Negative polarity in morphology
The case of Frisian folle ‘much, many’ as compared to Dutch veel

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1. Introduction

The subject of this article is the distribution of the Frisian quantifier folle ‘much, many’ in syntax and morphology, as compared to Dutch. The quantifier folle is absent in compounds in Frisian (Section 2). In contrast, the Dutch equivalent veel is found in a large number of compounds (see appendix). It is shown that Frisian folle is a negative polarity item (Section 3), unlike its Dutch equivalent veel; on weinig ‘little, few’, the antonym of veel/folle ‘many, much’ in Frisian and Dutch, see J. Hoekstra (2000). It is proposed that these two facts are related (Section 4), that is, the negative polarity character of folle prevents it from occurring in the Frisian equivalents of the Dutch compounds given in the appendix; see E. Hoekstra (2010) for the historical development of folle in Frisian between 1550 and the present, in relation to its antonym weinich.

2. Compounds with folle- and veel-

It is noted in Tamminga (1973:14–15) that folle can hardly ever be used as a left-hand member in compounds. He claims that there are no more than three examples, which are given below:

(1) Folle as a left hand member of compounds.¹
    folle-hanne   much-hand   ‘of many kinds’
    folle-lei     much-kind    ‘of many kinds’
    folle-tiids   many-times  ‘many times, often’
Tamminga adds that in Dutch there are much more compounds with *veel* as a left-hand member than there are in Frisian with *folle*. He also adds that examples as in (2–3) are occasionally written (first column is Frisian, last column Dutch):

(2) folle-foarmich many-formy ‘of many forms’ veelvormig
(3) folle-sizzend much-saying ‘telling, significant’ veelzeggend

But such examples are not in common usage and certainly not spoken, according to Tamminga.

Indeed, examples such as (2–3) offend native speaker intuitions, and they have a strong feel of being an ad-hoc loan translation. These intuitions are confirmed by the Dutch Frisian dictionary. It lists 43 Dutch compounds with *veel-* as a left-hand member, which lack a Frisian equivalent with *folle-* as a left-hand member.\(^2\)

The list is presented in Appendix 1 below. The dictionary gives only three Dutch compounds which can be translated having *folle-* as a left-hand member. These are exactly the three which Tamminga presented and they were probably included in the dictionary on the authority of Tamminga’s article. However, even Tamminga’s examples do not stand up to further scrutiny. The frequency of these three items has been investigated with the help of the Frisian Language Corpus (FLC, 25 million words). It turns out that these items are nowadays obsolete in written language, as shown in Table 1.

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</table>

The table shows that these items didn’t occur before 1800 either. This suggests that they are loan translations imported from Dutch in the 19th century. The Frisian Language Corpus also contains a few isolated instances of other compounds with *folle-* which are not listed in the dictionary. These form a group of 19 tokens, 8 types, 8 authors. These types are:

(4) Frisian English Dutch
    folleëaskjend much demanding veeleisend
    follefâld multiple veelvoud
    follefâldichheid (nominal derivation) veelvoudigheid
    follesidich many-sided veelzijdig
Thus there is a sprinkling of compounds with *folle*- in Frisian, but these can plausibly be explained as loan translations under the influence of Dutch. A distinction must be made between an accepted loan from Dutch and ‘bad’ Frisian, that is, Frisian that is subject to interference from Dutch. Such a distinction can be made on the basis of frequency and on the basis of native speakers’ intuitions.

The sheer frequency of *follentiids*, with several authors, establishes it as an accepted loan from Dutch in the 19th century and early 20th century. All other examples can be treated as interferences, as is confirmed by native speakers’ intuitions. To conclude, compounds with *folle* as a left hand member don’t exist in Frisian, as compared to Dutch, and if they seem to occur, then they are recognised by native speakers as interferences from Dutch and their frequency is low.

3. Negative polarity

Negative polarity items are words or phrases which only occur in syntactic contexts which are in some sense negative (Fauconnier 1975, Ladusaw 1979, Zwarts 1981). An example is the Frisian verb *hoege* ‘need’:

(5) a. * Jan hoecht op tiid te komen
   Jan needs on time to come
   ‘Jan needs to arrive on time.’

b. Jan hoecht net op tiid te komen
   Jan needs not on time to come
   ‘Jan doesn’t need to arrive on time.’

Negative polarity items also occur in contexts which are negative in a more abstract sense, such as sentences in the scope of comparative and superlative contexts (Hoeksema 1983, 1986), and sentences in the scope of negative predicates like *deny* (Hoeksema & Klein 1995). The formal definition of ‘negative’ is a subject of ongoing debate among semanticists (cf. Van der Wouden 1994, Zwarts 1995, De Swart 1998, Giannakidou 2001, 2002).

Frisian *folle* differs from Dutch *veel*, in that it behaves as a negative polarity item (Tamminga 1973: 14–15), as is illustrated below.³
(6) a. *Jan yt folle
   Jan eats much
   ‘Jan eats a lot.’

   b. Jan yt net folle
   Jan eats not much
   ‘Jan doesn’t eat much.’

(7) a. Jan eet veel
   Jan eats much
   ‘Jan eats a lot.’

   b. Jan eet niet veel
   Jan eats not much
   ‘Jan doesn’t eat much.’

The equivalent of (7a) is expressed in Frisian by a nominal construction consisting of the indefinite determiner followed by a lexical noun denoting a vague quantity:4

(8) Jan yt in soad / protte / bult / heap
   Jan eats a lot
   ‘Jan eats a lot.’

The lexical noun has lost its original meaning. Thus soad originally meant ‘amount that can be cooked’, but in this quantificational construction, its literal meaning has disappeared, as is usual when lexical items are used in quantificational constructions (Postma 1995). To conclude this section, Frisian folle, but not Dutch veel, is a negative polarity item.

4. No licensing of negative polarity items within a word from outside

Having established that folle is a negative polarity item, it can be hypothesized that the negatively polar character of folle is responsible for its absence in compounds. This idea will be fleshed out below.

Consider the following sentences:

(9) a. * Jan glimke follebetsjuttend
    Jan smiled much-meaning
    ‘Jan smiled significantly.’

    b. * Jan glimke net follebetsjuttend
    Jan smiled not much-meaning

The (a) sentence is ungrammatical by hypothesis because folle- is not in the scope of a negative constituent. The question arises: why isn’t the (b) sentence grammatical, seeing that there is a negative trigger in the form of negation?
Notice though that in the (b) sentence the trigger is a syntactic constituent, sentential negation, whereas the negative polarity item is not a syntactic constituent: it is a part of a word, or put differently, it is a morphological constituent. Can syntactic processes like negative polarity involve such a dependency between a syntactic constituent and a morphological constituent? Di Sciullo & Williams (1987: 50ff) argue that many processes known from syntax cannot target parts of words, such as WH-movement and binding. Following Di Sciullo & Williams, it can be argued that negative polarity is not allowed to relate a syntactic object to a morphological object.

There is independent evidence for the idea that negative polarity is a relation that cannot exist between a morphological object and a syntactic one. Consider the following examples from Van der Wouden (1994: 128–129, 180–181):

(10) a. *Zij kan hem uitstaan
   she can him out.stand
b. Zij kan hem niet uitstaan
   she can him not out.stand
   ‘She can’t stand him.’

These examples show that the idiom *kunnen uitstaan* contains a negative polarity item, seeing that it must be licensed by negation. Now, we know that *kunnen* is not a negative polarity item:

(11) a. Zij kan lachen
    she can laugh
    ‘She can laugh.’
b. Zij kan niet lachen
    she can not stand
    ‘She can’t laugh.’

Hence, the negative polarity item in (10) is the syntactic object *uitstaan*, which forms an idiomatic combination with semantic potentiality as expressed by the verb *kunnen*.

Interestingly, *uitstaan* may also occur as a morphological object (Van der Wouden 1995: 65). In that case, it forms a morphologically idiomatic combination with the suffix -baar, which just like *kunnen* denotes potentiality. As a negative polarity item, the morphological object *uitstaan-* must be licensed by negation. What is relevant is that *uitstaan-* as a morphological object must be licensed by morphological negation, as in (12) below, and it can no longer be licensed by syntactic negation, as in (13):

(12) a. *Hij is uitstaanbaar
     he is out.stand.baar
b. Hij is on-uitstaanbaar
   he is un-out.stand.BAAR
   ‘He is insufferable.’

c. *Hij is niet uitstaanbaar
   he is not out.stand.

The examples in (10) showed that uitstaan is a negative polarity item in syntax. The contrast in (12) shows that when the negative polarity item, being a part of a word, is ‘in morphology’, it must also find its licenser in morphology.7

To sum, when a part of a word is negatively polar, it must find its trigger within that word. The list of compounds with veel- given in the appendix are all possible because Dutch veel- is not a negative polarity item. Frisian compounds with folle- are all lacking because folle- is a negative polarity element which cannot find a trigger within the word.

The proposed account also explains that Frisian formations with folle- as a left-hand member of a compound cannot be saved by syntactic negation. Thus the ungrammaticality of (9b) is on a par with the ungrammaticality of the (b) examples below:

(13) a. *Hy is folleëaskjend *
    he is much.demanding
b. *Hy is net folleëaskend
    he is not much.demanding

(14) a. *It is follefoarmich ûnderwiis
    it is of.many.forms education
    ‘It is varied education.’
b. *It is gjin follefoarmich ûnderwiis
    it is no of.many.forms education
    ‘It isn’t varied education.’

The (b) examples are ungrammatical because syntactic negation cannot license a negative polarity item that is in morphology.

5. Potential counterexamples

5.1. On the non-occurrence of onveel- and ūnfolle-

The proposed account would predict that morphological negation should be able to save the structures in (13a-14a), but that prediction is not borne out:

(15) *ûn-folle-easkjend
    UN-much-demanding
*ûn-folle-foarmich
    UN-much-formy
However, (15) is not ungrammatical because some violation of negative polarity is involved. It is ungrammatical for an independent reason having nothing to do with negative polarity. This can be argued on the basis of facts from Dutch. If negative polarity would cause the ungrammaticality of (15), then the Dutch equivalents would have to be grammatical, seeing that Dutch *veel- is not negatively polar. But Dutch has the same facts as Frisian as far as the prefixation of morphological negation is concerned, as shown in (16a), even though in Dutch the examples without *un- are grammatical, as shown in (16b):

\[
\begin{align*}
(16) & \quad \text{a. } \star \text{on-veeleisend} & \star \text{on-veelvormig} \\
& \quad \text{un-much.demanding} & \text{un-much.formy} \\
& \quad \text{b. } \text{veeleisend} & \text{veelvormig} \\
& \quad \text{much.demanding} & \text{much.formy}
\end{align*}
\]

The ungrammaticality of (15) and (16a) must therefore receive an independent explanation. However, a reviewer suggests that the examples in (16a) are ungrammatical as the result of blocking: the presence in Dutch (syntax) of *niet veeleisend 'not demanding' blocks the presence of *onveeleisend 'undemanding'. Under that hypothesis, the ungrammaticality of (15) is what needs to be explained. However, Embick & Marantz (2008) have presented strong arguments indicating that there is no blocking at the word level nor above it. Apart from the problems inherent to a blocking approach, the lack of compounds beginning with onveel- (Dutch) and *unfolle- (Frisian) seems to have an independent morpho-semantic explanation, seeing that the negation of a high degree quantification is rarely expressed morphologically.8 Nevertheless, there are some rare cases of compounds beginning with onveel- in Dutch, and these characteristically involve litotes, two negations cancelling each other, as in the following examples:

\[
\begin{align*}
(17) & \quad \text{a. } \text{niet onveelvuldig} & \star \text{vuldig} \\
& \quad \text{not un.much.times} & \star \text{infrequent(ly)} \\
& \quad \text{b. } \text{zij is niet onveelzijdig} & \star \text{vuldig} \\
& \quad \text{she is not un.many.side} & \star \text{all-round}
\end{align*}
\]

The first example involves a compound of which the second member has no lexical meaning, as there is no existing word *vuld or *vuldig. The second example seems to confirm the suggestion of note 8 saying that onveel- is rare because a negation of a high degree word is not very informative. The effect of double negation is that the utterance is informative again. The use of litotes indicates that the speaker is reluctant (for whichever pragmatic reason) to plainly make an affirmative statement
(see Van der Wouden 1995:68, who refers to Horn 1991). Note incidentally that litotes is unable to save Frisian compounds with \textit{ûnfolle}-. To sum, it is not clear why both Dutch and Frisian resist morphological negation of compounds with \textit{veel}- and \textit{folle}-, although it must be conceded that such formations sometimes occur in lithotes in Dutch, but not in Frisian.

5.2 Why can compounds with \textit{any}- be licensed from outside the compound?

Examples like \textit{anybody}, \textit{anything}, and so on seem counterexamples, since the negative polarity item \textit{any} can be viewed as being licensed from outside the compound, as a reviewer notes. However, such examples differ crucially from the examples with \textit{folle}- in that the second member of the compound has lost its lexical meaning; on such phenomena involving the voiding of lexical content as a result of quantificational semantics, see Postma (1995). Thus anybody is not a compound with a denotation that involves bodies. The item \textit{-body} contributes no more than the feature \texttt{<+human>}, which restricts the domain of interpretation for the quantifier. All this suggests that it is the lexical meaning of the head of a compound which renders the left-hand member of a compound inaccessible to a licenser outside the compound. Voiding of the lexical content of \textit{-body}, as in \textit{anybody}, makes it possible for \textit{any}- to be licensed by a licenser outside the compound.

5.3 The Middle Dutch prefix \textit{ghe-}

Ackema & Neeleman (2004:118) claim that there can be negative polarity items in morphology licensed by elements in the syntactic representation. They present examples from Postma (1999) involving the Middle Dutch element \textit{ghe}, which according to Ackema & Neelema is a prefix.

\begin{enumerate}
\item \textbf{a.} Nu en can ic langher niet ghe-swigen  
\qquad \texttt{now neg can I longer not ghe-be.silent}  
\qquad ‘I can no longer be silent now.’
\item \textbf{b.} Dies zwigh-ic-s nochtans  
\qquad \texttt{therefore am.silent-I-it nevertheless}  
\qquad ‘Therefore I will nevertheless be silent about this.’
\end{enumerate}

\textit{Ghe} is found in the negative context in (a) while being absent in the non-negative context in (b). It is indeed true that Postma shows that \textit{ghe-} behaves like a negative polarity item. However, Postma (1999:320ff) also shows that \textit{ghe-} must not be analysed as a prefix but as a clitic. Just like a Romance clitic, the element \textit{ghe-} can climb from the main verb onto auxiliary verbs. An example is given below:
The prefix climbs from the main verb onto the modal verb. As clitics are syntactic objects, it need not come as a surprise that they can participate in the relation of negative polarity, as they can in binding and movement relations. Thus there is no need to claim as Ackema & Neeleman (2004: 118) do, that there can be negative polarity items in morphology licensed by triggers in the syntactic representation.9

5.4. Folle as a right-hand member of compounds

Finally, it must be noted that folle also occurs in the idiomatic combinations shown below:

(20) hoe-folle sa-folle te-folle
    how-much so-much too-much

These combinations are found in writing both written as one word and written as two words, although the prescriptive standard requires that they be written as one word. It is hard to decide whether these combinations must be analysed as a morphological derivation or as a syntactic combination of two elements which are invariably adjacent. In either case, hoe, sa and te can be viewed as the triggers licensing the negative polarity item folle.

6. Concluding remarks

Evidence has been presented showing that negative polarity items can be licensed either in syntax or in morphology, but that the trigger and the negative polarity item must both occur in the same component. If the negative polarity item is part of a word, so must the trigger be. In contradistinction to its Dutch equivalent veel, Frisian folle was shown to be a negative polarity item, regardless of whether it occurred in syntax or in morphology. As a member of compounds, folle cannot find a trigger, and correspondingly it is excluded there (see appendix). Dutch veel-, on the other hand, is not negatively polar, and correspondingly, it is freely used in compounds. The lack of compounds with onveel- and infolle-, in itself remarkable, was argued to be independent of the negatively polar character of folle.
Notes

* I would like to thank Siebren Dyk, Bouke Slofstra, Arjen Versloot, Willem Visser and two anonymous reviewers for comments and/or discussion.

1. *-lei is not an independently occurring word, but it can be glossed as ‘kind, sort’.

2. Neither De Haas & Trommelen (1993) nor Booij (2002) discusses compounds with veel-, presumably because the behaviour of these compounds in Dutch is unremarkable.

3. Tiersma (1999: 82) writes that “folle never stands alone before a noun — it must always be part of a larger expression as in te folle ‘too much’ or net folle ‘not much’.”

4. In this respect, the English word *much* (Thomson & Martinet 1977: 20) behaves like Frisian *folle*: “Much is not very often used with affirmative verbs, as almost always in the accusative and usually in the nominative, it is replaced by a lot (of) / a great deal (of).” Pullum & Huddleston (2002: 826) note that *We have much sugar* is extremely unlikely to occur in casual conversation, while some such similar examples are found in literary usage and in certain idiomatic constructions.

5. A reviewer notes that for some speakers *uitstaan* is not just a (strong) negative polarity item, triggered by negation (in tandem with the modal verb *kunnen*). Instead a weaker requirement is involved. Thus, on the internet examples like (i) below are found in informal writing, where *uitstaan* is licensed by the modal verb *kunnen* in tandem with adverbial modification of some sort:

   (i) De temperatuur kan ik hier wel goed uitstaan
   the temperature can I here rather good out.stand
   ‘The temperature, I can stand rather well here.’

6. In the syntax, potentiality is obligatorily expressed in this idiom as the verb *kunnen* ‘can’. In the morphology, it is expressed as the suffix *-baar*, which generally carries the same meaning. De Haas & Trommelen (1993: 291) paraphrase the meaning of *-baar* as ‘something that can be V-ed’ (‘kunnende ge-V-d worden’ in Dutch), see also Hüning & Van Santen (1994).

7. The data in (12) can also be taken as evidence, as a reviewer notes, that the positive variant of the *on*-word has disappeared from the language, as is the case with *nozel versus onnozel* ‘silly’. However, -*nozel* can also be viewed as a negative polarity item that only exists in morphology, whereas *uitstaan* is a negative polarity item existing both in morphology and in syntax. Put differently, *nozel* has not disappeared from the language, it has lost the ability to function as an independent word.

8. Note that a word like *onveel* is lacking in Dutch, as it is in Frisian (*ünfolle*), in English (*unmuch*, *unmany*), in German (*unviel) and in other languages. In fact, the same point can be made regarding morphological negation and the quantifier *all* (*unall*, *null*). If a speculation is allowed, I would venture to relate the absence of Dutch and Frisian compounds combining morphological negation with veel- to the fact that quantifiers of high degree or amount generally do not combine with morphological negation, perhaps because it is not very informative to negate an expression of high degree.

9. Ackema & Neeleman mention Postma’s clitic analysis in a footnote, claiming that in those cases *ghe-* is a prefix base-generated on the modal verb.
References


Appendix

Dutch compounds with *veel*- without a Frisian translation equivalent in the form of a compound with *folle-*; from the Dutch-Frisian dictionary (Visser 1985)

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<thead>
<tr>
<th>Dutch</th>
<th>Gloss</th>
<th>Translation</th>
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<tr>
<td>veelal</td>
<td>much.all</td>
<td>mostly</td>
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<tr>
<td>veelbelovend</td>
<td>much.promising</td>
<td>auspicious</td>
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<td>veelbesproken</td>
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<td>much.meaning</td>
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<td>many.leafed</td>
<td>with many leaves</td>
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<td>many-flowered</td>
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Dutch | Gloss | Translation
--- | --- | ---
veelkleurig | many.colour | varicoloured
veelkoppig | many.head | many-headed
veelledig | many.member | of many parts
veellettergrepig | many.syllable | polysyllabic
veelomvattend | much.encompassing | comprehensive
veelprater | much.talker | loquacious person
veelschrijver | much.writer | hack
veelschrijverij | much.writing | hack writing
veelnarig | many.string | multistringed
veelstemmig | many.voice | polyphonic
veeltalig | many.language | multilingual
veeltelig | many.sex | polygamous (botanical)
veeltterm | many.term | polynomial
veeltijds | many.time | frequently
veelvlak | many.side | polyhedron
veelvormig | many.form | multiform, polyformic
veelvoud | many.multiplication | multiple
veelvraat | much.eat | glutton
veelvuldig | many.times | frequent
veelvlettergrepig | many.string | multistringed
veelwijverij | many.wife.having | polygamy
veelzeggend | much.saying | significant
veelzijdig | many.side | all-round
veelzins | many.meaning | mostly
veelhande | many.hand | all sorts of
veelerlei | many.kind | multifarious

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