# The Northern Subject Rule: A synchronic puzzle with a diachronic solution 

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## 1 Introduction

- Generalized -s in the present tense: Major difference between Standard English and northern varieties of English:

|  | Standard English | Northern dialects of English |
| :--- | :--- | :--- |
| 1 sg | sing | sing-s |
| 2 sg | sing | sing-s |
| 3 sg | sing-s | sing-s |
| 1 pl | sing | sing-s |
| 2 pl | $\operatorname{sing}$ | sing-s |
| 3 pl | sing | sing-s |

Table 1: Verbal inflection (present tense), Standard English vs. Northern dialects

- Northern Subject Rule (NSR): In many (Central) Northern varieties (in particular, Northumberland, Cumberland, Durham, Westmorland), the realization of
verbal agreement (i.e., $-s$ ) is sensitive to ${ }^{1}$
(i) type of subject (pronouns vs. DPs)
(ii) position of subject
(1) Northern Subject Rule (NSR) A finite verb takes the ending -s except when it is directly adjacent to a non-3sg pronominal subject (I/you.sg/we/you.pl/they).

|  |  | Northern dialects of English |  |
| :--- | :--- | :--- | :--- |
|  | Standard English | pron. subjects (adjacent to V) | DP subjects |
| 1sg | sing | sing | - |
| 2 sg | sing | sing (but: thou sing-s) | - |
| 3 sg | sing-s | sing-s | sing-s |
| 1 pl | $\operatorname{sing}$ | sing | - |
| 2 pl | $\operatorname{sing}$ | sing | - |
| 3 pl | $\operatorname{sing}$ | $\operatorname{sing}$ | sing-s |

Table 2: Verbal inflection (present tense), Standard English vs. Northern dialects + NSR

- As a result, the NSR dialects exhibit a three-way distinction dependent on type and position of subject:
(2) a. the birds (only) sings
b. they sing
c. they only sings
d. they sing and dances
e. they that sings ('they who sing')
- The effects of the NSR can also be observed in cases where the pronoun is rightadjacent to the finite verb (i.e., in cases of subject-verb inversion):
(3) a. Do they sing?
b. Does the birds sing?
- This paper:
(i) Post-syntactic analysis of NSR effects: $-s /-\emptyset$ mark the absence/presence of positively specified agreement features (person/number) in the minimal phonological phrase the finite verb is part of.
(ii) Historical development of the NSR: Conspiracy of (i) generalized $s$-inflection; (ii) OE Agr-weakening; (iii) generalized V2 in the northern varieties; dialect contact with southern varieties

[^0]
## 2 A post-syntactic approach to the NSR

General problem: "Markedness paradox" (Pietsch 2005) - while -s is clearly the marked inflection in Standard English, the situation in the NSR dialects is more complex:
(i) DP /non-adjacent subjects: -s as a default marker
(ii) Subject pronouns adjacent to the verb: $-s$ seems to mark 3sg.

|  | Northern dialects of English |  |
| :--- | :--- | :--- |
|  | pron. subjects (adjacent to V) | elsewhere |
| 1 sg | sing $-\varnothing$ | sing -s |
| 2 sg | $\operatorname{sing}-\varnothing$ | sing -s |
| 3 sg | sing -s | sing -s |
| 1 pl | sing $-\varnothing$ | sing -s |
| 2 pl | $\operatorname{sing}-\varnothing$ | sing -s |
| 3 pl | $\operatorname{sing}-\varnothing$ | sing -s |

Table 3: Verbal inflection (present tense), NSR dialects

## - Basic claims:

(i) In the NSR dialects under discussion, there is only a single -s affix with a uniform specification (default marker/elsewhere case);
(ii) The zero marker signals the presence of positive values for person or number features ${ }^{2}$
(iii) Agreement is established in the post-syntactic components of grammar (cf. e.g. Embick and Noyer, 2001, Ackema and Neeleman, 2004, Bobaljik, 2008), either via

* (a) post-syntactic agreement rules that operate on feature bundles that are part of the same phonological phrase (cf. Ackema \& Neeleman 2004 on complementizer agreement)
* (b) insertion of dissociated agreement morphemes (copies of the subject's phi-set) under adjacency (Embick, 1997, Noyer, 1997, Embick and Noyer, 2001)


## - Adjacency effect:

(4) - $\emptyset$ marks the presence of positive specifications for $[+/-$ person $]$ or $[+/-$ number] in the minimal phonological phrase the finite verb is part of.

- $-s$ with 3 sg pronouns: 3 sg pronouns are characterized by the absence of (positive) specifications for [person] and [number] ${ }^{3} \rightarrow$ insertion of the elsewhere marker -s

[^1]- $-s$ with phrasal subjects: Phrasal subjects are mapped onto a separate phonological phrase (Cinque, 1993). Their feature content is therefore not visible to the workings of the relevant agreement operations $\rightarrow$ insertion of the elsewhere marker $-s$
- The analysis makes available a new perspective on 3sg -s in Standard English: $s$ is not explicitly specified for [person] and [number], but rather sensitive to the presence/absence of positive feature values for [person] or [number] (see Haeberli, 2002 for a related analysis).
- Further evidence supporting a post-syntactic account: strong pronouns behave like phrasal subjects and always trigger -s (cf. Pietsch 2005: 8, 88):
(5) They've recently comed, has them.


## 3 The historical development of the NSR

### 3.1 Historical stages in the rise of the NSR

|  | Old English | Northern ME I | Northern ME II | Northern ME III $\rightarrow$ EModE |
| :--- | :--- | :--- | :--- | :--- |
| 1sg | sing-e | sing-e | sing- $\varnothing$ | sing-s $\rightarrow$ I sing - $\varnothing$ |
| 2sg | sing-es(t) | sing-es | sing-s | sing-s (thou sings) $\rightarrow$ you sing |
| 3sg | sing-eð | sing-es | sing-s | sing-s $\rightarrow$ he/she/it sing-s |
| 1pl | sing-að | sing-es | sing-s | sing-s $\rightarrow$ we sing - $\varnothing$ |
| 2pl | sing-að | sing-es | sing-s | sing-s $\rightarrow$ you sing - $\varnothing$ |
| 3pl | sing-að | sing-es | sing-s | sing-s they sing-s $\rightarrow$ sing- $\varnothing$ |

Table 4: Historical development of verbal inflection, Northern dialects
(i) During the transition from OE to northern ME, $2 \mathrm{sg}-e s, 3 \mathrm{sg}-e / \partial e$ and $\mathrm{pl}-a / \partial e /-a s$ fell together in $-e(s)$ (rise of an underspecified inflectional marker)
(ii) After the loss of vowels in the final syllable, northern ME exhibited an opposition between 1sg - $\varnothing$ and all other contexts ( $-s$ )
(iii) Extension of $-s$ to 1 sg ; NSR: introduction of the zero marker in plural contexts (first with lexical verbs and in adjacency contexts): first with $1 \mathrm{pl} / 2 \mathrm{pl}$, somewhat later with 3pl
(iv) Analogical extension to forms of be (including was/were); ${ }^{4}$. Replacement of thou is with you are (the original plural form) in the EModE period (not in all dialects)

[^2]
### 3.2 Old English

- Berndt (1956): Later group of Northumbrian texts (Lindisfarne Gospels, Rushworth(2) Gloss, Durham Ritual, all mid-10th century) are first OE texts that show the $-s$-ending variably with the - $\partial$-ending ; triggering factors are subject pronouns which could take over the function of person marking; completely refutes phonetic factors for change of $-\delta$ to $-s \rightarrow$ special role of subject pronouns (as opposed to NP subjects) foreshadows part of the NSR
- Further observation: (late) OE exhibits agreement variation/weakening in inversion contexts (Jespersen, 1942, 15, Quirk and Wrenn, 1955, 42, Campbell, 1959, 296, van Gelderen, 2000): In cases where we or $g e$ follows the inverted finite verb, the regular agreement ending is replaced by schwa ${ }^{5}$
a. Ne sceole ge swa softe sinc gegangen.
neg must you so easily treasure obtain
'You must not obtain treasure so easily.' (Battle of Maldon, p. 244, 1.59)
b. Hwæt secge we be bæm coc?
what say we about the cook
'What do we say about the cook?' (AElfric's Colloquy on the
Occupations, p. 188, 1.68)
- The regular endings for the present tense indicative and subjunctive forms are -að, -on,-en for the personal pronouns we and ge
- The exception to this rule are contexts where the finite verb precedes the pronouns $w e$ and $g e$ : the reduced form - e can occur
- Rodeffer (1903) explicitly assumes that these syncopated forms were the direct source of the later affixless forms of the NSR.
- Corpus study: position of the personal pronouns we and ge and adjacent present tense verb forms in the York-Toronto-Helsinki Parsed Corpus of Old English Prose (Taylor et al., 2003) reveals the following results $\rightarrow$ Table $5^{6}$ :
- Most strikingly the forms ending in $-e$ are predominantly found in the inversion context (for we 268 vs. 17, for ge 363 vs. 5)
- These forms are predominantly marked as ambiguous forms (i.e. they are tagged VBP in the corpus implying their ambiguous status), some unambiguous subjunctive forms are also found (for we 6 vs. 268, for ge 363 vs. 11)

[^3]| First person plural pronoun we |  | Second person plural pronoun $g e$ |  |
| :---: | :---: | :---: | :---: |
| we - vbp* | vbp* - we | $g e$ - vbp* | vbp* - $g e$ |
| 1998 | 640 | 874 | 597 |
| we - vbpi | vbpi - we | $g e$ - vbpi | vbpi - $g e$ |
| 1783 | 174 | 655 | 68 |
| we - vbps | vbps - we | $g e-\mathrm{vbps}$ | vbps - $g e$ |
| 198 | 122 | 211 | 44 |
| we - vbpamb | vbpamb - we | $g e$ - vbpamb | vbpamb - ge |
| 17 | 268 | 5 | 363 |

Table 5: Verb forms occurring with "we" and "ge"

- The regular endings -að (-ð for don,gan,willan) and -on (for modals like magon, sculon, witon) predominantly occur in non-inversion contexts (for we 1783 vs. 174, for ge 655 vs. 68)
- These findings clearly indicate that there is a correlation between the occurrence of the -e ending and subject-verb inversion for both personal plural pronouns across all texts in the corpus (finding corroborates Jespersen's observation)
- Concerning early occurrences of the - (e)s endings, only five reduced forms of the second person singular could be found ( $\partial u$ tilas, hafas, ehtes, agylts, wens; all other forms (third person sg. and plural forms show regular endings.


### 3.3 Middle English

- While the NSR is not attested in late (northern) OE records (dating from the mid10th century), it occurs in some ME texts. A survey of all texts in the PPCME2 gained the following results ${ }^{7}$ :
- Some examples for NSR with NP subjects are given below:
a. ba gates sal ye fle pat wicke men gas to hell by. the gates shall you flee that wicked men goes to hell by (BENRUL,12.411)
b. and be vij beemes bitokenes pat ge shul haue vij sones; and the five trumpets symbolises that you shall have five sons (BRUT3,64.1920)
c. The ten commandmentis kennes vs what we sall do, the ten commandements tell us what we shall do (EDTHOR,28.312)

[^4]| Text | Dialect | Date | $-s$ <br> plural with <br> subj. | $-s$ <br> non- with <br> adjacent <br> subj. pron. |
| :--- | :--- | :--- | :--- | :--- |
| BENRUL | N | M3 (a1425) | 6 |  |
| BRUT3 | WM | M3 (c1400) | 1 |  |
| EDTHOR | N | M34 (c1440 (?1350)) | 9 |  |
| GAYTRY | N | M34 (c1440) | 8 |  |
| JULNOR | EM | M34 (c1450) | 2 |  |
| ROLLEP | N | M24 (a1450,(?1348)) | 27 | 4 |
| ROLLTR | N | M24 (c1440 (a1349)) | 10 | 3 |
| ROYAL | S | M34 (c1450 (c1425)) | 1 |  |

Table 6: The NSR in the PPCME2
d. Of whilke synn, many spyces sprenges and spredes. of which sin many species grows and spreads (GAYTRY,12.160)
e. Oure lorde has pite and compassyon of vs for that sum creatures our lord has pity and compassion of us for that some creatures
makes tham so besy beryn,
makes them so busy therin (JULNOR,62.327)
f. Robes and ritches rotes in dike, robes and ritches rots in ditch (ROLLEP,64.62)
g. Astronomyenes by-haldes be daye and be houre, and be poynte bat astronomers observes the day and the hour, and the point that man es borne In, ...
man is borne in
(ROLLTR,10.284)
h. And to sey shortely, welnyg in euery coost of be marches Cristen and to say shortly, nearly in every coast of the marches Christen mens lordeshippes decresses
men's lordships decreases
(ROYAL,255.274)

- The only examples found with plural pronouns non-adjacent to present-tense verb with the - $s$-ending occur in Rolle's works
- A look at some examples gives the impression that the NSR is established in the works of Richard Rolle ${ }^{8}$ :

[^5](9) a. Some pe devell deceyves purgh vayne glory, bat es ydil joy: when any some the devil deceives through vain glory that is idle joy when any has pryde and delyte in bamself of be penance bat bai suffer, of has pride and delight in themselves of the penance that they suffer of gode dedes bat bai do. of any vertu pat bai have; es glad when men good deeds that they do of any virtue that they have is glad when men loves bam, sari when men lackes bam, haves envy to pam pat es loves them sorry when men lacks them haves envy to them that is spokyn mare gode of ban of bam; spoken more good of than of them (ROLLEP,86.368)
b. He says bat 'he lufes bam bat lufes hym, and bai bat arely wakes he says that he loves them that loves him and they that early wakes til hym sal fynde him'.
till him shall find him
(ROLLEP,76.212)
c. and God comfortes his lufers mare ban pai wene pat lufes hym and God comforts his lovers more than they think that loves him noght.
not
(ROLLEP,63.44)

- A closer look at the contexts with non-adjacent plural pronouns reveals that
a) it is only the 3rd ps. plural pronoun that occurs,
b) non-adjacency between the plural pronoun and the present tense verb is triggered in contexts where the verb occurs in a relative clause directly following the pronoun.
- This observation is confirmed by a survey of the texts from the Helsinki Corpus of Middle Scots: If instances of this type of NSR occur, they do so in exactly the same context:

OUN SIN AGANIS THE SECUND COMAND OF GOD THE QUHILK IS THOU SAL NOTH TAK THE NAYME OF GOD INUANE ad thay that sweris ony fals aith or kepis notht thair faith promis in al lesum thig̃is / siclik thay yat sweris ad wowis yat thay sal dw ony ewil quhilk is aganis the co madis of God / thay prosperite / thay that desiris lowine or vane gloir for thair or visdome or of ony oder giftis of god / thay yat callis yat thay dw better na oders / and ar hard with god for causz thay reid and prais mekil and dois mony wtuert fenzeit warkis thay thaime / thay that corekkis noth oders quhilk takis the nayme god inuane (giff thay cane in oni maner) thay that heris or chraft / or to ony oder siclik abusione and turnis thayme notht thairfra efter thair onderstading / alsua thay that desiris lif thay sine aganis this forsaid secund command of god aganis it / thay that prais notht inuertlie to god ad seruis hime notht in the spreit / thay that trowis notht that thair guid varkis cuis notht of god bot of thair
selff thay wil notht suffer god to dat ad rewl thayme be aduersite efter the halie man iob Thay that leris notht oders yat thay suld notht help thayme with meid ad claith and oder neidful thingis (efter thair power) in thair necessite / and specialie thay yat or wil notht heir thaime ...
(GAU,JOHN.THE RICHT VAY TO THE KINGDOM OF HEUINE, 1533)

### 3.4 Towards an analysis

- Basic claims: After the breakdown of the OE agreement system, the NSR developed via a combination of generalized V2 in the northern varieties + agreement weakening in inversion contexts, which was also at work in OE (and turned into the NSR after the loss of V2).
- Contextual allomorphy of $1 \mathrm{pl} / 2 \mathrm{pl}$ forms dependent on the structural position of the finite verb (cf. e.g. Roberts, 1996):
(i) $\mathrm{C}^{\circ}$ in contexts with fronted operators ( $w h$, negation etc.)
(ii) A lower inflectional head ( $\mathrm{Infl}^{\circ} / \mathrm{T}^{\circ}$ ) in all other contexts (cf. e.g. Cardinaletti and Roberts, 2002; Pintzuk, 1999; Hulk and van Kemenade, 1995; Kroch and Taylor, 1997; Haeberli, 1999, Fischer et al., 2000, and many others):
a. [CP Op [C' C+Vfin [TP subject pronoun [T' T [VP ... ]|]|]
$\rightarrow$ agreement weakening
b. [CP XP [C' C [TP [T' T+Vfin [VP DP subject . . .] ]]]]
$\rightarrow$ regular agreement
c. [CP XP [C' C [TP subject pronoun [T' T+Vfin [VP . . ] ]|]]]
$\rightarrow$ regular agreement
- (Syntactic) Agr-weakening was originally a southern property, which most likely entered northern grammars via dialect contact (cf. Pietsch 2005: 53f. for discussion).
- Northern varieties: the original OE pattern in (1) was generalized to all contexts with adjacent non-3sg subject pronouns (cf. Rodeffer, 1903, Pietsch 2005) ${ }^{9}$.
- Why only in the northern varieties? Major syntactic differences between northern and southern varieties (early ME; (cf. Kroch and Taylor, 1997; Trips, 2002) ${ }^{10}$ :
a. [CP XP [C' C+Vfin [TP subject [T' T [VP ...]|]|]
b. [CP subject [C' $\left.\mathrm{C}+\mathrm{Vfin}\left[\mathrm{TP} \mathrm{t}_{\text {subj }}\left[\mathrm{T}^{\prime} \mathrm{T}[\mathrm{VP} \ldots]\right] \mid\right]\right]$

[^6]- Impact of dialect contact (southern Agr-weakening): Northern learners could not attribute Agr-weakening to:
(i) a special position of the verb (due to generalized V2) nor
(ii) a special position of pronouns (same syntax for all kinds of subjects) $\rightarrow$ reanalysis in terms of a post-syntactic agreement operation that is sensitive to phonological phrasing (and distinguishes between (non-3sg) pronouns and non-pronouns).
- Results: Syncopated $1 \mathrm{pl} / 2 \mathrm{pl}$ forms were not any longer confined to operator contexts $\rightarrow$ extension of "Agr- weakening" to all 1pl/2pl contexts, including preverbal pronouns in both main and embedded clauses:
(13) $\ldots$ be penance pat bai suffer ...
the penance that they suffer
(ROLLEP, 86.368)
- Development of the position-of-subject constraint: In The Bee and the Stork, a short morality tale also written by Rolle, we can observe first instances of the position-of-subject constraint:
(14) Swa thay hafe vndirstandynge, and fastes and wakes and semes haly to so they have understanding and fasts and wakes and seems holy to mens syghte
men's sight
(Richard Rolle, The Bee and the Stork, in the MED corpus, p. 194)
- Extension to 3pl: In ME, the Northern varieties replaced the original OE 3pl pronoun hio/heo with the Scandinavian ðai (which later spread to all varieties). This innovation led to cluster reduction of $[s+\varnothing]$ to $[\chi]$ for phonetic reasons (which was possibly promoted by analogical pressure ( $1 \mathrm{pl} / 2 \mathrm{pl}$ ), cf. Pietsch 2005:56).
- Speculation: Rise of the NSR was promoted by language contact with the Brythonic Celtic languages, which exhibit a similar distinction between pronouns and non-pronouns (cf. Hamp, 1976; Klemola, 2000, Filppula et al., 2002; de Haas, 2008
(15) a. gwelsan (nhw) ddraig.
see-3pl (they) dragon
'They see a dragon.'
b. gwelodd y dynion ddraig.
see the men dragon
'The men see a dragon.'
- "Markedness reversal": 'weak' syncopated OE forms turn into the marked inflections in the NSR dialects (signaling positive feature values):
a) $-s$ ending generalized to all contexts in the northern dialects;
b) Reanalysis of OE agreement weakening leads to zero ending in the NSR dialects:
(i) $1 \mathrm{pl} / 2 \mathrm{pl}$; (ii) extension to 3 pl ; (iii) extension to $2 \mathrm{sg}(2 \mathrm{pl}$ you » $>2 \mathrm{sg}$ );
c) Extension of - t to 1 sg in NSR contexts facilitates a reanalysis of $-s$ as the elsewhere marker (with -Øsignaling positive values for [person] and [number]),
probably driven by learning strategies that favor an economic inventory of inflectional markers (Minimize Feature Content, Halle, 1997, Fuss, 2008).


### 3.5 Summary

- Synchronic analysis of the NSR in terms of an agreement rule which operates post-syntactically and establishes agreement between elements that are part of the same (minimal) phonological phrase (weak pronouns vs. DP subjects).
- The zero marker signals positive values for [person] or [number]; -s is analyzed as the elsewhere case.
- Historical development of the NSR: After the breakdown of the OE agreement system, the NSR developed via dialect contact between northern and southern ME varieties. The rise of a post-syntactic NSR was shaped by the following factors:
(i) generalized verbal $-s$ in the northern dialects
(ii) generalized V2 in the northern dialects
(iii) Reanalysis of southern Agr-weakening ( $1 \mathrm{pl} / 2 \mathrm{pl}$ ) in terms of a post-syntactic operation in the northern dialects $\rightarrow$ (a) extension to preverbal pronouns; (b) development of position-of-subject constraint; (c) markedness reversal.


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[^0]:    ${ }^{1}$ Cf. e.g. (Murray, 1873, Berndt, 1956, Montgomery 1994, Schendl 1996, Corrigan 1997, Börjars and Chapman, 1998, Klemola, 2000, Pietsch 2005.)

[^1]:    ${ }^{2}$ Alternatively, we might assume that the $-s$ ending marks the absence of positive specifications for person or number in the immediate phonological phrase the finite verb is part of. While this analysis seems to be a technical possibility, it fails to capture the elsewhere/default character of -s is the relevant varieties (e.g., under non-adjacency etc.).
    ${ }^{3}$ cf. Benveniste, 1966, Halle, 1997, Noyer 1997, Harley and Ritter, 2002, Cysouw, 2003

[^2]:    ${ }^{4}$ Apparently, the use of is and was in the plural was never as categorically as the use of $-s$ with lexical verbs (cf. e.g. Montgomery 1994). However, it seems that present-day dialects exhibit a different tendency, in that they preserve the NSR more strongly with forms of be (Pietsch 2005)

[^3]:    ${ }^{5}$ Similar observations hold for early OHG (1pl), cf. Braune \& Reiffenstein (2004:262), and presentday Dutch (Ackema \& Neeleman 2004):
    (6) a. Jij loop-t dagelijks met een hondje over straat. you walk-2sg daily with a doggy over street
    b. Dagelijks loop-Ø jij met een hondje over straat. daily walk you with a doggy over street (Ackema and Neeleman 2004: 193)
    ${ }^{6}$ vbp* $=$ all present tense verb forms (full verbs, auxiliaries, modals), vbpi $=$ all unambiguously indicative verb forms, vbps $=$ all unambiguously subjunctive verb forms, vbpamb $=$ ambiguous subjunctive/indicative verb forms.

[^4]:    ${ }^{7}$ Apart from these cases which adhere to the NSR, we found cases which also show non-agreement but instead of the -s-ending with the - (e)p ending ( 5 cases from the Polychronicon (M3,S), Mirk's Festial (M34,WM), A Late Middle English Treatise on Horses (M3,S) Aelred of Rievaulx's De Institutione Inclusarum (M23,WM)

[^5]:    ${ }^{8}$ Richard Rolle of Hampole (ca. 1290-1349), Yorkshire, English hermit and mystic, one of the first religious writers to use the vernacular, very well known at his time and his writings were widely read during the 14 th and 15 th century

[^6]:    ${ }^{9}$ Rodeffer's proposal is criticized by Berndt (1956), who argues that quantitative data from Northumbrian OE texts indicate that there is no direct link between agreement weakening in OE and the NSR (more precisely, Berndt argues that the evidence available to us suggests that agreement weakening had already been in decline in the northern varieties before $-s$ was generalized to all persons and numbers). See Pietsch (2005:50ff.) for comprehensive discussion and a critical assessment of Berndt's arguments.
    ${ }^{10}$ Moreover, the NSR could not have developed in the southern varieties for purely morphological reasons: the loss of plural $/-\mathrm{n} /$ in ME period served to neutralize the contrast between full and syncopated forms formerly introduced by OE Agr-weakening.

