

 Open access • Journal Article • DOI:10.1017/S1360674308002724

## **Deictification: the development of secondary deictic meanings by adjectives in the English NP** — [Source link](#)

Kristin Davidse, Tine Breban, An Van linden

**Institutions:** Université catholique de Louvain, Katholieke Universiteit Leuven

**Published on:** 01 Nov 2008 - English Language and Linguistics (Cambridge University Press)

**Topics:** Noun, Adjective, Grammaticalization, Determiner and Verb

Related papers:

- [An Introduction to Functional Grammar](#)
- [Category Change and Gradience in the Determiner System](#)
- [A Comprehensive Grammar of the English Language](#)
- [A lovely little example: Word order options and category shift in the premodifying string](#)
- [Essentials of mastering English : a concise grammar](#)

Share this paper:    

View more about this paper here: <https://typeset.io/papers/deictification-the-development-of-secondary-deictic-meanings-1e4k7wzmmi>

This was published in *English Language and Linguistics*.

Please cite as:

Kristin Davidse, Tine Breban & An Van linden. 2008. Deictification: The development of secondary deictic meanings by adjectives in the English NP. *English Language and Linguistics* 12 (3): 475–503.

**Deictification: The development of secondary deictic meanings by adjectives in  
the English NP<sup>1</sup>**

KRISTIN DAVIDSE, TINE BREBAN and AN VAN LINDEN

*The University of Leuven/FWO-Flanders Research Foundation*

(Received 3 May 2006; revised 3 April 2008)

ABSTRACT

In this article we make a case for recognizing deictification as a type of grammaticalization and semantic shift in the NP analogous to auxiliarization in the VP. The specific analogy we point out is between lexical verbs that grammaticalize into secondary auxiliaries bound by the finite, as in *is going to*, *has to* + verb, and lexically full adjectives that grammaticalize into postdeterminers bound by the primary determiner, as in *a different*, *the same* + noun. We present five case studies of the development of postdeterminer meanings, based on the analysis of diachronic and synchronic data. The adjectives studied are *opposite*, *complete*, *old*, *regular* and *necessary*, whose postdeterminer uses relate to the basic deictic systems of space, quantity, time and modality. Our analysis of the data shows that the mechanism of secondary deictification can be given a unified characterization as the semantic shift by which a general relation expressed by the adjective is given a subjective reference point in or relative to the speech event.

## 1 INTRODUCTION

In this article we will be concerned with the processes by which adjectives can come to function as secondary deictics (Halliday 1994: 185) or postdeterminers (Sinclair et al 1990: 70), which are functionally related to the primary determiner in the NP, as illustrated by the combination of *a* and *different* in (1), which together specify that reference is made to (repeatedly) new instances of the type ‘girl’.

- (1) I thought about how corrupt I was, always wanting to be drunk or stoned, always with **a different** girl. (CB)<sup>2</sup>

By contrast, used as descriptive modifier *different* expresses a gradable relation of comparison as in (2), in which it attributes very different personality traits to Gemma than to Nicola.

- (2) As is usually the case, Gemma is turning out to be a **very different** girl than Nicola. ([www.igs.net/~jonesb/xmas04letter.htm](http://www.igs.net/~jonesb/xmas04letter.htm))

As a starting point for the conceptual analysis of postdeterminer adjectives and the deictification process, we will take the functional parallelism between secondary auxiliaries and postdeterminers. Just as in the VP secondary auxiliaries are deictically bound by the finite element (Halliday 1994: 183), postdeterminers in the NP are deictically bound by the element functioning as primary determiner. In this article we will explore whether this parallelism extends to the finer deictic mechanisms pointed out by Langacker (2002a: 23) for secondary auxiliaries.

The structure of this article is as follows. In section 2 we will indicate what we take as preliminaries in the literature to the investigation of postdeterminer adjectives: their main functional-structural features as observed in synchronic approaches (section 2.1); their common diachronic emergence as the result of grammaticalization (section 2.2), and a general characterization of deictic relations and the speech event (section 2.3). In section 3, we will set out the data, methodology and precise research questions. We will study the development of postdeterminer uses of five adjectives representing the deictic notions of space, quantity, time and modality in diachronic and synchronic data, viz. *opposite*, *complete*, *old*, *regular*, and *necessary*. In section 4, we will present the findings of our case studies of these adjectives. In section 5, we will formulate our conclusions about what constitutes the deictification of adjectives.

## 2 POSTDETERMINER USES OF ADJECTIVES AND GRAMMATICALIZATION

### *2.1 Postdeterminer adjectives in the literature*

Even though the postdeterminer use of adjectives has received surprisingly little attention so far, a number of observations by functionally-oriented authors can be put together into a rough grammatico-semantic sketch. Semantically, postdeterminer adjectives<sup>3</sup> do not describe the referent of the NP, but have a reference-oriented function (Bolinger 1967). According to Halliday (1994: 183) they add further to the identifying function and in Bache's (2000: 235) view they 'help single out or quantify the referent of the construction in relation to some context'.

In terms of formal properties, Bache (2000: 235) notes that the postdeterminer use of adjectives is a ‘peripheral’ one in comparison with their ‘central’ use as descriptive modifiers. When adjectives describe properties of the nominal referent, they are typically gradable and alternate systematically with predicative use, as illustrated by (2) above, *Gemma is a very different girl than Nicola*, in which *different* designates a gradable relation of unlikeness and can be used predicatively with the same sense: *Gemma is very different from Nicola*. In their postdeterminer use, by contrast, adjectives are not gradable and cannot be used predicatively (Bache 2000: 235), as is the case with *different* in (1) *always with a different girl*, which indicates the non-identity of the girls referred to; *always with a girl that was very different* only conveys the descriptive qualitative meaning. The third main function adjectives can fulfil in the NP, viz. sub-classification of the general class designated by the head noun (Halliday 1994: 184), is also peripheral: classifying adjectives are non-gradable and cannot occur in predicative position either: *\*a very electric train – \*that train is electric*. Postdeterminer and classifier uses of adjectives are both non-central ones, but they are part of two distinct functional zones in the NP. Classifiers modify the head noun, while postdeterminers are a kind of modifier of the determiner (Bolinger 1967: 19). This is reflected in their position in NP-structure: classifiers are always placed immediately in front of the head noun, while postdeterminers typically occur after the determiner and in front of descriptive attributes (Bache 2000: 239), as in *Roche yesterday sat calmly in the same seat he used to watch **his former famous charge**, Ivan Lendl, destroy many an opponent on Flinders Park centre court* (CB). With secondary deictics, this positional principle is what Huddleston & Pullum (2002: 452) call a ‘labile ordering constraint’: it gives the preferred order in the default case, but may be departed from for reasons of scope or information distribution. For instance,

in *how many of our stalwart former lawmakers avail themselves of the inequitous* [sic] *perquisite* (CB), the placing of *stalwart* before *former* gives it a special emphasis contributing to the ironic tone (CB).<sup>4</sup>

It is symptomatic of the neglect of the postdeterminer function that there is no agreement about the number and type of adjectives that can express it (for partial lists see Halliday 1994: 183, Sinclair et al 1990: 70, Bache 2000: 241). More fundamentally, faced with actual examples of adjectives generally thought to have postdeterminer as well as descriptive uses (such as *old, famous, complete, different*, etc.), the analyst will quickly find that the available semantic glosses do not suffice to distinguish postdeterminer uses, which add ‘further to the identification of the subset in question’ (Halliday 1994: 183), from for instance defining attributes, as in *I saw the old part of Govan*, which also help identify the referent. This shows the need to provide a more precise semantic characterization of their ‘secondary identifying’ semantics.

## 2.2 Postdeterminer uses of adjectives and grammaticalization

Recent approaches to postdeterminer adjectives within a grammaticalization framework (Breban 2002, Adamson & González-Díaz 2004, Denison 2006) are beginning to shed new light on them by interpreting their properties in the light of generally recognized semantic and formal tendencies of grammaticalized items. Denison (2006: 298) describes the historical process by which the determiner-like use of *several*, meaning ‘individually separate, different’, developed from its original descriptive use, in which it meant ‘existing apart, separate’. He (2006: 298) also points out the development of a postdeterminer use of *certain* following the indefinite

article. Such processes of change, he (2006: 300) proposes, suggest that categories are gradient entities, which can stepwise acquire some properties of a new category, rather than necessarily manifesting a wholesale change into that new category: ‘*various* and *certain*, while still adjectives, have moved a small way towards acquiring properties more typical of determiners’ (Denison 2006: 300). Adamson & González-Díaz (2004) discuss the increased subjectification, coupled to leftward movement in NP-structure, of *very*. Starting from its original descriptive use, in which it meant ‘true’, *very* acquired intensifier meanings as in *a very gentleman*, as well as postdeterminer uses, as in *the very man we are looking for*.

In her investigation of adjectives of comparison, Breban (2002, 2006a, 2006b, 2006c) puts forward the hypothesis that the postdeterminer uses of adjectives such as *other*, *different*, *similar*, *comparable* developed through grammaticalization and subjectification of their fully lexical descriptive uses. She proposed to interpret the polysemy illustrated by examples (1)–(2) above for *different* as the result of a *semantic shift* from ‘meanings situated in the *described* external or internal (evaluative/perceptual/cognitive) situation’ to ‘meanings situated in the *textual* situation’ (Traugott 1989: 31, italics ours). This type of semantic change was hypothesized by Traugott (*ibid.*) to typically form the first stage toward the subjectification of an item. Breban (2002) also argued that the shift from descriptive attribute to postdeterminer is a case of *grammaticalization*, featuring at least three central characteristics of this process. Firstly, in their postdeterminer use the adjectives develop from autosemantic to synsemantic signs (Lehmann 1985: 308). Whereas descriptive adjectives function as an independent modifier in NP-structure (Dixon 1982: 25), postdeterminers form a unit with the determiner, with the latter determining the general definite or indefinite value of the determiner complex. In

some of the most prototypical cases, this functional coalescence is reflected orthographically, as in English *another* and Dutch *dezelfde, hetzelfde* ('the same'). In other cases, we find such strong collocational patterns of co-occurrence that they can be viewed as another form of coalescence, e.g. *the same*, which *The Oxford English dictionary* (OED) (Vol. 9: 74) describes as functionally one word. Secondly, the postdeterminer uses also instantiate paradigmaticization (Lehmann 1985), as the adjectives come to figure in a more restricted and more homogeneous paradigm than the very extensive and varied set of descriptively used adjectives. Finally, the adjectives lose the gradability and potential for predicative alternation associated with their lexical use, i.e. they manifest decategorialization (Hopper & Traugott 2003) or what Denison (2006) more positively characterizes as 'gradient category shift'.

Breban (2006a) adduced two types of empirical evidence for this hypothesis. In the first place, synchronic and diachronic data contain a number of bridging contexts (Evans & Wilkins 2000), in which both a descriptive and a postdeterminer reading is plausible. For instance, contextual elements in (3) support both a reading in which *different standards* describes standards characterized by different properties, and one in which it simply refers to two different sets of standards.

- (3) One of the saddest elements of the crisis was that there were voices in the Arab world trying to justify the premise that Arabs lived by **different** standards from the rest of the international community. (CB)

Such bridging contexts indicate ongoing semantic change, which paves the way towards polysemy (Evans & Wilkins 2000).



Secondly, Breban (2006a) argued that quantified historical data analysis of *other*, *different*, *similar* and *comparable* bears out her grammaticalization hypothesis, as the postdeterminer uses are either predated by fully lexical uses, or have increased over time at the expense of the descriptive uses. For instance, the prototypical postdeterminer of difference, *other*, was commonly used as a postdeterminer in Old English already. Its infrequent descriptive (attributive and predicative) uses waned throughout Middle English and Modern English, leaving *other* in Present-day English an adjective with grammaticalized meaning only. Postdeterminer uses of *similar* emerged as a small fraction (averaging less than 10% vis-à-vis lexically full uses) in Late Modern English, but have increased in Present-day English to 30% of all uses.

Breban (2006) found that not all English postdeterminer adjectives grammaticalized in the language itself. For instance, *same* and *identical*, whose typical function was to emphasize the co-referentiality with a referent already present in the discourse, came into English as grammaticalized adjectives, but they were loans of adjectives that had lexical uses in other languages. *Same*, which derives from an Indo-Germanic word meaning ‘level, equal, same’, has been used from Middle English on as postdeterminer of definite determiners, as in (4).

- (4) For Salomon seith that ‘ydelnesse techeth a man to do manye yveles.’ And **the same** Salomon seith that ‘he that ttravailleth and bisieth hym to tilien his land shal eten breed, [...] (Helsin~1\hc1250~1\hc1350~1. Txt 81)

The Romance word *identical* was borrowed into English in the 17<sup>th</sup> century with as primary function the emphasis of identity of reference in definite NPs, as in (5).

- (5) One Man's fatal fall came at **the identical** fence which caused the retirement of another great grey, Desert Orchid. (CB)

According to Breban (2006c: 186), the emphatic nature of postdeterminers of identity, which may be further strengthened by 'a synonymous adjective: †*that ilk (think) same*, †*the same self*, †*the same very, the very same*' (OED Vol. 9: 75), explains why they relatively quickly lose their strengthening effect and are subject to frequent 'renewal' (Hopper & Traugott 2003: 122–124) also by the borrowing of new expressions.

### 2.3 Deixis and the speech event

With Langacker (2002a: 7), we view deictic elements as linguistic elements whose meaning refers to an aspect of the 'ground', i.e. the speech event, the speaker or hearer, the time and place of utterance, or the speech act itself. Some deictic elements explicitly designate, or in Langacker's (1991: 551) terminology 'profile', aspects of the speech event, for instance *I*, *you*, *here* and *now* and explicit performatives like *I order you to desist* (Langacker 2002a: 9). Other deictic elements merely invoke the ground implicitly 'as an "offstage" reference point' (Langacker 2002a: 9), such as *yesterday*, which requires a 'today/now' for its interpretation, or demonstrative *this*, which is typically interpreted as in some sense near the speaker.

Within the ground, the speaker is the deictically primary speech participant. Thus, the ultimate, non-represented, temporal reference point – the temporal zero-point ( $t_0$ ) as Declerck (2006: 97) calls it – typically coincides with the time at which the speaker makes the utterance. Likewise, the primary spatial reference point is

typically formed by the speaker's vantage point (Langacker 2002a: 19). The speaker is also the only speech participant who can be 'performatively' active (Benveniste 1966: chapters 10–12), as is the case in speaker-oriented modality (Verstraete 2001: 1524): the speaker may here and now order or permit an action (subjective deontic modality), or come to a conclusion about the likelihood of an event (subjective epistemic modality). By contrast, the hearer role is assigned by the speaker (Benveniste 1966: chapters 10–12), and even when the hearer is part of the deixis as with certain demonstratives, or of the grounding of the utterance as with hearer-oriented modals in questions, this is as the result of speaker construal (Verstraete 2007 chapter 2). The third person is not part of the ground, but is defined with reference to the ground, viz. as a 'definite [...] specific entity distinct from the speech-act participants' (Langacker 1991: 148).

Grounding elements are the primary deictics in a full NP and in a finite clause, which specify the relation of the designated entity or situation to the speech event (Langacker 2002a: 7, Halliday 1994: 72, 181). The clause is 'grounded' by the finite element of the VP, expressed in English by morphological tense marking or by primary auxiliaries. The finite locates the situation vis-à-vis the ground in terms of meanings such as 'simultaneous with' or 'temporally removed from'  $t_0$  (tense), or 'uncertain, but likely according to speaker/hearer' and 'not yet realized, but obligatory according to speaker/hearer' (modality). In other words, the deictic notions associated with the states of affairs referred to by clauses are tense and modality.

The NP is grounded by the primary determiner (Halliday 1994: 181, Langacker 2002b: 33), which indicates whether the hearer should be able to identify and make mental contact with the specific instance the speaker has in mind (definite determination), or whether the hearer should mentally conjure up a new instance of

the indicated type (indefinite determination). Langacker (1991: 91) describes the cognitive instructions given by definite NPs as follows: ‘the speaker (S) and hearer (H) who jointly form the ground (G), face the task of coordinating their mental reference to some instance  $t_i$  of type T drawn from the reference mass  $R_T$  ... . When both S and H make mental contact with  $t_i$ , full coordination of reference is achieved’. In this definition Langacker builds in the fact that contexts may contain several instances of the type talked about. His concept of the reference mass refers to all the instances of the relevant type present in the context. With NPs containing definite determiners such as demonstratives, e.g. *These cats are friendlier than those cats* (Langacker 1991: 102), the speaker directs the hearer’s attention to particular instances of a type ‘out of all the possible candidates’ (Langacker 2002b: 33). Definite determiners are ‘verbal acts of pointing’ (ibid.), instructing the hearer ‘to “seek out” the intended referent’ (ibid.). However, as argued by Davidse (2004: 515), directing the hearer to the intended instances involves not only the ‘pointing’ generally associated with definite determiners, but also a form of quantitative delineation. Definite reference always involves in one way or other delineation of the singled-out subset vis-à-vis the reference mass of all the instances present in the context. This has been recognized, amongst others, in the formulation of the implicature of ‘inclusive’ reference to all contextually available instances typically associated with the definite article (Hawkins 1978).

The grounding elements, as in *you must desist* and *this dog*, are the most grammatical and abstract ones in clause and NP (Langacker 2002a: 9-13). Speaker and hearer and the relation to the speech event are part of their meaning in a wholly implicit way. To explicitly describe the relations to the speech event, one has to use expressions such as *I order you to desist*, *the dog near me/known to us*.

Clause and NP may also contain secondary deictics. In the VP, these are secondary auxiliaries expressing either secondary tense (Halliday 1994: 204), e.g. *be going to*, or non-speaker/hearer oriented modality, e.g. *have to* (Palmer 1990: 131). In finite VPs, the notions expressed by secondary auxiliaries are deictically bound<sup>5</sup> by the finite element, which has a direct relation to the speech event (Halliday 1994: 204). Secondary auxiliaries have often developed via grammaticalization from full lexical verbs,<sup>6</sup> such as the modal semi-auxiliary *have to* from lexical *have* ('possess') (Hopper & Traugott 2003: 111). Likewise, *be going to*, developed via grammaticalization from the lexical verb *go* expressing intentional motion in space towards a goal (Hopper & Traugott 2003: 3). As pointed out by Langacker (2002a: 23), a grammaticalized secondary auxiliary such as *be going to* has still more general lexical meaning than the finite element of the VP. This general lexical meaning concerns **the relation to the ground**, e.g. the relation of posteriority expressed by *be going to*, which is more explicitly profiled than the relation of anteriority to the  $t_0$  marked by morphological tense in *He was going to close the door*. The reference point of the relation designated by the secondary auxiliary **need not coincide with the ground**, as illustrated by the same example, in which the posteriority relation is bound by the past time of orientation (Declerck 2006: 16) indicated by the past tense *was*. Unlike the finite, secondary auxiliaries are not intrinsically bound to the speaker-now.

In the NP, the secondary deictics are, of course, the postdeterminers that we are concerned with in this article. In complex determiner units, the primary determiner establishes the basic deictic values such as definite – indefinite, that is, it deictically binds the more specific relation or notion expressed by the postdeterminer. As we saw, *a different girl* in (1) refers to repeatedly new instances (indefinite reference)

while *the identical fence* in (3) emphasizes that the same fence was involved (definite reference). Adjectives currently functioning as postdeterminer have often come to do so as the result of grammaticalization.<sup>7</sup> In the remainder of this article, we will investigate the shift from lexical to postdeterminer uses in more detail and we will examine whether postdeterminer adjectives have specific deictic characteristics similar to those of secondary auxiliaries, such as the possibility of invoking a secondary reference point.

### 3 DATA, METHODOLOGY AND RESEARCH QUESTIONS

The aim of this study is to arrive, by generalization from case studies, at a better conceptual and historical understanding of the deictification of adjectives within an integrated theory of deixis. To this end, we investigated two adjectives which have postdeterminer uses relating to the nominal deictic notions of space and quantity<sup>8</sup> (Langacker 2002b), *opposite* and *complete*. As noted by Bolinger (1967), nouns incorporating a temporal dimension may take postdeterminers that temporally or modally qualify the implied state or event, as in *the future king, a sure win* (Bolinger 1967: 20). Therefore, we selected three more adjectives with postdeterminer uses invoking time and modality, viz. *old, regular* and *necessary*.

To focus the investigation, we restricted the structural contexts studied to NPs with *the* + adjective, which embody identifiability of the referent as a presupposition. Such NPs can only be used if their referent is already available in one way or other in the discourse context as a singled-out entity, onto which speaker and hearer can coordinate their mental reference (Langacker 2002b: 33). For this reason we expected

this environment to strongly foreground the semantic shifts affecting adjectives in their development of identification-supporting meanings.

Because of the nature of our research questions, we analysed diachronic as well as synchronic datasets. For *opposite*, *complete*, *regular* and *necessary*, which, as Romance loanwords, came into English at a relatively late stage, we worked with samples of up to 100 instances of each adjective for the historical periods 1150–1500 and 1500–1710 from the Helsinki corpus and for the stages 1710–1780, 1780–1850 and 1850–1920 from De Smet's (2005) *Corpus of Late Modern English Texts* (CLMET)<sup>9</sup> and samples of 200 contemporary instances from the *COBUILD corpus*.<sup>10</sup> Because *old*, unlike the other adjectives, is an old adjective of Anglo-Saxon origin, its uses in earlier stages of English were examined, as attested in the *York-Toronto-Helsinki Parsed Corpus of Old English Prose* (YCOE) (750–1150), the *Penn-Helsinki Parsed Corpus of Middle English, Second Edition* (PPCME) (1150–1500), and *Penn-Helsinki Parsed Corpus of Early Modern English* (PPCEME) (1500–1710).<sup>11</sup> For the periods 1710–1780, 1780–1850, 1850–1920 of Late Modern English samples of up to 100 examples (CLMET) were studied as well as a sample of 200 for the period after 1990 (COBUILD).

For each adjective we analysed in each historical stage all the various pronominal uses as either descriptive attribute, classifier or postdeterminer. In each case study we will first summarize the postdeterminer uses which the adjective has in Present-day English. We will then describe the first postdeterminer uses observed in our historical data in relation to the lexical uses from which they derived, that is, we will reconstruct the specific form deictification took in all cases. We will focus on the questions of what type of deictic relation the adjective came to express, what reference points this deictic relation could have, and whether this shift was prepared

or accompanied by other lexicosemantic shifts such as metaphor and metonymy. Finally a general idea will be given of how the proportion of postdeterminer uses developed over time relative to other pronominal uses following the definite article.

#### 4 CORPUS STUDY OF FIVE ADJECTIVES YIELDING POSTDETERMINER USES

##### 4.1 *Opposite*

In Present-day English, *opposite* used as a postdeterminer locates the entity referred to on the other side of some reference point, either in the concrete spatio-temporal world (6) or in some metaphorical sense (7).

(6) [...] the need for a solid barrier between both sides of a super highway would impede access for emergency vehicles coming from **the opposite** direction.

(CB)

(7) [...] the ALP has clung to its clearly fake commitment to increase female representation of 35 percent, while the Bob Gibbs – Wayne Goss boys club has moved in **the opposite** direction, campaigning against female candidates at all levels in the party. (CB)

The diachronic data reveal when and how this postdeterminer use developed from a prior fully lexical use, and what this process of deictification entailed for *opposite*. As indicated by the OED and as emerged from our Middle English data, the adjective *opposite* was first used to locate things, such as stars in the sky or points on



the earth relative to geometric constructs such as degrees, meridians and latitudes, as in (8).

- (8) The nadir of the sonne is thilke degre that is **opposyt** to the degre of the sonne, in the 7 signe as thus: ... (Helsin~1\hc1250~1\hc1350~1.txt 12)

In these early predicative uses *opposite* was always followed by a prepositional phrase introduced by *to* or *from*, which explicitly describes the entity taken as reference point of the opposite-relation.

In the period 1500–1570 of Early Modern English we find the first attested postdeterminer use in our data, in which *opposite* has shifted to a use with deictic function bound by the definite article:

- (9) This circle deuideth the East part of the world from the West and also it sheweth both the North and South, for by turning your face towardes the East, you shall finde the Sunne being in that line at noonetide to bee on your right hand right South, **the opposit** part of which circle sheweth on your left hand the North. (Helsin~1\hc1500~1\hc1570~1.txt 19)

*The opposite* in (9) identifies a specific part of the meridian on which the imagined *you* evoked by the writer is positioned. The opposite-relation is no longer part of an objective configuration being described out there, but is crucially tied to the vantage point of a conceptualizer (Langacker 2002a: 15–16), in this case speech participant *you*. The exact reference point of the opposite-relation is specified in the preceding discourse as the right-hand side of the imagined *you* on the meridian. For its

interpretation, *opposite* in (9) thus invokes both a conceptualizer within the ground (*you*), and a reference point distinct from but related to *you*. This sort of more complex deictic relation with a reference point that does not coincide with the ground cannot be expressed by a primary determiner like *the* or *that*. In this respect, the first postdeterminer use of *opposite* attested in our data immediately bears out the expected analogy with the deictic complexity observed by Langacker (2002a) for secondary auxiliary *be going to*.

The deictification of *opposite* is also a clear case of subjectification. In the shift from designating a relation with objective reference point to one with subjective reference point, the speaker becomes an intrinsic part of the meaning of determiner + *opposite*, which incorporates the speaker's point of view, as is characteristic of deictic meanings (Traugott & Dasher 2002: 22). Moreover, even though the deictic use of *opposite* depicts a relation to speaker and hearer, the speech participants are not explicitly expressed in the NP. Thus there is also subjectification as defined by Langacker (2002a: 15): speaker and hearer are part of the meaning but not of the scope of linguistic predication: they have moved 'off-stage' in the linguistic expression.

When we look at the next time slice in our data, Late Modern English, we see that, from the period 1710–1780 on, the conceptualizer invoked by *opposite* extends from speech participants such as the narrating *I* in (10) to third persons like *the Alemanni* in (11).

- (10) Mr Banks, Dr. Solender, and myself only landed at first, and went to the side of the river, the natives being got together on **the opposite** side.  
(CLMET~1\cook-c~1.txt 42)

*The opposite* in (11) invokes “the conception entertained” (Langacker 2002a: 20) by the described individuals, but as noted by Langacker (2002a: 20), that “conception is also entertained by the speaker”, in this case, the narrative voice in the text. In principle, the relation between the primary conceptualizer, the narrator, and the secondary conceptualizer, the described character, can be of two types. The vantage point of the primary and secondary conceptualizer may coincide as a result of what is called ‘character-focalization’ in literary theory, i.e. evoking the world through the eyes of a specific character. However, it is also possible for the vantage point of the narrator to be distinct from and to transcend the vantage point of the character, as in (11), in which *the opposite bank* evokes a narrator who as primary conceptualizer transcends the restricted vantage point of the secondary conceptualizer, *the Alemanni*.

(11) and the Alemanni, laden with the spoils of Italy, arrived at the Danube, without suspecting, that on **the opposite** bank, and in an advantageous post, a Roman army lay concealed and prepared to intercept their return.  
(CLMET~1\gibbon~1.txt 48)

In addition, it has to be observed that *opposite* with third person conceptualizer may have a reference point different from that of the conceptualizer – as was the case with conceptualizer *you* in (9) – so that *opposite* does not mean ‘what the conceptualizer sees in front of him or her’, but ‘opposite a more specific reference point associated with the secondary conceptualizer’. In (12) either the female main character or the young man who accompanies her and whom she ignores may be taken as reference point of the opposite-relation.

- (12) She saw and inwardly rejoiced at the humility of his looks; but far from rewarding it with one approving glance, she industriously avoided this ocular intercourse, and rather coquetted with a young gentleman that ogled her from **the opposite** box. (CLMET~1\smolle~1.txt 34)

Throughout the three stages of Late Modern English the relative frequency of postdeterminer *opposite* in NPs with *the* increased from 51% to 67% to 88%. This happened at the expense of the qualitative uses that had developed from the mathematical notion ‘opposite’, as in *very opposite views, reasons, intentions*, etc. In Present-day English, the relative proportion of *opposite*’s postdeterminer use has fallen back to 56 %, but this is due uniquely to the explosion in frequency of the expression *the opposite sex*, in which the classifying adjective + noun form a lexicalized unit.

#### 4.2 *Old*<sup>12</sup>

In Present-day English, *old* has two basic postdeterminer meanings, roughly equivalent to ‘past’ and ‘former’. It may locate the event or state described by the NP in the past, as in

- (13) Women are entering into competition with men more and more and **their old** subordination to and dependence on men is fast disappearing. (CB)<sup>13</sup>

or it may indicate that the status or function described by the head noun which applied to the referent in the past has been superseded, but can still be used to bring about mental contact with that referent, as in

- (14) Anders completed the distance in 20 minutes seven-point-five-two-seconds, taking nearly nine-and-a-half seconds off **the old** record, set by Australia's Kerry Saxby in January. (CB)

For the reconstruction of how these postdeterminer uses developed we turn to the diachronic data. In the first stage of the Old English data, 750–850, *old* is used only as a qualitative adjective, which ascribes such gradable features to animates and things as ‘having lived or existed long’, ‘having the characteristics [...] of age’ (OED 7: 97). Already from the second stage, 850–950, on, it is also used as a classifying adjective with a non-gradable meaning, as in (15), in which *ealdan* (‘old’) collocates with *æ* (‘law’).

- (15) Ond suæ suæ ðara monna honda and fet wæren aðwægene on **ðære ealdan æ** on ðæm ceake beforan ðæm temple (YCOE 850–950) (‘And like in the old law the hands and feet of the men were washed in the basin before the temple, ...’)

This combination, which refers to the Decalogue of the Old Testament, is very frequent throughout the Old English period, accounting for 43.15% of all *the + old* sequences. Apart from *æ*, other nouns are attested, such as *gecyðnys* and *gesetnys*

(‘law’). Another, less frequent classifying use is found in examples such as (16), which refers to peoples of a past era.

- (16) Her **Ald Seaxe & Francan** gefuhtun. (YCOE 850–950) (‘(‘Here have fought the Old Saxons and Franks.’)

In these uses, *old* adds the subcategorization ‘associated with an earlier time or period’ to the meaning of the head noun. The adjective has clearly undergone semantic generalization and shift of perspective from ‘being old and having the characteristics of it’ to ‘lying in the past’. In its classifying use, *old* also intrinsically invokes a reference point with regard to which it lies in the past. These reference points are fixed, objective ones (p.c. Jean-Christophe Verstraete) such as specific time periods or other historical landmarks. In (15), Mosaic law is categorized as ‘past’ in comparison with the ‘new’ law given by Christ, while in (16), the description *Ald Seaxe* (‘Old Saxons’) applies to that people during a specific past time period.

In addition to the first classifying uses, the 850–950 period also witnesses the first secondary deictic uses of *old*. Whereas the former categorize entities as ‘past’ relative to fixed historical reference points, the postdeterminer uses locate referents relative to the time of utterance or the time focused on in the discourse. As the earliest attestations of both uses date from the same period, we cannot posit a diachronic process of subjectification between them. Rather, the main semantic shift was from the gradable qualitative meaning of *old* to uses involving a relation with a temporal reference point, which is objective in the case of classifying *old* and subjective in the case of postdeterminer *old*.

The first postdeterminer uses of *old* locate states of affairs (SoAs) depicted by deverbal nouns in an ‘anterior time’, as in (17)–(18) (cf. Brinton 2002: 79–84 on the comparable use of temporal adverbs in NPs, as in *all his hitherto offences, the then fermentation*).

- (17) ond æfter cwom god gear and wæstmbeorende. Ond swa awurpon **þa aldan dysignesse** and deofolgild onscunedon (YCOE 850–950) (‘And afterwards came a good and fertile year. And they thus rejected the old folly/blasphemy, and shunned devil worship.’)
- (18) Se Themestocles gemyndgade Ionas **þære ealdan fæhþe** þe Xersis him to geworht hæfde, hu he hie mid forhergiunge and mid heora mæga slihtum on his geweald geniedde. (YCOE 850–950) (‘Themistocles reminded the Ionians [an ancient Hellenic people] of the old hostility that Xerxes had done to them, how he in his command oppressed them with devastation and with murders of their kinsmen.’)

In (17), the NP *þa aldan dysignesse* designates ‘the folly’ that lies in the past of those persons who rejected it, which refers to the local religion prior to Christianity. In other words, rather than expressing the meaning ‘past relative to an objective reference point’, *old* expresses an anteriority relation relative to represented SoAs, which in their turn are past to the temporal zero-point ( $t_0$ ). The meaning of these SoAs, viz. *aweorpan* (‘throw away’, ‘reject’) and *onscunian* (‘shun’, ‘avoid’), implies that the folly is no longer adhered to at the time of the narrative (i. e. the past time of *awurpon* and *onscunedon*).

The same analysis applies to (18), in which Xerxes' hostility to the Ionians is temporally located before the past SoA *gemyndgade*. In particular, the past perfect form *geworht hæfde* makes clear that the acts of hostility, specified in the *hu*-clause, are anterior to the past time of *gemyndgade*. However, besides the 'act of hostility', the noun *fæhþe* may also designate the – lingering – feeling of hostility or opposition. On this reading, *ealdan* can be interpreted as a subjective qualitative attribute, meaning 'long-standing' and reflecting the negative connotations of the noun *hostility* which it modifies. In the Old English data we found quite a few similar cases with nouns that could refer either to (past) acts or to the (continuing) emotions caused by them, which suggests that this ambiguity between a subjective attribute and a postdeterminer reading may form one of the semantic paths to the postdeterminer meaning of 'past'.

The anteriority relation established by postdeterminer *old* can be associated with third persons, as in (17) and (18) above, but also with the speaker, as in (19).

- (19) Se, Lord, þou kneu all þe last þynges and **þe old** (PPCME 1250–1350) ('See, Lord, you know all the last things, and the old [things]')

This example is a translation of verse (5) from the well-known Psalm 139, in which the psalmist expresses that the Lord knows him through and through. The NP *þe old*, with head noun *þynges* elided, designates 'the things (his thoughts, acts, etc.) that lie in the past of the speaker'. Thus, *old* in (19) expresses an anteriority relation directly related to the speaker-now ( $t_0$ ).

The 'former' postdeterminer use of *old* emerges later in 1350–1420, with nouns designating roles and functions, as in *þe olde* (as opposed to *þe newe*) *kyng* in (20) (cf.



Brinton 2002, which deals extensively with the ‘former’ meaning that time adverbs in NPs came to express from Early Modern English on). Even though at first sight roles of people such as *king*, *dean*, *bishop* and functions of inanimates such as *abbey*, *nunnery*, *coins* refer to entities rather than SoAs, they do invoke a processual, temporal substrate. Roles are enacted in appropriate actions and entities may be the official loci or instruments of specific actions. All are bound in time.

- (20) Meny [{}Iewes{}] come to þis solempnite leste þe welþe þat þei hadde under **þe olde** kyng schulde be wiþdrawe in þe newe kynges tyme. (PPCME 1350–1420) (Many Jews came to this solemnity lest the wealth that they had under the old king should be withdrawn in the new king’s time.)

In (20) *þe olde kyng* refers to the person who formerly held the title ‘king’ and who presumably is no longer alive at the past time of the narrative. The temporal reference point marking that person as the former ‘king’ is thus a past time, distinct from the time of speaking. As an example such as (21) illustrates, the previous title holder may also still be alive at the time of the discourse. Likewise with inanimates, we find NPs referring to entities in terms of their previous role that are no longer around (22) or to entities which have been stripped of their value but still exist (23).

- (21) The xxix day of May was depraved of ys byshopepryke of London doctur Boner, and in ys plasse master Gryndall; and [{}Nowell{}] electyd dene of Powless, and **the old** dene depraved, [...] (PPCEME 1500–1570) (‘On the 29th day of May doctor Boner was deprived of his bishopric of London, and master

Gryndall was put in his place; and Nowell was elected dean of Powless, and the old dean was put out of office.’)

- (22) And the same yere the Crosse in Chepe was take a dovvne and a newe sette uppe there þat **the olde** Crosse stode (PPCME 1420–1500) (‘And the same year, the cross in Chepe was taken down and a new one set up again there where the old cross stood.’)
- (23) And the same yere the kyng let make to be smetyn newe noblyls but they were of lasse wyght thenne {of} was **the olde** nobylle by the paysse of an halpeny wyght, soo that a nobylle shuld wey but iiij d. and halfe a peny (PPCME 1420–1500) (‘And the same year, the kind had new nobles forged, but they were of less weight than the old noble was by the weight of a halfpenny weight, so that a noble should weigh but four d. [i.e., penny] and half a penny.’)

The reference point determining the non-application of the role or function mostly lies before the time focused on in the discourse, as in the above examples, but occasionally it can also lie in the near future, as in (24), in which the administrative methods in question still exist at the time of speaking but will soon be done away with.

- (24) The loud rejection of the article made us see more clearly that we must move ahead faster. Similarly, we are now rejecting all attempts to conserve **the old** administrative methods. (CB)

We can conclude that both postdeterminer uses expressed by *old* invoke the temporal dimension associated with SoAs, which are described by the nouns collocating with *old* in its ‘past’ meaning and implied by those co-occurring with *old* in its ‘former’ meaning. With both there is the possibility of having a reference point distinct from the ground.

From the 15<sup>th</sup> century on, we find the two postdeterminer uses of *old* co-occurring with collocational sets with the same selection restrictions as in Present-day English. In its ‘former’ meaning, *old* collocates with institutional roles as well as with sociocultural products such as official buildings, charters, money, taxes, etc. In its ‘past’ meaning, *old* collocates with deverbal nouns, nominalizations and other nouns implying states and events. In Present-day English, postdeterminer *old* simply extends to more collocates within these sets. In terms of relative frequency of postdeterminer uses versus other pronominal uses in NPs with definite article, there is a slight rise throughout the various historical stages: from 4.6% in Old English, to 9.4% in Middle English, to 12.8% in Early Modern English, to 13% in the first stage of Late Modern English, and to 18% in Present-day English.

### 4.3 Complete

The current postdeterminer use of *complete* can be summarized as indicating that reference is made to the whole entity, as in

- (25) To care for your Retractable Brushes, follow washing instructions (see Before you Begin) taking care not to immerse **the complete** unit in the water. (CB)

- (26) And, in contrast to the accepted practices of the time, he had memorised **the complete** score. (CB)

More specifically, *complete* expresses a type of relative quantification (Langacker 1991: 107ff): in these examples there is an inherent notion of the ‘whole’ thing, and *complete*, like a universal quantifier such as *all*, quantifies over this whole thing.

This postdeterminer use appears to have derived from one of the earliest adjectival uses, still close to the perfect participle of the verb *complete*, which was predicated of periods such as a month or a year that ‘has run its full course’ (OED 2: 725), as in (27). The state of completeness in these examples has an objective reference point, viz. the end of the month.

- (27) Whan that the Monthe that highte March Was **compleet**. (Chaucer 1386, I nun’s Pr. T. 369) (OED)

It is this ‘perfective’ sense that relates most closely to the postdeterminer uses, which begin to be attested in the data from the period 1500–1640 on, such as (28).

- (28) the late difference arisen in the Corporae-on of Our City of Dublin in that Our Kingdome, about the Election of Common Councill men out of the severall Companies, [...] Wee have thought fit in pursuance thereof to signify to you Our Pleasure that the last choice made by the Lord Mayor of that Our Citty of **the compleate** number of Common Counsell men all at once, leaving out the ten or eleven Roman Catholiques that were chosen at the first choice, shall standand be confirmed, ... (Helsin~1\hc1500~1\hc1640~1.txt 98)

In this example, the NP with *the complete* refers to all the newly chosen council men for Dublin, leaving out the Catholics that had been chosen earlier. This shift from predicative to postdeterminer use of *complete* was accompanied by two lexicosemantic changes. Firstly, the earlier perfective meaning of *complete* illustrated in (27) generalized beyond the description of time periods, so that it could also apply to for instance abstract numbers, as in (28). Secondly, *complete* underwent a shift of perspective from focusing on the final stage to profiling the whole. That as a postdeterminer *complete* applies to the whole, not just to the final stage, is also in evidence in (29), in which it delineates the whole reign of ‘popery’.

- (29) Section II. [...] State of the popular mind in Christendom during **the complete** reign of Popery. (CLMET~2\fooster~1. txt 4)

Still, in some examples, the NP containing postdeterminer *complete* contributes, in interaction with the VP, to the expression of the telicity of the action, representing it as “tending towards a natural (inherent) point of completion” (Declerck 2006: 60). This may re-activate an element of the original ‘final stage’ semantics of *complete*, as in (26) above. If we take these shifts into account, the deictification of *complete* can be viewed as another instance in which a relation with objective reference point is transformed into one with subjective reference point, viz. the contextually given instance it quantifies over.

What deictic meaning does *complete* add to the primary determiner? The definite article refers by implication to the whole contextual instantiation of the type designated by the NP; NPs with *the* have an implicature of inclusive reference (see

section 2.3). Hence, adding a postdeterminer like *complete* to the determining meanings of the NP might at first sight appear to be redundant, but it is used in contexts in which there is in some sense doubt, or a counterexpectation, as to whether the whole potential instance is being talked about, or is in fact involved in the act described by the VP.

In that *complete* merely makes explicit an element that is normally part of definite identification, *complete* is not a postdeterminer which like *opposite* and *old* creates a more specific determining meaning. Nor can it take a reference point distinct from the ground: its reference point is always the full contextual instantiation that speaker and hearer are aware of. For these reasons, *complete* can be viewed as an emphasizing postdeterminer, like *same* and *identical*. Just as the latter typically emphasize the coreferentiality with a referent given elsewhere in the discourse, postdeterminer *complete* stresses the inclusive reference, as in *State of the popular mind in Christendom during **the complete** reign of Popery* (29), which touts the comprehensiveness of coverage of the book section.

The general semantics and pragmatics of the postdeterminer use of *complete* are very stable from the early periods of its emergence to its current uses. The relative proportion of postdeterminer uses in NPs with the definite article has increased from 9% in 1500–1640 through 17% in 1850–1910 to 35% in Present-day English. This means that *complete* has spread to many more nouns. Collocationally, *complete* seemed to be more restricted to nouns with an obvious measurable element in their semantics in Late Modern English, such as *number*, *reign*, *range*, *circumference*, whereas in Present-day English it is also used with nouns such as *unit*, *score*, *show*, etc.

#### 4.4 Regular

*Regular* has developed two related postdeterminer uses, an aspectual one indicating that the event or action described by the deverbal head noun successively re-occurs, e.g. (30)

- (30) [...] **the regular** loss of wickets meant they were doomed once skipper Mohammad Azharuddin departed ... (CB)

and a modal one, assessing “a potential or inevitability inherent in the situation” (Nuyts 2005: 8), e.g. (31)

- (31) Snow fell in Tenterfield as well as west of Sydney and on **the regular** snow fields yesterday as a cold front gripped the entire coast of Australia. (CB)

Most modal uses do not involve reference to whole events by deverbal nouns, but to typical participants in these events such as the areas in Australia on which, unlike Tenterfield and the west of Sydney, snow in winter is more or less inevitable and which can therefore be identified as *the regular snow fields*.

These two uses of *regular* derive from the gradable qualitative meaning ‘with a symmetrical pattern’, which is attested first in our 1500–1640 data. In the period 1710–1780, *regular* manifested a semantic shift that paved the way for deictification, viz. a metaphorical transfer from space to time. In the specific environment of binominal NPs, *regular* extended from assessing spatial patterns, as in *the regular cast of her features, the regular and uniform elevation of the land*, to assessing

abstract temporal ones, as in *the regular progress of cultivated life, the regular succession of civil and military honours*, and example (32).

- (32) [...] since nothing is ever really present to the mind, besides its own perceptions, it is not only impossible, that any habit should ever be acquired otherwise than by **the regular** succession of those perceptions, but also that any habit should ever exceed that degree of regularity. (CLMET~1\hume~1.txt 83)

Particularly in examples such as (32), in which the second noun refers to events, the semantic extension from ‘regular’ (temporal pattern) to ‘recurrent’ (event) seems to be prepared.

It is in the same period, the beginning of Late Modern English, that we find the first postdeterminer uses such as (33), in which *regular* is followed by a singular deverbal noun describing a SoA and in which its meaning has shifted to expressing regular recurrence of that type of event.

- (33) Nor is the act of settlement only preserved unviolated by the reasons of the present alliance, but by **the regular** concurrence of the senate which his majesty has desired, [...]. (CLMET~1\johnso~1.txt 94)

In the process, the meaning of *regular* has become more general and more grammatical, indicating iterative aspect (Declerck 2006: 35), and has subjectified in that the norm implied by descriptive *regular* has been transformed into speaker assessment of frequency.



What sort of deictic relation is expressed by *the regular* and how does it relate to the ground? Just like the ‘past’ postdeterminer use of *old*, NPs with iterative *regular* refer to actions and events, and invoke verbal deictic semantics. The iterativity is always assessed within a specific portion of the time axis. Which time span is determined by the tense of the VP in the clause of which the NP is part, as in example (29), in which *meant* is in the past, situating the losses of wickets in a time span anterior to the temporal zero-point. In (33), the perfect *has desired* locates the concurrences of the senate in a period starting in the past and leading up to the present. In sum, iterative postdeterminer *regular* always has a temporal reference point, which may (partly) coincide with the ground or which may be distinct from it.

In the last period of Late Modern English, 1850–1910, we can observe the second step in the deictification process, in which the re-occurrence notion gives rise to the dynamic modal notion of necessity, that is, of characteristics inherent in a situation necessarily leading to the indicated results (Palmer 1990: 130, Nuyts 2005: 8). The height and location of areas such as the Snowy Mountains in (31) inevitably lead to them being snow-covered in winter, and in (34) the social mores were such that a birthday speech by the chief was inevitable.

- (34) We, in the servants’ hall, began this happy anniversary, as usual, by offering our little presents to Miss Rachel, with **the regular** speech delivered annually by me as the chief. (CLMET~3\collin~1.txt 24)

In other words, the modal meaning at stake is not the performative epistemic one of the speaker drawing a conclusion here and now (Palmer 1990: 130, Verstraete 2001: 1524) but that of indicating the necessary results of inherent characteristics of the

situation. Because of this ‘characterizing’ meaning, the modal uses of *regular* may have not only the temporal zero-point as reference point, but also past times of orientation. For instance in an example about the ice age, a use of *the regular snow fields* is imaginable whose reference point is past with regard to the time of utterance.

In conclusion, the two postdeterminer meanings of *regular*, the aspectual and the modal one, are both used in NPs referring to or implying SoAs. Both invoke a temporal reference point that may coincide with or be distinct from the ground. Because of the verbal semantics of the deictic meanings of *regular*, its most noticeable co-selection tendency is with deverbal and nominalized head nouns, particularly in the iterative use. Quantification of the postdeterminer uses in our sample reveals steady and increasing deictification of *regular*: from forming smaller proportions of all the pronominal uses in NPs with definite article in the first two stages of Late Modern English, the postdeterminer uses of *regular* go up to 15% in the third stage of Late Modern English, and to 30% in Present-day English.

#### 4.5 *Necessary*

Throughout its history *necessary* developed two dynamic modal postdeterminer meanings: a very common one indicating that the entities referred to are needed in view of some aim (35), and a much more marginal one indicating that some SoA is the logically inevitable corollary of another SoA (36).

- (35) It seems obvious federal governments have failed to take **the necessary** action to deal with the problem. (CB)

- (36) A second and very rare condition of an elective government is a CALM national mind – a tone of mind sufficiently staple to bear **the necessary** excitement of conspicuous revolutions. (CLMET~1\cook-c-~1.txt 100)

*Necessary* was at first, in Middle English, used only predicatively in the sense of (religiously, morally or physically) ‘essential’, ‘needed’, as in (37).

- (37) And therefore seith Seint Austyn that ‘ther been two thinges that arn **necessarie** and nedefulle, and that is good consience and good loos; ... (Helsin~1\hc1250~1\hc1350~1.txt 81)

After 1500 it also came to be used prenominally in front of nouns with which it shared the semantic feature ‘required’, e.g. *the necessary Charges, those necessary Duties of Religion, the necessary ceremonials, the necessary Dutys of the Ship*. According to Sinclair (1991), adjectives restating features inherent in the head noun, end up delexicalizing in these collocations, which may have paved the way for the deictification of *necessary*.

It is precisely in these combinations that the earliest postdeterminer uses can be observed in the period 1500–1640, such as (38) in which *necessary* is bound by *all* rather than *the*.

- (38) Wee doe hereby require and direct you to doe all things, and give **all necessary** orders for the speedy settling of this affaيرة accordingly. (Helsin~1\hc1500~1\hc1640~1.txt 98)

The determiner complex *all necessary*, whose primary determining meaning is quantificational, has to be contextually related to ‘for the speedy settling of this affair’, as reinforced by *accordingly*. *All necessary* gives an instruction for cataphoric retrieval of its contextual specification and in this way identifies the orders in question as ‘all those required for speedy settling’.

The emergence of the second postdeterminer use appears to be the result of an analogous process. Starting in the 1250–1350 period, the very common fixed expression *a necessarie conclusioun* establishes the sharing of the semantic feature ‘logically necessary’ between adjective and noun, which extends at the beginning of the 18<sup>th</sup> century to other combinations such as *the necessary consequence/connection/effect*. It is again in one of those combinations that the postdeterminer use expressing the logically necessary relation between two SoAs emerges:

- (39) To complain of the age we live in, to murmur at the present possessors of power, to lament the past, to conceive extravagant hopes of the future, are the common dispositions of the greater part of mankind – indeed, **the necessary** effects of the ignorance and levity of the vulgar. (CLMET~1\burke--~2.txt 2)

In this example, the SoAs making the effects referred to inevitable have to be retrieved cataphorically as being ‘the ignorance and levity of the vulgar’. After the emergence of these first cataphoric uses, the two postdeterminer meanings of *necessary* develop anaphoric uses, illustrated in (40) and (41) respectively.

- (40) But it is known, sir, that in king William's reign, very few estimates were honestly computed; it is known that the rotation of parties, and fluctuation of measures, reduced the ministry to subsist upon artifices, to amuse the senate with exorbitant demands, only that they might obtain **the necessary** grants, [...] (CLMET~1\smith--1.txt 22)
- (41) She got into the victoria and placed herself with her back to the horse. **The necessary** roar ensued, [...] (CLMET~3\forste--1.txt 88)

The unit *the necessary* has a complex deictic meaning incorporating a modal, a phoric and a quantificational element. The modal notion found in examples such as (35), (38) and (40) is not performative and does not invoke on-the-spot authority of the speaker (Verstraete 2001: 1524f). Rather, it refers to what is 'required' for specific goals, i.e. circumstantially determined necessity (Nuyts 2005: 8). The primary link to the speech event is hence formed by the temporal location of the goals or circumstances. In a present tense clause like (38), *necessary* has the temporal zero-point as reference point. In (35), the NP *the necessary action* is part of a non-finite clause anterior to the present main clause, and its temporal reference point is the past time of that non-finite clause. Similarly, the concept expressed by *necessary* in examples such as (39) and (41) is not *hic et nunc* deduction by the speaker, but the indication of an 'inevitable' relation between two SoAs, whose location, simultaneous with the temporal zero-point in example (39) and anterior to it (41), provides the link with the ground. We thus see that the reference point of postdeterminer *necessary*, in its two dynamic modal senses, may either coincide with the ground or be distinct from it.

Secondly, the deictic unit *the necessary* expresses ‘phoric’, i.e. cataphoric, anaphoric or even exophoric, relations. It gives instructions for retrieval from the text or situational context of the determinants of the modal relations expressed by *necessary*. With the ‘required’ uses, these are the specific needs and goals determining what the NPs refer to, and with the ‘inevitable’ uses, the situations causing the SOAs referred to. In other words, the phoric nature of postdeterminer *necessary* is motivated by its dynamic modal semantics, for which external determinants have to be indicated.

Thirdly, the ‘required’ use of *the necessary* has developed a typical pragmatic inference of quantity, by which it conveys something like ‘the right amount of’. This quantitative inference, which can be observed from the beginning of Late Modern English on with two specific sets of gradable nouns (Paradis 2000: 243), viz. nouns denoting emotion and exertion such as *the necessary tenderness, degree of buoyancy, effort, care and pains*, etc. (42) and measure nouns such as *the necessary sum, standards, grants, amount, expense, quantity*, etc. (43).

(42) Solidity and delicacy of thought must be given to us: it cannot be acquired, though it may be improved; but elegance and delicacy of expression may be acquired by whoever will take **the necessary** care and pains.  
(CLMET~1\cheste~1.txt 33)

(43) Put what Sugar you think proper into each Dumpling, when you take it up, and **the necessary** quantity of Butter. (CLMET~1\bradle~1.txt 95)

Towards the end of Late Modern English and in Present-day English, quantitative implications are also increasingly activated by the core uses of *the necessary*, which

pertain to actions or instruments required for the achievement of goals in specific situations. Particularly in the Present-day data, the collocating head nouns found in this type of use, such as *the necessary action, support, supplies, resources, criteria, standard, infrastructure, time, vitamins*, etc. seem to invoke both qualitative and quantitative norms which have to be met in order to realize the aims inherent in those contexts. The exact nature and size of these norms often remain oblique to the reader who is not ‘in’ on these situations. In this way, *the necessary* may function as a summation of specifics which the speaker, for some reason, does not go into, as in (43) above.

This characterization of the dynamic modal meaning of *the necessary* also gives an idea of how the objective norms of what is (religiously, morally or physically) ‘essential/needed’ in the descriptive use were transformed into a subjectively construed relation of ‘necessity’. In this context it can also be noted that, even though *necessary* continues to be used predicatively in other senses up till the present day, no idiomatic predicative alternates tend to be available for its very specific, pragmatically enriched, secondary deictic senses: for instance, *the roar is necessary* is not semantically equivalent to *the necessary roar* in (41) and neither is *the care and pains are necessary to the necessary care and pains* in (43).

As to their quantitative occurrence, the ‘required’ and ‘inevitable’ postdeterminer uses develop along paths which are rather different. In terms of relative frequency, the ‘required’ uses steadily increase from 30% in 1710–1780, through 46% in 1780–1850 and 55% in 1851–1910, up to 80% of all pronominal uses in NPs with *the* in Present-day English. The ‘inevitable’ use shows a small momentary rise to 8% in the third stage of Late Modern English, but most of the uses

attested in that period, illustrated by (39) and (41), are not possible anymore and the ‘inevitable’ sense of *necessary* has now all but disappeared.

## 5 GENERALIZING FROM THE CASE STUDIES

What do the case studies in section 4 teach us about the meaning and development of postdeterminers? By having investigated postdeterminer uses of adjectives other than those of comparison, we can, building on Breban’s (2002, 2006c) findings about the grammaticalization and semantic shift of the latter, work towards a more comprehensive and precise understanding of the deictification of adjectives. For all the adjectives investigated, the postdeterminer uses are preceded by fully lexical uses, which usually first appear in predicative position. In general the postdeterminer uses also increase in frequency through time at the expense of the descriptive prenominal uses. This shows that the diachronic grammaticalization hypothesis investigated by Breban (2006a, 2006c, forthcoming) for the adjectives of comparison applies more generally.<sup>14</sup> On the basis of the five case studies, we can also analytically go beyond the traditional semantic glosses of the postdeterminer function such as ‘helping identification’.

For adjectives to be able to develop postdeterminer uses in the first place, they have to express a relation which can come to be used to locate the nominal referent in the universe of the discourse. Some of the adjectives studied in this article expressed such a relation from the start, like *opposite*, whose original meaning was ‘spatial position over and against something’. *Opposite* did *not* undergo any noticeable semantic generalization or any other of the traditional lexicosemantic shifts before or



during the deictification process. Other adjectives in our case studies underwent a semantic change towards expressing such a general relation *prior* to deictification, like *regular*, which had already undergone metaphorical transfer from the spatial to the temporal before its deictification. Still others underwent one of the traditional lexicosemantic changes *in* the deictification process, such as *complete*, which generalized semantically as part of the deictification process. Hence we conclude that deictification cannot simply be equated with semantic generalization or one of the other meaning shifts traditionally associated with grammaticalization (e.g. Bybee 2003).

Deictification, then, is a semantic process which has to be described more specifically with concepts from a theory of deixis. We propose that the deictification of adjectives is *a meaning shift which gives the general relation profiled by the adjective a reference point that is directly or indirectly related to the speech event*. Like secondary auxiliaries, postdeterminers semantically profile these relations to the speech event. *The opposite* and *the old*, for instance, explicitly designate spatial and temporal relations, whereas primary determiners such as *this* and *that* do not. Postdeterminer uses of adjectives often involve semantic generalization from their original lexical uses, but they are semantically still less abstract than primary determiners. With regard to all the adjectives studied we have noted that deictification involved a shift from the expression of a relation with an objective reference point to one with a subjective reference point. Deictification is a subjectification process in the sense of Traugott (1989: 31), in that relations originally describing situations out there shift to relations located in the textual situation and to meanings involving the speaker's perspective (Traugott & Dasher 2002: 22). The secondary deictic relations that thus evolve are subjective constructs associated with a specific speaker-hearer

exchange, which can only be processed relative to that exchange. For instance, *the old record* will refer to different sports milestones in a text of 1910 than in one of 1990. It is in this respect that secondary deictics differ from, for instance, defining attributes. Any precise semantic gloss of postdeterminer meanings requires reference to the speech event and ultimately to the speech participants. Deictification is also a case of subjectification according to Langacker's (2002a: 15) definition, in that speaker and hearer are intrinsically part of the meaning of the determiner and postdeterminer unit, but do not – and cannot – receive explicit linguistic coding: corresponding to *the old record* in (14) one cannot get *\*the old to now record*, nor to *the regular speech* in (34) *\*the regular to me speech*.

To get a better grasp of the secondary deictic meanings of adjectives, we investigated, inspired by their analogy with secondary auxiliaries, whether they may also take reference points that differ from the ground. Postdeterminers to do with (non-)identifiability and relative quantification cannot have reference points distinct from the speech event. With postdeterminers marking identifiability (e.g. *same*, *identical*) the reference point is formed by entities which for some reason are already known to speaker and hearer, while with postdeterminers of relative quantity (e.g. *complete*) the reference point is the full contextual instantiation of a thing or mass which speaker and hearer are aware of. We venture that this is so because the identification and quantitative delineation of the instances referred to are the most fundamental cognitive operations involved in definite reference (Langacker 1991, Davidse 2004). As noted in the discussion of *same*, *identical* and *complete*, these postdeterminers tend to merely emphasize the coreferentiality and inclusive reference conveyed by the primary determiners.

The other postdeterminer uses studied involved either a spatial (*opposite*) or a temporal relation to the ground (*old, regular, necessary*). All of these can have a reference point coinciding with the speaker's spatial or temporal vantage point or one different from but related to the speech event. These postdeterminer meanings are not redundant with the primary determiners, but contribute additional information situating the referent. The situating postdeterminers confront us with the puzzle that they<sup>15</sup> accommodate not only notions traditionally associated with nominal deixis (space) but also typically verbal and clausal notions (tense, modality).

Langacker (2002b: 32–33) has cognitively motivated the traditional dichotomy between nominal and clausal deixis by positing a fundamental asymmetry between the construal of things and processes. In his view, the referents of NPs are prototypically objects in the spatial world, whose existence is taken for granted, but for which the key issue is identification. “Because objects endure, at a given moment C [the conceptualizer] is surrounded by many objects, including multiple instances of the same object type.” (Langacker 2002b: 32). The simultaneous focusing by speaker and hearer on the intended instantiation is typically brought about by deictic specifications in terms of location and quantification of the entity-instance. The referents of clauses, by contrast, are actions, events and states with a temporal dimension, for which the main issue is whether they exist, i.e. whether they are real or potential, and they are grounded either temporally or modally.

While it is true that the primary determiners of NPs are to do with identifiability, quantity and space (concrete and metaphorical), and the finite element of the VP is either a tense or (performative) modal marker, secondary deictics challenge this strongly asymmetrical picture. The set of postdeterminer adjectives studied in this article reveals that subordinated to these direct relations to the ground,

situating relations can be expressed in which notions assumed to be either typically nominal or verbal are inextricably intertwined. Or, put differently, nominal referents may invoke a processual dimension, or a SoA-substrate, in more ways than traditional thinking has it, according to which only nominalizations allow for temporal and modal qualifications. To identify these other ways, we will look at which of Nuyts's (2005) qualifications of SoAs are expressed by the adjectives studied here, which were intuitively selected to be representative of the various speech-event related notions that can be expressed by secondary deictics.

Nuyts (2005) proposes the following functional hierarchy of SoA-qualifications (Figure 1), in which those placed higher tend to take the lower ones in their scope and in which three groupings can be distinguished: (1) those involving *hic et nunc* commitment of the speaking subject; (2) those situating the SoA; (3) those that are part of the predicated SoA.

- (1) > evidentiality
  - > epistemic (performative) modality
  - > deontic (performative) modality
- (2) > time
  - > space
    - > quantificational aspect (frequency and dynamic modality)
- (3) > qualificational aspect (internal phases)
  - > (parts of the) SoA

Figure 1: Hierarchy of qualifications of SoAs (Nuyts 2005: 20)

All the postdeterminer uses of *opposite*, *old*, *regular* and *necessary* fall under Nuyts's subgroup of qualifications situating the SoA. *Old* and *opposite* involve time and space, while the secondary deictic senses of *regular* and *necessary* are subsumed under quantificational aspect, which is defined by Nuyts as not only including iterativity but also dynamic modality.

Unlike Langacker (2002b), who strongly contrasts spatial nominal deixis with temporal clausal deixis, Nuyts (2005: 19, 22) stresses that SoAs are situated both in time and space, with time having scope over space. Assessing the temporal and spatial situation of a SoA requires relating it to a set of complex and abstract parameters for which the speaker has to transcend the immediate perception of the SoA, which is all that is needed for the predicate-internal qualifications (Nuyts 2005: 22). The temporal and spatial locations of SoAs can also be or not be relative to another SoA. As this study is concerned with the referents of NPs rather than of clauses, it raises the question of how nominal referents invoke SoAs. The combination of *old* with a deverbal noun is easily explained: it expresses the temporal relation to the ground of the event or state referred to by the NP, as in *their old subordination to men* (13). As for the ‘former’ postdeterminer use of *old*, as in *the old king* (21), *the old cross* (23), we pointed out that the roles of people and the functions of things intrinsically evoke associated actions, which are bound in time. Likewise, the complex spatial perspectives construed by *the opposite* are inextricably linked to the actions of the participants being described.

In Nuyts’s (2005: 20) understanding of quantificational aspect, notions such as ‘inevitability’ and ‘need’ (dynamic modality) are semantically akin to notions such as ‘iterativity’ in that they are all concerned with the ‘appearance’ of SoAs in the world. The dynamic modal notions and iterativity relate to the ‘first argument’ participant, who is ascribed a property with a ‘law like’ character. Interestingly, all the postdeterminer uses of *regular* and *necessary* fall under this characterization. As stressed in sections 4.4 and 4.5, the modal notions expressed are of this ‘situating’ nature, not of the performative nature associated with deontic and epistemic modality as they figure in the highest grouping of Nuyts’s qualifications. Further research will

have to establish whether it is a general tendency of modal postdeterminers to be situating rather than performative.

With regard to the aspectual and modal postdeterminer uses of *necessary* and *regular*, it has to be remarked again that they are not restricted to deverbal nouns, e.g. *the necessary action* (35), but are also found with NPs that clearly refer to things, e.g. *the regular snow fields* (31), *the necessary quantity of Butter* (43). The relations of requirement and inevitability pertain here to the way in which the entities referred to participate in larger scenarios invoked by the whole context. Sanford & Garrod (1998) have proposed that nominal referents may be made identifiable by being mapped onto certain roles they fulfil in contextually derivable scenarios. These are schematic of situations constructed by the hearer on the basis of text clues. In examples such as those with postdeterminers *regular* and *necessary* just quoted such scenarios motivate the location of entity referents in dynamic modal domains. All the mechanisms discussed above show, in our view, that nominal deixis is less diametrically opposed to verbal deixis than is often assumed. It is not always the case that nominal referents exist autonomously, ready to be referred to, and that only the referents of verbs can exist in potential domains. The theory of nominal deixis has to recognize that the determination of things may be intertwined with the SoAs referred to and the larger scenarios implied by the discourse.

In the above discussion it has become clear that, to characterize the specific function of postdeterminer adjectives, one has to take into account the difference between postdeterminers which basically relate to the ground, like primary determiners, and postdeterminers, whose reference points can be distinct from the ground. The reference points in the ground of postdeterminers marking identity (e.g. *same, identical*) and relative quantity (*complete*) are integral to the identifying

operations performed by speaker and hearer. By contrast, the postdeterminers which situate the nominal referents in terms of time (*old*), space (*opposite*), quantitative aspect (*regular*) and dynamic modality (*regular, necessary*) do so by construing direct and indirect relations to the speech event. These postdeterminers add secondary deictic qualifications that are more semantically diverse and more complex than the primary determiners they are bound by.

## 6 CONCLUSION

We hope to have shown in this article that deictification is an important type of semantic shift that deserves to be investigated further along the various axes of grammaticalization research, such as synchronic, diachronic and comparative investigation. Descriptively, we should strive towards full inventories of adjectives fulfilling postdeterminer functions in the languages studied. It will also have to be examined whether the deictic notions put forward in this article exhaust the conceptual semantics of postdeterminers. Diachronically, more case studies are needed of the actual emergence of secondary deictic adjective uses as well as of their possible decline. Comparative case studies involving more than one language, finally, can also shed light on and provide extra arguments for hypotheses about the development of postdeterminer meanings (see e.g. Breban 2002/2003). It is to be expected that some of the findings from such studies will have to be fed back into general formation of the theories of grammaticalization and semantic shift.

*Authors' addresses:  
Linguistics Department  
KULeuven  
Blijde-Inkomststraat 21  
B-3000 Leuven  
Belgium  
kristin.davidse@arts.kuleuven.be  
tine.breban@arts.kuleuven.be  
an.vanlinden@arts.kuleuven.be*



## REFERENCES

- Adamson, Sylvia & Victorina González-Díaz. 2004. Back to the very beginning: The development of intensifiers in ME-EModE. Presented at ICEHL 13, University of Vienna.
- Bache, Carl. 2000. *Essentials of mastering English: A concise grammar*. Berlin/New York: Mouton de Gruyter.
- Benveniste, Émile. 1966. *Problèmes de linguistique générale*, vol. 1. Paris: Gallimard.
- Bolinger, Dwight. 1967. Adjectives in English: Attribution and predication. *Lingua* 18, 1–34.
- Breban, Tine. 2002. *Adjectives of comparison: Postdeterminer, epithet and classifier uses*. M.A. dissertation, University of Leuven.
- Breban, Tine. 2002/2003. The grammaticalization of the adjectives of identity and difference in English and Dutch. *Languages in Contrast* 4(1), 167–201.
- Breban, Tine. 2006a. The grammaticalization of the English adjectives of comparison: A diachronic case study. In Roberta Facchinetti & Matti Rissanen (eds.), *Corpus linguistic studies in diachronic English*, 253–288. Bern: Peter Lang.
- Breban, Tine. 2006b. Grammaticalization and subjectification of the English adjectives of general comparison. In Angeliki Athanasiadou, Costas Canakis & Bert Cornillie (eds.), *Subjectification: various paths to subjectivity*, 241–278. Berlin: Mouton de Gruyter.
- Breban, Tine. 2006c. *English adjectives of general comparison: Lexical versus grammaticalized uses*. Ph.D. dissertation, University of Leuven.

- Breban, Tine. Forthcoming. The grammaticalization and subjectification of English adjectives expressing difference into plurality/distributivity markers and quantifiers. *Folia Linguistica*.
- Brinton, Laurel. 2002. Grammaticalization versus lexicalization reconsidered: On the 'late' use of temporal adverbs. In Teresa Fanego, Javier Pérez-Guerra & María José López-Couso (eds.), *English historical syntax and morphology: Selected papers from 11 ICEHL*, 67–97. Amsterdam: John Benjamins.
- Brisard, Frank (ed.). 2002. *Grounding: the epistemic footing of deixis and reference*. Berlin: Mouton de Gruyter.
- Bybee, Joan. 2003. Mechanisms of change in grammaticalization: The role of frequency. In Brian Joseph & Richard Janda (eds.), *The handbook of historical linguistics*, 602–623. London: Blackwell.
- Crain, Stephen & Henry Hamburger. 1992. Semantics, knowledge and NP modification. In Robert Levine (ed.), *Formal grammar: Theory and implementation. Vancouver Studies in Cognitive Science*, vol 2, 372–401. Vancouver: The University of British Columbia Press.
- Davidse, Kristin. 2004. The interaction of identification and quantification in English determiners. In Michel Achard & Suzanne Kemmer (eds.), *Language, culture and mind*, 507–533. Stanford: CSLI Publications.
- Davidse, Kristin, Lieselotte Brems & Liesbeth De Smedt. 2008. Type noun uses in the English NP: A case of left-to-right layering. *International Journal of Corpus Linguistics*, 13 (2), 139–168.
- Declerck, Renaat. 2006. *The grammar of the English verb phrase*, vol. 1: *The grammar of the English tense system. A comprehensive analysis*. Berlin: Mouton de Gruyter.

- Denison, David. 2005. History of the *sort of* construction family. Presented at the Second International Conference on Construction Grammar, Helsinki, 6–8 September 2002. Updated version available on [www.llc.manchester.ac.uk/SubjectAreas/Linguistics/English/Language/AcademicStaff/DavidDenison/](http://www.llc.manchester.ac.uk/SubjectAreas/Linguistics/English/Language/AcademicStaff/DavidDenison/).
- Denison, David. 2006. Category change and gradience in the determiner system. In van Kemenade, Ans & Bettelou Los (eds.), *The handbook of the history of English*, 279–304. Oxford: Blackwell.
- De Smet, Hendrik. 2005. A corpus of late modern English texts. *ICAME-Journal* 29: 69–82.
- Dixon, R.M.W. 1982. *Where have all the adjectives gone? And other essays in semantics and syntax*. Berlin: Mouton de Gruyter.
- Evans, Nick & David Wilkins. 2000. In the mind's ear: The semantic extensions of perception verbs in Australian languages. *Language* 76, 546–592.
- Fischer, Olga. 1992. Syntax. In Norman Blake (ed.), *The Cambridge history of the English language*, vol. 2: 1066–1476, 207–408. Cambridge: Cambridge University Press.
- Halliday, M.A.K. 1994. *An introduction to functional grammar*. 2nd edn. London: Arnold.
- Hawkins, John. 1978. *Definiteness and indefiniteness: A study in reference and grammaticality prediction*. London: Croom Helm.
- Heytens, Charlotte, Hanne Pirlet & Thomas Van Parys. 2004. The lexicalisation and grammaticalisation of the premodifying adjectives *old*, *complete* and *pure*. Term paper, University of Leuven.

- Hopper, Paul & Elizabeth Closs Traugott. 2003. *Grammaticalization*. 2nd edn. Cambridge: Cambridge University Press.
- Huddleston, Rodney & Geoffrey Pullum. 2002. *The Cambridge grammar of the English language*. Cambridge: Cambridge University Press.
- Langacker, Ronald W. 1991. *Foundations of cognitive grammar*, vol 2: *Descriptive application*. Stanford: Stanford University Press.
- Langacker, Ronald W. 2002a. Deixis and subjectivity. In Brisard (ed.), 1–27.
- Langacker, Ronald W. 2002b. Remarks on the English grounding systems. In Brisard (ed.), 29–38.
- Lehmann, Christian. 1985. Grammaticalization: Synchronic variation and diachronic change. *Lingua e Stile* 20, 303–318.
- Matthews, Peter. 1997. *The Concise Oxford Dictionary of Linguistics*. Oxford: Oxford University Press.
- Nuyts, Jan. 2005. The modal confusion: On terminology and the concepts behind it. In Alex Klinge & Henrik Høeg-Müller (eds.), *Modality: studies in form and function*, 5–38. London: Equinox.
- Oxford English Dictionary*, 1933. Oxford: Oxford University Press.
- Palmer, Frank. 1990. *Modality and the English modals*. London: Longman.
- Paradis, Carita. 2000. Reinforcing adjectives: A cognitive semantic perspective on grammaticalization. In Ricardo Bermúdez-Otero, David Denison, Richard M. Hogg & C. B. McCully (eds.), *Generative theory and corpus studies*, 233–258. Berlin: Mouton de Gruyter.
- Sanford, Anthony & Simon Garrod. 1998. The role of scenario mapping in text comprehension. *Discourse Processes* 26, 159–190.
- Sinclair, John et al. (eds.). 1990. *The Collins COBUILD English grammar*. London: Collins.

- Sinclair, John. 1991. *Corpus, concordance, collocation*. Oxford: Oxford University Press.
- Tallir, Tinneke. 2000. *The postdeterminer. A corpus-based investigation*. M.A. dissertation, University of Leuven.
- Traugott, Elizabeth Closs. 1989. On the rise of epistemic meanings in English: An example of subjectification in semantic change. *Language* 65, 31–55.
- Traugott, Elizabeth Closs & Richard Dasher. 2002. *Regularity in semantic change*. Cambridge: Cambridge University Press.
- Van linden, An & Kristin Davidse. 2005. *Degrees of subjectivity of prenominal adjectives: Diachronic change, linear order, and constructional relations as determining factors*. Presented at FITIGRA, University of Leuven.
- Verstraete, Jean-Christophe. 2001. Subjective and objective modality: Interpersonal and ideational functions in the English modal auxiliary system. *Journal of Pragmatics* 33, 1505–1528.
- Verstraete, Jean-Christophe. 2007. *Rethinking the coordinate-subordinate dichotomy. Interpersonal grammar and the analysis of adverbial clauses in English*. Berlin: Mouton de Gruyter.
- Wardhaugh, Ronald. 1997. *Understanding English grammar: a linguistic approach*. Oxford: Blackwell Publishers LTD.

---

<sup>1</sup> The research reported on in this article was funded by the Research Council of KULeuven, The University of Leuven, grant OT/04/12 ‘Grammaticalization, emergent grammar and the English NP’. It was further supported by the Interuniversity Attraction Pole (IAP) P6/44 of the Belgian Science Policy on ‘Grammaticalization and (Inter-)Subjectification’ and grant no. HUM2007-60706/FILO of the Spanish Ministry of Education and Science and the European Regional Development Fund. We thank everyone who offered comments and feedback to our presentations on ‘Deictification’ at CSDL8 San Diego, November 2006, in particular Elizabeth Traugott, and at the International Workshop ‘What’s

---

New in Grammaticalization’, Berlin, May 2007, in particular Ekkehard König and Gabriele Diewald. We are also indebted to Tinneke Tallir for her exploratory study of postdeterminers (Tallir 2001) and to Lobke Ghesquière for her theoretical and data-related discussions with us about postdeterminer uses of adjectives. Our particular thanks go to David Denison and the two anonymous referees for their very generous and incisive comments which added many extra dimensions to the original discussion in the first draft. Needless to say, we are the only ones responsible for remaining errors of thought in the final version.

<sup>2</sup> The examples from the COBUILD corpus quoted in this article (marked CB) were extracted via remote log-in and are reproduced with the kind permission of HarperCollins Publishers.

<sup>3</sup> The postdeterminer function is not only realized by the special set of adjectives expressing deictic notions that we are concerned with in this article. According to authors who have investigated the secondary deictic zone (Quirk et al 1985: 261, Matthews 1997: 289, Wardhaugh 1997: 38, Bache 2000: 239, Crain & Hamburger 1992, Brinton 2002, Denison 2005) the following classes can also fulfil ancillary identifying functions: (i) precise and fuzzy ordinal numbers, e.g. *first, second, fifth, next, final*, etc., e.g. *the first day* (Quirk et al 1985: 261); (ii) precise and fuzzy cardinal numbers, e.g. *one, two, five, few, many, numerous*, etc., e.g. *my three children* (Quirk et al 1985: 261); (iii) superlatives and comparatives of adjectives, e.g. *eldest, best, older, better*, etc., e.g. *the earliest important Aboriginal carvings* (Bache 2000: 239); (iv) adverbs, e.g. *late, then, quondam, sometime, once, twice, thrice*, e.g. *the then practice* (Brinton 2002: 67); (v) some nouns, such as *sort/type/kind + of*, e.g. *these sort of skills* (Denison 2005: 3, Davidse, Brems & De Smedt 2008).

<sup>4</sup> We thank the anonymous referee who alerted us to the different possible word orders found with, for instance, *former* and who referred us to Huddleston & Pullum (2002: 452), suggesting that this might be a case of their labile ordering constraints for ‘early premodifiers’ in the NP.

<sup>5</sup> ‘Binding’ is used here in the functional sense of providing the reference point for (cf. Declerck 2006: 157).

<sup>6</sup> As have, of course, primary auxiliaries, but it is secondary deictics that we are concerned with in this article.

<sup>7</sup> Again, primary determiners have also developed from adjectives via grammaticalization, such as *several* (Denison 2006) and *various* (Breban forthcoming).

---

<sup>8</sup> Postdeterminer uses of adjectives relating to the most basic issue of nominal reference, the (non-)identifiability of the referents as such (Langacker 2002b:32) without specification of – for instance spatial – relations to the ground bringing about identification, had already been studied diachronically by Breban (2006a).

<sup>9</sup> The *Corpus of Late Modern English* (CLMET) was compiled on the basis of texts from the *Project Gutenberg* and the *Oxford Text Archive* by Hendrik De Smet. It covers the period 1710–1930, subdivided into periods of 70 years each, i.e. 1710–1780 (CLMET-1), 1780–1850 (CLMET-2), and 1850–1920 (CLMET-3).

<sup>10</sup> We examined larger samples for Present-day English because we first identified the postdeterminer uses in the current data, which were more readily interpretable.

<sup>11</sup> In the Old English period, data were extracted in terms of the sequence of the demonstrative pronoun *se* (*seo*, *þæt*) ('that') + *old*. This pronoun roughly "covers the domains of both the demonstrative *that* and the definite article *the* in PDE" (Traugott 1992: 172). It is not until the Middle English period that a clear distinction develops between the article and demonstrative function: the invariant form *se/þe* becomes the general definite article, whereas the neuter form *þæt* begins to function as a pure demonstrative (Fischer 1992: 217). In the Middle English data, we only took sequences with the invariant form *se*, *þe* or *the* into account.

<sup>12</sup> We thank Charlotte Heytens, Hanne Pirlet and Thomas Van Parys (2005) for pointing out to us that *old* has postdeterminer uses, which were then investigated diachronically in Van Linden and Davidse (2005).

<sup>13</sup> As this example has *their* rather than *the* in front of *old*, it was not counted in the relative frequency of postdeterminer uses for Present-day English indicated at the end of this section.

<sup>14</sup> As also shown by other quantified studies such as Breban (forthcoming), this is a strong but by no means absolute tendency. The increase of postdeterminer uses may be halted by further grammaticalization into quantifier use, as with *various* and *several* (Breban forthcoming), or it may be crosscut by an increase in classifier uses, as in the case of *opposite*, whose relative proportion of postdeterminer uses has recently declined due to the very frequent use of the lexicalized expression *the opposite sex* (section 4.1).

<sup>15</sup> And so do other classes than adjectives fulfilling secondary deictic functions in the NP such as the temporal adverbs discussed by Brinton (2002).