoclefts in (95). (Bošković 1997:253 presents similar facts for hope and inquire.)

The examples in (96) and (97) (both taken from corpus-based studies: Geluykens 1984:Appendix and Collins 1991:45, respectively) make a similar point. In both cases, the fact that the post-copular ‘value’–XP does not want case seems to be responsible for the absence of the preposition which the verbs in the wh-clauses would select in the presence of a case-dependent DP. Bošković’s (1997:253, fn. 20) constructed examples in (98) (which he calls ‘degraded’ yet better than the corresponding wh-questions: *What is John afraid?*, *What does it seem?*)

In (ia) and (ib), we reproduce examples involving connectivity for reflexive sich and bound-variable anaphora, respectively. Of course, connectivity for NPI–licensing is strictly confined to pseudoclefts in which there is case connectivity as well, as (ii) demonstrates. This is because NPI–connectivity depends on a ‘Type A’ derivation, and ‘Type A’ derivations must feature case connectivity: the ‘value’ is included in a full IP within which it is case-marked.

(93) a. Was Hans essen wollte war einen Apfel.
   what Hans eat wanted was an.ACC apple
b. Was Hans essen wollte war ein Apfel.
   what Hans eat wanted was ein(NOM) apple

Den Dikken et al. (2000:73, fn. 27) point out that Iatridou & Varlokosta have overstated the case: (93b) is not unambiguously predicational; it allows a specificational interpretation as well (as is shown by connectivity effects, which are reproducible in this kind of sentences; see Sharvit 1997 for a similar observation about Hebrew). Be that as it may, (93a) is certainly unambiguously specificational (moreover, as noted in (56), it is grammatical only with a wh<XP word order, a ‘Type A’ diagnostic; see Den Dikken et al. 2000 for discussion). It shows that the ‘value’–XP can get its case from the verb in the wh-clause: a case of case connectivity.

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(94) a. I asked {what the time was/the time}.
b. I wondered {what the time was/*the time}.

(95) a. What I asked was {what the time was/the time}.
b. What I wondered was {what the time was/*the time}.

The examples in (96) and (97) (both taken from corpus-based studies: Geluykens 1984:Appendix and Collins 1991:45, respectively) make a similar point. In both cases, the fact that the post-copular ‘value’–XP does not want case seems to be responsible for the absence of the preposition which the verbs in the wh-clauses would select in the presence of a case-dependent DP. Bošković’s (1997:253, fn. 20) constructed examples in (98) (which he calls ‘degraded’ yet better than the corresponding wh-questions: *What is John afraid?*, *What does it seem?*)

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fit into this general picture as well. (See Bošković 1997:253, fn. 20 for discussion of why his examples in (98) are degraded.)

(96) What I am convinced is that we shall not do anything unless departments cooperate.

(97) Now what I’m fascinated is to know that communists and fascists are such bad shots.

(98) a. ?What John is afraid is that Mary will leave.
    b. ?What it seems is that Mary will leave.

For Bošković, the above examples show, in addition, that the what inside the wh-clause apparently is not case-dependent. This seems to be contradicted, however, by familiar facts of the type in (99)–(101) (cf. Heggie 1988:340, 343). Here, the distribution of of indicates that what does indeed demand case — the what of specificational pseudoclefts imposes the exact same restrictions on the complement of the verbs in these examples which unmistakable DPs also impose.

(99) a. What did you persuade him *(of)?
    b. You persuaded him (*of) [that he should try harder]/[to try harder].
    c. What you persuaded him *(of) was [that he should try harder]/[to try harder].

(100) a. What did he agree *((to)?
    b. He agreed (*to) [that he would work harder].
    c. What he agreed *(to) was [that he would work harder].

(101) a. What is John wondering (about)?
    b. John is wondering *(about) his possibilities for success.
    c. What John wonders (about) is [whether he can succeed].

Notice that these data seem to confirm the parallelism between specificational pseudoclefts and question–answer pairs (cf. (i), above; also see section 5, below), while the ones in (96)–(98) seem to pose a problem for such a connection.

(iv) Agreement effects The whole battery of connectivity effects reviewed in the foregoing as a group sets apart specificational sentences (double–NP as well as pseudocleft varieties) from predicational copular sentences. Similar in spirit and effect are the agreement/concord effects observed in specificational and predicational copular sentences. These come in three types.

(iv.a) Phi-feature agreement (see (102)–(103); cf. Declerck 1988:79)

(102) The biggest problem is/*are the agreement facts. [specificational]

(103) a. What you have bought is fake jewels. [specificational]
    b. What you have bought are fake jewels. [predicational]
(104) a. What the book does not offer is any solutions to the problems that are noted.  
   b. What you wanted was two things.  

(Geluykens 1984)

(iv.b) Aspectual agreement (see (105); cf. Declerck 1988:52)

(105) a. What he was doing was working in the garden.  
   b. *What he was doing was work in the garden.  
   c. *What he did was working in the garden.

(iv.c) Temporal agreement/concord (see (106); cf. Akmajian 1979:168–69)

(106) a. What you are holding in your hand is a small brown butterfly.  
   b. What you are holding in your hand was a small brown butterfly.  
   c. What you are holding in your hand will be a small brown butterfly.

We will have nothing more to say about the aspectual agreement effects in (105) (though see the text above (120) for a brief note). But the phi-feature and tense agreement effects require closer scrutiny. We will begin with (iv.a), a topic of much discussion in the literature on specificational copular sentences and their syntactic derivation.

Moro (1997) and Heycock (1992) discuss the agreement facts in double-NP specificational copular sentences such as (102) in detail from a theoretical perspective. There is less work on the agreement properties of specificational pseudoclefts. Some of these properties seem clear: the interpretive contrast in (103), noted by Declerck (1988:79), is significant, and so is Declerck’s (1988:79) example in (104a), which can only be assigned a specificational reading (due to the presence of the negative polarity item any in the ‘value’ constituent) and, apparently concomitantly, accepts only singular copular agreement. The role played by the polarity item is confirmed by the following observation (judgments from Chris Wilder, p.c.): while in What John brought was/were the crackers, plural inflection on the copula is marginally possible, it is entirely impossible in What nobody brought was/were any crackers, where the postcopular value is a polarity item licensed by a negation in the wh-clause. The contrast is clear.

Beyond these clear cases, however, the agreement facts in specificational copular sentences in general are not as categorical they have sometimes been made out to be. Despite the fact that there certainly are strong tendencies of the type just illustrated, Declerck (1988:79–80) points out that ‘[i]n specificational sentences the number of the copula can apparently be determined by that of either the superficial subject NP or the variable NP’. He quotes the following examples to illustrate:

(107) a. The aim of our policy is/were improved relations with the Soviet Union.  
   b. Improved relations with the Soviet Union is/were the aim of our policy.

(108) a. What I need is/are more books.  
   b. More books is/are what I need.

(109) a. What we can’t have here is/are theft and robbery.  
   b. Theft and robbery is/are what I despise most.
Verb agreement is not a foolproof diagnostic for the predicational/specificational distinction. But in English double-NP specificational copular sentences with a word order in which the variable precedes the value, there certainly is a robust tendency for the copular to show no phi-feature agreement with the value. The fact that in specificational copular sentences with what or all in initial position it seems relatively easier on the surface to get number (but not person) agreement between the copula and the postcopular value (see (110) vs (111)) is, in the words of Heycock (2012:fn. 3), ‘likely ... due to the possibility of what and all (or the empty noun it modifies) being underspecified for number’ (allowing them to pick up their number specification from their associate), but not for person. Note, however, that the ungrammaticality of (111) with agreement between the copula and you is transparently attributable to person only on a singular reading for you; and if the form you is consistently morphologically plural even when making reference to a single person (like French vous), it is not clear that person comes into the picture at all: there are no dedicated second-person forms in the English phi-featural paradigm; you always controls generic plural agreement. At any rate, as Heycock herself notes, plural agreement is bad also when the pronominal value is third person plural, as in (112).

(110) a. What he saw behind him was/were two men.
    b. What makes something a pencil are superficial characteristics such as a certain form and function.
    c. All I could see was/were two staring eyes.

(111) a. What he saw behind him was/*were you.
    b. What makes this party go is/*are you.
    c. All I could see was/*were you.

(112) All I could see was/*were them/*they.

Heycock points out that the ban on plural inflection on the copula in (112) ‘might have to do with the morphologically marked non-nominative case of them’. And indeed, it may be possible (though not easy to prove, because of a number of complications in the data) that the cross-linguistic patterning of phi-feature agreement in specificational copular sentences with a variable-value order is related to (perhaps even correlated with) the

26 We should note in this context the relevance of agreement in copular sentences of the type in (i) and (ii) (often called ‘pancake sentences’ in the literature); see Wechsler (2011) and references cited there for detailed discussion of the Swedish case in (ii), which carries over mutatis mutandis to the English case in (i).

(i) a. Pancakes are nice.
    b. Pancakes is nice. (cf. ‘Having pancakes is nice.’)

(ii) a. Pannkakor är goda.
    b. Pannkakor är gott.
    pancakes be.PRES good.PL
    pancakes be.PRES good.NEUT.SG

27 The first singular pronoun does control a designated first person agreement form on the copula. But for independent reasons, the agreement behavior of postcopular first person pronouns in English specificational copular sentences cannot be tested: it is only the nominative form I that can control first person agreement; but I is impossible as the postcopular value (The culprit is me/*I).
cross-linguistic variation in the case form of the postcopular value. As the Italian and German examples in (113b) and (114b) show clearly, in these languages the postcopular value of finite specificational copular sentences is nominative (tu and du are explicitly nominative), and agreement with the copula is controlled by the value, both for person (as in the b–sentences) and for number (in the a–sentences; (114a) is from Berg 1998). In English, on the other hand, pronominal postcopular values, to the extent that they are felicitous, surface with default accusative case (see (112)), and we find no agreement between the copula and the postcopular value.

(113) a. La causa della rivolta sono/*è the cause of the riot are/is the photos of the wall le foto del muro.

b. Il colpevole sei/*è tu. the culprit are(2 SG)/is you

(114) a. Die Unfallsursache waren/*war defekte Bremsen. the accident.cause were/was defective brakes

b. Der Schuldige bist/*ist du. the culprit are(2 SG)/is you

Berg (1998) has run an experimental study on number agreement patterns in German and English specificational copular sentences with variable=value word order (including both specificational pseudoclefts and double-NP specificational copular sentences), and has found that in German, number agreement is controlled by the postcopular value to an overwhelming degree, with a very high degree of cross-speaker consensus. A follow-up study by Fischer (2003) confirmed Berg’s results for German. Heycock (2012) notes that Spanish, Catalan, Portuguese pattern like Italian and German; French, on the other hand, behaves like English: L’état, c’est moi/*ce suis je ‘the state is me’, both in the realm of phi-feature agreement and in the non-nominativity of the postcopular value. For Icelandic and Faroese, Heycock reports considerable idiolectal variation in agreement in sentences of the type in (113) and (114); but the fact that agreement between the copula and the postcopular value is possible at all seems consistent, once again, with the case properties of the postcopular value, which is nominative in these Scandinavian varieties. There is microvariation within Scandinavian with respect to the case form of the postcopular value of specificational copular sentences: Mikkelsen (2005:173) reports that Swedish employs nominative case (Vinnaren är inte han(NOM)/*honom(ACC)) while Danish assigns it default accusative case (Vinderen er ikke ham(ACC)/*han(NOM) ‘the winner isn’t him’). Unfortunately, we cannot check whether this has repercussions for agreement on the copula: Mainland Scandinavian lacks phi-feature agreement on verbs in general.

The outlier, from this perspective, appears to be Dutch, which uniformly shows nominative case on the postcopular value in specificational copular sentences and pseudoclefts with variable=value order,28 but which shows much less clear-cut behavior with respect to phi-feature agreement with the copula. Den Dikken (1997) criticizes Moro’s (1997) perspective on language variation (English vs Italian) in connection with copular agreement in specificational sentences, and shows that it cannot account for agreement with the postcopular value in Dutch, which Den Dikken (1997, 2006a:96) presents as categorical. And indeed, in the Dutch equivalents of (113) and (114) agreement with the focus strikes me as clearly the only option. But Fischer’s (2003) experimental

28 As Heycock (2012) stresses as well, we should be careful to keep (hypothetical) identity statements out of this picture: as Sigurðsson (2006) points out, there is no perfect correlation between the case form of a postcopular value in specificational copular sentences and the case form of the postcopular value in (hypothetical) identity statements of the type If I were you. Thus, Dutch clearly has nominative case on the former (De beste kandidaat ben jij ‘the best candidate are you(NOM)’) but accusative case on the latter (Als ik jou was ‘if I you(ACC) were”).
study (cited in Heycock 2012) finds a considerable lack of consensus among speakers of Dutch, as well as quite a bit of intraspeaker variation and instances of speakers changing their judgments, regarding number agreement in specificational copular sentences with variable-value order. In Fischer’s experiment there were no Dutch participants who systematically reported number agreement with the postcopular value throughout.

Heycock (2012) presents the contours of a perspective on the contrast between German and Dutch that relates it to the distribution of scrambling in the two languages. The general idea is that (in subordinate clauses, where the disturbing effect of Verb Second can be factored out) a German word order in which the variable precedes the value is derived by scrambling the variable across the value, with the latter occupying the structural subject position and controlling agreement with the copula, and that Dutch cannot derive the variable-value word order this way because of the fact that scrambling past the structural subject is impossible in this language. But this will do little to explain the categoricity of copular agreement with the value in German: the availability of scrambling should only make the tendency for the value to agree with the copula relatively stronger in German than in Dutch (where such scrambling is unavailable); it should not make such agreement categorical. Whatever the strategy that Dutch employs to produce a variable-value word order in subordinate clauses (which, apparently, gives rise to less rigorous phi-feature agreement behavior), it ought to be available in German as well, which should make phi-feature agreement variable in German, too (though to a lesser extent than in Dutch). This is not what is found. More problematically, as Heycock herself notes, Dutch does in fact allow scrambling past the subject in cases that Neeleman (1994) refers to as ‘focus scrambling’ — cases characterized by the fact that the subject that follows the scrambled constituent is focused (Ik denk dat zulke boeken zelfs JAN niet zou lezen ‘I think that such books even Jan would not read’). Focus scrambling seems to have precisely the right structural description to make it eminently applicable in inverse specificational copular sentences: the initial constituent harboring the variable is topical, and linearly precedes the focal constituent supplying the value for this variable. So if scrambling of the predicate nominal past the subject were the way the agreement behavior of German inverse specificational copular sentences comes about, one would expect Dutch to behave the same way as German, quod non. It seems to me unlikely, therefore, that scrambling is involved in the derivation of the variable-value order in Continental West-Germanic. With the possible role of scrambling thus disabled, what explains the apparent difference between German and Dutch native speakers’ judgments regarding phi-feature agreement in inverse specificational copular sentences remains unclear.

Turning now to (iv.c), as Akmajian (1979:169) points out, of the examples in (106) (repeated below) only the a–sentence has a specificational reading; the other two are unambiguously predicational. In concert with this observation, Akmajian also shows that of these three examples only the a–example is reversible (see (115); cf. property (ii)).

(106) a. What you are holding in your hand is a small brown butterfly. [pred/spec]
b. What you are holding in your hand was a small brown butterfly. [predicational]
c. What you are holding in your hand will be a small brown butterfly. [predicational]

(115) a. A small brown butterfly is what you are holding in your hand.
b. *A small brown butterfly was what you are holding in your hand.
c. *A small brown butterfly will be what you are holding in your hand.30

29 In this context, it is relevant to note that Mikkelsen (2005) shows in detail that topicalization is not the way the variable-value order of inverse specificational copular sentences is derived: topicalization of the predicate is possible but behaves markedly differently from the operation that derives inverse specificational copular sentences. We will address this in section 4.2.

30 In Akmajian (1979:169), the asterisk on (115c) has inadvertently been omitted.
Akmajian (1979:169–70) observes that ‘while the phenomenon illustrated by the sentences of [(106)] has been viewed in terms of tense agreement, it is in fact part of a deeper phenomenon’, characterizable as ‘temporal congruence’ or (using a more commonly used locution) ‘tense concord’: it rears its head also in non-cleft specificational copular sentences of the type in (116), conditioned by the adjective old in the pre-copular NP.  

(116)  

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<tbody>
<tr>
<td>a.</td>
<td>His old job was building radars at Lincoln Labs.</td>
<td></td>
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<tr>
<td>b.</td>
<td>*His old job is building radars at Lincoln Labs.</td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>*His old job will be building radars at Lincoln Labs.</td>
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This once again confirms the intimate connection between specificational pseudoclefts and specificational copular sentences in general.

While the preceding examples suggest that tense agreement/concord is obligatory in specificational pseudoclefts, we should note that Declerck (1988:81–82) points out that tense in specificational pseudoclefts is ‘determined by two different and independent systems’: (i) ‘the tense depends on the relation between the chosen deictic centre and the time implied by the variable NP’, or (ii) ‘the tense of the copula is neutralized’ (with the copula systematically occurring in the present tense). We have come across examples illustrating (i) in the foregoing; examples of the second type are given in (117) (from Declerck 1988:82), which are grammatical only ‘if there is “present tense relevance”, i.e., if the past act of specification is still felt to be relevant’ (p. 83).

(117)  

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<tr>
<td>a.</td>
<td>The reason he did it is that he is a coward.</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>What he would not say is when it will happen.</td>
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We note also that there may be an effect of word order on the temporal concord facts: though this does not seem to have been discussed in detail in the literature, Heggie’s (1988) pairs in (118)–(119) suggest that it is only specificational pseudoclefts with wh<XP order which are subject to strict tense concord restrictions:

(118)  

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<tbody>
<tr>
<td>a.</td>
<td>Where John met Mary was in the park.</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>In the park is where John met Mary.</td>
<td></td>
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</table>

(119)  

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<tbody>
<tr>
<td>a.</td>
<td>Who I gave the book to was John.</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>John is who I gave the book to.</td>
<td></td>
</tr>
</tbody>
</table>

Under the rubric of temporal agreement/concord, we may also draw attention to a number of restrictions on specificational sentences in general, and specificational pseudoclefts in particular, when it comes to tense. The reader familiar with Higgins (1979) may have assumed that Akmajian’s examples reproduced here as (106c) and (115c) are ungrammatical (as specificational pseudoclefts) regardless of tense agreement/concord — after all, Higgins (1979:310) claims that the tense of the copula in specificational pseudoclefts may only be simple present or past tense (see also Heggie’s 1988:315 statement that ‘sentences like The boss must be Joe Horn are always equative’). Declerck (1988:81) takes issue with Higgins’s claim, however, pointing out that a specificational pseudocleft of the type in (120a) is grammatical. Ross (1999) gives additional examples (cf. (120b–d)) that contradict Higgins’s claim in this domain, and help further emphasize the requirement of temporal concord.  

The a– and b–examples in (116) are taken from Akmajian (1979); (116c) was added here, for completeness’ sake.
facts in (120c,d) are complicated, and will not be dissected in detail here; what (120c) shows particularly clearly, however, is that the concord requirement refers to tense, not aspect (pace (iv.b), above): the perfect in the wh-clause need not be matched in the copular main clause, but the present tense form of has in the wh-clause must be matched by a present tense form in the matrix.

(120) a. The one who will win will be one of us.
   b. What Sandy might have been reading {might have been/might be/*has been} Tolstoy.
   c. What Sandy has been reading {*might have been/*might be/has been/is/*was} Tolstoy.
   d. What could have been happening {could have been/could be/*has been/could have been/has been/is/*was/ is} that she {*has been/ could have been/has been/ was/is} working at home.

Declerck (1988:85) also dismisses Higgins’s (1979:242) statement that used to be can replace be in predicational sentences only (a statement which is apparently correct for sentences like (121)) with reference to the grammatical examples in (122).

(121) (The one who was) the murderer of Tom was/*used to be John.
(122) a. The color that she preferred used to be blue.
   b. The one who did most of the work used to be John.

Declerck (1988:85) concludes that (122) is grammatical since ‘the variable NP is such that different values can be assigned to it at different times’, while such is impossible in (121). Even with this correction to Higgins (1979) in place, though, it remains true that with respect to the restrictions on tense (including used to), all specificational copular sentences behave on a par and are to be distinguished from their predicational counterparts.

(v) Pronominalization (see (123)–(125); cf. esp. Mikkelsen 2005:chapter 5 and Heycock 2012 for discussion) In the discussion of property (iv.a), we already looked in some detail at the behavior of pronouns in specificational copular sentences. We will continue the discussion here, with reference to the following kinds of data:

(123) a. The tallest girl in the class is Swedish, isn’t she/*it?
   b. The tallest girl in the class is Molly, isn’t it/ she?
(124) a. (As for) the tallest girl in the class, she/*it is Swedish.
   b. (As for) the tallest girl in the class, it/ she is Molly.
(125) a. What nationality is the tallest girl in the class? — She/*It is Swedish.
   b. Who is the tallest girl in the class? — It/ She is Molly.

In the three environments reviewed in (123)–(125) (tag question formation, left dislocation, and question–answer pairs), pronominalization of the tallest girl in the class, the precopular noun phrase, consistently leads to the referential pronoun she in the a–sentences, which are unambiguously predicational. In the b–sentences, she remains a (marginal) possibility. Mikkelsen (2005) treats the she-versions of the b–examples as equative copular
sentences. A specificational reading for the b–sentences is more natural than an equative one. And it is on the
specificational reading of the b–examples that we get the precopular noun phrase of to pronominalize systemat-
ically as it.32 Mikkelsen points out that this is consistent with a treatment of the precopular noun phrase of a
specificational copular sentence with variable<value word order as a predicate;33 it is much harder to reconcile
with an analysis that treats this noun phrase as a referential expression.

Mikkelsen (2005:77, fn. 13) herself brings up as a challenge for this claim Rothstein’s (2001:257) obser-
vation that the precopular noun phrase in (126a) does not support a non-restrictive which-relative, whereas the
postcopular predicate in (126b) does. But though Mikkelsen presents this as ‘very puzzling’ for her analysis
(according to which the precopular noun phrase in (126a) is a raised predicate nominal, as in Moro 1997 and Den
Dikken 2006a), what is at least consistent with such an analysis is that in (126a) non-restrictive who-relativization
is clearly impossible on a specificational reading (*The murder, who is a horrible person, is John, isn’t it?),
and relatively worse than which-relativization; and in Mikkelsen’s own example in (123b), relativization of
the tallest girl in the class with which seems fine (The tallest girl in the class, which is a terrible thing to be, is Molly,
aren’t it?), so Rothstein’s (126a) may be an outlier. (We will not speculate here on what might be the root of the
problem with (126a). This problem is indeed puzzling, but it does not jeopardize, it seems, an approach to the
precopular constituent of a variable<value specificational copular sentence that treats it as a raised predicate.)

(126)  a. *The murderer, which is a horrible thing to be, is John.
   b. John is the murderer, which is a horrible thing to be.

More seriously problematic for the idea that the precopular variable in inverse specificational copular
sentences is a predicate nominal is the fact (pointed out in Heycock 2012:228) that, when the precopular nominal
is a plural, it cannot pronominalize as it; plural predicate nominals, on the other hand, do pronominalize as singular it:

(127)  a. Her greatest friends are Justin and Sarah, {isn’t it/*aren’t it/aren’t they}?
   b. Justin and Sarah are her greatest friends, even if they don’t look {it/*them}.
   c. John guessed the winners before I guessed {them/*it}.

Heycock (2012:section 4), rather than treating the initial constituent representing the variable as a predicate
nominal, suggests analyzing it as a concealed question, following Romero (2005). She notes that such an analysis
can make sense of the pronominalization facts: plural concealed questions are pronominalized by a plural
pronoun, as shown in (127c). We will return to the concealed question analysis of specificational copular
sentences in section 5, and to the vicissitudes of an analysis of the precopular variable as a predicate nominal in
section 4.1, below.

Under the rubric of pronominalization, we will also look briefly at a pattern that is particularly interesting
in that it informs at the same time the status of the precopular noun phrase and that of the postcopular noun phrase
in variable<value specificational copular sentences. The pattern, illustrated in (128) and (129), is once again due
to Mikkelsen (2005), this time from her chapter 6 (p. 98). The data are from Danish.

32 Alongside it, the distal demonstrative that is usually an option in specificational copular sentences as well. We will not
illustrate this here. We point out in passing that the facts for Danish (which Mikkelsen presents as well) are fully in line with those
for English. Some illustration for Danish is provided in (128)–(129). Mikkelsen also notes that the emergence of it/that in the
b–sentences in (123)–(125) cannot in general be treated under the rubric of a truncated it-cleft.

33 For Mikkelsen, specificational copular sentences always have a variable<value order, so the ‘with variable<value word
order’ portion of the main-text statement is redundant for her. But recall the discussion in section 1.1, above, on word order.
Marcel den Dikken — Specificational copular sentences and pseudoclefts

(128) a. Vinderen er nok en svensker, er det ikke?
winner.DEF is probably a Swede is it not?
b. Vinderen er nok svensker, er hun/*det ikke?
winner.DEF is probably a Swede is she/it not

(129) a. Den nye kasserer er nok en læge, er det ikke?
the new treasurer is probably a doctor is it not?
b. Den nye kasserer er nok læge, er hun/*det ikke?
the new treasurer is probably a doctor is she/it not

The data here reveal two things in tandem. First of all, they confirm the picture emerging from English (123)–(125), viz., that pronominalization of the precopular noun phrase in a variable-value specificational copular sentence leads to (the equivalent of) it. And secondly, they also show that when the postcopular noun phrase is bare (i.e., article-less), we can only be dealing with a predicational copular sentence: though vinderen and den nye kasserer can in principle be pronominalized with det, as in the a–sentences, such becomes impossible when the postcopular noun phrase is bare. This follows from the fact that bare noun phrases in Germanic are only construable as predicate nominals: because svensker and læge in (128/9b) are bare, they must be predicates; that means that vinderen and den nye kasserer must be arguments here, which renders them ineligible as antecedents of the pronoun det.34

So far in this discussion of pronominalization, we have looked only at double-NP specificational copular sentences. How do specificational pseudoclefts behave in this context? In addressing this question, we will confine ourselves to the behavior of pronominalization in tag questions (cf. (123)), where we find both confirmation of the parallel between specificational pseudoclefts and double-NP specificational sentences and, into the bargain, a peculiar property that is unique to the former.

Let us begin with the parallel. Just as in (123), in unambiguously specificational pseudoclefts the choice of pronoun in the tag question is determined by the variable — here, the wh-clause (as in (130a,b); cf. (103a) and (108a)) or, in th-clefts, the noun phrase headed by the one (as in (130c)):

(130) a. What you have bought is fake jewels, isn’t it/*aren’t they?
b. What I need is more books, isn’t it/*aren’t they?
c. The one they want to hire is John, isn’t it/*he?

This again suggests that the constituent representing the variable is a predicate, not a referential expression.

34 If (as seems highly likely) the data canvassed under section (v) strongly underpin the conclusion that the precopular noun phrase of a variable-value specificational copular sentence is predicative, the distribution of bare noun phrases in Germanic makes one further prediction: it should in principle be possible in variable-value specificational copular constructions for the noun phrase in the structural subject position to be article-less. This prediction is borne out — and we present it here (as in (ib), from Birner 1996:44), even though it is strictly speaking out of place in a subsection on pronominalization restrictions.

(i) a. Miss Alabama was second runner-up.
b. Second runner-up was Miss Alabama.
But Higgins (1979:Chapter 6, exx. (85)/(87)) and Bošković (1997:272) note a property that makes specificational pseudoclefts rather peculiar when it comes to pronominalization in tag questions. While in predicational pseudoclefts the choice of pronoun and verb in a tag question is determined wholly at the root level (a copular sentence with a free relative subject, resulting in *is* and *it*; see (132)), in specificational pseudoclefts (at least the ones with *wh-*XP word order; we are not familiar with facts of this nature reported for XP<*wh* pseudoclefts) such is entirely impossible (see (131a)). Instead, the tag may marginally skip the copular root clause altogether and relate itself to the clause contained in the *wh*-constituent, as in (131b).

(131) a. *What John is is proud, isn’t it?* [specificational]
b. ?What John is is proud, isn’t he?
(132) a. What John is is lucrative, isn’t it? [predicational]
b. *What John is is lucrative, isn’t he?*

Sentences of the type in (131b) are certainly not brilliant (Bošković actually assigns (131b) two question marks), but they are attested in spontaneous speech — Geluykens (1984) found (133) in a corpus of spoken English (from the Survey of English Usage):

(133) What you’re meaning, Joey, is what caused the bolus, aren’t you?

(vi) Extraction restrictions (see (134)–(135); cf. practically all of the literature on specificational sentences — in particular, Heggie 1988, Moro 1997, Heycock & Kroch 1999). This is another important property covering the entire spectrum of specificational sentences.

(134) a. I believe that the cause of the riot was a picture of the wall.
b. *Which picture do you believe that the cause of the riot was ec?*
c. *Which wall do you believe that the cause of the riot a picture of ec?*
d. *Which riot do you believe that the cause of ec was a picture of the wall?*
e. *The cause of which riot do you believe ec was a picture of the wall?*
(135) a. I believe that what caused the riot was a picture of the wall.
b. *Which picture do you believe that what caused the riot was ec?*
c. *Which wall do you believe that what caused the riot was a picture of ec?*
d. *Which riot do you believe that what caused ec was a picture of the wall?*

Grosu (1972) presents the opacity of the post-copular ‘value’ constituent of specificational pseudoclefts as an argument for the so-called extraction analysis of these constructions (see section 6.2, below); however, the fact (which he notes himself) that specificational copular sentences generally have this property makes it highly unlikely that the extraction restrictions in (135) constitute an argument for an analysis of specificational pseudoclefts that derives them from their corresponding simple clause counterparts (or vice versa; on the latter, see Bošković 1997, and the discussion in section 6.4.1). What is needed is an account of the data in (134) and (135) which generalizes over all specificational copular sentences and sets them apart from predicational copular sentences (which do allow extraction from and of the post-copular constituent; cf. (136)): 
(136)  a. I believe that the cause of the riot was a big surprise to us all.
    b. How big a surprise do you believe the cause of the riot was \textit{ec}?  
    c. Who do you believe that the cause of the riot was the biggest surprise to \textit{ec}?
    d. *What do you believe that the cause of \textit{ec} was a big surprise to us all?

The above five traits of specificational copular sentences (including specificational pseudoclefts) are the most important syntactic distinctive features of these constructions (on interpretive hallmarks of these constructions, see section 3.2.2, below). In addition to these, we may mention a number of somewhat more microscopic ways in which predicational and specificational copular sentences differ.


(137)  a. What John is \textit{isn’t} important to him. \hspace{1cm} \textit{[predicational]}
    b. *What John is \textit{isn’t} important to himself. \hspace{1cm} \textit{[specificational]}
    c. *Smith’s murderer \textit{isn’t} John.

Higgins (1976:321) points out for English that ‘the copula in a Specificational pseudo-cleft cannot have a “straight” negation of the predicate, but at best only some kind of contradiction negation’ — that is, (137b), while bad in isolation, could be salvaged by contrasting \textit{important to himself} with some other value of the variable in the \textit{wh}-clause (cf. \textit{What you need is not a doctor but a wife}; see also Ross’s 2000 \textit{Though what I like is not pizza, what he likes is}, which is likewise contrastive, though not with respect to the value). Declerck (1988:166) broadens the scope of Higgins’s observation to include specificational copular sentences in general: see (137c), which likewise is good only on a ‘contradiction reading’.\textsuperscript{35} The stars in (137) should be handled with care, therefore: the strings as they stand are not ungrammatical, but they require a specific interpretation for the negation.

On that same interpretation, negation is also grammatical in Danish specificational copular sentences with variable-value order, with the negation (\textit{ikke}) placed to the immediate left of the value, as in (138a). But interestingly, as Jespersen (1924:153, fn. 2) already pointed out, negation can also be inserted to the right of the value, as in (138b). The same variable placement is observed in Dutch, another Verb Second language (see (139)). And for both languages, it is only in the a–sentences that we are necessarily dealing with contradiction negation, as in English (137b,c).

(138)  a. Den højeste spiller på holdet er \textit{ikke} Minna. \hspace{1cm} \textit{[specificational]}
        the tallest player on team.DEF is \textit{not} Minna
    b. Den højeste spiller på holdet er Minna \textit{ikke}. \hspace{1cm} \textit{[predicational]}
        the tallest player on team.DEF is Minna \textit{not}

\textsuperscript{35} On restrictions on adverbial modification other than negation, see (xxi), below; this is a domain in which the facts are substantially less clear, and where, moreover, specificational pseudoclefts diverge from other specificational copular sentences.
(138)  a. De langste speler is niet Minna (maar Hanna). [specificational]

the tallest player is not Minna but Hanna

b. De langste speler is Minna niet. [predicational]

the tallest player is Minna not

It would be a mistake to conclude from the data in (138) and (139) that the placement of negation in specificational copular sentences with a variable-value order is flexible. Rather, the correct generalization is that in the specificational versions of these examples, the negation immediately precedes the value (and is obligatorily read contrastively); when negation follows the value, what we are dealing with is a predicational copular sentence whose predicate has undergone topicalization (with the finite copula raising to second position, and Minna occupying the structural subject position, SpecIP, to the left of sentential negation). See Mikkelsen (2005) for some further discussion.

(viii) Copula contraction (see (140); cf. Kaisse 1979:708–9) This is another domain in which all specificational copular sentences differ en bloc from their predicational pendants:

(140)  a. What I eat’s important to me. [predicational]

b. *What I want’s an avocado. [specificational]

c. *The culprit’s Chuzzlewit.

cf. Chuzzlewit’s the culprit.

As (140) shows, only predicational copular sentences allow the copula to contract onto the pre-copular constituent.

(ix) Degree modification of the postcopular term (cf. (141); Akmajian 1979:164, Heggie 1988) Predicational copular sentences are also singled out by restrictions on degree modification of the postcopular term:

(141)  What John is is somewhat/very/more important to him/*himself (than ...).

For both Akmajian and Heggie, the impossibility of this kind of construction counts as evidence that the postcopular AP in specificational pseudoclefts like this is not a predicate — degree modification is a property limited to predicates.

(x) -ever and quantificational restrictions (Huddleston 1971:242, Heggie 1988, Declerck 1988) A further peculiarity of pseudoclefts which has been made out to be reducible to a property of predicates (predicate nominals, to be more specific) concerns the distribution of -ever and quantificational restrictions:

(142)  Whatever she wrote was a novel. [predicational/*specificational]

(143)  a. *John is every teacher.

b. *Bill’s tie is whatever Mary hates.

36 The examples and judgments here are taken from the sources given; not all speakers seem to agree.
The example in (142), from Bolinger (1971), is unambiguously predicational, whereas its counterpart without -ever is perfectly ambiguous between a predicational and a specificational interpretation.\footnote{Dayal (1997) presents the grammaticality of Whatever she bought was not Barriers to refute the claim that the wh-clause of specificational pseudoclefts does not allow -ever. Her example does not seem to instantiate a specificational pseudocleft, however: (i) it features (non-contradictory) sentential negation, which is otherwise impossible in specificational pseudoclefts (recall (137)), (ii) it is irreversible (cf. *Barriers was not whatever she bought), and (iii) it is uniformly deemed unembeddable under ECM–verbs taking to-infinitival complements (cf. *I consider whatever she bought not to be Barriers, to be contrasted with *I consider what John is to be important to himself, which, though judgments vary substantially, is acceptable to at least some speakers; see item (xx) in section 3.4, below.)} 

Heggie links the unavailability of a specificational reading for (142) and the ungrammaticaticality of her (143b) to a general restriction on predicate nominals: they resist universal quantification, as is shown by Williams’s (1983) example in (143a). Iatridou & Varlokosta (1998) take essentially the same tack, analysing the ungrammaticality of examples like (143b) by analysing the wh-clause of specificational pseudoclefts as a free relative functioning as a predicate nominal. Heggie and Iatridou & Varlokosta thus construe the facts in (142) and (143) as an argument for an analysis of the wh-clause of specificational pseudoclefts as an underlying predicate.

Their point is not well taken, however. For in specificational sentences both major constituents are in fact subject to quantificational restrictions — not just the wh-clause (as the -ever facts show) but the value as well (cf. Gundel 1977, Seuren 1985:297, Declerck 1988:87–88, Moro 1997, Heycock & Kroch 1999); cf. also Blom & Daalder’s 1977:24–25 discussion of (74), above), as (144) and (145) show.\footnote{See Seuren (1985:297) for the observation that the same quantificational restrictions hold of in situ foci: Henry sold (*FEW) POSTCARDS; and see Declerck (1988:87–88) for contexts in which these restrictions on specificational sentences can be alleviated.}

(144) What Henry sold was 
   a. a postcard 
   b. a few postcards 
   c. *few postcards postcards 
   d. *many postcards 
   e. *most postcards 
   f. *every postcard 

(145) The problem/cause of the riot was 
   a. English hooligans 
   b. a few English hooligans 
   c. *few English hooligans 
   d. *many English hooligans 
   e. *most English hooligans 
   f. *every English hooligan
If Heggie’s and Iatridou & Varlokosta’s interpretation of (143) were correct, the facts in (144)–(145) would imply (in combination with their conclusion based on (143)) that specificational copular sentences have two predicative constituents — and that would not make any sense. We therefore refrain from drawing hasty conclusions concerning predicativity on the basis of quantificational restrictions of the type just illustrated.

3.2.2 Interpreting properties

Two interpretive properties of specificational constructions, closely related to one another, are worth drawing special attention to in a separate subsection — information structure (xi) and exhaustivity (xii).

(xi) Information structure

There is a strong tendency for the value–XP of a specificational sentence to be the focus of the construction, and to convey new information. Blom & Daalder (1977) effectively use this fact as the key distinguisher between specificational and predicational copular sentences. The following definitions have been adapted from Blom & Daalder’s work (‘value–XP’ replaces their ‘hyponym’; see (27), section 1.4):

(146) a. In a specificational copular sentence, the focused element is contained in the value–XP.

b. In a predicational copular sentence, the focused element is not contained in the value–XP.

To illustrate, in a specificational pseudocleft such as (147), the information structure (or theme–rheme structure) of the sentence is partitioned in such a way that the wh-clause expresses old information (‘topic’, ‘theme’) while the value, which specifies the variable in the wh-clause, supplies new information (‘focus’, ‘rheme’). Concomitantly, the value–XP in examples of this sort receives focal stress.

(147) What John bought was a BOOK.

However, while there is indeed a strong tendency for the variable to merely express old information and for all the new information to be packaged into the value, one cannot strictly correlate the variable/value (or identified/identifier) dichotomy with the new/given information split, as Halliday (1967:226) already pointed out. As Collins (1991:82–83) puts it, ‘[t]he two are independenly variable; the association of new information with the highlighted element may be overriden by marked focus’. An example of such an override is Collins’s (148):

(148) a. Tom offered Sue a sherry.

b. No, the one who POURED the sherry was Tom.39

Although, therefore, ‘in the majority of basic pseudo-clefts the relative clause/theme [i.e., variable] contains (at least some) new information ... there are several factors which work together to attenuate the newness of the item or items so marked intonationally’ (Collins 1991:119).

Declerck (1998:13) makes a more general point of the same general nature, observing that there are essentially four ways of focusing in specificational sentences:

• focus can be on the value as a whole (the ‘standard’ case)
• focus can be on a subpart of the value
• focus can be on the entire pseudocleft (in which case information in the wh-clause is also new; cf. Erades 1962, Prince 1978)
• focus can be on two value parts, one of which appears in the wh-clause (cf. (149), adapted from Declerck’s it-cleft example)

39 Collins capitalizes both poured and Tom, but this reflects an intonation contour which seems rather awkward for (148b).
We refer the reader to Collins (1991:133, 145) for lucid summaries of the information-structural properties of pseudoclefts with \( \text{wh}<\text{XP} \) and \( \text{XP}<\text{wh} \) orders.

Birner (1994, 1996) has done important work on the pragmatics and information structure of ‘inversion structures’ (structures in which, as Birner 1996:12 puts it, the logical subject appears in postverbal position while some constituent that is canonically placed postverbally surfaces in preverbal position), including specificational copular sentences with variable<value order. Birner’s corpus-based work shows clearly that in the overwhelming majority of inversion cases, the constituent in preverbal position is discourse-old while the postverbal element is discourse-new — thus, she postulates as a pragmatic constraint on inversion that ‘the preposed element in an inversion must not be newer in the discourse than the postposed element’ (Birner 1996:90). Mikkelsen (2005: chapter 8) follows up on Birner’s study of inversion structures by looking at a (modest-scale and not obviously representative) sample of inversions involving a predicate nominal in precopular position (i.e., double-NP specificational copular sentences with variable<value order), and finds that a slightly stricter constraint is imposed on these constructions: the precopular predicate nominal must be at least as discourse-old as the postcopular element, and it cannot be entirely discourse-new (Mikkelsen 2005:152). She speculates that the difference between variable<value double-NP specificational copular sentences and other inversion structures (including cases involving an AP, PP or adverbial element in preverbal position) might lie in the nature of the position occupied by the preverbal constituent: the structural subject position in the former case, and some A’-position in the latter.

(xii) **Exhaustivity**

Exhaustivity (or exclusivity or uniqueness, as it has also been called) is another interpretive property of specificational copular sentences, closely related to the information structural properties of these constructions. It is an implicature (cancelable by ‘particularizers’ like *not only, mainly, especially, primarily*), not overly robust at that — as Collins (1991:32) points out, ‘the types of sentences one may construct to test the exclusiveness implicature elicit variable responses when submitted to the judgment of native speakers’: examples of the type in (150c,d), while ‘rejected by many’ once the parenthesized material is included, apparently are not deemed as awkward as the relevant variants of (150b,e,f).

(150) a. The car needs a new battery (amongst other things/and it needs a new alternator too).
   
b. The car only needs a new battery (*amongst other things/and it needs a new alternator too).
   
c. It is a new battery that the car needs (*amongst other things/and it needs a new alternator too).
   
d. What/the thing the car needs is a new battery (*amongst other things/and it needs a new alternator too).
   
e. All/the only thing the car needs is a new battery (*amongst other things/and it needs a new alternator too).
   
f. It is only a new battery that the car needs (*amongst other things/and it needs a new alternator too).

Still, the fact that many speakers do indeed reject (150c,d) with the parenthesized material included ‘can only be attributable to the exclusiveness implicature associated with cleft and pseudo-cleft constructions’ (Collins 1991:33).
Reeve (2012), in a study that focuses on *it*-clefts, forges an explicit connection between the focality and exhaustivity of the value of the cleft and that of the associate of the focus particle *only*, arguing for an analytical link between *it*-clefts and the rarely discussed 'only-relative' construction illustrated by a sentence like *I only saw John that I like*. Reeve seeks to generalize over *it*-clefts and association-to-focus constructions involving *only* by mobilizing a syntactic functional head, ‘Eq’, present in the structure of specificational and equative sentences. The head Eq must by hypothesis associate with a focus, and that focus must be in the c-command domain of Eq. Reeve also links to Eq and its association with focus under c-command the fact that focus cannot project upward from the focused constituent in *only*-constructions and clefts — or, for that matter, in inverse specificational copular sentences more generally (on the ban on focus projection in inverse specificational sentences, see Den Dikken 2006a:82–83).

The interpretive effect of exhaustiveness common to these constructions is sometimes stronger than a mere an implicature: there are cases in which it is an entailment of the singularity and definiteness of the variable. In such cases, adding *only* to the focus will block the specificational reading (Declerck 1988:32): (151b) can only receive a predicational reading (‘Smith’s murderer is not someone with whom I have close relations’).41

(151) a. The one who murdered Smith is my neighbor. [ambiguous]
   b. The one who murdered Smith is *only* my neighbor. [predicational only]

In a similar vein, Seuren (1985) points out that there are contexts in which the interpretive difference between (pseudo)cleft sentences and their simple counterparts is not merely pragmatic but in fact truth-conditional (cf. (152), (153)): ‘if in a situation where nobody laughed [(152a)] is uttered it will simply be (minimally) false and its negation [(152b)] will be true, but if [(153a)] is uttered it will be (radically) false and its negation [(153b)] will still fail to be true’.42

40 Heycock (2012:217–18) calls the necessity of narrow focus in inverse specificational copular sentences into question, with reference to the grammaticality of (ib) alongside (ia): only in the former is the focus narrowly confined to the postcopular value. This does not, however, disprove Den Dikken’s claim that there is no focus projection in inverse specificational copular sentences: (ib) it is not in any obvious sense an instance of focus projection; the associate of the focus particle *only* is the entire *because*-clause, within which there is a second focus, *John*. Note in this connection that the focus inside the *because*-clause can be marked by *only* in its own right, as in (ic).

(i) a. I wasn’t disappointed because there was a director, but only because the director was John.
   b. I wasn’t disappointed because the company got off the ground, but only because the director was John.
   c. I wasn’t disappointed because the company got off the ground, but only because the board was only a single person.

Reeve (2012:206–7) notes that French clefts do allow focus projection, something he tentatively relates to the availability of pseudorelatives (*J’ai vu Marie qui courait à toute vitesse* ‘I saw Marie running at full speed’). We note here that while relating the focus and exhaustivity interpretation of *it*-clefts, association-to-focus, and inverse specificational copular sentences to one and the same structural factor is certainly a very good thing, doing so by pinning it down on the otherwise ill-motivated functional head ‘Eq’ is perhaps not the optimal way of achieving the desired result.

41 The text discussion reproduces Declerck (1988:32), where the definiteness and singularity of the variable is capitalized on. Notice that adding *only* to the examples in (154), below, which do not have definite singular variables, is equally bad with the word order given there (*An example of this kind is only World War II*); but when reversed, (154) does allow the addition of *only* to the ‘value’ (cf. *Only World War II is an example of this kind*). Here is where a difference between (151) and (154) continues to manifest itself: *Only my neighbour is the one who murdered Smith* is impossible.

42 Note, however, that Seuren’s (153b) is a marked construction: as Higgins (1979:321) points out, root negation in specificational pseudoclefts triggers a ‘contradiction negation’ reading; it is this which may be responsible for the truth-conditional effect noted by Seuren with reference to negated pseudoclefts. See item (vii), example (137), above.
(152)  
a. Harry laughed.
b. Harry didn’t laugh.

(153)  
a. The one who laughed was Harry.
b. The one who laughed wasn’t Harry.

The exhaustiveness implicature common to inverse specificational copular sentences is a sufficient but not a necessary condition for specificationality — that is, any copular construction that has an exhaustiveness implicature is specificational; but not every specificational copular sentence necessarily has this exhaustiveness implicature. As Declerck (1988) points out, this implicature ‘can only arise if the variable is uniquely defined’ (i.e., if the variable is definite, which it is when it is a definite noun phrase or the wh-clause of a specificational pseudocleft). As a consequence, in cases in which the variable happens not to be ‘uniquely defined’, no uniqueness/exhaustiveness implicature presents itself (see Declerck’s examples on p. 31, reproduced here):

(154)  
a. An example of this kind is World War II.
b. Typical instances of this are Julius Caesar and Napoleon.
c. Something that I don’t understand is how the thief managed to get in.

Inverse specificational copular sentences of the type in (154) are unusual in that they involve an indefinite noun phrase in precopular position. Indefinites are sometimes claimed categorically to be impossible in precopular position in inverse specificational copular sentences (Higgins 1979:223–4, Heycock & Kroch 1999:379). Birner (1996:99–102) finds that only in about 10% of all cases of inversion constructions with a noun phrase in initial position is this noun phrase indefinite. She argues that ‘there is a strong tendency for the initial element to be definite, because the initial element in the inversion tends to be discourse-old, and any element which is discourse-old is necessarily hearer-old, and hence definite’ (Birner 1996:101). Capitalizing on Birner’s line of thought, and on her own finding (see (xi), above) that the precopular noun phrase in double-NP specificational copular sentences with variable-value order cannot be entirely discourse-new, Mikkelsen (2005:§§3.4) provides an account for the rarity of cases like (154), and makes some sense of the contrast between (155a) (where a doctor is entirely discourse-new) and (155b) (where it is not).

(155)  
a. *A doctor is John.
b. Bill is a doctor. Another doctor is John.
c. Bill is a doctor. *A doctor is John (too).

As Mikkelsen (p. 159) notes herself, however, the requirement that the precopular constituent of an inverse specificational copular sentence not be entirely discourse-new fails to rule out the infelicity of (155c) (pointed out to her by Donka Farkas), where the sentence-initial token of a doctor is plainly discourse-old.

3.3 Properties peculiar to specificational pseudoclefts

Now that we have essentially covered the list of syntactic and interpretive properties which unite all specificational copular sentences and set them apart from their predicational congers, let us make a list of a number of characteristics peculiar to specificational pseudoclefts.

(156)  a. The way he spoke to me was flatteringly. [specificational]
   b. The way he spoke to me was flattering. [predicational]

(157)  The best way to categorize them in fact is historically. (Geluykens 1984)

(158)  a. When/the day they’re coming for the box is Friday. (Hankamer 1974)
   b. When she waters them is weekends.

Given that (156a) and (157)–(158) (the latter due to Hankamer 1974; these are good in certain dialects only) are unambiguously specificational, one expects (cf. property (ii), above) that this kind of pseudocleft should be reversible — and indeed, grammatical and somewhat marginal cases of this kind have been reported in the literature (cf. (159a), due to Radford 1981, and (159b,c), from Heggie 1988:371). As Heggie points out, ‘it appears that to the extent that an adverb may be easily predicated of a human subject (i.e., PRO), the sentence is grammatical’ (while ‘[t]hose adverbs which must be predicated of a clause are completely ungrammatical’; cf. *Apparently is how John left early).

(159)  a. A little too casually seems to have been how he addressed the judge.
   b. *Very quickly seems to be how she ran the race.
   c. *Very reluctantly is how we all left.


(160)  a. *With whom he goes to the cinema is with Mary/important to himself. [specificational]
   b. *With whom he goes to the cinema is important to him. [predicational]

In English it is generally impossible to perform PP pied piping in a specificational pseudocleft (though pied piping is possible in predicational pseudoclefs, to the same extent that PP pied piping is ever felicitous in English). Notice, however, that Heggie (1988:360–63) has found that pied piping of a dative or of–PP does not seem impossible in specificational pseudoclefs: the examples in (161) and (162) are ‘simply awkward’, not ungrammatical, according to her. She notes in this connection that to whom can also (marginally) license an NP parasitic gap (as in (163)), which suggests that the PPs in (161) and (162) can exhibit ‘NP–like’ behavior. If so, (161) and (162) are not genuine exceptions to the general that English specificational pseudoclefs disallow PP pied piping.

(161)  a. *To whom I gave the book was John.
   b. *John is to whom I gave the book.

(162)  a. *Of what Mary was convinced was that Bill would succeed.
   b. *That Bill would succeed is of what Mary was convinced.
a. ?A person to whom I sent a report without notifying pg.
b. ?A person to whom I spoke without kneeling in front of pg.
c. ?to whom did John speak without being able to see pg?

Languages differ on this point, however: Higgins (1979:41) notes Spanish examples of specificational pseudoclefts with PP pied piping (due to Jespersen 1969:78–79) which are grammatical (see (164)):

(164) a. De un rey es de quién hablamos. 43
of a king is of whom we speak
b. Con quién hablaba es contigo.
with whom I/he was talking is with you

Similarly, Den Dikken et al. (2000:72) report that Dutch and German allow PP pied piping in specificational pseudoclefts; but see Blom & Daalder (1977:9) for an example of PP pied piping in Dutch which they judge to be unacceptable (?*Waar Jan op wacht is op de uitslag ‘what Jan is waiting for is for the result’; to our ear, this example does not sound particularly bad). See also section 5.2, below.


(165) a. Where John is going to is a nice place. [pred/spec]
b. Where John is going is a nice place. [predicational]

Higgins claims that not realizing the preposition to delivers an exclusively predicational interpretation of the pseudocleft in (165). It is unclear what should explain this fact 44 — especially from the perspective of the parallels between the wh-clause of specificational pseudoclefts and wh-questions in question–answer pairs, one might have expected non-realization of to to be perfectly compatible with a specificational interpretation of the pseudocleft: the question Where is John going (to)? is perfect both with and without to.

(xvi) Tag questions revisited (Higgins 1979:Chapter 6, exx. (85)/(87); Bošković 1997:272) — recall (131)–(133), repeated here:

(131) a. *What John is is proud, isn’t it? [specificational]
b. ?What John is is proud, isn’t he?

43 One might question the status of these Spanish examples as genuine pseudoclefts. An alternative analysis of them as cleft sentences (with a null counterpart of it; Spanish is a pro-drop language) is readily conceivable; cf. Higgins’s translations in terms of it-clefts.

44 If indeed it is a fact — the specificational reading, while perhaps dispreferred, does seem to be available for (165b); cf. Where John is going is that city over there, which seems acceptable, features P–drop, but cannot be predicational.
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(132) a. What John is is lucrative, isn’t it? [predicational]
b. *What John is is lucrative, isn’t he?

(133) What you’re meaning, Joey, is what caused the bolus, aren’t you?

In (v), above, we already pointed out that in specificational pseudoclefts the tag picks its pronoun based on the properties of the subject of the wh-clause (see (131b), and the attested example in (133)), and is entirely unable to have the wh-clause as a whole determine pronoun choice (see (131a)), in stark contrast to what is found in predicational constructions (cf. (132)). Here we add to this picture that the selection of the verb and the polarity of the tag likewise peeks into the wh-clause of the specificational pseudocleft:

(166) a. *What John wrote is a poem about himself, didn’t he?
b. *What nobody brought was any wine, did they?

The following are two restrictions on the wh-clause constituent of pseudoclefts.


(167) a. He is tall. [predicational]
b. He is the man who robbed the bank yesterday. [specificational]

(168) a. What he is is tall.
b. *What he is is the man who robbed the bank yesterday.

In a wh-cleft whose wh-clause has the form what X is, the value–XP must correspond to the predicate of the copular wh-clause: specificational copular sentences such as (168a) do not serve as input to specificational pseudoclefts whose wh-clause has a postcopular gap, as the ungrammaticality of (168b), due to Akmajian 1979:165, shows.

This is clearly not a case of matching across the matrix copula — that is, it is not the case that the gap in the copular wh-clause must be a predicate in order to match the predicativity of the postcopular constituent in the matrix: after all, the latter is not a predicate. This is shown most directly, perhaps, by the fact that though-movement (an operation singling out predicates) fails in specificational pseudoclefts (as Ross 2000 points out):

(169) a. Harmless old duffer though Al was, he won.
b. *Harmless old duffer though what Al was is, he won.
cf. Though what Al was is a harmless old duffer, he won.

While (168a) is grammatical (with tall functioning as a predicate inside the wh-clause), specificational pseudoclefts with a value–AP ‘obtain freely only when the verb of the CP–predicate is the copula’ (Heggie 1988:351) — the examples in (170) and (171) are ungrammatical. Contrast these with the grammatical example in (172) (= (65b); see fn. 20 on speaker variation with respect to the reverse order of (172), irrelevant here).
(170)  
a. *How Mary shook John was awake.
b. *Awake is how Mary shook John.
(171)  
a. *How Tom hammered the nail was flat.
b. *Flat is how Tom hammered the nail.
(172)  
Rather plump is how John likes his women.

The same problems found in (168b) and (170)–(171) rear their heads in question–answer pairs: while the _wh_-questions in (173a–c) are good in isolation, they cannot receive the answers provided on the right. (173d) (corresponding to (172)) once again behaves differently.

(173)  
a. What is he? — *The man who robbed the bank yesterday.
c. How did Tom hammer the nail? — *Flat.
d. How does John like his women? — Rather plump.

This enhances the parallel between specificational pseudoclefts and question–answer pairs (see section 5 for discussion).


(174)  
a. Whatever it was that he got from her was expensive.
b. *What it was that he got from her was expensive.
(175)  
a. Ik weet niet wie (het is die) daar staat.
I know not what it is that there stands
b. Ik doe wat (*het is dat)
de directeur mij opdraagt.
the manager me assigns
c. Wat (*het is dat) hij eet is een banaan.
what it is that he eats is a banana
(176)  
*The thing that it was that was in the car was my hat.

Declerck (1988:73) points out that clefting inside the _wh_-clause of a predicational pseudocleft is possible (as in (174a)), though only if _wh-ever_ is used (cf. (174b)), for reasons unclear. Blom & Daalder (1977) make the converse claim, based in Dutch: clefting inside the _wh_-clause of a specificational pseudocleft is impossible (cf. (175)). Similarly, Akmajian (1979:89, fn. 11) draws attention to the ill-formedness of his (176).
We should point out immediately, however, that the claim that the \textit{wh}-clause of a specificational pseudocleft may not contain a cleft is not uncontroversial. Thus, Faraci (1970) points out that (at least in his variety of English) (177) is grammatical. Akmajian (1979:74), who includes this example in his discussion, adds that ‘for my own speech sentences such as [(177)] are more or less marginal’.

(177) \%What it was that John bought was a car.

(xix) \textit{Combining clefts and pseudoclefts II} (Heggie 1988) A second way in which combining clefting and pseudoclefting is restricted was first noted by Heggie (1988), who draws attention to the paradigm in (178):

(178) a. It’s coconut that is what Mary hates. cf. It’s John that is the teacher.
   b. *It’s what Mary hates that coconut is. *It’s the teacher that John is.
   c. *It’s what Mary hates that is coconut. *It’s the teacher that is John.
   d. *It’s coconut that what Mary hates is. *It’s John that the teacher is.

As the parallelism between the left-hand and right-hand paradigms shows, specificational pseudoclefts behave like double-NP specificational copular sentences in this respect; (178) is strictly speaking out of place in this subsection, therefore, but we included it here for presentational purposes. We will return to this restriction in section 4.1.2, in the discussion of the arguments for a predicational approach to the underlying representation of specificational sentences.

3.4 \textit{Properties peculiar to specificational pseudoclefts with \textit{wh}<\textit{XP} word orders}

So far we have found that specificational pseudoclefts show a superset of the restrictions on specificational copular sentences \textit{per se}. All cases in which specificational pseudoclefts exhibited properties of their own involved peculiarities of their \textit{wh}-clause, not reproducible in double-NP specificational copular sentences for obvious reasons. What we have not found yet is cases in which properties which \textit{are} in principle reproducible throughout the class of specificational constructions are nonetheless specific to pseudoclefts. Such cases do exist, however — and systematically, whenever we find such cases, it is specificational pseudoclefts with a word order in which the \textit{wh}-clause precedes the value–XP which are subject to the constraints in question; their XP<\textit{wh} counterparts are immune to them.


(179) a. *I consider important to \textit{himself} what \textit{John} is. [specificational; XP<\textit{wh}]
   b. *I consider what \textit{John} is important to \textit{himself}. [*specificational; \textit{wh}<\textit{XP}]

The minimal pair in (179) (taken from Den Dikken et al. 2000:86, who refer to Williams 1983) emphasizes the sensitivity to word order of ECM constructions embedding specificational pseudoclefts. In this respect, specificational pseudoclefts are like specificational copular sentences in general: no such construction with variable <value order is ever embeddable under ECM and raising verbs (cf. Moro 1997 for extensive discussion; see also section 4.3.1, below):
(180) a. I consider John the best candidate.
b. *I consider the best candidate John.

Declerck writes in connection with the examples in (181): ‘In a copular sentence in which to be is preceded by seem, the copula can never be deleted on a specificational reading’ (cf. Moro 1997, Den Dikken 2006a); he then goes on to point out that ‘WH-clefts like [(181a,b)] are not ambiguous between a predicational and a specificational reading but can only be interpreted predicationally’.

(181) a. What you are working on seems an interesting subject. [predicational only]
b. What he suggested seemed a difficult thing to do. [predicational only]

The way Declerck presents this observation, one gets the impression that once to be is added to the examples in (181), they will allow a specificational reading — on a par with the grammatical specificational copular sentences in (182). Declerck never makes this explicit; and as a matter of fact, the empirical status of specificational pseudoclefts of the type in (183) (from Higgins 1979), (184) (all from Hankamer 1974), (185a) (from Halvorsen 1978:34) and (185b,c) (from Ross 1999, 2000) is a contentious issue in the literature.

(182) a. The best candidate seems *(to be) John.
b. The cause of the riot seems *(to be) a picture of the wall.

(183) a. What John is tends to be boring. [predicational only]
b. What he is pointing at seems to be a kangaroo. [predicational only]

(184) a. *What he was doing turned out to be washing himself.
b. *What they were doing seems likely to be claimed to be washing each other.
c. *What the little buggers did happens to have been (to) all get in the tub at the same time.
d. *What she never wants to hear again appears to be any more WH Cleft sentences.

(185) a. What John wants seems to be never to be left alone.
b. What he likes seems *(to be) tofu.
c. What Al is seems *(to be) a harmless old duffer.

Most authors seem to agree that specificational pseudoclefts cannot participate in the raising-to-subject construction; but Hankamer (1974:231–32, fn. 6) points out that ‘there are some speakers who do not find all of these sentences [i.e., all of (184)] ungrammatical, particularly the ones involving reflexivization’. Hankamer suggests linking this case of speaker variation to that surrounding (71b), repeated here.

(71) b. What was staring up at John out of his soup was himself.

This suggestion will not cover the entire range of speaker variation, however: no peculiarities of reflexives could be at issue in (the relevant variants of) the examples in (185).
Like raising-to-subject, raising-to-object (or ECM) seems to give rise to variable judgments in the domain of \(wh<XP\) specificational pseudocleft constructions — though, once again, there is no variation on this point when it comes to double-NP inverse specificational copular sentences (see (186)). The examples in (187) are once again due to Hankamer (1974), the one in (188a) to Halvorsen (1978) (as quoted in Declerck 1988:91), and (188b) is from Ross (1999). The scope of Hankamer’s acknowledgment of speaker variation (see above) includes these examples as well. (Blom & Daalder 1977 present grammatical Dutch examples of specificational pseudoclefts with \(wh<XP\) orders embedded under ECM verbs — but these require a special ‘colon intonation’; we address this in section 4.1.2, below.)

(186)  
\begin{align*}
a. & \text{I believe the best candidate *(to be) John.} \\
b. & \text{I believe the cause of the riot *(to be) a picture of the wall.}
\end{align*}

(187)  
\begin{align*}
a. & \*\text{We believe what he likes to do to be (to) kiss monkeys.} \\
b. & \*\text{We believe what he is to be proud.} \\
c. & \*\text{We found what the theory depends on to be how Clefts work.} \\
d. & \*\text{I believe when she waters them to be weekends. (cf. (158))}
\end{align*}

(188)  
\begin{align*}
a. & \text{We believe what John wants to be never to be left alone.} \\
b. & \text{I consider what he likes *(to be) tofu.}
\end{align*}

Whatever the ultimate fate of specificational pseudoclefts in raising-to-subject and ECM constructions, and notwithstanding Declerck’s (1988:91) observation that the acceptability of \(\text{The murderer seems/is unlikely to be JOHN}\) is ‘more doubtful’ than that of their congeners without raising, it seems clear enough that fewer people will gladly accept examples of the type in (185) and (188) than the ones who find the variants of (182) and (186) featuring \textit{to be} acceptable. This, then, is one context in which \(wh<XP\) specificational pseudoclefts differ from inverse copular sentences, fellow instantiators of the class of specificational copular sentences.45

This turns out not to be the only context in which \(wh<XP\) specificational pseudoclefts behave in a special way. There are three further restrictions on \(wh<XP\) specificational pseudoclefts not shared with their reverse or double–NP relatives. We sum them up below, and comment on them briefly.

(xxi)\textit{Restrictions on adverbial modification} (see (189); Higgins 1979:318–20, Declerck 1988, Bošković 1997):

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45 Ross (1999) mentions in the context of (185) and (188) the impossibility copula-drop in absolutive constructions with \(wh<XP\) pseudoclefts (cf. (i), below). Double-NP specificational copular sentences seem to be grammatical with copula-drop in these contexts only on their canonical order (cf. (iii)). This potentially enhances a parallel treatment of \(wh<XP\) specificational pseudoclefts and inverse specificational copular sentences (cf. Heggie 1988).

(i)  
\begin{align*}
a. & \text{With what he likes *(being) tofu, I doubt that he’ll pass.} \\
b. & \*\text{What he likes tofu?}!
\end{align*}

(ii)  
\begin{align*}
a. & \text{With John *(being) the murderer, ...} \\
b. & \text{John the murderer?!!} \\
\end{align*}
(189)  a. *What John is is probably angry with himself.
    b. ??What John is probably is angry with himself.

Higgins was the first to point out that specificational pseudoclefts with *wh*-XP orders permit no adverbial modifier to the right of the copula. (Higgins makes the same point with reference to the adverb also; see Declerck 1988:33–34 for critical discussion.) Bošković (1997:268, fn. 35) adds that placing the adverbial modifier in pre-copular position delivers a ‘slightly better’ result. In this respect, specificational pseudoclefts differ not just from *XP<wh* specificational pseudoclefts (see (190)) but also from double-NP specificational sentences with ‘variable<value’ orders (illustrated in (191)):

(190)  a. Angry with himself is probably what John is.
    b. Angry with himself probably is what John is.

(191)  a. The cause of the riot was probably a picture of the wall.
    b. The cause of the riot probably was a picture of the wall.

The robustness of Higgins’s observations is not crystal clear, however. Thus, Huddleston (1971:341) presents (192a) as an example (culled from a corpus of scientific English) of a specificational pseudocleft; if indeed that is what it is,46 it contradicts (189a). Another such example, taken from a corpus and featuring a *th*-cleft, is (192b) (Geluykens 1984). Similarly, Declerck (1988:91) offers (192c), featuring perhaps in post-copular position, as a perfectly well-formed specificational pseudocleft. Since the facts in the general area of adverbial insertion often tend to be somewhat less than clear-cut, we will not dwell on these data in any further detail here.

(192)  a. What happens at the anode is probably the conversion of chloride ions into hypochlorite and hydrogen ions.
    b. The thing to do is obviously to swing the PhD subject ‘round to something nearer what I’m being paid to do.
    c. What they need is perhaps a hammer.

(xxii) Restrictions on ellipsis (Higgins 1979:305, Williams 1983:249, Heycock & Kroch 1996:32, Ross 1999, 2000, Den Dikken et al. 2000:67–70, Den Dikken 2013) Higgins (1979) has noted that specificational pseudoclefts with a word order in which the *wh*-clause precedes the copula and the constituent specifying the value, it is impossible to gap the copula linking the *wh*-clause to the value constituent — (193b) is ungrammatical. In this respect, constructions of the type in (193) differ strikingly from all other English copular sentences, including specificational pseudoclefts with *XP<wh* orders (194), predicational pseudoclefts (195), and double-NP specificational copular sentences with *variable<value* orders (196).

(193)  a. What Bill is is important to himself, and what Sue is is important to herself.
    b. *What Bill is is important to himself, and what Sue is ___ important to herself.

46 Notice, though, that inserting only in front of the conversion of chloride ions into hypochlorite and hydrogen ions is grammatical. In the light of the discussion under item (xii), above, this would seem to indicate that (192a) is not (necessarily) a specificational pseudocleft.
Important to himself is what Bill is, and important to herself is what Sue is.

What Bill is is important to him, and what Sue is is important to her.

The best candidate is John, and the runner-up is Bill.

The contrast between (193) and (194) shows that the ban on gapping of the root copula in the second conjunct of a specificational pseudocleft is a property peculiar to constructions with the word order \(wh<\text{XP}\). Once the order of the two major constituents is reversed, gapping is perfectly possible (cf. (194b); see Den Dikken et al. 2000:69). (Not surprisingly, gapping continues to be possible once the order in (196) is reversed (as seen in (197)); and since reversibility is not a property of predicational pseudoclefts to begin with, there are no grammatical counterparts to (195) at all in which the \(wh\)-clause follows the AP.)

John is the best candidate, and Bill is the runner-up

Ross (1999) notes that, in the domain of specificational pseudoclefts with \(wh<\text{XP}\) word order, ellipsis (‘VP deletion’ in Ross’s terms: with the copula analysed as a verb raising, when finite, from V to I, the ellipsis in (198) is a case of deletion of the beheaded VP) succeeds marginally when the postcopular constituent is nominal but fails completely when it is clausal:47

47 Related to this case is the one in (ib), also from Ross (1999), involving comparative ellipsis. Ross also mentions the ungrammaticality of subject deletion (*Even if ___ tofu, what he likes is interesting; *Though ___ a drunk, what he was is well-known); this is common to reverse specificational copular sentences as a class (*Though ___ John, the best candidate is intelligent). Den Dikken (2013) addresses the contrast between (iib) and (iib), and (iib), and concludes (basing himself on a predicate inversion analysis of specificational copular sentences with a variable<value order) that predicates marked for ellipsis cannot be inverted with their subjects — something he relates to Den Dikken’s (2006a) rationale for predicate inversion (viz., the need to license the empty head of the predicate: whenever the entire predicate, including its empty head, is marked for ellipsis, the licensing requirement otherwise imposed on the empty head is lifted, and inversion is not triggered, leaving the EPP unsatisfied in (iib)).
b. *What Mary thinks is that Mars is a star, and what Sue thinks is too.

b’. *That Mars is a star is what Mary thinks, and that Venus is a planet is too.

We add that such ellipsis comes out uniformly ungrammatical when specificational pseudoclefts have a XP<wh order (cf. the primed examples in (198)).\(^48\) Note also that ellipsis is grammatical in reverse specificational sentences that are a precopular NP (see (199)):

(199) a. Bill’s biggest desire was popcorn, and Terry’s was too.

a’. *popcorn was Bill’s biggest desire, and fudge was too.

b. Mary’s opinion is that Mars is a star, and Sue’s is too.

b’. *That Mars is a star is Mary’s opinion, and that Venus is a planet is too.

The same grouping of subcases of copular sentences seen in (193)–(199) is attested another area of the grammar in which reference is made to the copular element in the root of the construction:


(200) a. What John is is important to himself.

b. I don’t know whether what John is is important to himself.

c. *Is what John is important to himself?

d. Is important to himself what John is?

(201) a. What John didn’t buy was any wine.

b. ?I don’t know whether what John didn’t buy was any wine.

c. *Was what John didn’t buy any wine?

The examples in (200a) and (201a) are unambiguously instances of specificational pseudoclefts — they exhibit connectivity effects (for reflexive binding and NPI-licensing, resp.). Embedding such pseudoclefts in an embedded yes/no-question with whether is possible; but performing subject–auxiliary inversion in the root question in (200c) and (201c) results in ungrammaticality — with (200c) contrasting markedly with the value<variable case in (200d). (For (201c), no value<variable order is available independently: specificational pseudoclefts with NPI-values are linearly rigid.) In the double-NP specificational copular sentence with variable<value order in (202), by contrast, performing subject–auxiliary inversion has no adverse effect on grammaticality: (202c) is fine.\(^49\)

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\(^48\) The ungrammaticality of the primed examples in (170) and (171) is not surprising in the light of the exhaustiveness reading which characterizes specificational sentences; see item (xi), above.

\(^49\) The status of *Is your best friend John? seems to be somewhat degraded, however (Jacqueline Guéron, p.c.; she suggests that the difference between (202c) and the example just mentioned may have to do with the animacy of the first of the two NPs).
(202)  a. The cause of the riot was a picture of the wall.
    b. I don’t know whether the cause of the riot was a picture of the wall.
    c. Was the cause of the riot a picture of the wall?

We should be careful, however, not to jump to the conclusion that specificational pseudoclefts with variable-value order are systematically resistant to subject–auxiliary inversion. While Hankamer’s (1974) examples in (203a) and (203b) (accompanied by the original judgments) sound degraded, Culicover (1977) presents the minimal variants in (203a’) and (203b’) as well-formed.

(203)  a. *Was what John said that we should all go home?
    a’. Will what John says be that we should all go home?
    b. *Was what Mary did (to) wash herself?
    b’. Will what Mary does be to wash herself?

Hedberg (1993:126), who agrees that there is a relative contrast between (203a) and (203a’) and between (203b) and (203b’), notes that this may be because, in the primed examples more than in the primeless ones, ‘it is easier to imagine a context in which such a question would be relevant’ — in other words, she puts the blame for the relative contrasts in (203) on the pragmatics rather than the syntax. She points out in addition that explicitly contrastive and negative examples are even better:

(204)  a. Is what you’re writing on clefts or pseudoclefts?
    b. Isn’t where he’s going San Francisco?

As in (xxii), it should be noted that the ban on subject–auxiliary inversion (to the extent that it holds) is at least to a certain extent specific to specificational pseudoclefts with variable-value word order. We already saw in (200d) that subject–aux inversion succeeds with important to himself preceding the wh-clause. Similarly, examples of the type in (205a) allow the formation of a root question with subject–auxiliary inversion (cf. Declerck 1988:45, fn. 44):

(205)  a. Boring is something John has always been.
    b. I was wondering whether boring is something John has always been.
    c. Is boring something John has always been?
        (cf. *Is something John has always been boring?)

It should be pointed out in this context, however, that this triplet involves a th-cleft, not a wh-cleft; that this may be important is suggested by Ross’s (1999) observation that (206c) is entirely impossible (and substantially worse than was beans what he ate? or ‘was in Londen where they lived?’). For true wh-clefts, therefore, the category of the value–XP seems to matter when it comes to subject-auxiliary inversion.
(206) a. Afraid of colons is what Jeremy has been for many years.
    b. I was wondering whether afraid of colons is what Jeremy has always been.
    c. *Is afraid of colons what Jeremy has been for many years?

The facts discussed in this subsection are a clear indication that we should be careful to look at the word order of specificational pseudoclefts — while it is generally true that specificational sentences (including specificational pseudoclefts) are reversible (cf. property (ii), above), we should not therefore assume that the properties of specificational pseudoclefts with ‘*wh*-clause be XP’ word order are necessarily identical with those of their counterparts with ‘XP be wh-clause’ order (see section 2.3, above: Den Dikken et al.’s 2000 split between ‘Type A’ and ‘Type B’ specificational pseudoclefts). We will address this issue in more detail in the next section, which takes a closer look at reversibility (property (ii), above). (See also section 5.2 and the beginning of section 5.3 for further divergences of specificational pseudoclefts with wh<XP and XP<wh orders.)

4 Reversibility

The question as to how to best analyse the reversibility of specificational sentences, and the restrictions on this reversibility, is intimately related to the question of what the underlying representation of specificational sentences should be assumed to be. In abstract terms, when it comes to the question of how to analyse the word order alternation exhibited in (207), one has three options, a priori. These are summed up in (208a–c).

(207) a. XP be YP
    b. YP be XP

(208) theoretical possibilities
    a. (207a) and (207b) are syntactically unrelated, each having a different underlying structure.
    b. (207a) is basic, (207b) being transformationally derived from it.
    c. (207b) is basic, (207a) being transformationally derived from it.

And once the score has been settled for one particular type of instantiation of the pattern in (207), one should repeat this exercise for each additional instantiation. That is, if we were to decide, for instance, that the alternation in double-NP specificational sentences is an instance of (208b), this need not entail that the apparently similar alternation in specificational pseudocleft constructions should necessarily be analyzed along the same lines. In addition, any analysis will also need to take a decision on the question (related to the ones raised above) of whether one of the two major constituents, XP and YP, is a predicate of the other in the underlying representation of the construction at hand, and if so, which.

This said, a wealth of theoretical possibilities presents themselves. It is not surprising, therefore, that there are quite a number of different proposals available in the literature — and that there is a substantial amount of confusion around in this domain as well. In what follows we will endeavor to elucidate the issues and the positions taken in the literature.
4.1 Predicational and non-predicational approaches

In our discussion of approaches to the underlying structure and derivation of specificational sentences, we will make a basic split between two types of accounts: predicational and non-predicational approaches. The non-predicational approaches assume there to be no underlying relationship of predication between the two major constituents of specificational sentences; predicational approaches, on the other hand, do assume such an initial predicational structure.

- non-predicational approaches (cf. e.g. Akmajian 1979, Heycock & Kroch 1999, Lahousse 2009)

Non-predicational approaches are most strongly represented in the traditional analyses of specificational pseudoclefts and other specificational copular sentences; recently, Heycock & Kroch (1999) have reinvigorated this kind of approach. The principles-and-parameters literature has brought forth a number of detailed analyses of specificational sentences which treat them as underlyingly predicational — an analysis that has an important precursor in the pre-p&p era in Blom & Daalder’s (1977) analysis of specificational sentences.

Largely for presentational efficacy, we will first go through the non-predicational approaches to specificational sentences (section 4.1.1), addressing the predicational approaches in section 4.1.2.

4.1.1 Non-predicational approaches

The most explicitly non-predicational approach to specificational sentences (which in their account form a subgroup of the class of ‘equative’ constructions; cf. ‘identity statements’ in sections 1 and 2) is Heycock & Kroch (1999). They treat the relationship between the major constituents of specificational and equative sentences in terms of equation. One of the claims of their work, therefore, is that the theory should recognize ‘equation as distinct from predication’ (p. 375).

In item (v) in section 3.2.1, we had already encountered one non-trivial problem for an analysis of the constituent representing the variable in an inverse specificational copular sentence as a predicate nominal: the fact that, when plural, it does not pronominalize the way that plural predicate nominals do. The relevant examples (due to Heycock 2012) are repeated below:

(127)  
   a. Her greatest friends are Justin and Sarah, {∗isn’t ∗aren’t it/aren’t they}?  
   b. Justin and Sarah are her greatest friends, even if they don’t look {it/∗them}.

With specific reference to specificational pseudoclefts, Heycock & Kroch (1999) draw attention to the fact that if one denies that there is a grammatical (‘deep’) distinction between equation and predication and treats specificational pseudoclefts as underlyingly predicative, one needs to allow free relatives (which is what they take the wh-clause of specificational pseudoclefts to be; see section 5) to be ambiguous with respect to their semantic type: in Honest is what I want a man to be, the free relative would have to be of type $<e,t>,t>$ (denoting as it does a second-order property: a property of properties), while in John is what I want a man to be (i.e., he’s honest), the free relative should be of type $<e,t>$. Moreover, in order to be able to handle tautologies like (When it comes down to it,) honest is honest, a predicational approach would need to both type-raise honest from $<e,t>$ to $<e,t>,t>$ and attach a change in meaning to this type raising operation: honest(x) changes into be identical to honest(x). Heycock & Kroch conclude that ‘[i]n other words, if equation is removed from the syntax, it has to be put back into the semantics’ (p. 375). An equative approach to specificational sentences, by contrast, will be able to characterize free relatives as being of type $<e,t>$, and will not need to resort to type raising operations and concomitant meaning changes.
Heycock & Kroch’s approach to specificational copular sentences thus treats these as equivalent to equative constructions — or ‘identity statements’, in the terminology of Higgins (1979) and Declerck (1988). There certainly are parallels between equative and specificational copular sentences — for example, both behave identically when it comes to embedding under ECM verbs like consider, believe, in the absence of a copula: both (209) and (210) are ungrammatical (cf. Heycock & Kroch 1999:374 for the equative cases; cf. Moro 1997 for the original observation concerning specificational or ‘inverse copular’ sentences):

(209) a. I consider John the best candidate. [predicational]
b. *I consider the best candidate John. [specificational]

(210) a. *I consider your attitude towards Jones my attitude towards Davies. [equative]
b. *I consider my attitude towards Davies your attitude towards Jones. [equative]

In equative constructions, both orders of the two NPs deliver ungrammaticality in the complement of consider (210); neither order hence seems to be syntactically representable as predicational (cf. the grammaticality of (209a); recall, however, Blom & Daalder 1977:76 — discussed in section 1.4, above). What enhances the conclusion that the neither noun phrase in an equative copular sentence is a predicate is the fact (cf. Heycock & Kroch 1999, whose case, based on which-relatives, is slightly weaker) that each is modifiable by a non-restrictive relative clause introduced by who, something that predicate nominals are incapable of: non-restrictive relatives construed with predicate nominals are always introduced by which (recall the discussion of (126), above):

(211) a. Dr Jekyll, who is a kind man, is Mr Hyde, who is evil. [equative]
b. Dr Jekyll is a kind man, which Mr Hyde is not. [predicational]

One must, therefore, deny both physical noun phrases of an equative construction predicate status. If one wants to set up an underlying predicational structure even for equative copular sentences, one has to allow oneself the abstraction of making one of the two physical noun phrases a subconstituent of a larger predicate nominal — of which only the referential noun phrase that is included in it is spelled out. See Den Dikken (2006a:section 3.2.2.2) for a specific proposal, in which the precopular noun phrase of an equative copular sentence is treated as a concealed free relative that serves as the underlying predicate of the construction, and which is obligatorily raised into the structural subject position for licensing purposes.

Whatever the proper analysis of equatives, however, it has no necessary logical implications when it comes to the analysis of specificational copular sentences: typologies of copular sentences routinely distinguish between identity statements and specificational copular sentences on account of the fact that their properties are not identical (see section 1.3). Heycock & Kroch’s (1999:375) remarks about tautologies like Honest is honest, which instantiate equatives, not specificational constructions, therefore are strictly speaking beside the point when it comes to the analysis of specificational copular sentences.

Heycock & Kroch (1999:381–82) stress that their recognition of a separate class of equative copular sentences (alongside predicative ones) need not imply the recognition of (at least) two separate types of copular be — one may, instead, encode the difference between the two types of copular sentence entirely in the syntactic structure of the small clauses participating in them: there are two types of small clause, equative and predicative ones (the former involving ‘some functional head’, the latter not); the copula be can take either as its complement.

(The fact that Heycock & Kroch assume that equative constructions feature a small clause, and that they say explicitly that the only difference between a predicative and an equative small clause lies in the presence in the latter of an additional functional head of sorts, may suggest that Heycock & Kroch do, after all, adopt a type of predicational approach to specificational/equative sentences — if the only difference between equative and predicative small clauses lies in a functional (i.e., non-lexical, non-predicating) head, and if — as is clear —
predicative small clauses involve predication, then how can equative small clauses not involve predication? The answer to this question is not given by Heycock & Kroch. They do stress, however, that in equative constructions it is impossible ‘to interpret one of the noun phrases as less referential/more predicative than the other’ (p. 374). This is why we have classified the Heycock & Kroch approach to specificational sentences (which they subsume under their rubric of ‘equatives’) as a representative of the group of non-predicational analyses.

By not making a distinction between different types of be, Heycock & Kroch’s ‘one be but more than one type of copular sentence’ approach differs from Akmajian’s (1979) account of specificational sentences (pseudoclefts in particular). Akmajian (1979:162) draws a distinction between ‘two fundamental senses of the copula, namely, the specificational sense as opposed to the predicational sense’ (original emphasis). The former he later calls a ‘specification operator [=]’ and the latter a ‘predicational operator [is]’ (p. 217). It is [=] that establishes the relationship between the two major constituents of specificational copular sentences. The constituent harboring the variable and the value-XP are both referential (cf. his chapter 3, section 2.2); neither functions as a predicate of the other.\(^50\) In essence, then, in Akmajian’s analysis the ‘specification operator [=]’ serves as a two-place predicate in specificational sentences — though Akmajian never spells this out clearly, [=] may be taken to take the two major constituents of a specificational sentence as its arguments. The syntactic structure of base-generated specificational sentences is then as in (212): with the pre-copular wh-clause (a free relative) occupying the structural subject position and [=] taking the post-copular value-XP as its complement.\(^51\)

\[(212) \quad \text{[is \ [NP \text{what there was in the car}] \ [VP \text{[=} \ [NP \text{the jack you gave me/my hat]}]]]}\]

An obvious problem for the idea that the copula in specificational and equative copular sentences is the spell-out of a two-place predicate [=] is the fact that, in all copular sentences of English, do-support is entirely ruled out: unlike other θ-role assigning verbs, the finite copula raises to the left of sentential negation or to C by itself, not calling upon the services of the dummy do (thus, contrast What there was in the car {wasn’t/*didn’t be} the jack you gave me with You {*gaven’t/didn’t give} me that jack). We will not pursue this idea any further here.

Akmajian (1979) argues for a dual approach to specificational pseudoclefts: one analysis generates the specificational pseudocleft in the base (via (212)), and the other derives them transformationally from their simple clause counterparts (via extraction; see section 6.2 for discussion).\(^52\) We have focused here on the base-generation analysis (though for the extraction derivation Akmajian assumes a structure that is underlyingly almost identical, once again featuring the ‘specification operator [=]’). As Akmajian stresses several times, ‘there is no non-ad hoc way of preventing’ this duality of sources (p. 32; also cf. p. 38). In a similar vein, Den Dikken et al. (2000) also argue for a dual analysis of specificational pseudoclefts — but this time, the two structures are radically different, one involving predication, the other not.

The non-predicational analysis is proposed by Den Dikken et al. for a subset of specificational pseudoclefts — in particular, those specificational pseudoclefts which feature a word order in which the wh-clause precedes the copula and the value-XP, and in which we find connectivity effects involving negative polarity items or case, or a full IP in postcopular position (their ‘Type A’ specificational pseudoclefts). For pseudoclefts of this type, Akmajian actually assigns the same syntactic structure (modulo the nature of the linking operator) to predicational pseudoclefts, saying that the ambiguity of a sentence like What John does not eat is food for the dog is ‘not associated with the specific derivation of clefted sentences ... but rather ... is a function of the general phenomena of referentiality of nominal expressions’ (p. 178). We take it, though, that Akmajian would assume that food for the dog on its non-referential interpretation functions as a predicate of the pre-copular constituent, and that the ‘predicational operator [is]’ is not a two-place predicate in its own right.

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\(^{50}\) It should be noted, however, that in the tree structures in his first chapter Akmajian does systematically label the post-copular node ‘Pred’ — cf. e.g. pp. 27, 40.

\(^{51}\) Akmajian actually assigns the same syntactic structure (modulo the nature of the linking operator) to predicational pseudoclefts, saying that the ambiguity of a sentence like What John does not eat is food for the dog is ‘not associated with the specific derivation of clefted sentences ... but rather ... is a function of the general phenomena of referentiality of nominal expressions’ (p. 178). We take it, though, that Akmajian would assume that food for the dog on its non-referential interpretation functions as a predicate of the pre-copular constituent, and that the ‘predicational operator [is]’ is not a two-place predicate in its own right.

\(^{52}\) Akmajian also points out that his ‘predicational operator [is]’ occasionally links the variable and the focal material of specificational pseudoclefts.
type, Den Dikken et al. propose a ‘topic–comment’ structure of the type schematized in (213): the wh-clause is a wh-question finding itself in a left-peripheral topic position, and the value-XP is represented as a full IP (from which material may be elided, subject to general restrictions on ellipsis) which functions as the root clause.

(213) \[
\text{[TopP [IP wh-clause = wh-question] [TopP be [IP ‘value’, either full or elliptical]]]}
\]

The structure in (213) straightforwardly captures the connection between specificational pseudoclefts and question–answer pairs (see section 5, below) and topic–comment constructions (cf. also Seuren 1985:303), the ban on subject-auxiliary inversion, and the case and NPI connectivity effects: the case form and NPI-hood of the value, while apparently licensed by ingredients of the wh-clause, are in actual fact licensed within their own clause, the elliptical postcopular IP:

(214) a. Was er essen wollte war einen Apfel. (cf. (56))
what he eat wanted was an.ACC apple

  b. \[
  \text{[TopP [CP was er essen wollte] [TopP war [IP er wollte einen Apfel essen]]]}
  \]

(215) a. What he didn’t read was any book about clefts.

  b. \[
  \text{[TopP [CP what he didn’t read] [TopP was [IP he didn’t read any book about clefts]]]}
  \]

The topic–comment structure in (213) is available only for specificational pseudoclefts with a word order in which the wh-clause (the comment) precedes the ‘value’ — inversion of the base-generated topic–comment order by movement of the comment to a position preceding the topic is impossible, given the general impossibility of extraction across a topic (the ‘topic island effect’). For specificational pseudoclefts with case and NPI connectivity such as (214a) and (215a), the analysis thus predicts correctly that they are irreversible.

For the fact that specificational pseudoclefts that do not show case or NPI connectivity do allow the alternative XP<wh order, a different analysis needs to be proposed: these cannot be derived from (213). Den Dikken et al. (2000) thus propose an analysis of the two word-order variants of the specificational pseudocleft in which they are structurally unrelated. Den Dikken et al. (2000) assume that specificational pseudoclefts with XP<wh order, as well as double-NP specificational sentences, feature a small clause structure that includes the value-XP as the subject. Discussion of this kind of structure properly belongs in section 4.1.2, on predicational approaches — to which we now turn.

4.1.2 Predicational approaches

In Higgins’s (1979) characterization of specificational sentences, neither of the two constituent NPs receives the qualification ‘referential’ or ‘non-referential’; instead, Higgins assigns NP1 the label ‘superscriptional’ (paraphrasable as ‘providing the heading of a list’) and NP2 the label ‘specificational’ (i.e., ‘specifying the contents of the list’). Translating these labels into the familiar syntactic functions ‘predicate’and ‘subject’ is not straightforward: Higgins is the only one to use these terms, and he himself is not particularly explicit when it comes to their mapping to underlying syntactic relationships. He does say, however, that the wh-clause of a pseudocleft is the subject of the pseudocleft. And in his discussion of the semantic representation of specificational pseudoclefts like What we saw in the park was a man and a women (unambiguously specificational unless reference is being made to a hermaphrodite), he writes that whereas ‘the subject clause specifies a set in terms of a property, the predicate expression constitutes an explicit listing of the members of the same set, and the verb be is the identity’ (p. 118). Thus, Higgins seems to partition the specificational pseudocleft into a subject, a predicate and a copula of identity (annotated as ‘=’, as in Akmajian’s 1979 treatment of specificational sentences); cf. the semantic representation in (216b).
(216) a. What we saw in the park was a man and a woman.

b. \{x: we saw x in the park\} = \{a man, a woman\}

Yet, elsewhere in his discussion of the underlying syntactic representation of specificational pseudoclefts, Higgins (1979:226ff.) brings up a number of syntactic tests (mostly concerning word order in questions) which lead Declerck (1988:46) to conclude ‘there appears to be ample evidence that in specificational sentences it is the NP representing the focus [i.e., the value-XP] that is the (underlying) subject’. For Declerck, therefore, in a specificational sentence like The best candidate is John the post-copular NP John (the value; cf. Huddleston’s 1971 ‘identifier’), which is referential (either weakly or strongly), functions as the underlying subject of the construction. The pre-copular constituent (the ‘identified’ in Huddleston’s 1971 terms), which is ‘weakly referring’ (‘attributive’ in the sense of Donnellan 1966), is the ‘subject complement’ (a term largely equivalent to ‘predicate’) in the underlying representation.

On the surface, however, things are governed (in Declerck’s analysis) by a principle which says that ‘the initial NP of a specificational copular sentence is always interpreted as the theme and therefore as the syntactic subject of the clause’ (p. 201), regardless of the order of the two NPs. On the surface, then, whichever of the major constituents of a specificational sentence occupies the pre-copular position (in declarative sentences not involving topicalization, that is) is the subject.

Even though Declerck (1988) explicitly does not avail himself of any particular theoretical framework (so that the precise theoretical status of terms like ‘underlying’, used by Declerck in various places, remains rather difficult to determine), it seems reasonable, in the light of the foregoing, to summarize Declerck’s perspective on the underlying syntax of specificational sentences as in (217). Declerck identifies the variable (the wh-clause of specificational pseudoclefts) as the ‘subject complement’ in the underlying representation. With ‘subject complement’ read as ‘predicate’, Declerck’s approach matches that of Moreau (1971), Blom & Daalder (1977), Heggie (1988), Verheugd (1990), Moro (1997), Heycock (1994), Mikkelsen (2005), and Den Dikken (2006a) (see also Den Dikken et al.’s 2000 ‘Type B’ specificational pseudoclefts) when it comes to the status of the ‘variable’ in the underlying representation of specificational constructions.


• variable/identified = underlying predicate

• value/identifier = underlying subject

With the exception of Moreau (1971) (who only shares the ‘underlying predicate’ part of (217), adopting an extraction analysis; see section 6.2) and Blom & Daalder (1977), who avail themselves of a pre-p&p transformational framework, all of the aforementioned generativists assume a small clause structure for this underlying subject–predicate relationship, as illustrated in (218).

(218) ... be [sc [Subj XP] [Pred wh-clause]]

It is especially Heggie (1988) who provides a range of syntactically based arguments for an underlying subject–predicate analysis of specificational sentences, with particular emphasis on pseudoclefts. Some of her arguments are intended to support the predicative nature of the wh-clause; others seek to vindicate the underlying subject status of XP. We will go through her arguments briefly in what follows, after which we turn to the question of how to derive the surface word order in which the variable precedes the value.
(i) **Quantification restrictions** (cf. section 3.2) Heggie’s first argument for the predicativity of the *wh*-clause of specificational pseudoclefts, based on facts of the type in (219), was also discussed in section 3.2, above. The upshot of it is that the impossibility of *-ever* in the *wh*-clause of specificational pseudoclefts (of whichever order; cf. (219a)) can be likened to the ungrammaticality of (219b) on the assumption that the *wh*-clause of specificational pseudoclefts is a predicate (like the post-copular noun phrase in (219b)).

(219) a. *Whatever Mary hates is Bill’s tie.
   *Bill’s tie is whatever Mary hates.
   b. *John is every teacher.

As was argued in section 3.2, this argument has no force: combined with the quantificational restrictions on the value-XP of specificational sentences, it would lead to the nonsensical conclusion that both major constituents of specificational pseudoclefts are underlying predicates.

(ii) **ECM** (cf. section 3.4) The second indication that the *wh*-clause of specificational constructions (with variable-value order is a predicate, according to Heggie, comes from constructions of the type in (209), above: ECM complements (see our section 3.4, above). Heggie points out that it is impossible to embed a specificational pseudocleft (with *wh*-XP order) under verbs like *consider*:

(220) a. I consider important to himself what John is.
   *I consider what John is important to himself.

The essence of this argument is that small clauses (like the tenseless complements of *consider* in the examples in (209) and (220)) do not make space available to perform inversion of subject and predicate; the grammatical examples in (209a) and (220a) must hence feature subject and predicate in their base order — hence, the *wh*-clause of (220) must be a predicate in the underlying representation of specificational pseudoclefts.

Once again, however, the argument is not foolproof. A clear indication that something more needs to be said about these data is that adding *to be* renders (209b) grammatical (see (209b')) while, for most speakers at least (cf., however, Hankamer 1974, Faraci 1970), (220b') remains bad:

(209) b'. I consider the best candidate *to be* John.
(220) b'. *I consider what John is *to be* important to himself.

(The fact that Blom & Daalder (1977) give examples of specificational constructions with predicate-initial order embedded under ECM verbs does not refute Heggie’s argument: see section 4.2, below, for discussion.)

(iii) **Combining clefts and pseudoclefts (II)** (cf. section 3.3) Heggie’s third argument (see our section 3.3, above) makes inventive use of the combinability of clefting and pseudoclefting, as in (178a), repeated below. The argument kills two birds with one stone: for alongside arguing for the predicativity of the *wh*-clause, it also confirms the subjecthood of the value-XP. Heggie observes that, of the four possible outputs of a combination of a cleft and a pseudocleft in (178), only the a–example actually comes out grammatical.

(178) a. I consider the best candidate *to be* John.
   b. *I consider what John is *to be* important to himself.

(209) b'. I consider the best candidate *to be* John.
(220) b'. *I consider what John is *to be* important to himself.

(The fact that Blom & Daalder (1977) give examples of specificational constructions with predicate-initial order embedded under ECM verbs does not refute Heggie’s argument: see section 4.2, below, for discussion.)
(178) a. It’s coconut that is what Mary hates.  cf. It’s John that is the teacher.
b. *It’s what Mary hates that coconut is.  *It’s the teacher that John is.
c. *It’s what Mary hates that is coconut.  *It’s the teacher that is John.
d. *It’s coconut that what Mary hates is.  *It’s John that the teacher is.

The force of the argument here comes from the independent fact that in predicate nominal constructions like John is the teacher or The teacher is John, only the non-inverted subject can be clefted (cf. the examples in the right-hand margin). The parallel behavior of what Mary hates and the teacher in the two paradigms then suggests that the former, just like the latter, is a predicate in the underlying representation of copular sentences — if one assumes, of course, that the teacher in John is the teacher (a non-inverted specificational copular sentence) is in fact a predicate nominal. If one accepts the latter claim (cf. Moro 1997; but see Heycock & Kroch 1999 for a different perspective, and recall Heycock’s 2012 counterargument based on (127), above), the facts in (178) argue for the predicativity of the wh-clause of specificational pseudoclefts.

Notice that if this argument goes through, it at the same time argues that coconut (the ‘value’) in the left-hand examples is like John in the right-hand cases in being an underlying subject. This is confirmed further by a variety of additional arguments provided by Heggie, the first of which concerns gapping.

(iv) Gapping (cf. section 3.3) This argument is originally due to Higgins (1979), and discussed also in Heycock & Kroch (1999) and Den Dikken et al. (2000) (see section 3.3, above). The key point for Heggie is that gapping of the copula linking the wh-clause and the ‘value’ fails in (221b) (while it succeeds perfectly well in (221a), featuring non-inverted XP<wh order):

(221) a. Important to himself is what John is, and important to herself is what Mary is.
b. *What John is is important to himself, and what Mary is is important to herself.

Heggie makes the interesting suggestion that the ungrammaticality of (221b) reduces to the general ban on gapping in constructions featuring movement across the subject, as illustrated in (222):53

(222) *Which man did Bill see, and which man did Gary see?

Notice, though, that while (222) involves gapping of two non-contiguous elements, (221b) incurs no such discontinuity problems; the causes of the ungrammaticality of the two examples may well be unrelated, therefore. At the very least, it is not clear that they are related.

(v) Comparatives (cf. section 3.2) Noting that comparatives of the type in (223a) are ‘limited to predicates’, she goes on to construe the ungrammaticality of (223b) (also brought up in section 3.2, above) as evidence that important to himself is not a predicate, hence must be a subject.

(223) a. X is more important than Y is.
b. *What John is is more important to himself than what Bill is is.

53 We add that there are speakers for whom (222) is not actually unacceptable. Note also that its counterpart involving a subordinate wh-question (I wonder which man Bill saw, and which man Gary) is no better than (222). This indicates that the relevant constraint on gapping should make no reference to movement of the finite verb around the subject.
This argument will only go through if one accepts the premise that specificational pseudoclefts are predicational constructions — otherwise there is no implicational relationship between the non-predicate-hood of important to himself and its subjecthood.

(vi) Raising (cf. section 3.4) Heggie seeks to derive further evidence for the subjecthood of the value from raising (cf. Williams 1983): (192a) is grammatical, which shows that important to himself behaves like subjects in allowing for raising-to-subject. However, the raising argument raises a problem for Heggie’s other claim: that the wh-clause is a predicate. For notice that (224b) is rejected by most speakers (but cf. Hankamer 1974 and Faraci 1970), which exposes the wh-clause as a creature with properties distinct from those of inverted predicates in double-NP specificational copular sentences — after all, inverted predicate nominals can undergo raising, as (224c) shows.

(224) a. Important to himself seems to be what John is.

b. *What John is seems to be important to himself.

c. The best candidate seems to be John.

The grammaticality of (224c) contradicts Heggie’s (1988:301) claim that ‘only subjects may undergo raising’, unless one is willing to treat the best candidate in (224c) as a subject, a view which would fatally undermine the parallelism arguments in favour of the predicativity of the wh-clause reviewed in the foregoing (cf. esp. (178), repeated under (iii), above).

(vii) Language variation A last argument for the subject–predicate relationship expressed in (218) comes from interesting observations that Heggie (1988) makes about certain differences between French and English. She observes that English is reasonably flexible in the types of ‘honorary NP’ subjects (to borrow Safrir’s 1983 term) that it allows (cf. (225)), while French is much more restricted — crucially, not just in (226a) but in (226b) as well, regardless of the relative order of the wh-clause and the value-XP.

(225) a. In the park is a good place to have a picnic.

b. In the park is where John met Mary.

b’ Where John met Mary was in the park.

(226) a. *Dans le parc est un bon endroit pour un pique-nique.

in the park is a good place for a picnic

b. *Dans le parc est où Jean a rencontré Marie.

in the park is where Jean has met Marie

b’ *Où Jean a rencontré Marie est dans le parc.

where Jean has met Marie is in the park

The PP value of (226b) thus behaves exactly like the subject of a predicative copular sentence, and the wh-clause behaves just like the predicate of a copular sentence.

Heggie’s last argument, (vii), is presumably the most convincing — especially the fact that surface word order is inconsequential indicates that what is at issue will in all likelihood be a property peculiar to underlying subjects of predicates. If this argument stands up to closer scrutiny, it shows that specificational pseudoclefts —
regardless of surface word order — feature a subject–predicate structure. If this is right, it also disconfirms Den Dikken et al.’s (2000) tentative suggestion that their ‘Type B’ specificational pseudoclefts, whose underlying structure is as in (218), do not allow inversion.

In the foregoing, we reviewed a number of syntactic considerations which have led several scholars to assume an underlying predication relationship between the two major constituents of specificational sentences. There are two further batteries of facts which have been advanced in this connection, concerning the distribution of the copula in and the extraction restrictions on inverse specificational constructions. But since these arguments are based specifically on inverse copular sentences, we will discuss them in section 4.3, which addresses the analysis of inversion from the perspective of analyses based on a predicational approach to specificational sentences.

4.2 Inversion

If one assumes a non-predicational approach to specificational sentences, one needs to spend little time on the question of how the reversibility of these constructions is to be looked upon analytically: any non-predicational analysis will assume that the two major constituents of such copular sentences are ‘on equal footing’; neither is predestined to take precedence when it comes to occupying the (surface) subject position.

If, on the other hand, one bases oneself on a predicational approach to specificational sentences, one of the two word orders of reversible copular constructions will more or less directly reflect the underlying representation, the other being derived from it via some sort of syntactic transformation. The question that arises then is what kind of transformation derives the other order.

The predicational analyses reviewed in section 4.1.2 agree that the underlying relationship between the two major constituents is such that the ‘variable’ is a predicate and the ‘value’ functions as its subject. Deriving the word orders reflected in (227) will hence be straightforward: starting out from the base structure in (218), all one needs to do is raise the underlying subject of the small clause (which may be of a variety of category types, subject to some language variation; recall (225) vs (226), above) to the subject position of the clause.

(227) a. John is the best candidate.
   b. Under the bed is the best hiding place.
   c. Important to himself is what John is.
   d. Write novels is what John does for a living.

(228) a. The best candidate is John.
   b. The best hiding place is under the bed.
   c. What John is is important to himself.
   d. What John does for a living is write novels.

(218) ... be [sc [subj XP] [pred wh-clause]]

To get from (218) to the word orders reflected in (228), one will need to do either or both of the following two things:

(a) maneuver the predicate into a position to the left of the subject, and/or

(b) maneuver the subject into position to the right of the predicate.
Whichever (combination) of these tacks one takes, inversion in copular sentences will come down to the reversal of the underlying subject–predicate word order — an example such as (196a) thus represents an inverse construction.

(We note in passing that there is considerable confusion in the literature about the contents of the terms ‘inversion’ and ‘reversal’: while Blom & Daalder (1977), Declerck (1988) and all principles-and-parameters studies use it in the way we are using it here (see also Quirk et al. 1972:954), Prince (1978) and Collins (1991) refer with the term ‘reverse/inverse’ construction precisely to the word order pattern which, when viewed from a predicational base perspective, corresponds to the underlying subject–predicate order.)

Most authors have opted for (a) (see Declerck 1988, Heggie 1988, Verheugd 1990, Moro 1997, Heycock 1994, Mikkelsen 2005, Den Dikken 2006a), though there is disagreement among those authors when it comes to the type of position that the pre-copular predicate finds itself in: for Blom & Daalder (1977) and Heggie (1988), this is an A′-position (COMP/SpecCP), while for Moro (1997), Heycock (1994), Mikkelsen (2005) and Den Dikken (2006a) it is crucial that this be an A–position (the subject position of the clause, SpecIP). As far as option (b) is concerned, it has been argued by Blom & Daalder (1977) that it exists as an alternative to leftward displacement of the predicate (though as far as we are aware, no proposal exists according to which inversion is uniquely derived via (b)). Guéron (1992, 1993) argues that both the underlying predicate and the subject are displaced, the latter to a right-peripheral focus position. (‘Displacement’ here, as well as ‘maneuver’ in (a) and (b), are meant to be theoretically neutral with respect to the question of whether there is movement involved or not.) The literature can hence be summarized as follows:

(229)  **Blom & Daalder (1977):** (a) or (b)

Inversion is topicalization/left-dislocation of the base predicate to COMP, or extraposition/right-dislocation of the base subject.

(230)  **Guéron (1992, 1993):** (a) and (b)

Inversion is leftward A′–movement of the base predicate into a position adjoined to an empty-headed subject, and rightward A′–movement (focus movement) of the base subject.

(231)  **Heggie (1988):** (a) *qua* A′-movement

Inversion leftward A′–movement of the predicate to COMP/SpecCP.


Inversion is predicate raising to the structural subject position (SpecIP).

Since Blom & Daalder’s (1977) analysis is the oldest and also represents a superset of the (a)-type approaches, let us take theirs as a starting point for the discussion. For Blom & Daalder, when what is in precopular position corresponds to the underlying subject, the pre-copular constituent finds itself in subject position of the clause, where it is base generated (cf. (233), which uses a verb-final word order; recall that Blom & Daalder are exclusively concerned with Dutch, an OV language). However, when the wh-clause (the deep predicate) surfaces in precopular position, it is not the surface subject — it either raises to a left-peripheral A′-position (via topicalization; cf. (234a)) or it stays put and sees the deep subject extrapose around it (extraposition/right-dislocation; cf. (234b)).

(233)  \[
[S \text{ Subject } [vP \text{ Predicate } be]]
\]
Blom & Daalder stress that both topicalization/left-dislocation and extraposition/right-dislocation are independently available mechanisms in the grammar of a language like Dutch. The status of the former is undisputed and will not be commented on further; that of the latter, Blom & Daalder argue, is confirmed by the existence of constructions of the type in (235):

(235)  a. ___ belde ineens aan: de pianostemmer
        ‘___ suddenly rang the doorbell: the piano tuner’

b. ___ is erg lekker: aardbeien met slagroom
        ‘___ is very nice: strawberries and cream’

It is interesting to note that what (235) and specificational sentences share is their list reading and colon intonation (cf. Higgins 1979). (It should be noted, however, that such examples have a stylistically restricted ring to them; they certainly are not as natural as specificational sentences in which the variable precedes the value.)

Blom & Daalder’s approach to inversion in specificational sentences thus takes the value<variable order as basic (subject<predicate) and derives the other order from it in either of two ways: (234a) or (234b). The former will be unavailable in embedded contexts — Blom & Daalder thus predict that in embedded clauses the only way in which the inverted order can be derived is via the (rather marked) strategy of extraposition/right-dislocation. In support of this prediction, Blom & Daalder (1977:111) mention the contrast between (236a) and (236b):

(236)  a. Het bleek dat nog veel hoger de aankoopsom was.
        it turned-out that still much higher the buying-sum was

b. Het bleek dat nog veel hoger was: de aankoopsom.
        it turned-out that still much higher was the buying-sum

Even though Dutch embedded clauses are normally verb-final, in embedded specificational sentences in which the predicate precedes the subject, the latter must surface all the way at the end of the clause, to the right of the verbal cluster. Just like the examples in (235), the inverse construction in (236b) must have the special colon intonation characteristic of (234b).

The problem with this kind of approach to inversion in embedded contexts, however, is the fact that in genuine specificational copular sentences (which (236) are not), it is in fact perfectly possible to invert the relative order of hyponym and hyperonym in such a way that the former ends up to the left of the verbal cluster — that is, (237b) is grammatical (alongside the stylistically marked (237c), with its characteristic colon intonation).

(237)  a. Het bleek dat de sollicitant uit NY de beste kandidaat was.
        it turned-out that the applicant from NY the best candidate was
b. Het bleek dat de beste kandidaat de sollicitant uit NY was.
   it turned-out that the best candidate the applicant from NY was

c. Het bleek dat de beste kandidaat was: de sollicitant uit NY.
   it turned-out that the best candidate was the applicant from NY

Since (237b) clearly is not the product of a type (b) analysis, and since topicalization (type (a)) is entirely impossible in embedded clauses in Dutch, Blom & Daalder (1977) seem at a loss accounting for the grammaticality of this example. Mutatis mutandis, Heggie’s (1988) analysis of inversion (phrased solely in terms of movement to SpecCP) faces the same problem — a problem that presents itself not just for Dutch but for English as well: in English, too, inversion is perfectly possible in embedded specificational copular sentences (even those not embedded under bridge verbs); no ‘colon intonation’ is required.

(238) a. It turned out that the applicant from New York was the best candidate.
   b. It turned out that the best candidate was the applicant from New York.

See also Heycock (1992) for discussion of this point, and Mikkelsen (2005:section 2.3) for an extended argument distinguishing between predicate inversion and topicalization, based largely on data from Danish — including the linear placement of negation (see already Jespersen’s 1924:151 well-known examples involving Mr Möller and his job as a miller møller in Danish: Möller er ikke møller ‘Möller is not a miller’ and Möller er Möller ikke ‘A miller, Möller is not’, the latter a case of predicate topicalization), pronominal case form, the distribution of reflexives, and negative polarity items.

Blom & Daalder (1977) also mention the ungrammaticality of inversion in yes/no-questions as an argument in favor of their approach to inversion. A paradigm first highlighted by Merckens (1961), in the classic ‘kooplieden discussion’ in the Dutch linguistic literature in the fifties and sixties (cf. Bos 1961, Droste 1961 for other contributions to this discussion, brought together in Hoogteijling 1969), will serve to illustrate this point:

(239) a. Kooplieden zijn dat.
   merchants are that
   ‘That’s what merchants are (viz., clever/thrifty/successful/mean/...).’

b. Dat zijn kooplieden.
   that are merchants
   ‘That’s what merchants are.’ / ‘Those are merchants.’

(240) a. Zijn kooplieden dat?
   are merchants that
   ‘Is that what merchants are?’

b. Zijn dat kooplieden?
   are that merchants
   ‘Are they merchants?’ (*‘Is that what merchants are?’)
The example in (239b) is ambiguous between a reading in which dat ‘that’ is the subject of the sentence and kooplieden ‘merchants’ is its predicate (cf. English They/those are merchants; for reasons that need not concern us here, Dutch has the finite verb agree with the predicate nominal in such cases — recall the discussion of phi-feature agreement in (iv.a), above), and one which is the inverse counterpart of the example in (239a), in which kooplieden is the subject of pro-predicate dat. For Blom & Daalder, the latter reading of (239b) is derived via topicalization of dat to COMP/SpecCP (with concomitant raising of the verb; Dutch is a Verb Second language). Interestingly, now, the example in (240b), the yes/no counterpart of (239b), is not ambiguous: it only has a reading corresponding to a structure in which dat is the underlying subject.

The unavailability of the ‘Is that what merchants are?’ reading for (240b) will follow if both (a) and (b) can be blocked. For (a) this is unproblematic: topicalization is impossible in yes/no-questions. Extraposition/right-dislocation of the deep subject around the predicate is less easy to block, however — especially in the light of Blom & Daalder’s (1977:111) own examples in (241), which show that yes/no-questions do not in general block the ‘colon construction’. In the light of the acceptability of (241) with ‘colon intonation’, one would minimally expect (240b) to improve once the requisite intonation contour is superimposed on it. Making the clause-final subject heavier will facilitate this — but (242), with a heavy clause-final NP and ‘colon intonation’, is simply bad, and definitely lacks the desired inverse predication interpretation.

(241) a. Is hier misschien voor handen: een oude damesfiets?
   is here perhaps available an old ladies’ bike
b. Heb jij soms gevonden: de sleutels van mijn auto?
   have you perhaps found the keys of my car

(242) *Zijn dat: kooplieden uit Amsterdam?
     are that merchants from Amsterdam

The radical unavailability of the inverse predication reading in Dutch yes/no-questions of the type in (240b)/(242) thus comes as a partial surprise from Blom & Daalder’s (1977) dual approach.

From examples of the type in (240b) we should not draw the general conclusion, however, that inversion of subject and finite verb is never possible in inverse copular sentences (see also (xxiii) in section 3.4, above). Examples of the type in (244b), derived from the inverse construction in (243b), are grammatical. Since topicalization is impossible in yes/no-questions in English as well, Heggie (1988) has no way of deriving (244b) at all. The well-formedness of this example hence stands out as an insurmountable obstacle for Heggie’s analysis. Blom & Daalder (1977) would still have option (b) at their disposal, though — and even though they do not discuss this kind of example, they might adduce the fact that (244b) seems best on a contrastive reading (cf. or the dog) in support of a (b)–type analysis of this kind of example.

(243) a. (When we go on a holiday,) the cat is our biggest worry.
   b. (When we go on a holiday,) our biggest worry is the cat.

(244) a. Is the cat your biggest worry?
   b. Is your biggest worry the cat (or the dog)?

Dutch behaves like English when it comes to (244b). But it may be interesting in this context to note that when subject and predicate disagree in number features, as in (245), subject–predicate inversion in a yes/no-question still seems possible in English while in Dutch it is poor:
(245)  
(a) The children are our biggest worry.  
(b) Our biggest worry is the children.

(246)  
(a) Are the children your biggest worry?  
(b) Is your biggest worry the children?

The difference between Dutch and English in (246b,b') seems to be related to the difference in finite verb agreement between the two examples (cf. also (245b,b')): while in English it is the inverted predicate that determines agreement (is), in Dutch agreement is triggered by the underlying subject in both ‘canonical’ and ‘inverse’ copular sentences. (We will not address the question of how the difference between Dutch and English in (246b,b') can be related to the agreement difference.)

Moro (1997) and Heycock (1992) discuss the agreement facts in detail — see section 3.2, above, for discussion). And of course the fact that in English it is the inverted predicate that triggers agreement with the finite verb in (245b) (Our biggest problem is/*are the children) stands out as an important additional argument against a topicalization approach to inverse copular sentences à la Heggie (1988) (as Heycock 1992 also stresses).

The agreement facts, when carried over into the realm of specificational pseudoclefts, appear to furnish an argument in favor of an inverse predication approach to such constructions featuring wh<XP word order. Thus, consider once again the minimal pair in (103) (from Declerck 1988:80). As Declerck notes, agreement serves to disambiguate wh-clefts — singular agreement, as in (103a), yields a specificational reading, while plural agreement, as in (103b), enforces a predicational interpretation. Of note in this connection is also Declerck’s (1988:79) example in (104a), which can only be assigned a specificational reading (due to the presence of the negative polarity item any in the ‘value’ constituent) — concomitantly, only singular verb agreement is possible.

(103)  
(a) What you have bought is fake jewels.  
(b) What you have bought are fake jewels.

(104)  
(a) What the book does not offer is/*are any solutions to the problems that are noted.

We have already pointed out in section 3.2, however, that the agreement facts in specificational copular sentences in general are not as categorical as they have been made out to be. But though verb agreement is not a foolproof diagnostic, the least we may conclude is that the very ability of the precopular predicate in inverse specificational sentences to trigger agreement on the finite verb is an indication that a pure topicalization analysis of inversion, à la Heggie (1988), is untenable.

Blom & Daalder’s two-pronged approach to the derivation of inversion in specificational constructions is no better equipped to account for the English agreement facts.54 An analysis of inverse copular sentences which treats the precopular variable constituent as a surface subject, by contrast, is eminently fit to explain the fact that the inverted predicate can trigger agreement on the finite verb in English examples of the type in (245b).55 Likewise, it will straightforwardly accommodate the fact that inverted predicates of specificational sentences can undergo raising to ever higher subject positions, as shown in examples such as (247).56

54  It should be noted, of course, that their analysis was exclusively designed for Dutch; it is only in a brief appendix that they consider the possibility of extending it to English.

55  See Moro (1997) for discussion of the difference between English and Italian; see Den Dikken (1997) for a critique with reference to Dutch.

56  Note that, for most speakers in any event, specificational pseudoclefts with wh<XP orders behave differently in this respect (cf. Hankamer 1974, Halvorsen 1978); see section 3.4, above, for illustration and discussion.
a. The best candidate could be John.
b. ?The best candidate is likely to be John.
c. ??The best candidate seems to have turned out to be John.

Examples of this type get less and less brilliant as the length of the raising trajectory increases (see also De Clerck 1988:91), but they are certainly not ungrammatical. A raising-to-subject analysis of inversion predicts their grammaticality straightforwardly. A topicalization analysis, by contrast, cannot account for the fact that a whole string of (raising) verbs can squeeze itself in between the inverted predicate and its subject, unless, in addition, the analysis resorts to extraposition/right-dislocation of the subject. In other words, to accommodate (219), an A′ predicate movement instantiation of option (a) would necessarily need option (b) at the same time, and would need to apply both operations simultaneously.

Guéron (1992, 1993) presents an analysis that does indeed combine both options, taking (a) to involve A′-movement into a position adjoined to an empty-headed noun phrase base-generated in subject position (cf. (248)).

\[ \text{(248)} \quad [\text{IP} [\text{DP}_0 [\text{DP}_0 \text{pro} [\text{OP}_0 Q [\text{DP}_2 t_1 D \text{NP}_{[+Q]} k]]]] [\text{I} [\text{VP} t_j [\text{BE} t_k] \text{DP}_1]]] \]

The key asset of Guéron’s analysis, with its special articulation of the complex noun phrase structure structure in the subject position resulting from the predicate inversion operation, is that it can make sense of the quantificational restrictions on inversion, illustrated in (63), repeated here.

\[ \text{(63)} \quad \begin{align*}
\text{a. Bill is } & \{\text{captain of the team/doctor/friend of mine/best doctor in town/best friend}\} \\
\text{b. } & \{\text{Captain of the team/doctor/friend of mine/best doctor in town/best friend}\} \text{ is Bill.}
\end{align*} \]

For Guéron, these quantificational restrictions are part and parcel of the QP–structure which the raised predicate–DP ends up embedded under.

The rightward movement of the base subject (DP1) into a VP–adjoined position (Guéron’s version of (b)) also gives Guéron a window on the fact that the postcopular subject of an inverse copular sentence is focused — on the assumption that the right-peripheral VP–adjoined position is a focus position, this falls out straightforwardly. Less clear, however, is how Guéron’s (1992, 1993) analysis would make sense of the agreement facts discussed above. For Guéron, the output of adjunction of the predicate to the pro-headed subject is essentially a free relative configuration (with the raised noun phrase coming to serve as a predicate of the pro heading the complex noun phrase resulting from the adjunction operation). Agreement of the copula with the raised predicate should then be mediated by pro, which should be made to agree in number with DP2. Guéron does not address this issue; we will not attempt a formal account here. In closing the discussion of Guéron’s proposal, we add that the fact that inversion of DP2 around DP1 ‘creates’ a free relative structure in the subject position establishes a direct parallel between inverse copular sentences and specification pseudoclefts with wh<XP orders (on an account of the latter, that is, which takes the wh-clause of specification pseudoclefts of this type to be a free relative; see section 5 for critical discussion of this point).

All in all, the fact that the topicalization and extraposition/right-dislocation analyses stay empty-handed when it comes to a variety of properties of inverse copular sentences stands out as a strong argument for the view that the pre-copular constituent of inverse specification sentences finds itself in subject position. This is guaranteed by the analyses proposed by Moro (1997), Heycock (1992), Mikkelsen (2005), and Den Dikken...
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(2006a) (all involving predicate raising), possibly by that of Guéron (1992, 1993) (though the agreement facts remain to be worked out for that analysis), and also, of course, by accounts which treat these constructions as equatives (cf. Heycock & Kroch 1999). The fact that (as (103) and (104a) illustrate) the agreement behavior peculiar to inverse specificational sentences seems to be shared by specificational pseudoclefts with wh-XP orders is a potential argument for an analysis of the latter along the same lines as that of the former (cf. Heggie 1988, Guéron 1992, 1993); but the topic–comment analysis of wh<XP (or ‘Type A’) specificational pseudoclefts proposed in Den Dikken et al. (2000) accommodates (104a) as well: the copula, on their analysis (cf. the structure in (213), above), is a relator (in the terminology of Den Dikken 2006a) between the topic in SpecTopP and the comment in the complement of Top, entertaining a Spec–Head agreement relationship with the (singular) wh-clause in SpecTopP. (See Den Dikken et al. 2000 for more discussion of Spec–Head agreement in TopP, in connection with the tense agreement/concord effects noted in section 3.2.) The fact that specificational pseudoclefts with wh<XP orders fail to systematically exhibit the same set of properties as inverse specificational sentences (cf. e.g. the difference between (247) and a pseudocleft like %What John does seems to be write novels, which is impossible for the majority of speakers), suggests that a full assimilation of such pseudoclefts to inverse specificational sentences may not be on the right track.

At this point, we may conclude that analyses of inverse specificational constructions (i.e., specificational copular sentences in which the value-XP follows the variable) in terms of topicalization (A’-movement to a left-peripheral position; COMP/SpecCP in Blom & Daalder 1977 and Heggie 1988) or extraposition/right-dislocation both face problems, and that an analysis which places the precopular variable in SpecIP is preferable on a number of counts. This said, we still need to determine whether the precopular variable ended up in SpecIP via movement or whether it was base-generated there. In the next subsection we will present the arguments which have been brought up in support of a movement approach, considering their pros and cons.

4.3 Evidence for inversion as movement to subject position?

4.3.1 Embedding under ECM and raising verbs

Both Heggie (1988) and Moro (1997) have drawn attention to the fact that it is impossible for the variable to precede the value in the verbless (small clausal) complement of ECM verbs like consider; see (249) (also section 3.4). Similarly, raising verbs like seem do not allow the predicate of their small clause complement to invert with its subject — (250b) is bad even for those (largely British English) speakers who accept (250a).

(249) a. We consider John the best candidate.
   b. *We consider the best candidate John.

(250) a. %John seems the best candidate.

This follows straightforwardly from a movement analysis of inverse specificational constructions: successful movement is dependent on the presence of a landing-site for the moved element; but the structure of the small clause complement of consider and seem is not large enough to make such a landing-site available.

The argument for a movement approach to inversion based on (249) and (250) will go through regardless of whether one assumes (with Heggie 1988) an A’-movement derivation or (with Moro 1997 etc.) an A-movement one. The argument becomes more specific, however, once we consider the fact that there is a way of salvaging the ungrammatical b–examples — by inserting to be in the complement of the ECM/raising verb (something which Heggie 1988 overlooks):
We consider the best candidate to be John.

The best candidate seems to be John.

Moro (1997) and Den Dikken (2006a) argue in detail that the distribution of the copula in these contexts is an argument in favour of an A-movement analysis of inversion in specificational constructions.

Of course the negative argument (against the A'-movement approach) is easy to make on the basis of (249b') and (250b') — the A'-movement analysis simply makes no appropriate landing-site available in the infinitival complement: we know that topicalization in ECM and raising infinitivals is generally impossible (cf. *We consider the best candidate, John to be). Moreover, even if we could somehow allow topicalization in such infinitival under limited conditions, we would still face difficulty accounting for the surface word order of the examples — how does one maneuver the infinitival copula into a position in between the topic and the subject, given that topicalization does not normally give rise to subject–auxiliary inversion in English (*The best candidate has John never been)?

The positive side of the argument (showing how an A-movement analysis can account for the distribution of the copula in this context) involves a particular outlook on the functions of the copula, in combination with a minimalist theory of locality (see Den Dikken 2006a). In a nutshell, the analysis runs as follows. A-movement of a predicate around its subject would — nothing else done — incur a violation of the minimalist theory of locality (based on Rizzi’s 1990 Relativized Minimality): in (251), the predicate, on its way to the higher A-position, skips an intermediate A-position (that of its subject).

\[(\text{251}) \quad *[_{\text{FP}} \text{PRED}_{i} \text{F} \text{[SC SUBJ H} \text{[t]} \text{]})\]

To remedy the locality problem, one must ensure that the first position that the predicate can land in and the position that the predicate skips on its way there are made members of the same local domain (‘equidistant’, in the sense of Chomsky 1995). The way to do this is to perform an operation of domain-extending head movement — some head which has the position of the subject in its minimal domain should raise to a higher head (‘F’ in (251) which has the landing-site of the raised predicate in its minimal domain. The moving head in question is the functional head of the small clause (‘H’) in (223). The resulting derivation is schematized in (252).

\[(\text{252}) \quad [_{\text{FP}} \text{PRED}_{i} \text{F+H} \text{[SC SUBJ t} \text{[t]} \text{]})\]

To link the obligatory head movement of (252) to the obligatoriness of the copula in (249b') and (250b'), Den Dikken (2006a) makes the additional assumption that the result of movement of H to F is the emergence of the copula be. The copula, in constructions of the type at hand, is hence an overt signaler of the application of predicate raising and its concomitant domain-extending head movement.

The account of the distribution of the copula in ECM/raising complements just sketched is crucially based on the A-movement analysis of predicate raising — if either the predicate did not raise to SpecFP but was base-generated there, or the predicate did so raise but not via A-movement, the obligatoriness of the copula could no longer be derived from the theory of locality along these lines. Thus, the facts in (249) and (250) provide us with an argument for an A-movement analysis of inversion in specificational constructions.

57 Word order in inverse copular sentences is actually a problem for a topicalization approach on a much broader scale. See Mikkelsen (2005) for detailed discussion of the word-order differences between topicalization and copular inversion.

58 The head of the small clause, ‘H’, is called a RELATOR in Den Dikken (2006a), and ‘F’ is called a LINKER. Moro (1997) notes that if the functional head of small clauses were Agr, one would not expect it to be possible to find disagreement in phi-features between subject and predicate — but such disagreement is in fact possible: see the examples in (245), for instance.
Heycock & Kroch (1999:373ff.) raise a number of objections to this argument in favor of an A-movement account of inversion in specificational copular sentences. First, they note that there are surface subjects which, even though they cannot be analysed as inverted predicates, do trigger the obligatory presence of *to be* in ECM and raising contexts. Consider the following examples:

(253) a. One hundred yen is the best value for the dollar.
    b. The best value for the dollar is one hundred yen.
(254) a. The banks consider one hundred yen the best value for the dollar.
    b. *The banks consider the best value for the dollar one hundred yen.
(255) a. The best value for the dollar has changed –
    b. – It used to be one hundred and thirty yen, but now it is only one hundred.

The distribution of the copula in (254) is the same as in the above examples; yet to analyze the best value for the yen as an inverted predicate on account of its ‘non-referential’ interpretation would seem to commit one to a predicational analysis of this noun phrase in (255a), where it likewise receives a non-referential interpretation. Heycock & Kroch (1999:373) admit that this batch of facts ‘does not, of course, entail the absence of predicate raising (i.e., “inversion”) in the copular examples, but it does greatly weaken the motivation for it’. True equatives like The Morning Star is the Evening Star weaken it further, they go on to point out — for these, too, require the presence of *to be* in ECM/raising constructions, yet there seems to be no referentiality difference between the two NPs in equitative constructions (or ‘identity statements’).59

The previous two arguments are at best circumstantial evidence against a predicate raising approach to inverse specificational constructions. A potentially much stronger argument (cf. Heycock 1994, Heycock & Kroch 1999:381) comes from ECM/raising examples featuring unquestionably specificational constructions with a variable<value order which, unlike the ones in (249b,b’) and (250b,b’), do not trigger the presence of *to be:*

(256) a. If what you say is true, that would make the real murderer John!
    b. The best solution remains instant retreat.
    c. At this point our real problem becomes John.
    d. *I guess that makes one good doctor John.
    e. *An example of this kind becomes World War II.

The verbs *make, remain* and *become* behave differently from *consider* and *seem* when it comes to their interaction with predicate raising. Heycock (1994, 1998), Den Dikken (2006a) and Guéron (2000) all seek to relate this to the aspectual properties of the constructions involved; Guéron, in particular, argues that the verbs *make, remain* and *become* take a small clause complement containing an abstract BE, an analysis which, if correct, would render (256) directly compatible with the Moro/Den Dikken analysis. Whatever the fate of such analyses, however, we should note that the verbs in question do not simply accept any inverse copular sentence in their complement: while *One good doctor is John* and *An example of this kind is World War II* (cf. (154a)) are grammatical, the examples in (256d,e) (due to Jacqueline Guéron) are bad. Further research into constructions of the type in (256) is clearly called for. But at least on its face, the difference between (256a–c) and the ones brought up originally in support of the ‘predicate raising as A-movement’ analysis raises some questions.

59 See, however, Blom & Daalder’s (1977:76) predicational analysis of equatives, mentioned in section 1.4, above.
Further questions are raised by an observation made by Blom & Daalder (1977:113), in connection with their dual account of inversion in specificational sentences. They point out that their analysis allows, in principle, for inversion in ECM contexts — even though a derivation along the lines of (234a) (topicalization/left-dislocation) is unavailable, there is nothing, in principle, that would block an extraposition/right-dislocation analysis à la (234b). And indeed, Blom & Daalder (1977:113) point out that (257) is grammatical (with the same characteristic colon intonation that products of (234b) have in general); and they claim that (258) is ambiguous between a reading in which een geboren leider is the value and one in which it is the variable (with intonation serving as a disambiguator).

(257) a. Het blijkt dat hij belangrijk vindt: een goede maaltijd.

   it turns-out that he important finds a good meal

(258) a. Ik vind een geboren leider de aangewezen persoon.

   I find a born leader the appropriate person

   hyponym/subject

   hyperonym/predicate

   b. Ik vind een geboren leider: de aangewezen persoon.

   I find the born leader the appropriate person

   hyperonym/predicate

   hyponym/subject

(258b), with its characteristic colon intonation, is derived via (234b). Blom & Daalder’s discussion of inversion thus indicates that a categorical rejection of inversion under ECM verbs would be too strong. The asterisk on examples such as (249b) should hence be taken to mean that, in the absence of special intonation (‘list’ or ‘colon’ intonation), these sentences are unacceptable.

On a more general plane, the movement analysis of inverse copular sentences raises questions about the trigger/motivation for movement (at least, if one seeks to embed the analysis in a theoretical framework like that of Chomsky 1995). For Guéron (1992, 1993), for whom the raised predicative noun phrase adjoins to a base-generated subject noun phrase headed by pro, one could speculate that the motivation for movement lies in the licensing (for content, at the very least) of this pro. Taking this tack would forge a connection with Den Dikken’s (2006a:section 4.2.2) account of what drives inversion: the need to license the null head of the predicate. Moro (2000) takes the satisfaction of Kayne’s (1994) Linear Correspondence Axiom to be the motivation for movement of either of the two constituents of the small clause in the copula’s complement — when the subject moves, the result is a canonical copular sentence; when the predicate moves, an inverse copular sentence results; the choice between the two options is free in principle, but one of the two constituents has to move, or else PF would be presented with a structure (the small clause) whose subconstituents (subject and predicate) entertain a relationship of symmetric c-command, a structure which cannot be linearized. Such an account would have to be amplified with an answer to the question of why raising of predicates to SpecIP is by no means unrestricted (*A doctor is John). That same question is also faced by a case-based account of what drives movement (cf. Hoekstra & Mulder 1990): the small-clause subject needs to check its case-feature; movement of either the subject itself or its predicate creates a case-checking configuration. For movement of the subject itself, this needs no discussion; that movement of the predicate also creates a configuration in which the subject can get its case-feature checked will follow on the assumption that subject and predicate are coindexed,60 and that Spec–Head agreement in IP

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60 But see Postal (1971), Guéron (1992) for arguments against this; for Guéron, subject and predicate are counterindexed in the récit and coindexed in the commentaire (a metalinguistic level which is created out of the récit in the covert component): ‘une chaîne non pas syntaxique mais sémantique. Deux NP non coïncidés sont mis dans un rapport d’équivalence’ [‘not a syntactic chain but a semantic one. Two non-coindexed NPs are put in a relationship of equivalence’; p. 90].
is a case of coindexation as well: as a result (given uniqueness of indexation), raising of the predicate to SpecIP creates a syntactic configuration in which the in situ subject is coindexed with Infl; checking of the subject’s features against those of Infl thus becomes possible. Finally, Mikkelsen (2005) proposes a ‘minimalist’ approach to the driving force for predicate raising couched in terms of the feature [top]: the Infl-head of inverse copular sentences is assumed to have an uninterpretable [top] feature that must be checked by movement of the predicate, which is equipped with a matching (but interpretable) [top] feature. See Den Dikken (2006a:section 4.2.1.1) for a critical appraisal of an information-structurally based account of the trigger for copular inversion.

In view of the fact that it has turned out to be difficult to find a suitable trigger for predicate raising/inversion, a possible reaction would be to deny that predicate raising/inversion is a triggered movement, and to assume instead that it applies freely, subject to convergence in the interpretive components. On the information-structural side, convergence is ensured if the raised predicate is a suitable topic and the postcopular subject a suitable focus. The net result of such an approach to the distribution of predicate raising/inversion will be quite similar to that of Mikkelsen’s [top]-driven movement. It is different from Mikkelsen’s analysis, however, in not taking topicality to be the driving force for movement: rather, the topic-comment articulation of predicate raising constructions is the effect of predicate raising, not what sets raising in motion. A triggerless approach along such lines needs to be embedded in a general outlook on movement in a restrictive theory of syntax. We will not undertake this here.

4.3.2 Extraction restrictions

Already in Grosu (1972) it was noted that in specificational pseudoclefts with wh<XP order, extraction from the postcopular value-XP is impossible (recall section 3.2, above). He also notes that the same is true for specificational copular sentences in general. The example in (259b) illustrates this for double-NP inverse specificational sentences. Moro (1997) points out, in addition, that not just extraction out of but also extraction of the postcopular value-XP is impossible in inverse specificational sentences:

(259) a. I think that the cause of the riot was a picture of the wall.
   b. *What do you think that the cause of the riot was a picture of ec?
   c. *Which picture do you think that the cause of the riot was ec?

These two extraction restrictions have been brought up as definitional properties of inverse specificational constructions. Italian exhibits clitic facts which parallel the wh-extraction data presented here; see Moro (1997: 28–29) for discussion. Note that Moro (1997:59) claims that the predicate of canonical (i.e., non-inverted) copular sentences is also unextractable — but Heycock & Kroch (1999:377) point out that this claim runs counter to the general facts (his particular example being unacceptable for reasons tangential to the subject/predicate issue).62

61 This case-based account of the trigger of predicate raising predicts the fact that the postcopular value receives/checks the Case assigned by Infl. This is not obviously correct, however. Thus, while Swedish does indeed assign nominative case to the postcopular value (Vinnaren är inte han(NOM)/*honom(ACC)), Danish has it surface with default accusative case (Vinderen er ikke ham(ACC)/*han(NOM) ‘the winner isn’t him’); see Mikkelsen (2005:173). Other approaches to case in inverse copular sentences certainly come to mind. One would be to assume that the copula is a case-assigner (either of an inherent (partitive) case, à la Belletti 1988, or of a structural one); another would be to assume that the postcopular value does not need case because it is a focus (cf. Guéron 1992; Kayne 1994 on Heavy NP Shift as a case of in situ, non-case checking noun phrases). We leave this issue open here.

62 Mikkelsen (2005:45) seems to throw in the towel when she says: ‘I have not been able to draw any firm conclusions from the extraction facts reported in the literature. The data are difficult and the judgments are variable at best.’ This seems to be an overly pessimistic assessment. But it is certainly the case that the extraction restrictions on inverse specificational copular sentences raise questions that have not to date been adequately addressed.
For Heggie (1988), the ungrammaticality of (259b) (and, by the same token, although she does not
discuss this explicitly, of (259c) as well) fits in with her topicalization analysis of inverse specificational
constructions — the deviance of these examples will then illustrate the familiar ‘topic island’ effect (cf. Ross
1967). However, the degree of deviance of the examples in (259b,c) is substantially stronger than that of a garden
variety topic island effect (cf. ?What do you think that to Mary, John would never give?). It is likely, therefore,
that the deeper roots of the ungrammaticality of these examples have to be sought elsewhere.

One possibility would be to look for the deeper roots in the domain of focus. What inverse specificational
constructions all share is the fact that the postcopular constituent (or a subconstituent thereof) is in focus. One
may wish to translate this structurally into the hypothesis that it is in a special, right-peripheral focus position,
and that it is this which blocks extraction of and from the postcopular noun phrase. Guéron (1992, 1993) presents
an analysis along these lines (see also Heggie 1988 for the suggestion that the postcopular noun phrase is in some
sort of ‘construcional focus’ position in at least some inverse specificational sentences; also cf. Blom & Daalder’s
1977 extraposition/right-dislocation approach to these constructions, and Den Dikken’s 2006a appeal to infor-
mation structure in his account of the extraction restrictions). The assumption that the postcopular constituent is
in a focus position (an A’ island position) will readily make sense of the ban on subextraction from it. It is less
clear, however, that it will also successfully rule out wh-extraction of the entire constituent: wh-constituents are
themselves foci; it is unclear why movement from the focus position on to SpecCP should be forbidden.

Moro (1997) presents an alternative account of these facts which capitalizes on his raising-to-subject
analysis of predicate inversion. The key to this analysis is that the postcopular constituent in an inverse
specificational construction finds itself in a specifier position. We are familiar from early transformational work
(Ross 1986) with the fact that specifiers (left branches) are islands — the Subject Condition severely penalizes
extraction from subjects. The ungrammaticality of (259b) then follows, from the Subject Condition (Subjacency).
That of (259c) can also be made to follow from the subject status of the postcopular deep subject, if one assumes
that in its base position, the trace of the extracted value in (259c) cannot be properly governed, which causes an
ECP violation. Central to this account of (259b,c) is idea that the postcopular constituent in inverse specificational
sentences is in a subject/specifier position. It is in this respect that this account rests crucially on the movement
analysis of inversion in specificational constructions: if this order were base-generated, the postcopular NP would
not be a subject.

Heycock & Kroch (1999:376–78), in their repartee of the raising analysis of specificational sentences,
object, however, that ‘true equative sentences’ exhibit the same extraction restrictions, despite the fact here there
is no sense in which one of the two NPs can be singled out as an underlying predicate (but cf., once again, Blom
& Daalder 1977:76 for a different perspective):

(260) a. *Who is your attitude towards Jones my attitude towards?
          *Whose attitude towards Davies would you say that your attitude towards Jones is?

They go on to point out that ‘in inverse (and equative) sentences the extraction of the surface subject is just as
ungrammatical as the extraction of the postcopular noun phrase’ (p. 377) — a point overlooked by Moro (1997),
Heycock (1994) and others.

(261) a. *Which of the themes do you think ec is that phrase of music?
          *Whose opinion of Edinburgh do you think ec is your opinion of Philadelphia?

Heycock & Kroch claim that these facts seriously undermine the extraction argument — but see Den Dikken
(2006a) for an integrated account of the extraction facts of inverse specificational copular sentences and equatives
that is based on the raising analysis.
While they do not present a new account of the extraction facts, Heycock & Kroch (1999:378, fn. 9) do make a potentially interesting suggestion which needs to be looked into in future research. They suggest that it might be fruitful to look for an account of the extraction restrictions in the domain of ‘the only other symmetric constructions in natural language syntax: coordination’. The following examples show that there is indeed a close parallel between coordination constructions and equatives — even in the domain of across-the-board extraction.

(262) a. *Which city is your opinion of ec my opinion of Philadelphia?
    b. *Which city is your opinion of Edinburgh my opinion of ec?
    c. Which city is your opinion of ec my opinion of ec?

(263) a. *Which city does John love ec and Mary despise Philadelphia?
    b. *Which city does John love Edinburgh and Mary despise ec?
    c. Which city does John love ec and Mary despise ec?

This parallel suggests that what we are dealing with in the domain of extraction restrictions is constraints on ‘symmetric constructions’. But the key representatives of ‘symmetric constructions’ (coordinations, appositions) have, in recent work, all been given an asymmetric structural analysis (see Munn 1992, Johannessen 1998, Kayne 1994, Koster 2000, Den Dikken 2006a). Den Dikken (2006a), in particular, capitalizes on the similarity between predication and coordination, and proposes an integrated structural account of both in terms of an asymmetric syntactic structure wherein the structural relationship between the two terms of the construction is mediated by an abstract functional head (a RELATOR). So the empirical parallel between variable-value specificational copular sentences and equatives, on the one hand, and coordination constructions, on the other, will by no means compel one to a Moro (2000) style symmetric underlying representation for specificational and equative copular sentences.

4.4 Reversibility: Concluding remarks

In this section we have discussed approaches to what is perhaps the most conspicuous earmark of specificational copular sentences: the reversibility of their major constituents. There are two basic questions that come up in the accounts of reversibility offered in the literature:

• Does reversal involve movement or not?
• If so, is it movement of the variable to the left or of the value to the right (or both), and what kind of movement (A or A\textsuperscript{N}) are we dealing with?

Approaches which take inverse specificational sentences to be a subtype of equative copular sentences (or ‘identity statements’) answer the first question negatively. Underlyingly predicational approaches to inverse specificational sentences of necessity give a positive answer to this question, and have come up with a variety of ways of deriving the surface word order from an underlying subject–predicate base. Evidence has been presented in the literature in favour of the underlying predicativity of inverse specificational sentences, as well as for leftward predicate movement and rightward subject displacement accounts of the inverted order. None of these accounts is flawless, however: many of the individual arguments face difficulties, as we have seen. This raises questions about the transformational account, and, concomitantly, about the predicational base of inverse specificational sentences as well.

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63 See also O’Neill (2012) for an analysis of ‘specificational copular amalgams’ (such as That’s what I worry about is our finances) that exploits a Koster-style approach to asyndetic coordination.
The predicativity of the precopular constituent is also potentially called into question by the fact that there are severe restrictions on what qualifies as an ‘invertible predicate’ (cf. (63), above). Heycock & Kroch (1999: 379–80) review these restrictions (see also Declerck 1988, Guéron 1993, 2000) and conclude that what they show is ‘that it is not possible to treat any constituent appearing in [SpecIP] as predicated of a postcopular argument’. This stands out as perhaps the most serious obstacle to a predicate raising analysis of inverse specificational sentences. Guéron (1993, 2000), however, presents a concrete perspective on how to analyse these restrictions (which are mostly of a quantificational nature) from a perspective of an approach which starts out from an underlying subject–predicate relationship.

On the other hand, an analysis of inverse specificational sentences which treats them on a par with equative copular constructions (or ‘identity statements’) will need to face the fact that, despite their similarities in the domains highlighted by Heycock & Kroch, there are differences between the two as well — see section 1.3.

With these conclusions concerning the analysis of specificational copular sentences drawn, we have now reached the final destination of the code-share flight operated jointly by double-NP specificational sentences and specificational pseudoclefts. From this point on, we will leave constructions of the type *The best candidate is John* behind, and focus instead on two questions arising specifically in the context of specificational pseudoclefts, concerning:

- the status of the *wh*-clause, and
- the relationship between specificational pseudoclefts and their simple clause counterparts.

We will address these two questions in turn, in sections 5 and 6, respectively.

### 5 The *wh*-clause: Question or free relative?

We are gradually making our way towards a discussion of the theoretical approaches to the relationship between specificational pseudoclefts and their simple clause counterparts. But before we can assess these, we will need to address another question: what is the status of the *wh*-clause of specificational pseudoclefts? Since *wh*-clauses with *what* as their first constituent (the canonical realization of the *wh*-clause of specificational pseudoclefts; on the limited possibility of other *wh*-elements, see section 2.1) without subject–auxiliary inversion come in two general varieties, what we need to determine is which of the two, if either, we are dealing with in a specificational pseudocleft:

(264) *the wh-clause of specificational pseudoclefts:*

a. a free relative

(cf. *what John did is a disgrace*)

b. a *wh*-question

(cf. *I wonder what John did*)

c. a third type

In the literature on specificational pseudoclefts, both positions in (264a,b) have been taken — see Akmajian (1979), Blom & Daalder (1977), Heggie (1988), Declerck (1988), Guéron (1992) and references cited there for proponents of (264a); see Clifton (1969), Faraci (1970), Ross (1972), Seuren (1985), Den Dikken et al. (2000) and references cited there for adherents of (264b).
The issue is certainly not straightforwardly settled. The fact that it has turned out to be extremely contentious finds its roots in the fact that neither (264a) nor (264b) fits like a glove — on both sides there are familiar properties which fail to be matched by the wh-clause of specificational pseudocLEFTs. We will structure the discussion as follows. Section 5.1 will discuss general theoretical and conceptual arguments in favor of the two approaches in (264a) and (264b). Section 5.2 is subsequently devoted to specific empirical pros and cons of the free relative approach, which, as we will see, typically can be cashed in as arguments in favor of the wh-question analysis. Section 5.3 then presents a list of problems for the wh-question approach, which, conversely, fall into place on the free relative approach. Finally, section 5.4 addresses problems shared by both approaches, and considers option (264c).

5.1 General theoretical and conceptual issues

For proponents of a predicational approach to specificational pseudocLEFTs (of all sorts) according to which the wh-clause functions as a (small clause) predicate (cf. section 4.1.2, above, for discussion), a free relative approach to the wh-clause is of course the only option — questions cannot be used predicatively:

(265)  
a. Home is where the heart is.

b. *Home is whether you like it there.

On the other hand, for those who do not subscribe to a predicational analysis, there is no argument here in favor of a free relative approach to the wh-clause.

Proponents of the free relative approach may also capitalize on the fact that the wh-clause of specificational pseudocLEFTs typically alternates with a headed relative, with heads like one/thing/reason/time/way etc. (the ‘th-cLEFTs’ of Collins 1991). The properties of such ‘th-cLEFTs’ are very similar to those of specificational wh-cLEFTs; as a result, scholars have generally analyzed them on a par. If they are indeed identical in their distribution, this may be taken as an argument to liken the wh-clause of wh-cLEFTs to a relative clause construction. Hankamer (1974) stresses more than once, however, that the two, though similar, are not identical, saying that the headed relative cases ‘identify rather than predicate; and that the allowable subjects of these constructions are very restricted, and do not include [headed relative] clauses’ (fn. 9). We should be careful, therefore, not to attach too much weight to the fact that the wh-clause of a specificational pseudocLEFT can sometimes be replaced with a headed relative.42

As for the wh-question approach, its general advantage is that it captures the connection between specificational pseudocLEFTs and question-answer pairs, which many scholars have drawn a good deal of attention to (see Faraci 1970, Ross 1972, Akmajian 1979, Higgins 1979, etc., and more recently, Ross 1999, Den Dikken et al. 2000, Schlenker 2003, Romero 2005); see (266):

(266)  
a. What John does for a living is write novels.

b. What does John do for a living? — Write novels.

Ross (1999) points out specifically that the wh-clause of a specificational pseudocLEFT corresponds to what he calls a ‘conjunctive question’, as distinct from a ‘disjunctive question’ — these are different in that the answer to the former ‘is presupposed to be known to someone in the sentence ... whereas for disjunctive questions, no answer is known’ (Ross 1999).

42 See also Den Dikken et al. (2000:section 4.3) for a way of extending the wh-question analysis to ‘th-cLEFTs’, by treating examples like The (one) thing he didn’t do was drink any wine as reduced variants of wh-cLEFTs of the form What the (one) thing he didn’t do was, was drink any wine (see also Ross 1999 on what he calls ‘nominalized questions’). As they point out, such an analysis may afford one a perspective on the ‘double is’ phenomenon in sentences like *The reason is is (that) ...
The interpretive connection between specificational pseudoclefts and question–answer pairs could in principle be established in ways other than one which takes the *wh*-clause of the former to be a *wh*-question: the link could, for instance, be established at the level of semantics or even pragmatics. Akmajian (1979:78ff.) argues, however, that exactly when it comes to the semantics, the *wh*-clause of specificational pseudoclefts is in fact not identical with *wh*-questions in one important respect: referentiality. He makes the point that the *wh*-clause of specificational pseudoclefts is referential while a *wh*-question is not on the basis of empirical arguments which we will address in more detail below. On a higher theoretical plane, however, matters of referentiality are extremely contentious precisely in the domain of specificational copular sentences (cf. the discussions in Blom & Daalder 1977, Higgins 1979, Declerck 1988 and Keizer 1992; see section 1, above, for an overview).

Schlenker (2003) and Romero (2005) argue that the question–answer pair approach should even be extended to specificational copular sentences whose constituent representing the variable is not a *wh*-clause. Romero treats the variable of double-NP specificational copular sentences as a concealed question, on a par with the noun phrases in the complement of the verb in (267a) and (268a), which correspond to the full *wh*-questions in the b–sentences:

(267) a. John asked the time.
    b. John asked what the time was.

(268) a. They knew/guessed/announced the winner.
    b. They knew/guessed/announced who was the winner.

Heycock (2012) adopts Romero’s analysis because it is better able to account for the pronominalization facts of double-NP specificational copular sentences with variable<value orders than competing accounts — recall the discussion of (127), above.

In what follows, we will examine empirical arguments for or against the two major approaches to the *wh*-clause of specificational pseudoclefts, (264a) and (264b).

5.2 Empirical evidence against free relatives and in favor of *wh*-questions

(i) The ban on -ever (cf. section 3.2) One respect in which the *wh*-clause of specificational pseudoclefts differs empirically from free relatives, and instead patterns with *wh*-questions, concerns the distribution of -ever. We have come across this fact in section 3.2: while free relatives freely allow the addition of -ever, the *wh*-clause of specificational pseudoclefts does not (cf. (269) with (271)); in this respect it is like a *wh*-question (cf. (270)).

(269) What(ever) John does is interesting. [free relative]

(270) I wonder what(*ever) John does. [wh-question]

(271) What(*ever) John does is write novels. [specificational pseudocleft]

Heggie (1988) and Iatridou & Varlokosta (1998) seek to derive this fact from a predicate approach to the free relative, but as was discussed in section 3.2, this line of thought is problematic. As far as we can tell, the ban on -ever stands out as an unresolved problem for an analysis of the *wh*-clause as a free relative. (See also Dayal 1997 for an attempt at empirically undermining the problem; her examples do not successfully alleviate the problem, however: see fn. 37, above, for discussion.)
(ii) *PP pied-piping* (cf. section 3.3) Another property of the *wh*-clause of specificational pseudoclefts that has been noted before in this work (cf. section 3.3, above) and which plays a role in the debate concerning the analysis of the *wh*-clause is the fact that PP pied-piping is allowed inside this clause in some languages (though not in all), crucially despite the fact that those languages strictly forbid pied piping in free relatives (cf. esp. Den Dikken et al. 2000:72 for discussion).

\[(272)\]  
free relative

*Mit wem Maria gesprochen hatte kam gerade ins Zimmer.  
with whom Maria spoken had came just into-the room

\[(273)\]  
*wh*-question

Mit wem hat Maria gesprochen?  
with whom has Maria spoken

\[(274)\]  
specificational pseudocleft with *wh*<XP order

Mit wem Maria gesprochen hatte, war mit Peter.  
with whom Maria spoken had was with Peter

It should be pointed out, however, that PP pied-piping works only in those specificational pseudoclefts that have a word order in which the *wh*-clause precedes the value-XP: (275) is ungrammatical.

\[(275)\]  
specificational pseudocleft with *XP*<wh order

*Mit Peter war mit wem Maria gesprochen hatte.  
with Peter was with whom Maria spoken had

This is one of a variety of ways in which specificational pseudoclefts with *wh*<XP order are different from their congeners with *XP*<wh order. We will encounter more of these in what follows. For Den Dikken et al. (2000) these mismatches are an important argument for an analysis which assigns different underlying syntactic structures to the two types of specificational pseudocleft: a topic–comment structure for *wh*<XP and a free relative structure for *XP*<wh. The latter analysis will of course straightforwardly relate the ill-formedness of (275) to that of the free relative construction in (272), while a topic–comment structure in which the *wh*-clause is analysed as a *wh*-question accommodates the link between (273) and (274).

(iii) *Multiplicity* Free relatives in languages like English do not allow multiple *wh*-elements inside them — (276) is ungrammatical. Multiple interrogation, on the other hand, is perfectly possible in such languages, as shown in (277). The distribution of multiple *wh*-elements thus constitutes another testing ground for the hypotheses in (264a) and (264b).

\[(276)\]  
*Who ordered what* should come fetch it at the counter.  
[free relative]

\[(277)\]  
I would like to know *who ordered what*.  
[wh-question]

Testing the hypotheses against this criterion actually turns out to be somewhat tricky, however. What one needs here is examples involving a rather complex value-XP: one which contains values for all the *wh*’s in
the \textit{wh}-clause. The kinds of pseudoclefts one is then confronted with are the kinds of cases which involve a full-clausal postcopular constituent (which, if the conditions are met, may undergo some degree of ellipsis). Such pseudoclefts (illustrated in (278)) do not meet with general enthusiasm among native speakers, however: while Ross (1972) accepts them, Akmajian (1979) does not like them, and Higgins (1979:86) finds them ‘irremediably anacoluthic’. In (249), we present some attested examples from Geluykens’s (1984) corpus-based study of English clefted sentences.\footnote{Notice that these corpus examples all involve \textit{do} in the \textit{wh}-clause; pseudoclefts with full–IP counterweights whose \textit{wh}-clause features \textit{do} rather than a substantive verb are much more widely accepted, and, as was pointed out in (64), also behave differently when it comes to reversibility.}

\begin{enumerate}
\item[(278)] %What Tom ordered was Tom ordered a beer.
\item[(279)] a. All you do is you turn it in to the red mark.
\item b. All I did was I did Montaigne.
\item c. What you do is you look at the return.
\item d. What you do is you go.
\end{enumerate}

In the light of this (see also section 6.1, below), it therefore will not surprise the reader that Ross’s judgment of multiple \textit{wh}’s in specificational pseudoclefts differs from that reported by Akmajian and Higgins — the following examples reproduce their respective illustrations:

\begin{enumerate}
\item[(280)] a. %Who ordered what was Tom (ordered) a beer and Jim a watermelon flip.
\item b. %Who ate what was Jane ate spaghetti and Chica (ate) hamburger. \hfill (Ross 1999)
\item[(281)] *Who kissed whom was John kissed Mary. \hfill (Akmajian 1979:76)
\item[(282)] *What Mary gave who was John a book. \hfill (Higgins 1979:67)
\end{enumerate}

\begin{itemize}
\item It may well be that there is substantial dialectal and idiolectal variation when it comes to multiplicity. Thus, while for Dutch Blom & Daalder (1977) report that it fails (see (283)), Meinunger (1997) presents grammatical examples for German (see (284)).\footnote{It may be important that the ‘counterweight’ in (283)–(284) features only a \textit{single} pair of values for the \textit{wh}-phrases in the \textit{wh}-clause, whereas in Ross’s examples in (280) a pair list is provided in the ‘counterweight’. The difference between Dutch (283) and German (284) may then be related to that between Hungarian (i) and (ii) (cf. É. Kiss 2001): in (i), regular multiple \textit{wh}-questions with fronting of all the \textit{wh}-phrases to a left-peripheral focus position, the \textit{wh}-constituents do not have to operate on the same domain (e.g., humans) and a pair-list answer is required; in (ii), only one \textit{wh}-constituent fronts, the other remaining \textit{in situ}, and here the \textit{wh}’s must operate on the same domain (e.g., humans) and a pair-list answer is not required. Going back to (283) \textit{vs} (284), we note that in the former the \textit{wh}-constituents (‘what’ and ‘where’) do not operate on the same domain, whereas in the latter they do; in the light of the Hungarian facts, only the latter will hence be compatible with a single-pair ‘counterweight’.}
\item[(i)] a. Ki kivel verekedett? [pair-list required]
\item who who-with fought
\item b. Ki mit mondott?
\item who what said
\item ‘who fought with whom?’
\item ‘who said what?’
\end{itemize}
The variability of the judgments certainly raises questions. But what one may conclude at the very least is that multiplicity is not universally rejected in specificational pseudoclefts — at least, not in those with wh<XP word order; it is entirely impossible in XP<wh cases (see (285), (286)). When one compares this to the fact that there is no variation among speakers at all when it comes to the ungrammaticality of multiplicity in free relatives in the languages considered (English, Dutch, German), examples like (280) and (284) present us with at least a weak case against the free relative approach to the wh-clause of specificational pseudoclefts with wh<XP order. At the same time, the categorical unacceptability of (285)–(286) tells us that specificational pseudoclefts with the order XP<wh do not feature a wh-question; the properties of their wh-clause are in fact similar to those of free relatives. (See Den Dikken et al. 2000 for discussion.)

(iv) **Topicalization inside the wh-clause**  Free relatives categorically disallow topicalization — regardless of whether the topic is placed to the left or to the right of the wh-word (cf. (287)). English wh-questions, on the other hand, have been noted to be compatible with topicalization — and as Pesetsky (1989) notes, the position of the topic is different in root and embedded wh-questions: in the former, the topic must precede the wh-phrase, while in the latter, the topic follows the wh-phrase (cf. (288) and (289)). The wh-clause of specificational pseudoclefts differs radically from free relatives: it allows topicalization. As a matter of fact, it allows it on either side of the wh-word (cf. (290)). This was first pointed out in Den Dikken et al. (2000:71).

(287)  a. *[To Mary, what he gave] caused a scandal.  [free relative]
    b. *[What to Mary, he gave] caused a scandal.

(ii)  a. Ki verekedett kivel?   [single-pair possible]
    who fought who-with

    b. *Ki mondott mit?
    who said what
(288) a. "To Mary, what will he give?" [root wh-question]
b. *What <will> to Mary, <will> he give?

(289) a. *He doesn’t know [to Mary, what he should give]. [emb. wh-question]
b. "He doesn’t know [what to Mary, he should give]."

(290) a. "[To Mary, what he will never give] is any wine." [spec. pseudocleft]
b. "[What to Mary, he will never give] is any wine."

Interestingly, then, while the wh-clause of specificational pseudoclefts certainly does not behave like a free relative when it comes to topicalization, it seems to blend the properties of root and embedded wh-questions. Den Dikken et al. conclude from this that the wh-clause of specificational pseudoclefts is indeed a wh-question — but it is neither a root question nor an embedded question; it is a hybrid case with properties of both types of question.

We stress this here because most of the arguments against the wh-question analysis have been directed specifically towards an analysis of the wh-clause of specificational pseudoclefts as an embedded question, as we will see in the next section.45

5.3 Empirical evidence against wh-questions and in favor of free relatives

(v) Determiners (Izvorski 1997, Alexiadou & Giannakidou 1998, Ross 1999) While the previous section concerned itself with problems for a free relative approach to the wh-clause of specificational pseudoclefts, something which seems to stand out as a strong recommendation for such an analysis is the fact that in languages like Bulgarian (Izvorski 1997) and Greek (Iatridou & Varlokosta 1998, Alexiadou & Giannakidou 1998; the latter also refer to Spanish and Catalan), the wh-clause of these constructions is obligatorily adorned with an affixal definite determiner (see (291) for Bulgarian, and (292) for Greek). In these languages, such an affixal determiner is typical of free relatives; it never occurs on wh-questions in Bulgarian and Greek.46

45 Before moving on to the next section, we add here one further respect in which the wh-clause of specificational pseudoclefts seems to pattern with wh-questions rather than free relatives. When free relatives undergo coordination, it is possible (as Jespersen 1961:vol. III, p. 61) points out, for the wh-element of the second conjunct to be which rather than what (see (i)). When, on the other hand, the wh-clause of a specificational pseudocleft is conjoined with another wh-clause, it seems impossible to use which in the second conjunct, what being the only possibility. The examples in (ia,b) with what are taken from Declerck (1988:220) and Geluykens (1984), respectively (the latter being a corpus-based study); replacing what with which in these examples seems to render the sentences ungrammatical, just like it would in coordinated wh-questions.

(i) To assert what cannot be proved and which, were it true, annihilates all hope of existence after death.
   (Percy B. Shelley)

(ii) a. What we have always wanted to know but what/*which the government has never wanted to tell us is what exactly happens at secret conferences.

b. What they are thinking of and what/*which they will probably come up with at the end of the day is a proposal for a cassette tape of the whole bloody issue.

46 In Portuguese, the definite article also occurs on the wh-element of a free relative and of the wh-clause of specificational pseudoclefts; but for this language, this is less informative, since the definite article also appears on the wh-constituent of wh-questions: O que é que aconteceu? ‘what happened?’).
(291) Kakvo-*(to)  pro  kaza  bese  ce  Maria  e  umna.
what-DEF said was that Maria is smart
‘What he said was that Maria is smart.’

(292) Afto pu  ipe  o  Kostas  ine  oti  i  ji  ine  epipedi.
this that said the Kostas is that the earth is flat
‘What Kostas said is that the earth is flat’

As Den Dikken et al. (2000:71, fn. 23) point out, however, specificational pseudoclefts in these languages are characterised by two further properties which make them different from their English congeners: (i) they never allow full–IP ‘values’, and (ii) they never exhibit connectivity with respect to negative polarity item licensing. They might hence instantiate their ‘Type B’.47

(vi) No yes/no–questions (Huddleston 1971:243, Akmajian 1979:76) The second problem for an assimilation of the wh-clause of specificational pseudoclefts to (embedded) wh-questions springs to mind immediately. While non-root questions come in two flavors (constituent questions and yes/no-questions introduced by whether), the wh-clause of specificational pseudoclefts comes only in one:48

(293) a. What John did was unclear.
b. Whether John did it (or not) was unclear.

(294) a. What John did was kiss Mary.
b. *Whether John did it (or not) was {yes/he did}.
   *Whether John did it (or not) was {no/he didn’t}.

A free relative approach to the wh-clause of specificational pseudoclefts encounters no difficulty accounting for the deviance of (294b): there are no free relatives with whether (for the same reason that there are no relative clauses with whether either). On the other hand, from the perspective of proponents of the view that there is a close syntactic relationship between question–answer pairs and specificational pseudoclefts (with wh<XP orders), the ungrammaticality of (294b) is apparently surprising — after all, yes/no question–answer pairs of the type in (295) are perfectly well-formed.

(295) Did John do it (or not)?
a. (Yes,) he did.
b. (No,) he didn’t.

47 Note that the wh<XP word order that these pseudoclefts display indicates that ‘Type B’ pseudoclefts are not restricted to XP<wh orders, contra what Den Dikken et al. (2000) tentatively assume.

48 That if does not occur in the wh-clause of specificational pseudoclefts either is of less interest: if is ruled out as the complementizer of subject questions as well (*If John did it (or not) was unclear).
Notice, though, that (295) involves a root question, not an embedded question, whereas a yes/no question introduced by *whether* is unambiguously a non-root question. Recall in this connection that, as we saw in the discussion of (290), above, the *wh*-clause of specificational pseudoclefts appears to blend the properties of root and embedded *wh*-questions. Yes/no questions come in just two flavors: unambiguously root, and unambiguously non-root. It is perhaps for this reason that specificational pseudoclefts such as those in (294b) do not exist. If this line of thought can be upheld, (294b) poses no problem for the question–answer pair approach.

(vii) *No adverbs* (Blom & Daalder 1977:22, Akmajian 1979, *contra* Faraci 1970) Faraci (1970), who is an early champion of the *wh*-question analysis, mentions as one of the arguments in its favor the fact that adverbs like *exactly* can be added to both the *wh*-clause of specificational pseudoclefts and *wh*-questions, but not to free relatives. Akmajian (1979:75) points out, however, that he does not accept Faraci’s pseudocleft example in (296a); likewise, Blom & Daalder (1977:22) present a Dutch triplet which makes the pseudocleft pattern with free relatives rather than with *wh*-questions (cf. (297)–(299); in (298) we have corrected a word order mistake in Blom & Daalder’s original example).

(296)  
(a) %What, exactly, John bought was a car.  
(b) What, exactly, John bought is not clear.  
(c) *I threw out what, exactly, John bought.

(297) *Wat ik precies gezegd heb was dat samenwerking niet meevalt.

what I exactly said have was that cooperation not with-falls  
(i.e., isn’t easy)

(298) Ik herinner me niet wat ik precies gezegd heb.

I recall me not what I exactly said have

(299) *Wat ik precies gezegd heb gelooft hij niet.

what I exactly said have believes he not

(viii) *No clefting inside* *wh*-clause (Blom & Daalder 1977:22, Akmajian 1979, *contra* Faraci 1970) (cf. section 3.3) Faraci (1970) also claims that the *wh*-clause of specificational pseudoclefts can contain a cleft. But most authors (cf. Akmajian 1979 for English, Blom & Daalder 1977 for Dutch) disagree and find such combinations impossible.

(300) %What it is that John bought was a car.

For those speakers (the vast majority) for whom (300) is bad, it appears at first sight that there is a difference between the *wh*-clause of specificational pseudoclefts and both *wh*-questions and free relatives (*contra* Blom & Daalder 1977:22) — (301) is grammatical, and so is the free relative examples in (302) (cf. Akmajian 1979:80).

(301) I don’t know what it is that John bought.

(302)  
(a) Whatever it was that John bought cost him a lot of money.  
(b) She threw away whatever it was that John bought.
Thus, while Faraci (1970) construes (300) (which he finds grammatical) as an argument in favor of a wh-question approach, and while Blom & Daalder (1977:22) bring up a Dutch example very much like (300) (which they find ungrammatical) as evidence in favor of a free relative approach to the wh-clause of specificational pseudoclefts, neither argument goes through unscathed: as Akmajian points out, the wh-clause of specificational pseudoclefts is identical neither with wh-questions nor with free relatives.

As Akmajian goes on to point out, however, it is not just any free relative that accepts internal clefting: replacing whatever with what in (302) delivers a substantially degraded result. The generalization seems to be that 'non-referential clauses may occur in clefted form' (Akmajian 1979:81; original emphasis); addition of -ever makes free relatives non-referential. If this is correct, the fact that clefting inside the wh-clause of specificational pseudoclefts is impossible will reduce to the same factor that is responsible for the impossibility of -ever in such clauses: their referentiality (see also (ix), immediately below). In having the ability to be referential, the wh-clause does indeed pattern with free relatives rather than with wh-questions, which obviously cannot be referential in any context.

(ix) Appositive relative clauses (Akmajian 1979:80) In the same context in which he assesses the cleft-cum-pseudocleft argument, Akmajian (1979:80) also brings up an additional argument (original with him) that casts doubt on the wh-question status of the wh-clause of specificational pseudoclefts, and enhances their free relative-hood. The argument is based on the fact that appositive relative clauses can be added to the wh-clause of specificational pseudoclefts but not to wh-questions (see (303) vs (304)). Once again, the wh-clause of specificational pseudoclefts patterns with free relatives (see (305)) rather than with wh-questions — as a function of its referentiality, according to Akmajian. (See also Heycock & Kroch 1999 on the grammaticality of appositive relativization of each of the two terms of equative copular sentences as an argument for their referentiality.)

(303) What John got from his father yesterday, which was very expensive, was that Jaguar XKE.
(304) *What John got from his father yesterday, which was quite expensive, is a mystery.
(305) What John got from his father yesterday, which was very expensive, was broken two days later.

(x) Else/ever (Akmajian 1979:75) Problematic for the question analysis of the wh-clause of specificational pseudoclefts as well is the fact, pointed out by Akmajian, that else and ever, while fine in wh-questions, are impossible in pseudoclefts: while (307) is perfectly, (306) is ungrammatical. Though Akmajian does not provide free relative examples, the sentences in (308) show that what we are dealing with here is another property of the wh-clause of specificational pseudoclefts which makes it pattern with free relatives and not with wh-questions.

(306) a. *What else he bought was a car.
b. *What he ever worked on was his thesis.
(307) a. What else he bought is not clear.
b. What he ever worked on is simply not known.
(308) a. *What else he bought was very expensive.
b. *What he ever worked on took him a long time to finish.

49 The same argument can be built on the distribution of parentheticals (see Akmajian 1979:102, fn. 28); this will not be shown here.
Any (Akmajian 1979:76) Akmajian makes a similar point by drawing attention to the distribution of the negative polarity item any — it is found in wh-questions but not in the wh-clause of specificational pseudoclefts, nor (though Akmajian again does not show this himself) in free relatives:

(309) *What makes any sense is not John’s theory.

(310) What anyone can do about the war is unclear.

(311) *What anyone can do about the war is not important.

This observation addresses the relationship between the wh-clause and the external negation rather than the internal syntax of the wh-clauses themselves. Even (310) becomes unacceptable when unclear is replaced with clear. So the polarity item depends for its licensing on the negative prefix in this example. The adjective unclear in (310) is arguably an ergative adjective (see Cinque 1989), c-commanding the wh-clause in the underlying representation of this example. In (311) there is no a c-command relationship between the negation and the wh-clause at any point in the derivation. In (309), an analysis that treats the wh-clause of a specificational pseudocleft as a free relative serving as the underlying predicate of the small clause will have the wh-clause base-generated in the complement of the copula. This could potentially get the wh-clause containing the polarity item c-commanded by not, and thus get the any-NPI licensed in the same way as in (310). The grammaticality contrast between (309) and (310) would then be construable as an argument against a free-relative approach to the wh-clause of specificational pseudoclefts.

Such an argument against a free-relative approach has no force, however. For recall from the discussion in section 3.2.1 that Higgins (1976:321) points out for English that ‘the copula in a Specificational pseudo-cleft cannot have a “straight” negation of the predicate, but at best only some kind of contradiction negation’. This ‘contradiction negation’ has narrow scope, and is incapable of licensing a polarity item in any constituent other than the one that it is itself construed with: John gave not a book to {Mary/*anyone} but a bouquet. So even if the wh-clause in (309) is a free relative originating as the predicate of the small clause in the complement of the copula, the negation still will be unable to license any inside the wh-clause.

In the foregoing we have found that there are a number of reasons to use care when assessing the claim that the parallelism between question–answer pairs and specificational pseudoclefts suggests an analysis of the wh-clause of the latter as a wh-question. There are a number of respects in which the two differ; and in some of those cases we actually find that there is in fact a closer kinship between the wh-clause of specificational pseudoclefts and free relatives (though the relationship between those two is by no means one of identity either).

5.4 Problems either way

No matter which tack one takes when it comes to the analysis of the wh-clause, one inevitably runs up against the problem that there at least two respects in which it behaves neither like a free relative nor like a wh-question.

No complementizers (Blom & Daalder 1977:22) According to Blom & Daalder (1977:22), of ‘if’ does not occur in the wh-clause of Dutch specificational pseudoclefts — not just when it is ‘on its own’ (in a yes/no-question; recall point (vi), in the previous section) but also when it follows a wh-word (in constituent questions, which in spoken varieties of Dutch allow sequences of a wh-word/phrase and the complementizer of; see e.g. Zwart 1997 for exemplification):

(312) a. Wat Jan gedaan had was onduidelijk.

what Jan done had was unclear
b. Of Jan het gedaan had was onduidelijk.
if Jan it done had was unclear

c. Wat of Jan gedaan had was onduidelijk.
what if Jan done had was unclear

(313) a. Wat Jan gedaan had was Marie kussen.
what Jan done had was Marie kiss

b. *Of Jan het gedaan had was {ja/inderdaad}.
if Jan it done had was yes/indeed

c. ?*Wat of Jan gedaan had was Marie kussen.
what if Jan done had was Marie kiss

Blom & Daalder (1977:22), who draw attention to the deviance of (288c), point out that in this respect the \textit{wh}-clause of specificational pseudoclefts bears a resemblance to free relatives, which likewise do not allow \textit{wh}-sequences (see also Boef 2012):

(314) *Wat of ik zeg valt niet in goede aarde.
what if I say falls not in good earth

However, while we agree that (313c) is deviant, it does seem that it is noticeably less bad than the free relative case in (314), which is entirely impossible. If this is right, it makes the \textit{wh}-clause of specificational pseudoclefts a kind of hybrid of free relatives and embedded \textit{wh}-questions.

It is important to point out at this time that Blom & Daalder’s argument based on (313) is built on the premise that, if the \textit{wh}-clause of a specificational pseudocleft is to correspond to a \textit{wh}-question to begin with, it should resemble an embedded \textit{wh}-question rather than a root \textit{wh}-question — a premise which, in its turn, is based on the impression that the \textit{wh}-clause finds itself in clause-internal position, hence cannot itself be a root clause. But we have seen in the examples in (290) (from Den Dikken \textit{et al.} 2000) that the \textit{wh}-clause of specificational pseudoclefts is neither a pure embedded clause, nor exactly like a root clause: it has properties in common with both (in particular, it allows topics to be positioned either to the left or to the right of the \textit{wh}-element in English). \textit{Tertium datur}, in other words: there seem to be \textit{wh}-questions which are neither root nor embedded clauses, thanks to their unique position in the syntactic tree structure (the SpecTopP position of Den Dikken \textit{et al.} 2000). In this respect, option (264c) is presumably closer to the truth than pure versions of (264a) or (264b).

This said, the fact that the complementizer of is not perfect in Blom & Daalder’s example (313c) is less of a surprise than Blom & Daalder make it out to be. In effect, we may want to liken the \textit{wh}-clause of specificational pseudoclefts to echoic \textit{wh}-questions of the type illustrated in (315b), which likewise seem to have a status in between root and non-root clauses — non-root when it comes to word order; root with respect to the fact that it does not appear to be embedded under any predicate. In both these respects, it matches the \textit{wh}-clause of pseudoclefts on the analysis of ‘Type A’ specificational pseudoclefts propounded in Den Dikken \textit{et al.} (2000). It is interesting to note, therefore, that adding of to (315b) seems somewhat less acceptable than it is in run-of-the-mill embedded \textit{wh}-questions.\footnote{The parallelism between (313c) and (315b) can presumably be strengthened by considering the distribution of the complementizer dat ‘that’ in combination with (of and) \textit{wh}-phrases: Wat of dat ik gedaan heb ‘what or that I done have’ is good in embedded questions (in those varieties that allow these constructions to begin with), but it seems impossible in a context such as}
(315)  a. Speaker A: Wat heb je gedaan?
   what have you done

   b. Speaker B: Wat (of) ik gedaan heb? — De auto gewassen.
   what if I done have the car washed

Whatever the precise outcome of this discussion, it seems clear that, if the *wh*-clause of specificational pseudoclefts is to be likened to *wh*-questions at all, it must be assumed to be a cross-breed of a root and a non-root question. Possibly, this hybrid root/non-root clause could embody precisely those properties of free relatives that are shared by the *wh*-clause of specificational pseudoclefts. It seems unlikely, though, that it will also help us explain one other respect in which the *wh*-clause of specificational pseudoclefts is like no other *wh*-construction in the grammar:

(xiii) *Restrictions on wh* (cf. section 2.1) Most English speakers do not accept *who* — or at least not very readily — as the *wh*-element of the *wh*-clause of specificational pseudoclefts; the only exception is constituted by pseudoclefts featuring *that* in precopular position (*That’s who I meant*). Likewise, the *wh*-words *why* and *how* are severely restricted in pseudoclefts, as noted in section 2.1. All of these three *wh*-elements occur readily, however, in free relatives with -*ever* (though the presence of -*ever* seems essential here). We are not aware of any approach to the syntax of the *wh*-clause of specificational pseudoclefts which has succeeded in accounting for the restrictions on the form of the *wh*-element.

This concludes our discussion of the vicissitudes of the free relative and *wh*-question analyses of the *wh*-clause of specificational pseudoclefts. On balance, the following tentative conclusions seem legitimate:

- The *wh*-clause of specificational pseudoclefts of ‘Type A’ (see section 2.3) is a hybrid type of *wh*-question, with properties of root and embedded *wh*-questions combined.
- The *wh*-clause of specificational pseudoclefts of ‘Type B’ is a free relative (see esp. the facts from Bulgarian and Greek discussed at the beginning of section 5.3).

Further research will be needed to clarify the precise status of the *wh*-clause of specificational pseudoclefts. For completeness’ sake, we note in closing that for *predicational* pseudoclefts there is no doubt about the fact that the *wh*-clause of these constructions is a free relative.

6 Analyses of the relation between specificational pseudoclefts and simple sentences: Transformation or base generation?

The reason why generative linguists became interested in specificational pseudocleft sentences in the early days of transformational grammar is not difficult to see — specificational pseudoclefts have a close relationship with their simple clause counterparts, and it seemed clear that a transformational theory of grammar should somehow be able to capture this relationship in transformational terms. The urge to meet this desideratum led to two competing types of transformational approach to specificational pseudoclefts:


(315b) or in specificational pseudoclefts. These data have not, to our knowledge, been discussed in the literature before; further research is called for.
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In response to these two transformational analyses, for which he listed a variety of problems, Higgins (1979) defended a non-transformational account, adopted also by Blom & Daalder (1977):

• the base generation analysis (Higgins 1979, Blom & Daalder 1977)

In the more recent principles-and-parameters literature, the restrictions on movement transformations are substantially stricter than they were in the sixties and seventies. Not surprisingly, therefore, the extraction analysis (which picks the value-XP up from out of the wh-clause and raises it to postcopular position) has been abandoned in current p&p-based work almost without exception — a notable non-conformist approach being presented by Bošković (1997), which in a sense reverses the classic extraction analysis by lowering the value-XP into the wh-clause (in covert syntax), thereby creating the simple sentence covertly out of its complex overt counterpart. Heycock & Kroch (1999) propose a different type of covert operation (later in the covert component, beyond LF proper) with the same effect of covertly reshaping the pseudocleft into its simple sentence paraphrase. We may refer to these two approaches jointly as follows:

• the covert reconstruction analysis (Bošković 1997, Heycock & Kroch 1999)

All the various approaches to the (overt and covert) syntax of specificational pseudoclefts are meant to serve, in one way or another, the general purpose of accounting for the parallels between these and their simple clause counterparts — especially when it comes to connectivity/connectedness effects, which have played a major role in the discussion throughout the decades.

It is our purpose in what follows to give brief outlines of the various types of analysis of specificational pseudocleft constructions summed up in the previous paragraphs, with short discussions of their pros and cons (as they have been noted in the extensive literature on the construction). For detailed discussions, we refer the reader to the references provided at each point.

6.1 Deletion analyses

We will start our discussion with some remarks about the deletion analysis. It was first proposed by Peters & Bach (1968), and also adopted by Emonds (1970), Ross (1972) and Seuren (1985); in recent years, Ross (1997), Schlenker (2003) and Den Dikken et al. (2000) have revamped the account (the last-mentioned only for one particular subset of specificational pseudoclefts: their ‘Type A’ cases, which feature wh-XP exclusively, and are characterized by the fact that they and only they allow for case and NPI connectivity between the wh-clause and the postcopular value).

The deletion analysis is easy to describe in general terms. It assumes that the postcopular constituent of a specificational pseudocleft such as What John read was novels is a full-fledged clause corresponding to the clause contained in the wh-constituent in pre-copular position. Ellipsis rules subsequently come in to reduce the underlying full clause to that subpart of it which is pronounced on the surface.51

51 In (316), the ellipsis in the counterweight clause is presented, for simplicity, as a case of non-constituent ellipsis. In Wilder’s (1997) theory of ellipsis, such non-constituent ellipsis is straightforwardly allowed: Wilder’s approach takes ellipsis to target the maximal string down to the focus. The more recent literature on ellipsis (with Merchant’s 2001 work as the centerpiece) has generally insisted on the idea that ellipsis can only target syntactic constituents. On such an approach, (316) would have to involve a derivation in which the material spared by ellipsis is removed from the phrase targeted by ellipsis, for instance via a topicalization operation. What makes such a derivation potentially problematic is the fact that the remnant of ellipsis in ‘Type A’ specificational pseudoclefts can be a polarity item dependent for its licensing on a negation in the elliptical portion of the full-IP counterweight (What nobody brought was nobody brought any wine): topicalization of NPIs to a position not c-commanded by negation is usually
Ellipsis inside the full-clausal postcopular constituent is optional in principle: when it does not apply, the result is a specificational pseudocleft of the type in (317b), which, as Ross (1972:89, 1999) has stressed in particular (see also Clifton 1969:38, Kayne 1998:26, Schlenker 2003, Den Dikken et al. 2000), is acceptable in spoken varieties of English — though this is a topic of some debate in the literature. To Higgins (1979:86) these sentences sound ‘irremediably anacoluthic’ (see also Blom & Daalder 1977:20 for the claim that they are impossible in Dutch; but see Drubig 1997 for attested examples from German). But Seuren (1985:297) declares in characteristically eloquent terms that ‘[t]his construction type is extremely common in spoken English of all sociolinguistic levels, even though some who frequently use it will hotly deny that they do’.

(317) a. What John read was novels.
   b. What John read was he read novels.

The occurrence of full-clausal values in specificational pseudoclefts serves as one of the key arguments for the deletion analysis.

Blom & Daalder’s (1977) attempt as discrediting this argument for the deletion analysis based on the fact that the post-copular clause may not contain a complementiser (cf. *What John read was that he read novels) has little force — it seems to be built on the premise that the only thing the postcopular clause could be is an embedded clause; but on Den Dikken et al.’s (2000) deletion analysis, it actually functions as the root of the pseudocleft construction as a whole.

An argument that has been taken to recommend this analysis is the fact that it straightforwardly captures the links between specificational pseudoclefts and question–answer pairs. We discussed these links in section 5, above; see especially Den Dikken et al. (2000) for a detailed investigation of the parallels between the two construction types.

Apart from these considerations, Peters & Bach (1968) mention the grammaticality of such specificational pseudoclefts as (318) as a further argument in favor of the deletion analysis:

(318) What I saw was Mary.

On the deletion analysis, the selectional restrictions of the verb are met in both the wh-clause (by what) and the (underlyingly clausal) postcopular value (by Mary): What I saw was [saw Mary]. No clash in features will arise between what and Mary, simply because what is not actually a ‘replacement’ of Mary on the deletion analysis (it would be on the extraction analysis).

impossible (contrast Nobody brought any wine with *Any wine, nobody brought). This would seem to draw the curtain on the idea of deriving NPI-connectivity in specificational pseudoclefts with an appeal to constituent ellipsis. But that might be too hasty a conclusion. It may be that the problem with *Any wine, nobody brought can be fixed precisely by ellipsis of the material following the fronted topic. The problem with topicalizations such as these is that, in its position in the left periphery, the NPI immediately precedes the comment, which makes it serve as a topic in a topic-comment structure — which NPIs resist because of their quantificational properties. But when the comment clause undergoes ellipsis in its entirety (as in What nobody brought was [any wine]) nobody brought], the fronted NPI does not immediately precede anything: the NPI is clause final, following a topical wh-clause.

At PF, this string is articulated in such a way that the wh-clause receives a topic interpretation and the postcopular value is interpreted as a focus, not as a topic. Despite having raised to exactly the same position that it is raised to in the ungrammatical *Any wine, nobody brought, the NPI in elliptical pseudocleft may be legitimate in this position precisely because of the fact that the clause next to which it lands undergoes ellipsis. This line of reasoning is in line with Erteschik-Shir’s (2007:214) conclusion that information structure is ‘part of the phonological computation’.
Blom & Daalder (1977:17–18) (who also refer to Daems 1974:85 in this context) take care to reject this argument for the deletion analysis, however. They stress that for them, the Dutch counterpart of (318) fails (see (319); note that Akmajian 1979:99, fn. 18 also points out that (318) for him is not perfect), and that even in English it is by no means generally possible to use what as the wh-word of specificational pseudoclefts with a [+human] value (cf. (320)). What the facts show, according to Blom & Daalder, is that what works well in specificational pseudoclefts with a [+human] value only on a ‘non-specific’ interpretation of the value NP (paraphrasable as ‘anyone who ...’ — see (321); cf. also Akmajian 1979:100, fn. 18: ‘Mary ... is abstract in that particular context’). Blom & Daalder suggest (without elaborating) that this non-specific interpretation neutralizes the feature [+human] for the NP in question; and they then go on to point out that, if this is right, Peters & Bach’s original argument in favor of the deletion analysis actually mutates into an argument against: if we do find, after all, that there are general correspondences (when it comes to the feature [+human]) between the wh-word and the value, such is unexpected on a deletion approach to specificational pseudoclefts.

(319) *Wat we zagen was je moeder.
what we saw was your mother

(320) *What I amazed was Mary.

(321) a. Wat ze moeten zien te vinden is iemand met een rijbewijs.
what they must see to find is someone with a driver’s lic.
‘what they will need to find is someone with a driver’s licence’
b. Wat we nodig hebben is iemand met geld.
what we need have is someone with money
‘what we need is someone with money’

So we see that one of the arguments presented in favor of the deletion analysis may actually turn against it in the end. Other problems for the account that have been noted include:

• *there-sentences (see (322); Blom & Daalder 1977, Akmajian 1979):

(322) a. What there was in the car was my hat.
b. *There was my hat in the car.

• *do (see (323); Blom & Daalder 1977)

(323) a. What he did was kiss Mary.
b. *He did kiss Mary.

These two arguments both assume that the postcopular value-clause is identical in all respects with the wh-clause — it contains exactly the same lexical material found in the wh-clause. There is no a priori reason to expect, however, that semantically meaningless material in the wh-clause should be represented in the postcopular clause as well — once one assumes that the postcopular clause in (322a) and (323a) lacks the dummies (there, do) found
in the *wh*-clause, the problems highlighted by the deviance of the *b*-examples do not present themselves. (See also Den Dikken et al. 2000:section 1.5 for discussion of ‘indirect answer’ pseudoclefts, in which there is no direct match between the IP in the *wh*-clause and the postcopular IP.)

In connection with the *do* used in specificational pseudoclefts of the type in (323a) one may wonder whether it is a dummy verb or the lexical verb *do.*\(^{52}\) The fact that it combines with the dummy *do* in negative *wh*-clauses of specificational pseudoclefts and cannot itself host the negation shows that it is not the dummy *do*. On the other hand, the fact that — contrary to what is claimed in Collins (1991:128) — it can combine with stative value-VPs, as in Higgins’s 1979:194 (324), Heggie’s 1988:346 examples in (325) and Geluykens’s 1984 (326), raises questions about the status of *do* as a lexical (activity) verb.

(324) The very first thing he did when he got there was *be* rude to the chairman.

(325) a. What John did was *be* pampered by his mom.
   b. What John did was *be* sick all day.

(326) The thing to do seems to me is to *be* eminently reasonable.

An argument that is related to the previous one based on the distribution of *do* is the following, which concerns the possible occurrence of the infinitival marker *to* in the ‘value’ of specificational pseudoclefts with *do* in the *wh*-clause:

• *to* (see (327b); Heggie 1988:346ff.):

(327) a. What he did was *write* a letter.
   b. What he did was *to* write a letter.

From a deletion perspective, the occurrence of *to* in (327b) is unexpected: *He did to write a letter* is impossible. Plausibly, however, the *to*-infinitive in postcopular position in (327b) should be analysed as a nominal infinitive (as in *To err is human, to forgive divine*). The categorial status of the value-XP (the remnant of ellipsis) in the examples in (327a,b) would then be different; the former would involve a bare VP while the latter would feature a nominal *to*-infinitive. Analyzing the *to*-infinitive as a nominal infinitive still would not help one out on a ‘pure’ deletion approach to specificational pseudoclefts (*do* does not take nominal *to*-infinitival complements); but a deletion analysis is never forced for pseudoclefts whose value-XP is nominal, on the assumption that a base-generation analysis is always available as an alternative in such cases (cf. the discussion in section 6.3, below): nominal constituents can readily be base-generated across the copula.

A related point, once again having to do with the distribution of the infinitival marker, can be made with reference to Dutch specificational pseudoclefts of the type in (328):

(328) a. *Wat ik nooit heb geprobeerd* is brieven *te schrijven.*
   what I never have tried is letters to write

\(^{52}\) We should also note in connection with (323) that on an analysis of ellipsis according to which it must target a syntactic constituent (see fn. 51), the counterweight-IP of (323a) will likely contain a token of *do*: the remnant of ellipsis (i.e., the VP) is topicalized in the counterweight-IP prior to the application of ellipsis; VP-topicalization gives rise to *do*-support (*Kiss Mary, he did*).
b. Wat ik nooit heb geprobeerd is brieven schrijven.

‘What I have never tried is to write letters’

The Dutch verb *proberen* ‘try’ does not normally select *te*-less, bare infinitives (*Ik heb {brieven schrijven} nooit geprobeerd {brieven schrijven} ‘I have never tried to write letters’). But in the pseudocleft in (328b), *te* is dropped with impunity. An analysis of (328b) that treats the bare infinitive as a nominal infinitive can make sense of its grammaticality: in contrast to English, Dutch nominal infinitives are always bare (cf. (*Te) vergissen is menselijk ‘to err is human’).53

The fact that the verb *proberen* ‘try’ is normally unable to select a bare nominal infinitive suggests that (328b) does not support a derivation in which the value-XP is a full clause with ellipsis down to the focus. This, in conjunction with the claim made in Den Dikken et al. (2000) that NPI-licensing in the value is possible only in ‘Type A’ specificational pseudoclefts (i.e., ones featuring a full-IP counterweight), in turn leads to the expectation that when the infinitival marker is left out in the pseudocleft in (328), no NPI should be licensable in the focus. This prediction is confirmed: while (329a) is grammatical, (329b) is not:

(329) a. Wat ik nooit heb geprobeerd is ook maar iets te schrijven.

‘What I have never tried is anything to write

b. *Wat ik nooit heb geprobeerd is ook maar iets schrijven.

‘What I have never tried is anything write

For English (327) a similar prediction is made: if (327b) involves a nominal infinitive, which cannot be selected by the verb *do* (*John did to write a letter*), a deletion analysis should be unavailable for it, which should make it impossible (on Den Dikken et al. ‘s approach to NPI-licensing in specificational pseudoclefts) to feature an NPI in the focus. The facts appear to be in conformity with the prediction (TO BE VERIFIED):

53 The Dutch facts in (328) may also bear on the question (addressed in fn. 51) of whether ellipsis in a ‘Type A’ specificational pseudocleft involves constituent ellipsis (facilitated by topicalization of the material spared by ellipsis) or not. In Dutch cases of topicalization of the complement of verbs like *proberen* ‘try’, which normally select only *te*-infinitives, the infinitival marker *te* can be dropped, as shown in (ib) (Zwart 1993:263; for some speakers, the present author included, dropping *te* is actually the preferred option in (ib)). An analysis of (328) involving ellipsis in the full-IP counterweight would straightforwardly predict the distribution of the infinitival marker *te* in (328) if the material spared by ellipsis must be topicalized prior to constituent ellipsis: on such an analysis, the facts in (328) and (i) are on a par.

(i) a. Ik zou nooit durven proberen brieven *(te) schrijven.

I would never dare try letters to write

b. Brieven *(te) schrijven zou ik nooit durven proberen.

letters to write would I never dare try
Another objection that has been leveled at the deletion analysis in the literature concerns:

- disagreement (see (331); Blom & Daalder 1977):

(331) a. Wie daar staat ben ik.
    who there stands am I

b. *Ik staat daar.
    I stands there

Here again (as in the case of **there** and **do**), the premise on which the argument is based is that there is complete formal identity between the *wh*-clause and the postcopular clause, and that hence an agreement problem arises in the latter (in the light of the deviance of (331b)). Agreement is a surface phenomenon, however. Even if verbs enter the syntactic derivation fully inflected (Chomsky 1995), agreement will involve a checking operation that is performed late enough in the derivation to cause no trouble in (331a): by the time feature checking should be executed, the verb in the post-copular clause will already have been elided (cf. Lasnik 1995 on similar cases of avoidance of checking clashes as a result of ellipsis).

- lack of ambiguity (see (332); Blom & Daalder 1977):

(332) a. Wat hij zich aantrekt is het onschuldigste grapje.
    what he SE onpulls is the most-innocent joke
    ‘What gets him upset is the most innocent joke.’

b. Hij trekt zich het onschuldigste grapje aan.
    he pulls SE the most-innocent joke on
    ‘He gets upset by the most innocent joke.’

The upshot of this argument is that the fact that (332a) is not ambiguous (recall section 3.2, above) while (332b) is, is unexpected if the postcopular constituent in the pseudocleft is in fact identical with (332b). This argument is valid in principle. But conceivably, the breakdown of ambiguity in (332a) could be blamed in its entirety on the *wh*-clause in precopular position, with reference to the fact that (for obvious reasons) *wat hij zich aantrekt* ‘what gets him upset’ is not ambiguous in the way that (332b) is.

All things considered, the empirical arguments concerned specifically with the deletion part of the deletion analysis are not overwhelming. What remains is the general question of the robustness of the connection between question–answer pairs and specification pseudoclefts (see section 5, above). If, as proponents of the deletion analysis claim, this is indeed robust, it serves as an important argument in favour of this analysis — along with the fact that it provides a straightforward account of the connectivity effects characteristic of specification pseudoclefts (which reduce to the dependencies found in simple clauses).
Some of the counterarguments that have been leveled at the deletion analysis are shared by the other transformational approach to specificational pseudoclefts, to which we turn next.

### 6.2 Extraction analyses

The extraction analysis of specificational pseudoclefts was first proposed by Chomsky (1972) (which first appeared in 1970) and Emonds (1970). The key ingredient of this analysis is the idea that the value-XP of a specificational pseudocleft starts out as a constituent of an NP-dominated clause base-generated in the subject position of the pseudocleft construction as a whole, and is raised into a postcopular position, which is generated empty. The analysis is schematically presented in (333).

\[
\begin{align*}
  a. & \quad [\text{S} [\text{NP} \text{it [S that ... [XP value] ...]] [\text{VP} be \_\_\_]] \rightarrow \text{extraction} \rightarrow \\
  b. & \quad [\text{S} [\text{NP} \text{it [S that ... [+PRO,+WH] ...]] [\text{VP} be [\text{XP} value]]] \rightarrow \text{wh-fronting} \rightarrow \\
  c. & \quad [\text{S} [\text{NP} \text{it [S [+PRO,+WH] (=what) ... \_\_\_] [\text{VP} be [\text{XP} value]]]]
\end{align*}
\]

The process of extraction of the value-XP leaves behind a wh-pronoun ( [+PRO,+WH] in (333b,c)), the same kind of creature which early transformational analyses of relativization postulated. This wh-pronoun is ultimately fronted to a position at the left edge of the NP-dominated S’, replacing the complementiser that (see (333c)).

The extraction analysis runs up against a variety of theoretical and empirical problems, which have been duly noted in the literature (cf. esp. Higgins 1979, Blom & Daalder 1977). One clear theoretical difficulty concerns the cycle (though see Hankamer 1974 for the view that whatever derives specificational pseudoclefts must be a postcyclic rule: it does not feed raising, for example); but we will not belabor this point here (depending as it does on assumptions concerning the cycle and the nature of transformations which are specific to the theory in vogue at the time at which the extraction analysis was first proposed). Instead, we will draw attention to a theoretical issue which Blom & Daalder (1977) stress in their discussion of the vicissitudes of the extraction analysis: the fact that the extracted element is raised to a position which is not structurally superior to its extraction site, hence does not c-command the extraction site. This problem is insurmountable unless ‘sideways/sideward movement’ is allowed as a theoretical option (see Nunes 1995, Bobaljik & Brown 1997, Kayne 1999 for the suggestion that such movement is indeed feasible).

Moreau (1971) presents a variant of the extraction analysis which avoids this c-command problem, by reversing the underlying hierarchical relationship between the major constituents — rather than placing the variable in subject position and base generating an empty slot in the complement of the copula, she generates the variable in postcopular position, as the predicate of the construction. This allows her to raise the value-XP out of the wh-clause into a position that does indeed c-command the extraction site: the subject position of the matrix clause.\(^54\)

Whatever the theoretical (de)merits of an analysis along the lines of (333) or its reverse counterpart (i.e., one in which ‘NP’ is the predicate in postcopular position), however, there are certain empirical properties of specificational pseudoclefts which threaten an analysis of these constructions strictly in terms of extraction. One is the fact that there are specificational pseudoclefts for which there simply is no simple clause counterpart — because of the fact that the wh-clause contains material which cannot occur in the simple clause paraphrase of the pseudocleft. Examples of this type typically involve about–PPs (cf. Green 1971, Higgins 1979, Heggie 1988):

\(^54\) Note that by generating the variable in postcopular position as a predicate, Moreau’s analysis is a precursor of Blom & Daalder’s (1977) and Heggie’s (1988) analyses of specificational pseudoclefts.
An extraction analysis of specificational pseudocLEFTs would have to start out from the ill-formed (334b) and transform it into the grammatical surface output in (334a). As long as it is less than crystal clear, however, what exactly is responsible for the deviance of (334b), it is difficult to assess the strength of this kind of objection. Note, in any event, that the deletion analysis is immune to it: the post-copular IP would simply lack the about–PP from the start.

Other threats to the extraction analysis are posed particularly by specificational pseudocLEFTs which, while exhibiting connectivity effects (which serve as an important argument for any transformational account), do not seem to make an extraction analysis available on theoretical grounds. Akmajian (1979), Higgins (1979) and Blom & Daalder (1977) draw attention to such constructions as (335)–(336) (cf. Akmajian 1979:47 & 118):

(335) a. What there was next to Bill was {the/that} photograph of himself which was taken last summer.

b. *There was {the/that} photograph of himself which was taken last summer next to Bill.

(336) a. The one who has to protect {*myself/*himself} is me.

b. I have to protect {myself/*himself}.

The problem with (335a) is that the value-XP, because it is definite, would not seem to be generable inside the wh-clause; and (336) presents a clear person agreement problem: while the value in (336a) is first person singular, the anaphor in the precopular variable clause may only be third person singular. These facts are unexpected from an extraction perspective.

Higgins (1976:121–22, fn. 7) is ‘not convinced of the cogency’ of the argument against extraction based on the there-sentences in (335). As he points out, ‘[t]he “picture-noun” photograph brings with it added complications. It seems to me to be equally acceptable if himself is replaced by him’. Akmajian (1979:93–98, fn. 16) also suggests a possible ground for setting (335) aside as a problem for the extraction analysis: one might (as Ken Hale pointed out to Akmajian) want to assimilate (335a) to there-sentences with a ‘list reading’, which likewise form an exception to the indefiniteness requirement on there-sentences (cf. the fact that (335b) with a word order in which the associate of there is clause final and set off from what precedes it by ‘colon intonation’ is grammatical). Akmajian ultimately rejects this option, but in the light of the close kinship of specificational sentences and lists (cf. Higgins 1979), it would certainly be worth investigating further. At the very least, we should conclude from the above that the problem for an extraction analysis posed by there-sentences of the type in (335a) is probably not insurmountable.

Perhaps more interesting is the problem posed by (336), which concerns agreement in phi-features between the anaphor and the value-XP. If the post-copular focus in (336a) were to be base-generated inside the relative clause and raised to postcopular position via extraction, one would not expect the anaphor to be himself; instead, one would expect myself (but myself, while good in (336b), is entirely impossible in (336a); cf. Akmajian 1979:119). The force of this argument is substantially reduced, however, by Akmajian’s (1979:120–21) observation that when the order of examples such as (336a) is reversed the anaphor can agree in all phi-features with its clause-external antecedent (though it does not have to):

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55 This problem is similar to the one that the so-called raising analysis of relativization could run into: while *There are the problems with this analysis is ungrammatical, The problems that there are with this analysis are numerous is fine. But the particular raising analysis proposed by Kayne (1994), in which the definite article the originates outside the relative clause and bare problems is base-generated inside it (as in [DP the [CP problems, [that [IP there are problems with this analysis]]]]), avoids this problem.
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There are three different reflexivization patterns, therefore: the one represented by the simple sentence in (336b) (with full phi-feature agreement as the only option), the one seen in the specificational pseudocleft with a post-copular value in (336a) (with obligatory person disagreement), and the one found in pseudoclefts with a sentence-initial value such as (336a') (where both possibilities deliver a grammatical result). Akmajian (1979:121) takes these facts to ‘suggest that the reflexive forms in [(336)] arise under certain surface structure conditions’ (which, he adds on p. 123, he does not understand). If he is right that we are dealing here with a surface phenomenon, the reflexive agreement facts tell us little if anything about the underlying representation of specificational pseudoclefts — they could be compatible with an extraction approach. We will take the reflexive agreement argument to be moot, therefore — though it may ultimately support Akmajian’s dual analysis of specificational pseudoclefts like (336a'): person agreement would be obtained via extraction, lack of agreement via base-generation.

Unless double-NP specificational copular sentences are themselves analyzed as concealed pseudoclefts (see Romero 2005 for an account that treats the ‘superscriptional’ noun phrase of double-NP specificational copular sentences as a concealed question), the extraction analysis will not be sufficient to capture the parallelism between specificational pseudoclefts and other specificational copular sentences. This point is raised by Akmajian (1979:51–52), Blom & Daalder (1977:59–60) and Heggie (1988), among others (cf. also Higgins 1979:145–49).

Consider the following pair:

(337) What John contributed was a poem about himself.

(338) John’s contribution was a poem about himself.

As is clear from the examples, simple specificational copular sentences exhibit the same connectivity effect with respect to anaphors which pseudoclefts display (see Sharvit 1997 for discussion). If one believes that connectivity effects are an argument for an extraction analysis, therefore, one seems forced to adopt a complex clausal analysis of nominalizations like contribution in (338). Chomsky (1970), however, has presented cogent evidence against such an approach to nominalizations. An extraction approach to (338) will hence be unavailable; consequently, anaphor connectivity cannot be used as an exclusive argument for an extraction analysis.

It is particularly in the light of the parallel between (337) and (338) that Akmajian (1979) comes to the conclusion that a base generation analysis for specificational sentences should be available as well. We will turn to this kind of analysis in the next section.

6.3 Base-generation analyses

Throughout the decades, the base-generation analysis has served as a home base for scholars who found that transformational approaches to specificational pseudoclefts fail to be descriptively and explanatorily adequate. Higgins (1979) adopts such an account, and so do Blom & Daalder (1977); both also mention the similarities between their base-generated structures of specificational pseudoclefts and the structure of specificational copular

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56 We note here (without engaging in any discussion of it) the contrast between (336a,a') and Collins & Postal’s (2012:96) observation about what they call ‘imposters’ and pronominal agreement. While in (336a,a') myself is good only when the first-person focus precedes it, in the following ‘imposter’ cases, myself works only if the ‘imposter’ (the third-person R-expression Daddy used with reference to the speaker) does not precede it: Daddy will put on suntan lotion to keep {himself/*myself} from getting sunburned vs. To keep {himself/*myself} from getting sunburned, Daddy will put on suntan lotion. (Collins & Postal 2012:96 add that this contrast does not hold for first-person plural reflexives: The present authors will put on suntan lotion to keep {themselves/ourselves} from getting sunburned is as acceptable with ourselves as it is with themselves. Whether there is a contrast between first-person singular and plural in the pseudocleft in (336a) as well is something that, to our knowledge, has not been discussed in the literature.)
sentences in general. As Akmajian (1979), who adopts the base generation analysis for a subset of specificational pseudoclefts, points out in various places, the base source is a structure which ‘there is no non-ad hoc way of preventing’ (p. 32; also cf. p. 38) in any event; so one would certainly expect it to exist.

Akmajian (1979) argues for a dual approach to specificational pseudoclefts: one analysis derives them transformationally from their simple clause counterparts (via extraction; see section 6.2, above), the other generates the specificational pseudocleft in the base. The base-generation analysis is argued to be required for those kinds of specificational pseudoclefts for which an extraction analysis would run into trouble:

- [±human] clashes (see (318))
- *there*-sentences (see (335))
- agreement clashes (see (336))

For Akmajian, specificational pseudoclefts with value-XPs whose categorial status is NP are always ambiguous in principle between an extraction analysis and a base-generated structure. But specificational pseudoclefts with non-nominal values are not derivable via base-generation, according to Akmajian: there are no non-cleft specificational sentences with non-nominal postcopular constituents:57

(339) a. What John did was kiss Mary.
b. *John’s action was kiss Mary.

When it comes to the analysis of connectivity effects (the key argument for transformational approaches), Higgins’s (1979:Chapter 3) base-generation approach looks for the account in the realm of ‘the meaning of specification’ (rather than in the workings of some transformation), and points out that such an approach has the advantage of predicting, correctly, that connectivity arises in specificational constructions regardless of the verb used (mentioning the occurrence of connectivity with lie in, consist in, constitute in support of this prediction; p. 99). Faced with this, a transformational analysis would need to mention explicitly a list of verbs which ‘trigger’ the transformation involved; and that list would be arbitrary, according to Higgins, unless the meaning of specification can somehow be referred to — but once one needs to refer to the meaning of specification anyway, one might as well derive the connectivity effects directly from it without postulating a transformation to derive the pseudocleft construction, so Higgins’s argument goes. In other words, ‘a transformational analysis would be not merely clumsy but also unnecessary’ (p. 117).

Higgins’s own attempt to account for them purely in terms of the semantic notion of ‘specification’ remains rather vague, however. He states explicitly (p. 97) that when it comes to the analysis of reflexive connectivity, at least two factors are involved:

(i) ‘the establishment of some designated noun phrase in the subject clause which can act as a controller (in Postal’s sense (1970, 443))’

(ii) ‘the application of the properties of specification to the semantic reading so that the controller is specified as the understood subject of the predicate complement phrase’

57 Higgins (1979) seeks to counter Akma jian’s claim about the non-ambiguity of specificational pseudoclefts with non-nominal counterweight/value by drawing attention to the existence of non-cleft specificational copular sentences with a gerund as postcopular constituent (such as John’s biggest worry is having to photograph himself without a tie on), which he claims feature a VP to the right of the copula. Higgins’s point is not well-taken, however: these gerunds arguably are nominal.
But when it comes to ‘devising mechanisms for establishing understood subjects in the complements to nominalizations’ (p. 98), he leaves the details open. Blom & Daalder (1977) are quite a bit more explicit in this regard. They develop an analysis which, recast in present-day theoretical terminology, hinges on postulating a null subject PRO inside the postcopular constituent:

(340) a. What *John should do is [PRO protect himself].
    b. What *John was reading was [a PRO story about himself].

Assigning specificational pseudoclefts structures of this type will make it possible to use the PRO subject of the value-XP as an intermediary in the establishment of the interpretive relationship between subconstituents of the wh-clause and the postcopular XP.

It predicts, at the same time, that the only contexts in which specificational pseudoclefts could feature connectivity effects are the ones in which these effects can be mediated by a PRO. Blom & Daalder themselves present this as a correct prediction: they point out that anaphor connectivity breaks down in examples in which the value is constituted by the anaphor itself (see their examples in (341)); and they also claim that connectivity with respect to negative polarity item licensing is impossible (at least in Dutch; see their (342) and the lack of ambiguity of (332a), the latter repeated from section 6.1).

(341) a. *Wie hij op het oog had is zichzelf.
    b. *Wie zij tarten was/ waren elkaar.

(342) a. Hij weigerde ieder geneesmiddel.
    b. *Wat hij weigerde was ieder geneesmiddel.

(332) a. Wat hij zich aantrekt is het onschuldigste grapje.

‘What gets him upset is the most innocent joke.’

As we pointed out in section 3, however, each of these empirical claims is problematic — it is not in general impossible for anaphors to constitute the value of specificational pseudoclefts; and connectivity effects exist for a variety of phenomena other than anaphora. And even if Blom & Daalder’s (1977) claims about Dutch were entirely accurate, one would still be in need of some other approach to connectivity for languages other than Dutch.

We should mention here as well that Higgins (1979) explicitly takes issue with an Equi–NP Deletion (i.e., Control) approach to anaphor connectivity effects in specificational sentences. Referring to Chiba (1971), he states that it would be impossible to postulate a PRO subject for the postcopular constituents in the examples in (343).
If Chiba and Higgins are right on this score, the prospects for a control approach to anaphor connectivity in specificational copular sentences are gloomy — and at best, a control approach would be a way of moving the problem into a different department anyway: after all, once one postulates a PRO subject inside the value-XP, one will need to face the question of how this PRO, in turn, could be controlled by a subconstituent of the variable.

If a syntactic approach along the lines of control fails, therefore, other ways of capturing the connectivity effects on a base-generation analysis should be found outside the syntax. Higgins (1979) makes vague suggestions along these lines (as we have seen); more specific proposals are found in Jacobson (1995) and Sharvit (1997), where connectivity in specificational pseudoclefts is treated as a purely interpretive phenomenon, arising wholly without syntactic c-command. In their approach, binding dependencies and other such dependencies involved in the domain of connectivity are viewed as side effects of semantic composition — an area in which the semantic properties of what and be play a key role. (We refer to section 1.5, above, for remarks about the semantic vacuity of the copula. If the discussion there stands up to careful scrutiny, it counts as an argument against semantic approaches which attribute an important role to the semantic properties of be.) We will not discuss these semantic accounts to the general problem of connectivity any further here.

6.4 Reconstruction analyses

Recent (principles-and-parameters) approaches to specificational pseudoclefts have largely adopted a base-generation analysis (see Heggie 1988, Iatridou & Varlokosta 1998, Alexiadou & Giannakidou 1998; also the semantically oriented, syntactically simple approaches in Jacobson 1995, Sharvit 1997), eschewing the postulation of movement operations which would raise the value-XP from out of the wh-clause into a position on the other side of the copula — operations which would contravene broadly accepted views on what constitutes possible movement (but cf. the discussion in section 6.1, above, on the possibility of ‘sideways movement’). Apart from the re-emergence of the deletion analysis (in Schlenker 2003, Den Dikken et al. 2000), however, there are two noteworthy exceptions to the base-generation approach in the recent literature — Bošković (1997) and Heycock & Kroch (1999). Both propose a kind of analysis which we may characterise as the reconstruction approach — the simple sentence paraphrase is ‘reconstructed’ out of the complex surface construction. In a sense, these reconstruction approaches (esp. Bošković’s) are the opposite of the early transformational analyses. But even though they are motivated by the same overall desire (viz., to capture the connectivity effects manifest in specificational pseudoclefts), in the details of their execution they are quite different — both from the early transformational accounts and from one another. We will discuss them one by one.

6.4.1 Move at LF (Bošković 1997)

Bošković (1997) presents an analysis of specificational pseudoclefts which is based on the idea that the wh-element in the wh-clause is replaced with the value–XP at LF as a result of Move.58 Replacement of what is

58 Guéron (1992) seems to be a predecessor of this approach, though she does not conceive of the operation that reconstructs the focus into the wh-clause as a syntactic movement operation: for her, it is an operation ensuing in the mapping of the récit onto the commentaire, the latter a metalinguistic level of representation. To quote her directly (p. 103): ‘Le focus remplace la tête de la relative ... Ensuite le focus est reconstruit à la place de la variable dans DP2 [i.e., the free relative which includes the wh-clause]’ [original emphasis; ‘The focus replaces the head of the relative ... Subsequently the focus is reconstructed into the position of the variable in DP2’]. By taking the reconstruction to happen beyond syntax Guéron is in fact closer to Heycock & Kroch (1999).
triggered by the assumption that what *what* is is a ‘surface anaphor’ in the sense of Hankamer & Sag (1976) — an anaphor that has to be replaced by its linguistic antecedent at some level of representation. (See Lødrup 1994 for related discussion of Norwegian *det*.)

(344)  
a.    Hankamer: I’m going to stuff this ball through the hoop.  
      Sag: I don’t think you’ll be able to do it/*so.  

b.    [Hankamer is trying to stuff a ball through a hoop.]  
      Sag: I don’t think you’ll be able to do it/*so.

Just like *so*, but unlike *it*, the *what* of a specificational pseudocleft needs a linguistic antecedent, and must be replaced by this antecedent by the end of the derivation. Bošković takes the point at which such replacement obtains (in any event in pseudoclefts) to be LF. At LF, therefore, the representation of a specificational pseudocleft will no longer contain *what* — in its place we find the value-XP which appeared on the other side of the copula in the overt syntactic structure; this XP is moved into the *wh*-clause via Move. With the value at LF inside what used to be the *wh*-clause, the connectivity effects will follow, so the argument goes. But note that for NPI connectivity, things seem to happen ‘too late’: negative polarity items generally want to be c-commanded by their licensors at S-structure — see the ungrammaticality of (345a), from Den Dikken et al. (2000:50): though reconstruction is possible in this kind of context (as the grammaticality of (345b) shows), negative polarity item licensing nonetheless fails here.59

(345)  
a.    *Which charges that he concealed anything would every President deny?*  
      Which charges that he concealed something would every President deny?  

One of Bošković’s (1997) key arguments for the idea that the value is actually moved via an instantiation of the syntactic operation Move is the fact that extraction of and from the value is impossible (cf. section 3.2 for discussion):

(346)  
a.    I think that what caused the riot was a picture of the wall.  
   669  
b.    *What do you think that what caused the riot was *ec?  
   669  
c.    *What do you think that what caused the riot was a picture of *ec?  

For Bošković, the cause of the ungrammaticality of (346b,c) lies in a general restriction on Move: it is impossible, in general, to have Move apply either to a trace or to a constituent containing a trace. (346b,c) fall under this restriction — at LF, Move will need to replace the *what* of the precopular *wh*-clause with the value-XP; but at that time, the value-XP has already been reduced to either a trace (346b) or a constituent containing a trace (346c), as a result of overt-syntactic *wh*-extraction. The ban on movement of (constituents containing) traces thus makes it impossible for the *what* of the pseudocleft to be replaced in (346a,b), which is why these examples are ungrammatical.

59 We refer the reader to Den Dikken, Meinunger & Wilder (2000) for discussion of cases in which the point at which NPI licensing takes places is indeed LF; these cases behave in interesting ways when converted into specificational pseudoclefts.
Den Dikken et al. (2000:64) find fault with this account of (346) (which, in any event, is by no means an exclusive argument in favor of the Move analysis; see section 4.3.2 for other approaches) by pointing out that covert extraction from the value-XP is also impossible in specificational pseudocLEFTs:

\[(347)\]
\[
\text{a. } *\text{Who thinks that what caused the riot was which picture of the wall?}
\]
\[
\text{b. } *\text{Who thinks that what caused the riot was a picture of which wall?}
\]

Here, there has been no overt-syntactic extraction from the value-XP: the wh in situ will not move towards the overtly extracted wh-element who until LF. There should be no problem, therefore, with a derivation of (347) which first has the intact value replace what (by which the pseudocleft is reshaped into a simple clause) and subsequently performs LF wh-movement on (a subconstituent of) the value. Hence there is no reason, on Bošković’s analysis, to expect there to be anything wrong with (347) — contrary to fact.

The ban on movement of a constituent containing a trace, Bošković argues, is also responsible for the ungrammaticality of the examples in (348) (cf. also Higgins 1979:67):

\[(348)\]
\[
\text{a. } *\text{What John gave was Mary a book.}
\]
\[
\text{b. } *\text{What John gave was a book to Mary.}
\]

Bošković follows Larson (1988) in assigning a structure to triadic constructions according to which they contain two VPs, the lower one of which includes the direct and indirect objects and a trace of the verb. It is precisely this lower VP that one would need to move into the wh-clause to derive the examples in (348) — and since one is not allowed to move a constituent containing a trace, the ungrammaticality of these examples follows directly.

Once again, however, this argument for a Move derivation overlooks an essential fact. For, as Den Dikken et al. (2000:78) point out, examples of the type in (348) become grammatical once the wh-clause of the pseudocleft is given two variables — one corresponding to each of the two post-copular objects:

\[(349)\]
\[
\text{What John gave to whom was (John gave) a book to Mary and a CD to Sue.}
\]

The ungrammaticality of (348) thus turns out to have nothing to do with restrictions on Move — instead, it is a consequence of the lack of parallelism between the wh-clause and the postcopular value (see also Boeckx 2007). In this respect, (348) seems to be on a par with Akmajian’s (1979:26) examples in (350b,c).

60 The ungrammaticality of (348a) is also noted in Ross (1999), who blames it on the non-constituency of Mary a book; on approaches to double object constructions à la Kayne (1984) or Larson (1988), however, this sequence is a constituent (see the main text immediately below for discussion of Larson’s account, invoked by Bošković). Ross contrasts the ungrammaticality of (348a) with the well-formedness of (i) (= (32) from section 2.1, above). Here, Jerry drunk is unquestionably a constituent — an Honorary NP in the sense of Safir (1983).

(i) what we need is Jerry drunk

61 See the discussion in section 5.2 for other examples of multiplicity in specificational pseudocLEFTs. Not all authors find such examples grammatical (see Higgins 1979:67 for explicit rejection of an example with a structure similar to that of (349)); the point, however, is that for those speakers for whom multiple wh’s are possible in the wh-clause of specificational pseudocLEFTs to begin with, examples of the type in (349) are acceptable.
Den Dikken et al. (2000:section 4.2) draw attention to a variety of other ‘parallelism effects’ in specificational pseudoclefts, largely shared by question–answer pairs. (348) thus by no means stands on its own.

As far as we can see, there are no properties of specificational pseudoclefts which argue unambiguously in favour of a LF Move approach to these constructions as proposed by Bošković (1997). On the other hand, there do exist some general considerations which suggest that such an approach (regardless of the theoretical status of the instance of Move that this analysis needs to invoke) is presumably not on the right track. These considerations are all concerned with the fact that Bošković’s analysis turns on an instance of Move which is triggered by a property of the wh-element what, which he treats as a surface anaphor in the sense of Hankamer & Sag (1976).

Interestingly, what is the wh-counterpart of it — and it, unlike so (which does have the property of being a surface anaphor), is not a surface anaphor (but a ‘deep’ one instead): as (344b) shows, it can take a non-linguistic antecedent; it does not need a linguistic antecedent, hence does not fact need to be (in fact, cannot be) replaced at LF. Given the morphological link between it and what, it is at the very least surprising that (if Bošković’s approach to what is right) the two should part ways so radically when it comes to the ‘deep/surface anaphor’ dichotomy.

Surprising as well is the fact that, even though it is true that what is by far the most common wh-element in specificational pseudoclefts, it is not just what that can be used in these constructions — see section 2.1 for examples featuring wh-words other than what. Though in actual fact it is basically only who that is practically impossible in specificational pseudoclefts, Bošković predicts that only what should be permissible.

Even more importantly, the fact that Bošković’s analysis of specificational pseudoclefts is built entirely on a property of the wh-element what, which is absent from non-cleft specificational sentences, prevents it from extending to the larger set of specificational copular sentences. Such an extension is nonetheless called for, in view of the syntactic and semantic parallels between specificational pseudoclefts and their non-cleft congers (see the discussion in section 3 for a list of such parallels).

It is in the light of general considerations like this that we should conclude that an LF Move analysis of specificational pseudoclefts along the lines of Bošković (1997) must be rejected.


Recall from section 4.1.1, above, that for Heycock & Kroch (1999), specificational pseudoclefts are equative copular constructions (Higgins’s 1979 ‘identity statements’). Such an approach to their deep and surface syntactic structure does not give one a handle on the connectivity effects exhibited by these constructions, it would seem. So, Heycock & Kroch (1999:388) argue, ‘the connectedness effects in pseudoclefts are evidence that neither surface structure nor anything close to it can be the level at which crucial aspects of semantic interpretation are determined’. They postulate ‘a quite abstract level of logical form’ at which ‘pseudoclefts must have a structure identical in relevant respects to that of their canonical paraphrases’.

The essence of Heycock & Kroch’s (1999) analysis is aptly summarized with the aid of the above quotations. What is left to be determined is how the surface syntactic form of specificational pseudoclefts can be converted into a ‘logical form’ representation which is similar to that of their simple clause paraphrases, such that the connectivity effects can be accommodated.

Heycock & Kroch propose a semantic representation of specificational pseudoclefts which is obtained via ‘iota abstraction’. In this regard, their approach is very similar to that of Guéron (1992, 1993), which also
postulates an iota operator in the *wh*-clause of specificational pseudoclefts, and has this variable replaced (just as in Heycock & Kroch’s approach) at a very late and abstract point in the derivation (her metalinguistic level of the *commentaire*). Though different in detail, the Guéron and Heycock & Kroch approaches are of kindred spirit; we will key the discussion to the latter, more readily accessible paper.

Following Jacobson (1995), Heycock & Kroch take the *wh*-clause of a specificational pseudocleft to be a noun phrase with the semantic denotation of an individual rather than a set — in particular, the *wh*-clause/free relative *what Fiona bought* in the specificational pseudocleft in (351) is taken to ‘denote the maximal individual (a plural individual in the sense of Link (1983)) of which the sentence *Fiona bought y* holds’. The semantic representation of *what Fiona bought* thus reads as in (352), and the concomitant semantic representation of the entire pseudocleft in (351) as in (353).

(351) What Fiona bought was that ancient dictionary.

(352) \( \iota y \{ \text{Fiona bought } y \} \)

(353) \( \iota y \{ \text{Fiona bought } y \} = \text{‘that ancient dictionary’} \)

Crucially, now, the Russellian iota operator used in (352), defined as in (354), will allow us to alter the structure in (353) by applying the definition in (354) to the equative formula. Via this procedure (dubbed ‘iota reduction’ by Heycock & Kroch), the iota operator is eliminated from the representation in (353), and the iota-bound variable is replaced with the ‘value’ of the pseudocleft. The result is as in (355).

(354) \( \iota y \{ f(y) \} \) denotes \( a \) iff \( f(a) \) AND (\( \forall z \)(\( f(z) \) iff \( z \leq a \))

(355) Fiona bought that ancient dictionary AND (\( \forall z \)(Fiona bought \( z \) iff \( z \not\approx \) ‘that ancient dictionary’)

What we now have is a representation of (351) which, as its first conjunct, contains precisely the simple clause of the pseudocleft’s paraphrase. (355) which will therefore allow us to capture the connectivity effects of specificational pseudoclefts — if we can ensure that the dependency relations involved in the relevant set of connectivity effects all apply no sooner than at the level of the grammar at which (355) is obtained (and if the second conjunct of (355) can be eliminated from the logical form relevant for connectivity; but as Heycock & Kroch point out later in their discussion, that second conjunct is actually unnecessary, so we need not be concerned with this condition).

It should be noted that ‘iota reduction’ must be taken to be obligatory — for pseudoclefts feature no ‘antireconstruction effects’: Principle C effects are not circumvented in these constructions (cf. *What he, had said to Mary was that she had been lying to John;* see section 3.2). The same is true for specificational sentences in general. One must assume, therefore, that (i) ‘iota reduction’ applies to all specificational sentences (regardless of whether they feature a *wh*-clause or not; i.e., noun phrases like *Fiona’s purchase* must have a representations of the type in (352), which ‘iota reduction’ takes as its input), and (ii) the only representation of specificational sentences which is available at the interface with the conceptual system is the one obtained by ‘iota reduction’.

The point at which ‘iota reduction’ takes place is a very late one — it must be, according to Heycock & Kroch, since its effects are noticeable even across stretches of discourse (cf. e.g. question–answer pairs; see Heycock & Kroch 1999:390–91, and also section 5, above). In other words, ‘the syntactic derivation of the LF interface representation relevant for such phenomena as binding follows operations that are part of discourse interpretation’ (Heycock & Kroch 1999:391).

62 In fact, Guéron’s approach is more general in that it postulates such an operator in the representation of inverse specificational copular sentences of the double–NP type (like *The best candidate is John*) as well: see (248) in section 4.2, above.
Heycock & Kroch’s (1999) approach to connectivity effects thus relegates them to a late stage in the derivation of the semantic representation of specificational sentences. The desired connection with the simple clause paraphrases of specificational pseudoclefts is obtained as a result of the operation of ‘iota reduction’ performed on the logical formula of an equation that is part of the semantic representation of all specificational sentences — all specificational sentences, regardless of their surface word order.

This account of connectivity effects in specificational copular sentences (and across discourse chunks as well; cf. Heycock & Kroch’s 1999:390–91 discussion of question–answer pairs) hence predicts that such effects should be totally oblivious to linear order. As Den Dikken et al. (2000) stress, however, there are connectivity effects in these constructions which are highly sensitive to the relative order of the variable and its value — case and NPI connectivity effects, in particular: German (56a) and English (57a), repeated here, are grammatical while (56b) and (57b) are not.63

(56) a. Was Hans essen wollte war {ein/ein-en} Apfel.
   what Hans eat wanted was a(NOM)a-ACC apple

   b. {Ein/*Ein-en} Apfel war was Hans essen wollte.
      a(NOM)/a-ACC apple was what Hans eat wanted

(57) a. What John didn’t buy was (he didn’t buy) any wine.

   b. *Any wine was what John didn’t buy.

It is true, of course, that not all connectivity effects in specificational sentences are sensitive to word order; in fact, the bulk of them are not. But an overall approach to connectivity effects in specificational sentences which relegates all of them exclusively to a late discourse-semantic level of representation will not be able to make the desired cut.

Of course, the lateness of ‘iota reduction’ also makes Heycock & Kroch’s (1999) analysis run up against the same problem which we noted in the previous subsection for Bošković’s (1997) approach: the fact that, in general, NPIs need to be c-commanded by their licensors at S–structure (see (345)).

Thus, while it seems likely that many of the connectivity effects known from the literature could and probably should be dealt with at a semantic level of representation, semantic accounts of connectivity will need to be supplemented by a (presumably syntactic) analysis of the fact that some of these connectivity effects (notably, NPI connectivity) have a much more limited distribution than a general ‘reconstruction’ or ‘iota reduction’ approach would lead one to expect. A dual, syntax-cum-semantics analysis of specificational pseudoclefts along such lines is the ellipsis approach proposed in Den Dikken et al. (2000). It makes immediate sense of the contrasts in (56) and (57) (on account of the fact that full-clausal ‘values’ are systematically impossible in the pre-copular position of specificational pseudoclefts), and relegates order-insensitive connectivity effects to a semantic (or even ‘metalinguistic’) level — perhaps indeed via something like Heycock & Kroch’s ‘iota reduction’, or, for that matter, Bošković’s LF reconstruction (Jacobson 1995 and Sharvit 1997 present alternative semantic perspectives).

63 They also point out that the restrictions on gapping in specificational pseudoclefts (which played a role in an earlier manuscript version of Heycock & Kroch’s paper, Heycock & Kroch 1996; see section 3.4) are another context in which linear order effects play a key role, without the Heycock & Kroch approach managing to accommodate them.
7 Semi-clefts: Reduced specificational pseudocLEFTs and/or something different?

In this last section, we would like to briefly address the syntax of a construction found in some of the Romance languages that, on its face, seems to look a lot like a specificational pseudocleft: the so-called semi-cleft, illustrated for Portuguese in (356b) (which alternates with the simple transitive in (356a) and the pseudocleft in (356c)):

(356) a. O João comprou um livro.
    the João bought a book

     b. O João comprou foi um livro.
        the João bought was a book

     c. O que o João comprou foi um livro.
        the what the João bought was a book


Semi-clefts superficially look like pseudoclefts from which the wh-element has been deleted. Information-structurally, they pattern like specificational pseudoclefts as well: the postcopular constituent is an identificational focus. Yet at the same time sentences like (356b) differ from their simple-transitive counterparts merely in the presence of a finite copular element immediately in front of the focus — so perhaps they could alternatively be structurally assimilated to (356a). Resenes & Den Dikken (2012) argue that semi-clefts proper have a monoclausal syntax. They do so primarily on the basis of the phi-feature agreement facts of and the transitivity restriction imposed on Portuguese semi-clefts whose focus is the subject. We will briefly summarize the argument below. Some of the phi-feature agreement facts, however, turn out not to be amenable to a monoclausal analysis. For those, Resenes & Den Dikken (2012) defend a reduced ‘Type A’ specificational pseudocleft analysis. While the bulk of them are monoclausal constructions, some semi-clefts are reduced specificational pseudoclefts.64

Let us turn to the transitivity restriction on semi-clefts with subject foci first. The ungrammaticality of (357b), throughout the Portuguese-speaking world, is unexpected if semi-clefts are to be uniformly derived from specificational pseudoclefts: after all, (357c) is perfectly grammatical. But the deviance of (357b) does not seem, at first, to straightforwardly fall out from a monoclausal analysis either: while Brazilian Portuguese generally does not allow postverbal subjects of transitive verbs in the so-called ‘free inversion’ construction (so (357a) is bad in Brazilian Portuguese, on a par with (357b)), European Portuguese does have free inversion in transitives; so the fact that (357b) is ungrammatical in European Portuguese calls for an explanation.

64 For reasons of space, we will focus the discussion of semi-clefts on the proposal by Resenes & Den Dikken (2012). The interested reader is invited to consult the references to the earlier literature on semi-clefts given in the previous paragraph.
Resenes & Den Dikken (2012) explain the ungrammaticality of (357b) on the basis of an approach to the ‘object of’ relation that they also exploit in their analysis of semi-clefts with object foci such as (356b). They take the ‘object of’ relation to be a predicational relation, with the object serving as the subject of the minimal VP, and the external argument as the subject of the predication formed by the minimal VP and the object.65

(358) \[ \text{RP2} = \text{vP} \quad \text{o João} \quad \text{RELATOR2} = \text{v} \quad \text{[RP1 um livro [RELATOR1 [VP comprou]]]} \]

Based on (358), the semi-cleft in (356b) is derived by applying predicate inversion to the minimal VP: the VP predicate is raised to an A-position above the object, as in (359), contingent on domain-extending movement of RELATOR1, which is spelled out as the copula foi. The analysis of (356b) thus draws an explicit parallel between this semi-cleft and copular inversion constructions of the type previously illustrated in (186) (repeated below), for which Den Dikken (2006a) explains the obligatoriness of the copula along the same lines.

(359) \[ \text{RP2} = \text{vP} \quad \text{eu} \quad \text{RELATOR2} = \text{v} \quad \text{[RP1 o livro [RELATOR1 [VP li]]]} \]

(186) a. I believe the best candidate *(to be) John.
   b. I believe the cause of the riot *(to be) a picture of the wall.

With (358) as the underlying representation for transitive verb phrases, we can not only derive the object-focus semi-cleft in (356b) but also explain the ungrammaticality of (357b). Starting out from (360a), performing predicate inversion on RP1 would lead either to the output in (360b) or to the one in (360b). Either way, the outcome is ungrammatical: in (360b) the object in SpecRP1 is deprived of the opportunity to check case against v; in (360c) the object raises to the left edge of vP prior to predicate inversion, leaving a trace in the raised RP1 that is not properly bound. A monoclausal analysis of semi-clefts thus explains why semi-clefts do not allow subject focalization when the verb is transitive.

(360) a. \[ \text{RP2} = \text{vP} \quad \text{eu} \quad \text{RELATOR2} = \text{v} \quad \text{[RP1 o livro [RELATOR1 [VP li]]]} \]
   b. *[o livro li] fui eu
   c. *[f, li] fui {o livro, eu}

65 The analysis in (358) incorporates the hypothesis, defended at length in Den Dikken (2006a), that all predication relations are structurally mediated by a RELATOR. Chomsky’s (1995) v is one of these RELATORS.
When the verb is intransitive, subject-focus semi-clefts are grammatical — and the phi-feature agreement facts that such semi-clefts exhibit show clearly that some semi-clefts definitely cannot be derived from their corresponding pseudoclefts, while at the same time pointing to the availability of a reduced pseudocleft derivation for other semi-clefts. Let us review the phi-feature agreement data, comparing semi-clefts (361) to pseudoclefts (362):

<table>
<thead>
<tr>
<th></th>
<th>Semi-clefts (361)</th>
<th>Pseudoclefts (362)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>Telefon ei fui eu.</td>
<td>*Quem telefon ei fui eu.</td>
</tr>
<tr>
<td></td>
<td>called.1SG was.1SG I</td>
<td>who called.1SG was.1SG I</td>
</tr>
<tr>
<td>b.</td>
<td>...Telefon ei foi eu.</td>
<td>*Quem telefon ei foi eu.</td>
</tr>
<tr>
<td></td>
<td>called.1SG was.3SG I</td>
<td>who called.1SG was.3SG I</td>
</tr>
<tr>
<td>c.</td>
<td>...Telefonou fui eu.</td>
<td>Quem telefonou fui eu.</td>
</tr>
<tr>
<td></td>
<td>called.3SG was.1SG I</td>
<td>who called.3SG was.1SG I</td>
</tr>
<tr>
<td>d.</td>
<td>Telefonou foi eu.</td>
<td>Quem telefonou foi eu.</td>
</tr>
<tr>
<td></td>
<td>called.3SG was.3SG I</td>
<td>who called.3SG was.3SG I</td>
</tr>
</tbody>
</table>

In semi-clefts, when the main verb agrees with the focused subject, the copula must also agree with it: while (361a) is perfect, (361b) is strongly degraded. The grammaticality of (361a) makes it immediately clear that an account that treats semi-clefts uniformly as reduced specificational pseudoclefts is untenable. The verb in the wh-clause of a specificational pseudocleft cannot agree with a first-person focused subject — it must instead agree with quem ‘who’, which is third-person singular (see (362a,b) vs (362c,d)). As Resenes & Den Dikken (2012) show, the monoclausal predicate inversion derivation for semi-clefts with subject foci given in (363) uniquely delivers phi-feature agreement between the subject, the lexical verb and the copula, as in (361a). It cannot deliver the agreement patterns in (361b–d). For (361b), this is an immediately desirable result: this agreement pattern is ill-formed. But (361c) is marginally available for many speakers, and (361d) is fine for everyone. Resenes & Den Dikken argue that (361c) and (361d) result from a derivation similar to that of the specificational pseudoclefts in (362c,d), with the wh-operator unpronounced, along the lines of (364).

\[
(363) \quad [\text{IP}\ [\text{vp telefonei}] [I+v=fui [\text{RP-v} \text{ eu} [t, t_{vp}]]]]
\]

\[
(364) \quad [[[\text{quem telefonou} [\{\text{\textsuperscript{3}P}fui/foi\} [\text{eu} (...)]]]]]
\]
Support for the idea that (361c,d) have a different underlier from the one that produces (361a) comes from the distribution of the various agreement patterns of semi-clefts in contexts involving embedding under non-bridge verbs. In non-bridge environments the judgements for the c– and d–sentences remain entirely unaffected whereas the a– and b–patterns become sharply ungrammatical:

(365) a. *A Maria perguntou se telefonou eu.  
the Maria asked if who called.3SG was.1SG I

b. *A Maria perguntou se telefonou foi eu.  
the Maria asked if who called.3SG was.3SG I

c. ?(?)A Maria perguntou se telefonou foi eu.  
the Maria asked if who called.3SG was.1SG I

d. A Maria perguntou se telefonou foi eu.  
the Maria asked if who called.3SG was.3SG I

The ungrammaticality of (365a,b) follows from the monoclausal predicate inversion analysis presented for (361a,b) in Resenes & Den Dikken (2012): raising of a non-nominal predicate to subject position is a root phenomenon (see Coopmans 1989:729–30 for the observation that locative inversion ‘only occurs in root clauses’: *He regretted that down the stairs fell the baby). The fact, on the other hand, that embedding in non-bridge environments has no effect on the judgments on the c– and d–examples can be understood if these are not monoclausal semi-clefts but reduced pseudoclefts instead. Full, unreduced pseudoclefts are fine in non-bridge environments: (362c) and (362d) have exactly the same status as their unembedded counterparts in (362c,d); embedding in non-bridge environments does not have any effect on their grammaticality.

(362) c’. A Maria perguntou se quem telefonou foi eu.  
the Maria asked if who called.3SG was.3SG I

d’. A Maria perguntou se quem telefonou foi eu.  
the Maria asked if who called.3SG was.3SG I

But if a reduced pseudocleft derivation along the lines of (364) is right for (361c) and (361d), why is (361c) not universally acceptable on a par with (362c)? To obtain an answer to this question, we will need to be more precise about the nature of the pseudocleft underlier for certain semi-clefts.

One of the most salient differences between semi-clefts and pseudoclefts concerns their word order. Whereas pseudoclefts usually show a word-order alternation, semi-clefts do not: *Eu fui telefonei, the reverse form of (361a), is ungrammatical; and so is *Eu foi telefonou, the reversal of (361d), the reduced pseudocleft. From the perspective of Den Dikken et al.’s (2000) approach to specificational pseudoclefts, the fact that reduced pseudoclefts like (361d) show no word-order variation suggests that they are of what they call ‘Type A’ (i.e., question–answer pairs), not of ‘Type B’ (i.e., pseudoclefts with a free relative). This not only helps make sense of the reduction process itself (a case of ‘wh-drop’ similar to what is found in wh-questions in some Germanic varieties; cf. Dutch (Wat) heb je nou gedaan? ‘what have you done now?’), but it also accounts for the status of the semi-cleft in (361c). To gauge the status of (361c) more precisely, we need to look into the question of phi-
feature agreement in Portuguese specificalional pseudoclefts that are unambiguously of ‘Type A’. One context in which we can be sure that we are dealing with ‘Type A’ is cases featuring doubly-filled Comps, such as (366): free relatives in Portuguese do not allow doubly-filled Comps (recall also Dutch (314), above), so the wh-clause in (366) must be a wh-question. In such pseudoclefts, it turns out that agreement between the copula and the postcopular focus, as in (366a), is marginally possible; default third-person singular inflection, as in (366b), is preferred.

(366) a. ‘Quem que telefonou foi eu.
who that called.3SG was.3SG I

b. Quem que telefonou foi eu.
who that called.3SG was.3SG I

This matches quite closely the pattern we found in (361c,d), lending support for the conclusion that semi-clefts showing no phi-agreement between the focused subject and the lexical verb are reduced ‘Type A’ specificalional pseudoclefts.

There is reason to believe, therefore, that specificalional pseudoclefts of what Den Dikken et al. (2000) have called ‘Type A’ — question–answer pairs with a topic–comment structure — are in principle eligible to reduction via ‘wh-drop’. ‘Type B’ specificalional pseudoclefts, on the other hand, are irreducible: free relatives in general do not allow a null left periphery; even in languages whose headed relatives do not have to be introduced by a wh-operator, free relatives must always have a wh-element in their left periphery.

These conclusions enhance the significance of a distinction, emphasized throughout the discussion of pseudoclefts in this article, between two types of specificalional pseudoclefts, one (‘Type A’) involving a question–answer pair in a topic–comment structure and the other (‘Type B’) featuring a free relative as the predicate of a simple copular clause.

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