On the Role of Historical Newspapers in Disseminating Foreign Words in German

Oliver Pfefferkorn, Peter Fankhauser

IDS-Manheim
Germany
pfefferkorn@ids-mannheim.de, fankhauser@ids-mannheim.de

Abstract

Newspapers became extremely popular in Germany during the 18th and 19th century. In the 18th century several types of newspapers, among them political newspapers, advertising supplements or intelligencers, and weekly magazines emerged, coinciding with the rise of a civil public. In contrast to other types of public and private writing, newspapers are characterized by actuality, periodicity, topical diversity, and public access (Wilke, 1999, p. 388). They reached a wider audience than any other text type and spread across all social classes.

Wilke (1999, p. 397) estimates that German newspapers reached about 3 Mio readers in the late 18th century. Thus, the language of newspapers has been very influential for the development of German in the 18th and 19th century. Up to now this influence has not been analyzed systematically; rather analysis of the more recent history of German has focussed on few selected varieties, in particular (high) literature.

A historical reason for this marginalization of newspapers as an influential factor for (early) modern German is the rather widespread contempt for the medium by the educated middle class (Theobald, 2012). A more practical reason though is the unavailability of newspaper corpora. Newspapers typically have not been reprinted, and the original facsimiles are difficult to access. Therefore, research on language history is typically focussed on the analysis of individual newspapers and rather specific linguistic questions.

The remainder of this paper is organized as follows: In Section 2, we describe the Mannheim Corpus of Historical Newspapers and Magazines and in Section 3, we outline some of its potential uses for analyzing the influence of newspapers on modern German. In Section 4, we analyze the role of newspapers in popularizing foreign words, and in Section 5., we conclude and outline future work.

Keywords: Historical Corpora, Newspapers, Language Variation

1. Introduction

Newspapers became extremely popular in Germany during the 18th and 19th century. In the 18th century several types of newspapers, among them political newspapers, advertising supplements or intelligencers, and weekly magazines emerged, coinciding with the rise of a civil public. In contrast to other types of public and private writing, newspapers are characterized by actuality, periodicity, topical diversity, and public access (Wilke, 1999, p. 388). They reached a wider audience than any other text type and spread across all social classes.

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2. The Mannheim Corpus of Historical Newspapers and Magazines

The Mannheim Corpus of Historical Newspapers and Magazines (MKHZ) consists of 21 German newspapers and magazines from the 18th and 19th century. The currently publicly available version1 comprises about 650 individual volumes with over 4.1 Mio tokens on 4678 pages overall.2

In addition to the original page scans, it is available in TUSTEP format (TUSTEP, 2013), acquired in a double keying procedure, and in TEI P5, which was generated semi-automatically from the TUSTEP version (Fankhauser et al., 2013b). On this basis, a human readable version in HTML aligned with the page scans, CMDI metadata (Broeder et al., 2011) for its long term archival in the IDS Repository (Fankhauser et al., 2013a), and an IDS–XCES version for import into the Corpus Search and Analysis System COSMAS II (Bodmer, 2005) were generated. For each volume, basic metadata including title, publication date and place, and a broad classification into newspapers vs. magazines are available. The logical structure is very simple, individual volumes consist of paragraphs and tables, a division into individual articles is currently under way.

3. Digitized Newspapers for Linguistic Research

Digitized newspaper corpora enable a quantitative perspective on the role of news for the historical development of German. Here is a nonexhaustive list of potentially interesting questions to investigate:

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1MKHZ: http://hdl.handle.net/10932/00-01B8-AE41-41A4-DC01-5
2For comparison, the historical newspaper corpus compiled for the GerManC corpus (Bennett et al., 2010) comprises about 300,000 tokens.
News as a Genre: How did the news genre differentiate itself from other genres, such as science or fiction?

Types of News: How did various types of news and newspapers evolve and differentiate themselves (e.g. news, announcement, background feature, reportage (Püschel, 1999))? And how do these types manifest themselves linguistically?

Homogenization: Whether and how were regional and dialectal characteristics reduced over time?

Advertisements: How did various types of advertisements evolve (e.g. product ads, job ads, real estate ads, private ads, personal ads, purchase ads, etc.)?

Spoken Language: Newspapers contain text types pertaining to some extent to spoken language, such as speeches, protocols, calls, or letters to the editor, which may help in analyzing historical spoken language.

4. Foreign Words in Newspapers

In this section we analyze one aspect of newspapers as a genre in more detail. Newspapers and magazines have never been shy of using foreign words. This can already be observed for the early German weekly magazines in the 17th century (Gloning, 1996, pp. 164 – 179). Authors of dictionaries of foreign words in the 18th and 19th almost formulaically refer to “assisting their readers in comprehending newspapers” in their subtitles. This gives rise to the hypothesis that newspapers took over and popularized many foreign words from specialized subject domains. As a consequence many of these foreign words have been taken over into standard German.

Until now though, the historical role of newspapers in disseminating foreign words has not been analyzed systematically due to the lack of appropriate historical newspaper corpora. It is unclear which foreign words were used most frequently in newspapers, which foreign words have been considered part of standard German and normalized using a small, non-exhaustive set of heuristic rules. The resulting matches are not 100% accurate; ambiguous words such as modern (as a (foreign) adjective: modern, as a (native) verb: to molder/rot) hurt precision, incomplete normalization and lemmatization, and not taking into account derived lemmata hurt recall. However, these inaccuracies have largely the same effect on the various (sub)corpora; fairly low recall is the dominant factor, and thus the reported percentages of foreign words in German constitute lower bound estimates.

Table 1 lists the overall number of tokens ($\#f$), the number of tokens which match foreign words ($\#f$), and the according percentage of foreign words ($%f$) for MKHZ and DTA over time. The relatively low percentage of foreign words in the 17th century (DTA only) is mainly due to two reasons: DFWB does not include foreign words that have become obsolete again, and normalization and lemmatization are less accurate for this period. However, in the subsequent periods, which are covered by both corpora, the percentage of foreign words in DTA is consistently smaller than in MKHZ. This indicates that indeed newspapers have historically contributed more strongly to disseminating foreign words into general language than other genres.

Table 2 analyzes the percentage of foreign words by genre. MKHZ is broadly divided into newspapers vs. (weekly) magazines, which often contain text pertaining more to belle lettres, such as serial novels. Indeed newspapers proper have a significantly higher percentage of foreign words than magazines. This is mirrored in DTA where foreign words in factual writing are also significantly more frequent than in belle lettres. As is to be expected scientific writing (learned) has the highest frequency of foreign words in DTA. Note that newspapers in MKHZ also have a higher percentage than scientific writing in DTA, but this may again well be due to the longer time span covered by DTA.

For a more detailed perspective, we analyze the dissemination of foreign words during the 18th and 19th century along three examples. In addition to MKHZ and DTA, we also use the historical corpus DGB01, which comprises

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2. Main lemmata in DFWB comprise loan words as well as some words derived by combining loan stems, prefixes, and suffixes with other words (derived lemmata).
4. The overall number of tokens is smaller for both corpora, because only alphabetic words occurring within paragraphs – no titles, tables, etc. – have been taken into account.
5. All reported differences are significant according to a $\chi^2$ test with a $p$-value well below 0.1%.
6. Deutsche Bibliothek/Deutsche Literatur von Lessing bis Kafka (Digital Library/German Literature from Lessing to Kafka)
ing, and only rarely in literary publications, as also evidenced by DTA. Only since the mid 19th century it occurs more frequently outside of scientific writing, and indeed primarily in newspapers and magazines (367 occurrences in MKHZ between 1847 and 1905 with a peak between 1848 and 1850). It is typically used in political contexts, such as in der provisorische Zustand (the provisional state of affairs), die provisorische Regierung/Zentralgewalt (the provisional government/central power), or provisorische Anordnungen/Gesetze (provisional orders/laws). In comparison, the literature corpus DGB01 only records 53 occurrences in the period of 1793 and 1923. In this case, newspapers adopt the scientific terminology, adapt it to more domains, and thereby disseminate it.

As a last example, the adjective reaktionär (reactionary) was borrowed from French in the eighteen-thirties. Until the middle of the 18th century it was used sparsely in political writing (10 occurrences in DTA from 1833 to 1849). Only since 1855 it started occurring more frequently in more domains. This increase is paralleled in MKHZ, where its frequency reaches a peak between 1848 and 1852 with 51 occurrences, with 73 occurrences overall. This again suggests that the language of newspapers may have served as a mediator, disseminating a specialized foreign word into standard German. In comparison, DGB01 contains only 26 occurrences between 1848 and 1905.

### 5. Conclusions and Future Work

We have presented the Mannheim Corpus of Historical Newspapers and Magazines, and on this basis investigated the role of newspapers for popularizing foreign words in German. Currently we are working on transforming another 2500 pages from TUSTEP to TEI P5 to improve its coverage. Moreover, we cooperate with the Berlin Brandenburg Akademie der Wissenschaften to integrate the corpus into DTA, which will enable us to use the more advanced techniques to normalization employed by the DTA for our empirical analysis.

Lexical change is not confined to the introduction of foreign words. In the course of the lexical and semantic change in German during the early 19th century many words from middle and early modern German – in particular in poetic literature – became obsolete or changed their meaning (Beutin, 1972), leading to the final norm of modern German also in the lexical domain. So far the reasons for this change have not been described systematically, e.g., which were the driving social forces, or in which genres and registers did this change occur first. Like with respect to foreign words, newspapers as a fairly new medium could have played an important role in this change. To help tracking possible semantic innovation in newspapers, we plan to systematically analyze and compare the local contexts of words in various registers and over time.

Finally, we also plan to compare the historical newspaper corpus with contemporary newspapers to get a better understanding of the evolution of news as a genre, looking at effects of conventionalization and diversification w.r.t. other genres.

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9 Amt, Funktion, Auftrag eines Bevollmächtigten, Vermittlers, Vertreters

10 Geschäftsstelle, Büro eines Agenten
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