Chapter 7

Indirect anaphora in a diachronic perspective: The case of Danish and Swedish

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In this paper, I offer a diachronic analysis of indirect anaphora (associative anaphora), paying particular attention to the anchoring of the anaphor and the variation between definite and possessive NPs which appear in this type of bridging in Danish and Swedish between 1220 and 1550. The study is based on a corpus of authentic texts evenly distributed across languages and genres. I argue that the expression of indirect anaphora is a crucial stage in the grammaticalization of the definite article, and that the study of the spread of the incipient definite article through this context can be described in terms of strong and weak definiteness.

1 Introductory remarks

Anaphora is one of the more widely studied discourse phenomena. The term itself is derived from Greek (‘carrying back’, e.g., Huang 2000: 1) and is used to describe a relationship between two linguistic elements: an antecedent and an anaphor, as in the following example:

(1) I came into a spacious room. It was sparsely decorated and rather gloomy.

The example given in (1) includes what is often considered a typical antecedent (indefNP) and a typical anaphor (a pronoun). The simplicity of the example, however, is misleading, for anaphora is a complex linguistic and cognitive phenomenon, which has duly received a great deal of attention, both within linguistic paradigms and in other fields, such as (language) philosophy, psychology, cog-
nitive science and artificial intelligence studies. Each is partly interested in dif-
ferent aspects of anaphora, and some studies subsume anaphora under a broader 
sudy of reference in discourse (e.g., Kibrik 2011). Anaphora is the central 
element of such theoretical proposals as Relevance Theory (Sperber & Wilson 2012) 
and Centering Theory (Grosz et al. 1995).

In historical linguistics, anaphora is singled out as the first stage of the gram-
maticalization of the definite article. What is originally a deictic element, usually 
a demonstrative pronoun (see Lyons 1999), begins to be used to point not only 
in a physical context, but also in text (anaphora).

(2)  I came into a spacious room. (...) 

The room was fully decorated but rather gloomy.

The use of a demonstrative to point within text involves a shift from situational 
to textual deixis (Lyons 1975). As the grammaticalization progresses, new uses are 
found for the original pronoun, as it gradually transforms into a definite article 
de Mulder & Carlier 2011).

The first article-like use of the demonstrative (i.e., a use in which, in article 
languages, the definite article would be used) is what could more precisely be 
temed direct anaphora. In this type of reference the antecedent and the anaphor 
co-refer. A different type of anaphora is found in (3).

(3) My watch is dead. The battery is flat. (after Schwarz 2000)

Even though a co-referring antecedent for the battery is lacking, the NP is defi-
inite. Definite marking (such as a definite article) is normally a signal to the hearer 
that the referent of the definite NP (defNP) is known, identifiable or possible to 
locate, and here it seems to serve the same purpose. Moreover, it is clear that the 
two sentences in (3) form a coherent text and the definite marking can be inter-
preted accordingly, in relation to another NP, namely my watch. The element of 
the preceding discourse which makes the identification of the anaphor possible 
will be referred to as the anchor (after Fraurud 1990; see §2). The relationship 
between the battery and my watch is anaphoric and the defNP the battery is an 
anaphor, but since the two do not co-refer, I will use the term indirect anaphor to 
highlight the difference between this type of relation and the direct anaphora de-
scribed above. In the literature, this type of relation is also known as associative 
anaphora or bridging.

In this paper, I shall focus on this particular type of textual relation diachron-
ically. In particular, I follow the typology of indirect anaphors in terms of their
7 Indirect anaphora in a diachronic perspective

Indirect anaphora has been studied mainly synchronically and in the context of definiteness; it is therefore not surprising that it has been customary to focus on defNPs as indirect anaphors. The purpose of the studies has been to establish the link between the anaphor and its anchor, or to identify the anchor. This approach is not entirely fruitful in diachronic studies. In the context of article growth, there are few examples of definite articles in the oldest texts, while many NPs are used as indirect anaphors. Although it is interesting to see in what contexts the incipient definite article may be found, this does not give us a complete picture of its grammaticalization.

2 Indirect anaphora

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For the purpose of a diachronic study it is more useful to consider the context itself, irrespective of the form of the indirect anaphor. Indirect anaphora is a type of bridging reference, which, following a long tradition, I take to be a relationship between two objects or events introduced in a text or by a text, a relationship that is not spelled out and yet constitutes an essential part of the content of the text, in the sense that without this information the lack of connection between the objects or events would make the text incoherent (Asher & Lascarides 1998). This is illustrated by the following examples.

(4) I met two interesting people last night at a party. The woman was a member of Clinton’s Cabinet.
(5) In the groups there was one person missing. It was Mary who left.
(6) John partied all night yesterday. He’s going to get drunk again today.
(7) Jack was going to commit suicide. He got a rope.
(8) Jack locked himself out again. He had left his keys on the kitchen table.
(examples (4)–(7) after Asher & Lascarides 1998: 83)

It may be noted that there is a variety of expressions treated as bridging here, including, but not limited to, defNPs. In (8), it would be possible to use a defNP instead of the possessive, and most likely it would also be possible to replace the indefNP in (7) with a defNP ‘the rope’. The variation in form of indirect anaphors has not been given due attention in studies thus far, while it is of fundamental importance in a diachronic study. I wish to argue for a widening of the scope of study to include other expressions, first and foremost possessive NPs (possNPs).

For indirect anaphors, although there is no antecedent, we are (mostly) able to identify some connected entity, event/activity or scenario/frame in the preceding discourse as serving a similar function (‘my watch’ for ‘the battery’). If nominal, the ‘antecedent’ has been termed a trigger (Hawkins 1978) or an anchor (Fraurud 1990) for the anaphor. The two notions differ in terms of how they paint the process of referent identification. Trigger implies that with its articulation a number of stereotypically connected entities are activated in the hearer’s mind, from among which he/she is then free to choose when the anaphor appears. Thus:

(9) We chose a quiet restaurant. The menus were modest, yet the food was great.

The utterance of the indefNP ‘a quiet restaurant’ triggers a series of connected entities, such as menus, waiters, food, other guests, cloakrooms etc. In other
words, it opens up a new reference frame or reference domain (Referenz-domäne, Schwarz 2000) within which these can be found. On hearing defNPs such as ‘the waiter’ or ‘the table’ the hearer will automatically interpret them as belonging to the restaurant mentioned earlier (though the restaurant itself may not be a familiar one, since it is presented with an indefNP). Were the speaker to choose a referent from outside this frame and mark it as definite, the hearer would probably have more trouble interpreting it correctly:

(10)  We chose a quiet restaurant. The hairdresser was rather heavy-handed and he pulled my hair with unnecessary force.

And yet, it seems unlikely that on hearing the phrase ‘a quiet restaurant’ the hearer automatically sees in his/her mind’s eye a series of entities connected with it. In fact, were he/she to do so, it would be a very uneconomical procedure, since only some of the potential indirect anaphors will be used in the following discourse. For the most part, only some of the potential triggers become actual triggers, and when they do, only some of the wide range of possible indirect anaphors are used. Consider the following examples:

‘Hanna has shot Hans dead. The bang could be heard all the way to Gladbach.’

‘Hanna has shot Hans dead. The wound is bleeding awfully.’

c. Hanna hat Hans erschossen. Das Motiv war Eifersucht.  
‘Hanna has shot Hans dead. The motive was jealousy.’

d. Hanna hat Hans erschossen. Die Polizei fand die Waffe im Küchenschrank.  
‘Hanna has shot Hans dead. The police found the weapon in the kitchen cabinet.’

(Schwarz 2000: 38; she calls the collection of entities/processes activated with the use of a trigger “konzeptueller Skopus”)

Another term for the antecedent-like entity in preceding discourse is anchor, to my knowledge first introduced by Fraurud (1990). In contrast to the term trigger, it takes into account the actual anaphor and the process of accessing the referent by searching for an ‘anchor’ in the previous discourse. This term also has the value of being equally applicable to indirect and direct anaphors (the most obvious anchor would be the co-referring entity).
The examples quoted above show how heterogeneous indirect anaphora is. There are a number of relations between the anchor and the anaphor. Authors differ in their typologies of indirect anaphors; however, all of them distinguish between at least two major types. Following Schwarz (2000) I will refer to the first type as semantic (based on lexical knowledge) and the second as conceptual (based on knowledge of the world). The former can be further subdivided into meronymic (part-whole relations) and lexical/thematic (other semantic roles), and the latter into scheme-based and inference-based. The types are illustrated with examples below.

(12) **Semantic types**

a. meronymic relations
   A new book by Galbraith is in bookstores now. On the cover there is a picture of the author.

b. lexical/thematic relations A new book on climate change is in bookstores now. The author claims that mankind has only twenty years in which to make changes.

(13) **Conceptual types**

a. scheme-based
   A charge of negligent homicide against Daw Bauk Ja could be withdrawn at the request of the plaintiff.

b. inference-based
   Wussten Sie [...] dass der Schrei in Hitchcocks „Psycho“ deshalb so echt wirkt, weil der Regisseur genau in dem Moment der Aufnahme eiskaltes Wasser durch die Leitung pumpen ließ?
   Did you know (...) that the scream in Hitchcock’s Psycho seems so real because at the moment of filming the director let cold water to be pumped through the pipe?
   (Consten 2004: 102; own translation)

To successfully interpret an anaphor of the conceptual type, a degree of knowledge of the world is necessary. The interpretation of the defNP die Leitung ‘the pipe’ relies on familiarity with the Hitchcock film and the fact that the famous scene with the scream takes place in a shower.

There are a number of other typologies of indirect anaphors (notably Irmer 2011; see also Zhao 2014 for an overview of studies of indirect anaphora), though
most make similar divisions. I follow M. Schwarz’s (2000) typology, since unlike the majority of other studies it is grounded in authentic texts and not constructed examples, and therefore seems best suited for a study of authentic examples, which is the subject of this paper. It should be noted, however, as Schwarz herself frequently does, that when studying authentic texts one is often forced to classify examples that may fit more than one category, depending on what seems to be the anchor or what type of relation between the anchor and the anaphor is identified. It is also possible that in authentic texts the anaphor is accessible through more than one anchor.

Finally, a note on the form of the indirect anaphor is necessary here. Traditionally, the point of departure for all classifications has been defNPs without a co-refering antecedent. The aim of studies has been to explain their definiteness in the absence of an antecedent. However, in recent years, when the concept of bridging has become more established, more and more authors have appreciated that bridging can also occur in the absence of definites (Asher & Lascarides 1998: 107). In his discussion of totality (exhaustivity, completeness), Hawkins (1978) shows that the definite can only occur in bridging when it refers uniquely, e.g., car – the engine but car – a tyre, yet the underlying relationship between engine and car seems to be the same as that between tyre and car. It has also been demonstrated that possessives may introduce new, anchored referents (Willemse et al. 2009). Those authors found that in a considerable number of cases PM (= possessum) referents of possessive NPs are first mentions with inferential relations to the context (Willemse et al. 2009: 24). In the following, I will concentrate on the context itself and study the variety of forms found in it in historical Danish and Swedish texts.

3 Sources and tagging

The corpus used in this study consists of 29 texts in Danish and Swedish, written between 1220 and 1550, in three genres representative of the period studied: legal, religious and profane prose. From each text I chose passages with ca. 150 NPs in each (if the text was long enough), preferably high narrativity passages. The texts were divided into three periods: Period I (1220–1350), Period II (1350–1450) and Period III (1450–1550). The proposed periodization has been used in previous studies of article grammaticalization and other diachronic studies of Swedish (Delsing 2012). A total of 5822 NPs (nominal NPs only) were tagged and analyzed. The tool used for tagging and generating statistics is called DiaDef (see Figure 1), and was tailor-made for the project. It enables us to tag each NP for all data we
assume to be in some way relevant for the choice of article, such as function in sentence (subject, object, etc.), referential status (new, unique, generic, anaphoric, etc.) and other information (case, number, gender, animacy, countability, etc.).

The languages considered are both North Germanic languages of the eastern variety. The extant texts consist of Runic inscriptions from ca. 200 AD onwards; the oldest extant Danish and Swedish texts written in the Latin alphabet are legal texts from ca. 1220. For this project I look at texts from 1220 to 1550, which is a time of radical change in the grammars of both languages, including loss of case and the emergence of (in)definiteness (Table 1).

### Table 1: An overview of the sources

<table>
<thead>
<tr>
<th>language</th>
<th>period</th>
<th>number of texts tagged</th>
<th>number of nominal NPs extracted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danish</td>
<td>Period I (1200–1350)</td>
<td>7</td>
<td>1097</td>
</tr>
<tr>
<td></td>
<td>Period II (1350–1450)</td>
<td>5</td>
<td>1016</td>
</tr>
<tr>
<td></td>
<td>Period III (1450–1550)</td>
<td>4</td>
<td>787</td>
</tr>
<tr>
<td>Swedish</td>
<td>Period I (1200–1350)</td>
<td>5</td>
<td>1194</td>
</tr>
<tr>
<td></td>
<td>Period II (1350–1450)</td>
<td>5</td>
<td>1093</td>
</tr>
<tr>
<td></td>
<td>Period III (1450–1550)</td>
<td>3</td>
<td>635</td>
</tr>
</tbody>
</table>

29 5822
A detailed list of quoted source texts can be found in the Sources. When quoting examples from the corpus I note the language (DA for Danish and SW for Swedish), the source text (e.g., SVT for *Sju vise mästare*; the abbreviations are also given in the Sources) and the date of its composition.

A note on the definite article in North Germanic is necessary here. The definite article is a suffix that is always attached to the noun (in the Insular Scandinavian languages Icelandic and Faroese, to the case-inflected form of the noun). Its origins are to be found in the distal demonstrative *hinn* 'yon' (e.g., Perridon 1989). Apart from the suffixed article, there are other exponents of definiteness, i.e., the weak form of the adjective (in the continental languages Danish, Swedish and Norwegian and in Faroese merely an agreement phenomenon, in Icelandic possibly retaining an original meaning of definiteness; see Naert 1969) and a preposed determiner, originally a demonstrative *sá* (in younger texts *den*) ‘this’. Both the suffixed article and the preposed determiner can be combined within one NP in Swedish, Norwegian and Faroese (so-called double definiteness) but are exclusive in Danish and Icelandic. The variety of NPs is illustrated below using the example of the noun ‘house’ (neuter in all languages) in the singular.

(14) hus-et                         (Danish, Norwegian, Swedish)  
    hús-ið                          (Faroese, Icelandic)  
    house-DEF

(15) det  store  huset       (Norwegian)  
    det  stora  huset       (Swedish)  
    —    stóra  hú-s-ið    (Danish)  
    hið/tað stóra  hú-s-ið  (Icelandic)  
    DEF  large-DEF  house-DEF

(16) et    hus      (Danish, Norwegian)  
    ett    hus      (Swedish)  
    eitt   hús      (Faroese)  
    —     hús      (Icelandic)  
    INDEF  house

For excerption, I define bridging as widely as possible. Direct anaphora (co-reference) is tagged as DIR-A, uniques as U, generics as G, new discourse referents as NEW (when there is no connection to previous discourse whatsoever), and non-referential uses as NON-REF. For all other types of reference I use the tag INDIR-A.
The DiaDef program allows us to excerpt all NPs tagged as INDIR-A and sort them, according to the form of the NP, into: BN (bare noun), -IN (incipient definite article), POSS (possessive), DEN (demonstrative *den* ‘this’), DEM (other demonstrative elements) and EN (incipient indefinite article). For the purpose of the present study the possessives are further subdivided into POSS-GEN (genitive, e.g., *Jans* ‘Jan-GEN’), POSS-PRO (possessive pronoun, e.g., *hans* ‘his’) and POSS-REFL (reflexive possessive pronoun, e.g., *sin* ‘his-REFL’).

I did not expect to find large discrepancies between texts in different languages and from different periods with respect to the number of indirect anaphors in each. NPs tagged as indirect anaphors constitute ca. 25% of all NPs in the material (Table 2), with only slight variation between languages and periods. This confirms an intuitive expectation that this type of textual relation does not depend on the period. It may depend on the genre chosen; I have therefore concentrated on choosing passages of high narrativity\(^1\) from each genre, including legal prose.

Table 2: Percentage of indirect anaphors in the corpus

<table>
<thead>
<tr>
<th>period</th>
<th>Danish</th>
<th>Swedish</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200–1350</td>
<td>24.52%</td>
<td>25.80%</td>
</tr>
<tr>
<td>1350–1450</td>
<td>23.72%</td>
<td>19.67%</td>
</tr>
<tr>
<td>1450–1550</td>
<td>29.61%</td>
<td>23.62%</td>
</tr>
<tr>
<td>average</td>
<td>25.95%</td>
<td>23.03%</td>
</tr>
</tbody>
</table>

4 Results

I sorted all indirect anaphors according to the form of the NP. Table 3 presents an overview of the results for each language and period.

First, a comment on the presentation of the results is necessary. I give percentages for each NP form used in an indirect anaphoric context; e.g., of all NPs tagged as INDIR-A in Swedish Period I, 36.04% were BNs. As can be seen from the totals (shown in italics), the forms I chose for the study cover the majority of

\(^1\)Old Danish and Old Swedish texts include a number of passages that can best be termed case studies, leading to the establishment of a precedent. These usually tell a short story with a number of discourse referents. I chose passages of this type over mere formulations of legal rules whenever possible.
indirect anaphors, but not all. There are other types of NPs that can be found in the material, including nouns with adjectival modifiers (adjectives in the weak or strong form) but without any other determiners. However, their frequencies were low enough for them not to be reported.

The general results show the expected patterns – a decreasing frequency of BNs in bridging reference together with a rising frequency of -IN, the incipient definite article. The high frequencies of BNs in Period I are to be expected, since in both languages the process of article grammaticalization most likely began some time before the oldest texts were written (see Skrzypek 2012: 74 for an overview of proposed dating by different authors). The period 1220–1550 is the time when the definite article grammaticalizes in both languages. In many contexts, indirect anaphora being one of them, it comes to be used instead of
BNs. We can further see that other NP types are on the rise in both languages, most notably possNPs (with reflexive possessive in Swedish and pronominal, non-reflexive possessive in Danish), not only the incipient definite article. Poss-NPs are the strongest competitor to defNPs in the material studied.

The results reported in Table 3 above show indirect anaphora without subdividing the context into semantic and conceptual anaphors (see §2). They show that the context is by no means exclusively expressed by defNPs, and that poss-NPs in particular show high frequencies.

They also show that the major change taking place between Period I and Period II is the reduction of zero determination. In the material chosen, no BNs were found in anaphoric uses of NPs (they were still found with uniques and generics; see also Skrzypek 2012), but since the definite article is not yet fully grammaticalized it is not the default option for determination. Speakers therefore make use of other elements, most notably different types of possessives.

In the following part of the paper I will focus on the variation between defNPs and possNPs in indirect anaphora.

4.1 Semantic indirect anaphora – mereological relations

Although it may seem that I have already fine-grained the concept of indirect anaphora, the first subtype, mereological relations, is by no means homogeneous. Within it we find such different relations between anchor and anaphor as object – material (bicycle – the steel), object – component (joke – the punchline), collective – member (deck – the card), mass – portion (pie – the slice), etc. There are a number of examples of mereological relations found in the material. With limited material at my disposal, I was not able to find examples of each type of mereological relation in the Danish and Swedish texts to enable a systematic study of all sub-types for all periods in both languages. Very well represented are examples of inalienable possession, i. e., body parts, items of clothing or weaponry.

The NPs found in semantic indirect anaphora include BNs, possNPs and defNPs, although in Period I inalienables seem to be found only as BNs or possNPs and not as defNPs.

(17) (DA_VL 1300)
Æn of swa worthær at man mistær allæ sinæ tændær af sin høs.
and if so be that man loses all his teeth from his REFL head
‘If it should happen that a man loses all his teeth.’
(18) (DA_Mar 1325)

\[ iak \ kom \ þa \ fuul \ sørhilika \ til \ miin \ kæra \ sun \ ok \ þahar \ iak \ sa \]
I came then fully sorrowful to my dear son and when I saw

\[ hanum \ slaa-s \ mæþ \ næua (...) \ ok \ spytta-s \ i \ anlæt \ ok \ krona-s \]

him beat-PASS with fists (...) and spit-PASS in face and crown-PASS

\[ mæþ \ þorna. \]

with thorns

‘I came full of sorrow to my dear son and as I saw he was beaten with fists and spat in the face and crowned with thorns.’

(19) (SW_Bur 1330)

\[ at \ hon \ varþ \ hauande \ mæþ \ guz \ son \ ii \ sino \ liue \]

that she became pregnant with God.GEN son in her.REFL womb

‘that she carried God’s son in her womb’

(20) (SW_AVL 1225)

\[ Uærþær \ maþer \ dræpin (...) \ þa \ skal \ uighi \ a \ þingi \ lysæ. \]

be man killed (...) then shall murder on ting declare

‘If a man is killed then the murder shall be made public on a ting.’

In Period II, inalienables no longer appear as BNs, but either with a (reflexive) possessive pronoun or the incipient definite article. It should be noted here that North Germanic languages have retained two possessive pronouns: the regular possessive, corresponding to the English his/her/its, and the reflexive possessive, sin/sitt, which is used when the possessor is the subject of the clause. The default marking of inalienables in Period II seems to be the possessive, and the incipient definite article is at first only found with inalienables in direct anaphora (i.e., such body parts or items of clothing that are not only connected with an owner known from previous discourse, but have also been mentioned themselves).

(21) (SW_Jart 1385)

\[ Kwinna-n \ gik \ bort \ ok \ faldadhe \ han \ j \ sino \ hwiff \ som \ hon \]

woman-DEF went away and folded him in her scarf which she

\[ hafdhe \ a \ sino \ hofdhe. \]

had on her head

‘The woman went away and folded him in her scarf which she had on her head.’
Then the woman’s scarf seemed all bloodied and wet with blood so that the blood flew down the woman’s cheeks. Which the master saw, screamed and said “Who hit you in your face or hurt (you)?”. And the woman lifted her hand and stroked her face and when she took the hand away it was all bloodied.”

Example (22) illustrates well the division of labour between the (reflexive) possessive and the incipient definite article. The possessive is used if the inalienable is mentioned for the first time (indirect anaphora). The definite article is used only in further mentions, i.e., in direct anaphora (thus your face – the face, her hand – the hand). Naturally, we could simply treat such examples as direct anaphors. However, it is clear that they are both co-referring with an antecedent and accessible via their anchors. It seems that this double identity, as direct and indirect anaphors, constitutes a bridging context (in the sense of Heine 2002) for defNPs to spread to indirect anaphora with meronyms. By the end of Period II and the beginning of Period III the definite article starts being used also in indirect anaphora (first mention of an inalienable possessum connected with a known discourse referent), as shown in (23) and (24).

(23)  (SW_ST 1420)

Then the emperor lifted his hand and hit her on the cheekbone so that she fell down.”
(24) (DA_Jer 1480)
Tha begynthe løffwe-n som hwn war wan gladeligh at løpe i then began lion-def as she was accustomed gladly to run in clostereth (...) eller rørdhe stiærth-en.
monastery-def (...) or wagged tail-def
‘Then the lion began, as she was accustomed to, to gladly run in the monastery (...) or wagged her tail.’

It should be noted that BNs are found in indirect anaphora even in Period III; however, as illustrated in examples (25) and (26), these occurrences may be lexicalizations rather than indirect anaphors.

(25) (DA_KM 1480)
Jamwnd-z hoffui-t bløde bodhe giømmen mwn ok øren.
Jamund-gen head-def bled both through mouth and ears
‘Jamund’s head bled through both mouth and ears.’

(26) (DA_Kat 1480)
badh meth mwndh oc hiærthe.
prayed with mouth and heart
‘(She) prayed with mouth and heart.’

4.2 Semantic, lexical/thematic

The lexical/thematic type is based on our lexical knowledge of certain elements forming more or less stereotypical events or processes, e.g., a court case involves a judge, one or more hearings, a charge, a plaintiff and so on. In Period I we find mostly BNs in this type of indirect anaphora (example (27)), but a few instances of the incipient definite article have been found as well (example (28)).

(27) (SW_AVL 1225)
Sitær konæ i bo dör bonde.
sits wife in house dies husband
‘If a wife is alive and the husband dies.’

(28) (SW_OgL 1280)
Nu dræpær maþ-ær man koma til arua man-zs-in-s ok now kills man-nom man.acc come to heir man-gen-def-gen and fa drapar-a-n ok hugga þær niþær a føtær þæs döþ-a.
get killer-acc-def and cut there down on feet this.gen dead-gen
‘If a man kills another, comes to the man’s heir and gets the killer and cuts (him) down at the feet of the deceased.’
This context allows defNPs as early as Period I. I have not found possNPs in this type of indirect anaphora. In Period II the lexical type is regularly found with defNPs, in pairs such as *tjuven* ‘the thief’ – *stölden* ‘the larceny’, *wighia* ‘ordain’ – *vixlenne* ‘the ordination’, *henger* ‘hangs’ – *galghan* ‘the gallows’, *rida* ‘ride’ – *hästen* ‘the horse’, *fördes död* ‘a dead (man) was carried’ – *baren* ‘the stretcher’. Typical for this type of indirect anaphora is that the anchor need not be nominal and the anaphor may be accessible through a VP.

### 4.3 Conceptual scheme-based anaphors

The conceptual types of indirect anaphora are resolved not (only) through lexical knowledge but rather through familiarity with stereotypical relations between objects or events and objects. The NPs found in this type are either BNs (in Period I) or defNPs. PossNPs, on the other hand, are seldom found in this type at all, irrespective of the period. I have located some examples of possNPs that may be considered indirect anaphors; it should be noted that they, such as example (31), sound natural with a reflexive possessive in Modern Swedish as well and the choice between defNP and possNP may be a question of stylistics rather than grammatical correctness.

(29) *(SW_HML 1385)*

Diäfwl-en saa hans dirue oc reede hanom snaru. (...) Oc baþ devil-DEF saw his courage and prepared him trap (...) and asked munk-in sik inläta i sin cella.

‘And he (the devil) asked the monk to let him in his (= the monk’s) cell.’

(30) *(DA_Kat 1488)*

Ther sancta katherina thette fornam tha luckthe hwn sik when saint Catherine this understood then locked she herself hardeligh i syn cellæ och badh jnderligh till gudh.

‘When Saint Catherine understood this, she locked herself away in her cell and prayed passionately to God.’

However, the most commonly found NP forms in this type of indirect anaphora are either BNs (in Period I) or defNPs (sporadically in Period I, regularly in Period II and Period III), such as *tjuvnad* ‘larceny’ – *malseghanden* ‘the plaintiff’ (larceny is prosecuted, somebody sues, this person is called a plaintiff), *skuld krava* ‘debt demand’ – *guldit* ‘the gold’ (the debt is to be paid, it is possible to pay it in gold).
4.4 Conceptual inference-based

This type of indirect anaphora is the least accessible. To correctly identify the referent, the hearer must not only consider the textual information or stereotypical knowledge of the world, but also make inferences allowing him/her to resolve the anaphor. It should be noted that some authors do not consider this type anaphoric at all, e.g., Irmer (2011).

In the corpus, this type is expressed either by BNs or by defNPs. No possNPs were found here. An interesting fact, however, is that defNPs may be found as early as Period I.

(31) (SW_AVL 1225)
Maþær fær sær aþalkono gætær viþ barn dór sv fær aþra man gets himself wife begets by child dies this gets another gætær viþ barn fær hina þriðiu þór bonde þa konæ er livændi begets by child gets that third dies peasant than woman is alive þa skal af takæ hemfylgh sina alt þet ær vnót ær hun ællær than shall of take dowry her all that which unused is she or hænær börn þa skal hin ælsti koldær boskipti kræfiaæ takæ af her children than shall that oldest brood division demand take of þriþiung af bo-n-o.
third-part of estate-DAT-DEF
‘If a man marries a woman and has a child with her, after her death marries again and fathers a child and marries for the third time and dies, leaving the widow, she or her children should retrieve her dowry –all of it that is unspoilt– then the children of the first marriage demand a part in the estate and should be awarded a third of it.’

(32) (SW_Jart 1385)
Nu j the stund-in-ne for ther fram vm en prästir mz now in this hour-DAT-DEF travelled there forward about a priest with gud-z likama til en siukan man ok klokka-n ringde for gud-z God-GEN body to a sick man and bell-DEF rang for God-GEN likama.
body
‘At this hour a priest was travelling to a sick man, carrying the wafer and the bell rang to announce him.’

I have not found a single example of indirect anaphora that could be classified as conceptual inference-based which would be expressed by a possNP. In this
type of anaphora defNPs occur early – they are found, though only sporadically, at the beginning of Period I (while the meronymic type is not expressed with defNPs until the end of Period II). To begin with, however, BNs are prevalent. Gradually, they are suppressed by defNPs, without going through the possNP phase which the meronymic types seem to have done. This type of indirect anaphora may be seen as the one reserved for the definite article, since no other element, possessive or demonstrative, can appear here.

Table 4: NP forms of indirect anaphora in Old Danish and Old Swedish

<table>
<thead>
<tr>
<th></th>
<th>BN</th>
<th>POSS-REFL</th>
<th>POSS-PRO</th>
<th>-IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period I (1220–1350)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>−</td>
</tr>
<tr>
<td>Period II (1350–1450)</td>
<td>−/ (+)</td>
<td>+</td>
<td>+</td>
<td>(+)</td>
</tr>
<tr>
<td>Period III (1450–1550)</td>
<td>−/ (+)</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

5 Discussion: indirect anaphora and grammaticalization of the definite article

The grammaticalization of the definite article is a relatively well-studied development, yet a number of questions remain unresolved. The first models proposed in the literature show the path from (distal) demonstrative to definite article in one step (Greenberg 1978) or focus on the first stage of development, i.e., textual deixis and direct anaphora (J. Lyons 1975). Diessel (1999) sees definite articles as derived from adnominal anaphoric demonstratives, while C. Lyons (1999) argues that the origins of the definite are to be found in exophoric use (when the referent is present and accessible in the physical context) and in anaphoric use (when the referent is also easily accessible, though through discourse rather than the physical situation). Common to J. Lyons (1975), Diessel (1999) and C. Lyons (1999) is the focus on the initial stages of grammaticalization as the shift from demonstrative to definite article. However, none of these proposals account for the fact that what truly distinguishes a definite article from a demonstrative is the possibility of being used in indirect rather than direct anaphora, a context where the use of demonstratives is allowed only marginally, if at all (see Charolles 1999 for a discussion of demonstrative use in indirect anaphora). Demonstratives may, on the other hand, be used in direct anaphora without exhibiting any other properties of or grammaticalizing into definite articles. It seems therefore that the critical
7 Indirect anaphora in a diachronic perspective

shift from a demonstrative to a definite article takes place where the demonstrative/incipient article appears in indirect anaphora (see also de Mulder & Carlier 2011; Skrzypek 2012).

(33)  demonstrative → direct anaphora → indirect anaphora → unique (→ generic)

What remains unclear is both the course of the development from direct to indirect anaphora and the course through indirect anaphora (which is not a homogeneous context, as demonstrated above). Also, the variation between definite article and other elements such as possessive pronouns and incipient indefinite article has not been given enough attention.

Recently, Carlier & Simonenko (2016) have proposed that the development of the definite article in French proceeds from strong to weak definiteness, with the strong-weak dichotomy, as proposed by Schwarz (2009), basically corresponding to the long-debated origins of definite meaning in either familiarity (strong definiteness) or uniqueness (weak definiteness). Based on diachronic data from Latin and French, Carlier and Simonenko suggest that the developments may be partly independent and that the weak and strong patterns unite in a single definite article with time. They note that in Classical Latin direct anaphoric relations are increasingly marked by demonstratives, among them the incipient definite article *ille*, yet the indirect anaphoric relations remain unmarked in both Classical and Late Latin and are marked with the l-article first in Old French. As Carlier and Simonenko claim, the original semantics of the l-articles involved an identity relation with a context-given antecedent (strong definiteness). With time, an alternative definite semantics emerged, involving a presupposition of uniqueness rather than an identity relation (weak definiteness).

These two types of definiteness may be expressed by different definite articles, as has been noted for some German dialects (Austro-Bavarian German) and North Frisian (Ebert 1971), or they may correspond to different behaviours of the one definite article, as in Standard German (Schwarz 2009).

In a diachronic context, the division into strong and weak definiteness leaves indirect anaphora neither here nor there. Its resolution depends on textual anchoring (familiarity); however, it also depends on the uniqueness presupposition. Consider examples (34) and (35).

(34)  I took a taxi to the airport. The driver was a friendly elderly man.

(35)  He drove to the meeting but arrived late due to a problem with a tyre.

The use of the defNP *the driver* is based on both familiarity (with the vehicle mentioned earlier) and uniqueness (there only being one driver per car). The use
of the indefNP a tyre is motivated by there being more than one in the given context, the anchor being the verb drove suggesting a vehicle, of which a tyre (the faulty tyre in this case) is a part (making the driver late). There is familiarity (we assume the existence of a vehicle) but no uniqueness. It is therefore not easy to place indirect anaphora in the strong-weak definiteness dichotomy. It may be that some types of indirect anaphora show more similarities with strong definites while others have a closer affinity with weak definites.

This would explain the relative discrepancy between inalienables and other types of indirect anaphora. The inalienable relationship between the anchor and the anaphor is based on familiarity (the anaphor being a part of the anchor) but not necessarily uniqueness. In this textual relation it is possible (and in most contexts most natural) to use the defNP benet ‘the leg’ referring to either of the two legs, just as it is to say fickan ‘the pocket’ irrespective of how many pockets there are in the outfit worn.

6 Conclusions

The model of the grammaticalization of definiteness is imperfect, as is our understanding of the category itself. It is a recurring problem in many linguistic descriptions that definites are defined mainly as text-deictic (this also applies to grammars of article-languages), whereas corpus studies show that this is not the (whole) case. While an extended deixis in the form of direct anaphora is understandable, it is by no means certain that it is the original function of the article. Also, it is present in many languages that cannot be claimed to have definite articles, like the Slavic languages, and has not led (yet?) to the formation of a definite article. Perhaps the origins of the article are to be sought among the bridging uses, including in their widest sense (conceptual inferential).

The results of my study show that indirect anaphora is a heterogeneous context and that the incipient definite article does not spread through it uniformly in Danish and Swedish. It appears relatively early in semantic lexical types (a book – the author) and in conceptual types; in these contexts its main competitor is the original BNs. However, it is late in appearing in semantic meronymic types, in particular those involving inalienable possession. In this context there is strong competition from the reflexive possessive pronouns.

As indirect anaphora constitutes a crucial element of the grammaticalization of the definite article, it should be addressed in any account of the development of that article.
Acknowledgments

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Sources

Danish
DA_VL Valdemars lov ca. 1300. http://middelaldertekster.dk
DA_Jer Af Jeronimi levned ca. 1488. Gammeldansk læsebog, 341-345
DA_Kat Af Katherine legende ca. 1488. Gammeldansk læsebog, 346-347
DA_KM Karl Magnus Krønike ca. 1480. Poul Lindegård Hjorth, Udg. for Universitets-Jubilæets Danske Samfund, J. H. Schultz

Swedish
all texts downloaded from Fornsvenska textbanken.
SW_AVL Äldre Västgotalagen, ca. 1225
SW_Bur Codex Bureanus, ca. 1330
SW_Jart Järteckensbok, ca. 1385
SW_ST Själens Tröst, ca. 1420
SW_OgL Östgotalagen, ca. 1290
SW_HML Helga manna leverne ca. 1385

References

Carlier, Anne & Alexandra Simonenko. 2016. The evolution of the French definite article: From strong to weak. Presentation at Going Romance.


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