On the graduated evolution of do-support in English

Aaron Ecay

ecay@sas.upenn.edu

20 March 2010

1 Claim

- During the early phase of the spread of *do*-support in English, there existed a grammatical option intermediate between the verb-raising grammar of Middle English and the *do*-support grammar of Modern English.
- Specifically, this grammar merged do in little v.
- This fact has implications for the understanding of *do*-support as a cross-linguistic and historical phenomenon.

2 Background

- Do-support refers to the use of do as an auxiliary verb in Modern English.
- It arose in the Early Modern English period (1400-1700)
- Ellegård (1953) provided an early quantitative study of the evolution of the construction.
- Kroch (1989) extended the account, offering a generalization about the relationship between the rate of evolution of *do* in different grammatical contexts.
- Modern do-support environments follow a logistic curve (until ca. 1600).
- Their trajectories are parallel on the logit-transformed scale.
- Do in affirmative declaratives, not an allowable construction in Modern English, does not follow a parallel trajectory.¹
- See Figure 1 for an chart of the evolution of *do*-support in various grammatical contexts

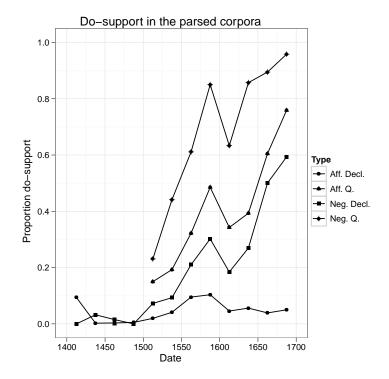


Figure 1: Do-support in the PPCEME and PCEEC

 $^{^1\}mathrm{Except}$ in emphatic sentences. However, the tokens of Early Modern English do-support cannot in the main be analyzed as emphatics.

3 Evidence

3.1 Auxiliary stacking

- (1) Examples with duplicated causative:
 - a. He leet the feste of his nativitee Don cryen thurghout Sarray his citee, (Chaucer *Canterbury Tales* "The Squire's Tale" c. 1400)
 - b. gret plentee of wyn bat the cristene men han don let make (PPCME2, CMMANDEV,47.1161 a. 1425)
 - c. The fairest children of the blood royal Of Israel he leet do gelde anoon. (Chaucer *Canterbury Tales*" The Monk's Tale" c. 1400)
 - d. Lat do him calle, and I wol gladly here (Chaucer *Canterbury Tales* "Physician's Tale" c. 1400)
- (2) Example with duplicated *do*:
 - a. And thus he dide don sleen hem alle three. (Chaucer, *Canterbury Tales* "Summoner's Tale" c. 1400)
- (3) Example with *have*:
 - a. He [death] hes done petuously devour the noble Chaucer of makaris flour (Wm. Dunbar "Lament for the Makars" c. 1505)²
- (4) Example with modal:
 - a. consequently it wyll do make goode drynke (A. Boorde *Introduction of Knowledge* a. 1542)
- (5) Other examples:
 - a. Fro the stok ryell rysing fresche and ying But ony spot or macull doing spring
 "From the royal stock rising fresh and young / without any spot or blemish springing"
 (Dunbar *The Thrissill and the Rois* 1503, in Visser (1963) §1419)

3.2 Adverb placement

- Adverbs can function as a diagnostic for the position of words in the functional domain. (Figure 2)
- · Each potential adverb position has a probability of use associated with it
- Kroch (1989) finds that the rate of use of $AdvP_1$ is roughly constant from the Middle English period to the present day

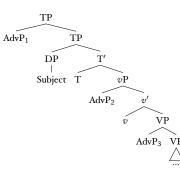


Figure 2: Position of adverbs

- We hypothesize that elements of the auxiliary system which are not undergoing change will have a constant rate of positioning relative to adverbs
- On the other hand, do does not show constant behavior over time (Figure 3)

3.3 Agentivity effects

- The association between agentivity and *do*-support provides the third argument for an intermediate grammar
- Ellegård (1953) noticed increased use of *do*-support in transitives (relative to intransitives)
- Extending this, using parsed corpora it is possible to separate unaccusatives from unergatives
- The unaccusatives singles out here are come, go, die, stand, rise, and arise
- Affirmative and negative declaratives may be found in Figures 4 and 5 respectively

4 Consequences

- The discovery that an intermediate grammar is detectable during the early stages of the spread of *do*-support has several ramifications:
 - The relationship of English with non-standard dialects of Dutch and German with affirmative declarative *do*-support
 - The approach to modeling the syntactic change underlying the spread
 - The understanding of syntactic change

²I am grateful to D. Ringe for bringing this example to my attention.

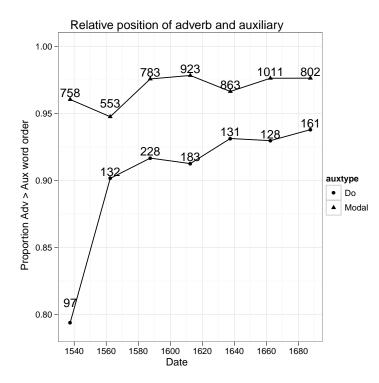


Figure 3: Adverb position, data from PPCEME and PCEEC

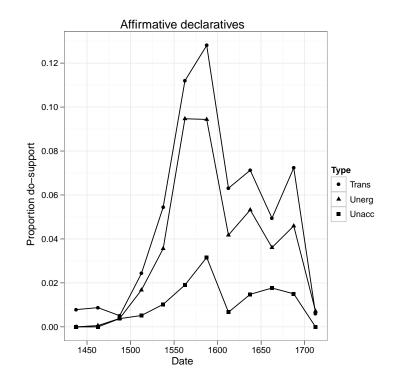


Figure 4: Affirmative declaratives in the PPCEME and PCEEC

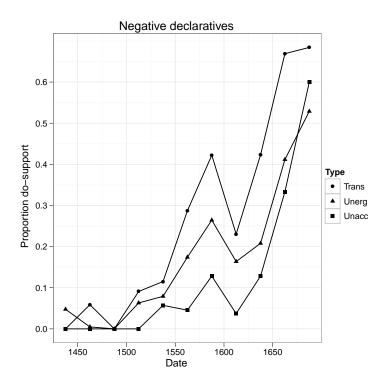


Figure 5: Negative declaratives in the PPCEME and PCEEC

References

- Ellegård, A. (1953). The auxiliary do: the establishment and regulation of its use in English. Stockholm: Almqvist & Wiksell.
- Kroch, A. (1989). "Reflexes of grammar in patterns of language change". In: Language variation and change 1.3, pp. 199–244.
- Kroch, A., B. Santorini, and L. Delfs (2005). Penn-Helsinki parsed corpus of Early Modern English. University of Pennsylvania. http://www.ling.upenn.edu/hist-corpora/PPCEME-RELEASE-1/.
- Kroch, A. and A. Taylor (2001). *The Penn-Helsinki parsed corpus of Middle English*. CorpusSearch; National Science Foundation (US); University of Pennsylvania Research Foundation.
- Taylor, A. et al. (2006). Parsed Corpus of Early English Correspondence, parsed version. Compiled by the CEEC Project Team. York: University of York and Helsinki: University of Helsinki. Distributed through the Oxford Text Archive. http://www-users.york.ac.uk/~lang2 2/PCEEC-manual/index.htm.
- Visser, F. T. (1963). An historical syntax of the English language. E. J. Brill.