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Digital thesauri as semantic treasure troves: a Linguistic Linked Data approach to "A Thesaurus of Old English"

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Chapter 9

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A Case of Kinship

Onomasiological Explorations of KINSHIP in Old Frisian and Old English

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Abstract

This article describes onomasiological explorations of Old Frisian and Old English lexis in the semantic field of KINSHIP through a novel, digital approach. In connecting Old Frisian lexis, drawn from the *Altfriesisches Handwörterbuch* (AFWB), to the overarching structure of *A Thesaurus of Old English* (TOE), a dataset has been created that shares a semantic framework with the one existing for Old English lexis. The connected resources are shared and analysed using the web application Evoke. Statistical data provided by this tool, such as the degree of lexicalization for this field, facilitates comparative analyses of the two historical languages. As this article demonstrates, the reuse of the onomasiological macrostructure of TOE offers new insights into linguistic and cultural aspects of these two languages and their language communities.

Keywords

onomasiology – KINSHIP – Old Frisian – Old English – Evoke – digital humanities – linguistic linked data – thesaurus

1 Introduction

Since its publication in 1995, *A Thesaurus of Old English* (*TOE*) has been an asset to research into Old English language and culture. This lexicographic resource captures the early medieval English lexis (c.500–1100), which it does not order alphabetically, like most lexicographic works for Old English do, but onomasiologically: words are organized by means of an overarching topical structure, allowing users to go from meaning to words that express that meaning. In thus positioning words that are similar in meaning close to one another, including the grouping of synonyms, *TOE* has facilitated numerous word studies and semantic field studies¹ and its contribution to Old English studies has been met with high praise from scholars (Dance, 1997: 312; Görlach, 1998: 398–399). Hence, the value of an onomasiological ordering of lexis has been demonstrated for Old English. As can be imagined, that value is not limited to this specific language.

Comprehensive thesauri such as *TOE*, in spite of their value for research, are scarce. The lack of such resources for entire languages is unsurprising: creating a thesaurus takes a considerable amount of time and effort. To illustrate, the creation of *TOE* (discussed in the contribution by Jane Roberts in this special issue) has taken a team of researchers, themselves drawing from available dictionaries of Old English, over fifteen years (Roberts, 1978). Amongst the languages which have hitherto not yet been captured in a thesaurus is Old Frisian. Yet, in this particular case, the characteristics of this language, combined with resources currently available, may pave the way towards an onomasiological ordering of its lexis in a shorter time than was needed for the creation of a thesaurus of Old English.

Parallels between Old English and Old Frisian have often been drawn and tend to be mentioned explicitly in books that serve as introductions to these languages (see Bremmer, 2009: 125–128; Baker, 2012: 7–8). Indeed, similarities between these ‘sibling languages’ exist on multiple levels – including their lexis. These parallels suggest that an onomasiological macrostructure designed for Old English may form a good starting point for Old Frisian. Linking Old Frisian lexis to *TOE*, positioning words and word senses in appropriate locations of its macrostructure, may yield an onomasiological perspective on Old Frisian that is currently absent. Moreover, the placement of Old Frisian senses in

1 E.g. Hough (2007); Díaz-Vera (2011); Rauer (2017); Tissari (2017); Ojanguren López (2021); Scott (2021).

this thesaurus is likely to also enable a comparison between these two closely related languages on onomasiological and lexico-semantic levels.

In this article, we describe preliminary work in connecting the Old Frisian lexis to *TOE* and the use of the results to compare Old Frisian with Old English. For this purpose, we have used the Old Frisian lexis from one particular semantic field, namely that of KINSHIP, mainly represented in *TOE* by the category “02.03.02 Family/household”.² The connected resources are shared and analysed using the web application Evoke (Stolk, 2018). This application allows researchers to browse and analyse *TOE* alongside additional content. In addition to discussing our findings in linking up Old Frisian information to the thesaurus, we will present comparative analyses of Old Frisian and Old English provided by the statistical data that Evoke offers, such as the degree of lexicalization of this specific field. Thus, we hope to answer, and nuance, the following questions regarding the semantic fields of KINSHIP in Old Frisian and Old English:

1. Can the Old Frisian lexis be allocated to the onomasiological macrostructure of *TOE*?
2. Can Evoke, in combination with *TOE* and the linked Old Frisian lexis, offer new insights into linguistic and cultural aspects of Old Frisian and, in contrast with Old Frisian, Old English?

2 Related Work

The number of studies pertaining to Old Frisian linguistics is significantly smaller than those on Old/Middle English or Old/Middle High German (Bremmer, 2007: 55). Most Old Frisian linguistic research investigates a relatively limited aspect of the language or the texts: extensive, comprehensive research is scarce (Bremmer, 1992; 2021). Lexico-semantic Old Frisian studies are almost without exception short treatises on the characteristics of specific lexemes; only a few publications take an onomasiological perspective or comprise an entire semantic field.³ Although these studies in Old Frisian provide

2 “Family/household” in *TOE*. Identifier: 1108. Location: 02.03.02. IRI: <http://oldenglishthesaurus.arts.gla.ac.uk/category/#id=1108>.

3 Noteworthy studies are Munske’s seminal work on the Germanic vocabulary in the field of crime, in which he notes the parallels between the terminology in Old East Frisian and Old English (1973), Bremmer’s work on verbal injury in late medieval Frisia (1998), Popkema’s on the conceptualization of oaths (2007), and Hofmann’s monograph on medieval everyday life as conceptualized in Old Frisian (2015).

valuable insights into lexical expressions and their meanings, the lexico-semantic research in Old Frisian has hitherto mostly taken a traditional philological approach: they lack empirical or quantitative components.⁴

Research pertaining Old Frisian language is not only sporadic but also often undervalued – especially in the field of historical linguistics Old Frisian is considered to be neglected (Bremmer, 2009: 18; Stroh, 1985: 371; Munske, 2001: xiii; Salmons, 2007: 367). Digital environments for studying Old Frisian are scarce, hampering innovative research (such as comparative studies) of Old Frisian.⁵ Recently, however, a digital, lemmatized, and representative corpus of Old Frisian has been published online, a welcome lexicographic resource that can be used by both researchers and students (Van de Poel, 2019). This *Corpus Oudfries* contains a large sample of the Old Frisian language and can be searched on three linguistic levels (tokens, lemmata, and parts of speech) and on extra-linguistics levels (i.e. dialect and date). At this point in time, the corpus contains 235,462 tokens and 177 text witnesses from 11 manuscripts. Digital resources, such as this corpus and Evoke, provide new means for research into Old Frisian language and culture.

A semantic study of the domain of KINSHIP in Old Frisian has, to our knowledge, not been carried out before, although a limited number of studies are available that investigate individual lexemes⁶ and/or certain medieval Frisian legal aspects (Meijers, 1925; Kok, 1947; Boersma, 1961; Sterringa, 1998). For Old English, a comprehensive lexical investigation of kinship terminology has not been conducted either. Various studies have, however, been realized by anthropologists, traditionally the scholars that contributed the most to work on kinship systems and terminology. Lorraine Lancaster (1958), Henry Loyn (1974), and Georg Pfeffer (1987) are among the most influential scholars to have explored Anglo-Saxon kinship terms. Furthermore, certain lexical elements or subdomains within KINSHIP have been investigated for Old English (Spolsky, 1977; Bremmer, 1980; Lowe, 1993; Bajema, 1994; Fischer, 2006; Durkin, 2019).

Relevant semantic word field studies on KINSHIP that should be mentioned are descriptive and comparative studies by Ariane Diepeveen (2003)

4 An exception is Versloot's dissertation, which incorporates quantitative analyses to chart language change in 15th century West Frisian (2008).

5 "The creation of a lemmatized (...) Old Frisian corpus would be invaluable for this investigation, as for so many others" (Colleran, 2017: 102). "Many instruments historical linguists have been accustomed to whilst studying older language stages are lacking or poorly available for Old Frisian" (Boutkan and Siebinga, 2005: vii).

6 E.g., Meijering (1985) discusses the etymology of *kind*, Bammesberger (1968) looks into the etymology of *swager*, and Pospelova (2018) examines Indo-European rules for compounding in Old Frisian kinship terms.

and Susanne Zeilfelder (2015). Diepeveen provides a diachronic outline how the kinship terms of the (North and West) Germanic languages have evolved over the centuries. She includes almost all Germanic languages in her work, including Old English, but regrettably Old Frisian is absent. Zeilfelder's onomasiological work mainly focuses on the semantic development and etymology of German. She provides comparisons with and context from other Indo-European languages and to this end also describes Old English and Old Frisian lexemes. However, she does not do this consistently for each sense and/or cognate word. The current study intends to work towards filling this lacuna and to explore how an onomasiological approach, and tools such as Evoke, can facilitate studies of Old Frisian terminology for KINSHIP.

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3 Background: Old Frisian

Old Frisian is the term used to indicate the earliest version of the Frisian language, written between c.1100–1550. Only a fairly limited number of Old Frisian manuscripts (18) have come down to us, of which the texts are almost entirely juridical in nature.⁷ Besides the major juridical text collections, the largest body of Old Frisian texts consists of administrative documents (charters, wills, deeds), which represents about 50% of the entire collection of written Old Frisian words.⁸

The denominator “Old” for Old Frisian suggests that it was more archaic than its contemporary neighbouring languages (such as Middle English and Middle High German) and that it was linguistically compatible with, for example, Old English, Old High German, or Old Saxon. Scholars of Old Frisian have investigated the periodization of Old Frisian, which is complicated by the fact that dialectological differences in the language of the textual witnesses concur with the chronological differences: “some linguistic differences have to be interpreted in a chronological sense and some in a dialectological sense” (Versloot, 2004: 256). Rolf Bremmer summarizes the various chronological and dialectological research on Old Frisian and indicates that “the way in which languages are divided into periods depends on the criteria which one chooses in order to establish such periods” (2009: 125).

7 Bremmer (1992: 6–15) provides an overview of the most important Old Frisian texts and manuscripts.

8 According to Vries (2001: 594) 40%, but closer to 50% based on token number estimates (own research, unpublished).

It has generally been accepted that medieval Frisian texts can be divided into an older and a younger variety (classical/old vs. post classical/late)⁹ and that these periods more or less overlap with the division into regions or dialects. Arjen Versloot indicates that the dialect variety East Old Frisian dates mainly to the period 1300–1450 and was written in the present Dutch province of Groningen and in the German region of East Friesland (2004: 285). The second group originates from the province of Fryslân and was written in the period 1450–1525. He concludes: “Whatever periodisation scheme one prefers, the central conclusion is that the oldest Frisian attestations in the manuscripts represent a language that is fairly compatible with other Old Germanic languages” (2004: 285).

4 Methodology

In this section we discuss our methodology for linking the Old Frisian lexis to *TOE* as available in *Evoke*. In another article in this special issue, Katrien Depuydt and Jesse de Does describe their approach to a similar goal. They have experimented with a (semi-)automated method that matches Old Dutch words from the semantic field of *KINSHIP* with *TOE*. Our method, in contrast, involves manually matching dictionary senses to thesaurus categories and can be divided into the following steps:

1. Identifying Old Frisian lemmata on *KINSHIP* in the used source dictionary for Old Frisian.
2. Sense alignment: analysing the different senses of each lemma and matching these senses with a category in *TOE* or introducing a new category, resulting in a semantic classification.
3. Processing the alignment into Linguistic Linked Data and importing the work into *Evoke*.

4.1 *Identifying Old Frisian Lemmata on KINSHIP*

Creating a list of lemmata belonging to the semantic field of *KINSHIP* was accomplished by manually searching the *Altfrisisches Handwörterbuch* (*AFWB*) and marking the words that belong to the semantic field of *KINSHIP*. The concise dictionary *AFWB* covers the Old Frisian language from 1200–1550 and was compiled between 1959 and 2008 by Dietrich Hofmann and Anne Popkema. The Old Frisian words are provided with translations into Modern German. The compilers of *AFWB* did not intend the dictionary to be comprehensive,

9 The terms “classical” and “post-classical” were coined by Sjölin (1966), who also raised the issue of the overlap between dialects and chronology.

but included as many lemmata and sense distinctions as needed for its use as a reading companion to Old Frisian texts (*AFWB*: xxiii–xxiv). The dictionary contains 11,254 headwords, of which 247 (2%) were selected as they belonged to the semantic field of KINSHIP and were therefore eligible for linking to the *TOE*.

A dictionary entry in the *AFWB* has the following format: the lemmata are printed in bold, a reference to dialect is printed in superscript (WL or OL), followed by the part of speech category, senses, sources (there is no indication which sense was found in which text source), composites and cross-references.

frouwe, frowe, frou^{WL} f. 1) Frau; 2) Ehefrau; 3) Edelfrau, Fürstin; 4) Herrin; 5) die Jungfrau Maria; 6) Schwiegermutter –
Bas, BBr-D, BDg-U, BEm-E1E2, BFi-F, Bgr-J, BHm-J, BHua-H, BHub-H, (...).
Komp.: ethelinges-, gā-, hāved-, hēskipes-, hūs-, jest-, jung-, klāster-,
londes-, lond-, munekfrouwe

The head word is followed by subsidiary lemmata that pertain to phonological and/or orthographical (and often dialectal) variations of the head word. The lemmata within an entry are arranged in chronological order, which means that the earliest attestation is always the head word. In our methodology, the first lemma was selected for inclusion in the alignment. Thus, the earliest Old Frisian word forms have been imported into Evoke. The compilers of the *AFWB* have harmonized the spellings of many word forms to ensure that lexemes belonging together can easily be retrieved.

An *AFWB* lemma can have multiple senses, which are distinguished by numbers. Frequently, however, the senses of a lemma also contain commas that seem to indicate slightly overlapping meanings. Examples are: *efterswesterling* – “Andergeschwisterkind, Verwandter im dritten Grade” [second cousin, third-degree relative] and *niftakind* – “Grosskind, kind des Nichten” [grandchild, niece’s child]. For the scope of the present study, we decided to consider these descriptive meanings as elaborations rather than distinct senses.

4.2 Sense Alignment

Three spreadsheets were developed in order to facilitate data entry and subsequent data conversion into Linguistic Linked Data, the interoperable data format used by Evoke. These spreadsheets represent the three main elements that are to be captured: lexical entries, senses, and concepts. Figure 1 shows the sheet for lexical senses. This sheet, which is pivotal in the alignment of the Old Frisian words and their senses with *TOE*, provides local identifiers for the current word (B) and for this word in a specific sense (A), the head word (D), the language code according to ISO 639 (E; here “ofs” for Old Frisian), and the

	A	B	C	D	E	F
1	id	entry-id	[link]	word	language	concept-id
2	aftberen-s1	aftberen	link	aftberen	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1120
3	aldaêm-s1	aldaêm	link	aldaêm	ofs	14
4	aldafeder-s1	aldafeder	link	aldafeder	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1183
5	aldemôder-s1	aldemôder	link	aldemôder	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1184
6	alderlâs-s1	alderlâs	link	alderlâs	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1124
7	alder-s3	alder	link	alder	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1183
8	alder-s4	alder	link	alder	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1185
9	alder-s5	alder	link	alder	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1109
10	âthum-s1	âthum	link	âthum	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1262
11	âthum-s2	âthum	link	âthum	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1262
12	basterdbrôther-s1	basterdbrôther	link	basterdbrôther	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1143
13	basterd-s1	basterd	link	basterd	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1141
14	basterdswester-s1	basterdswester	link	basterdswester	ofs	3
15	bênene burch-s1	bênene burch	link	bênene burch	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1787
16	bêneteburch-s1	bêneteburch	link	bêneteburch	ofs	http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1787

FIGURE 1 Spreadsheet used in recording Old Frisian senses and the concepts to which they relate

identifier for the semantic category (F) in which the sense is to be positioned. The identifier of a category can be either an existing one from *TOE* (a web address also referred to as an IRI) or a newly coined category identified by a number and defined on the sheet for lexical concepts – including where this newly defined category fits into the *TOE* taxonomy.

The following activities are involved in assigning the senses of the Old Frisian lexemes to appropriate categories in *TOE* (either existing ones or new ones that add a further degree of specialization):

- Record the lemma and its Modern German senses in the spreadsheets.
- Translate Modern German sense definitions into Modern English.¹⁰
- Locate suitable *TOE* categories by
 - a) browsing the taxonomy of *TOE*
 - b) searching for categories that contain keywords from the translated Modern English definitions of the lemma, and
 - c) searching for the Old English cognates, if any, and marking the *TOE* categories at which they are positioned.
- Record matching *TOE* categories in the spreadsheets. When no matching *TOE* category is available for a sense, create a new category in the spreadsheet and position that category in the *TOE* taxonomy by recording its superordinate category.
- Determine whether Old English cognates appear in more than one category, since this could imply that the Old Frisian lexeme under investigation would also have to be assigned to these other categories in order to facilitate contrasting the two languages.¹¹

¹⁰ *DWDS* has been used to examine the German translations.

¹¹ We elaborate on choices made during the classification process in Appendix A.

4.3 *Processing the Alignment for Use in Evoke*

In order to transform the three spreadsheets to Linguistic Linked Data, we have employed the conversion tool OpenRefine along with its RDF plugin. The conversion logic for these sheets has been made publicly available.¹² Each row in the sheet for lexical senses is transformed into an instance of a data element as defined in OntoLex, an interoperable model that has been designed specifically for capturing linguistic data, such as lexical entries and their senses.¹³ The resulting Linguistic Linked Dataset has been imported into the online repository of Evoke.

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5 Results

Numbers on the created dataset, which is now publicly available in Evoke, are as follows: 280 lexical senses on KINSHIP, from 247 Old Frisian lemmata, have been aligned with *TOE* categories (see Appendix B).¹⁴ The majority of these senses have been allocated to the semantic field “02.03.02 Family/household”, as the following overview shows:

02.01 Existence, life (id: 661)	21 senses
02.03 Humankind (id: 1059)	2 senses + those in subfields (below)
02.03.01 People (id: 1065)	31 senses
02.03.02 Family/household (id. 1108)	215 senses
12.09 Marriage, state of marriage (id: 18602)	11 senses

Since “02.03.02 Family/household” represents the core of Old Frisian terminology on KINSHIP, this case study concentrates its onomasiological analyses on this semantic field.

Old Frisian senses placed under “02.03.02 Family/household” have either been allocated to already existing *TOE* categories (132 senses to 70 *TOE* categories) or to categories newly introduced into the *TOE* taxonomy (83 senses to 57 new categories). Originally, the field “02.03.02 Family/household” contained a total of 175 categories with 324 recorded Old English senses. An overview

12 <https://github.com/ssstolk/oldfrisian-kinship/>.
13 OntoLex-Lemon: Lexicon Model for Ontologies, W3C. <http://www.w3.org/2016/05/ontolex/> (10 May 2016).
14 The dataset “Old Frisian: Kinship”, containing 247 Old Frisian lemmata, is now publicly available in Evoke: <http://evoke.ullet.net/content>.

TABLE 1 Item counts within the field “02.03.02 Family/household”

	Old English	Old Frisian
number of lemmata	294	200
number of senses	324	215
number of categories w/ senses allocated to them	175	127

of these numbers is provided in Table 1. A substantial number of categories from this field in the expanded taxonomy have solely Old Frisian or solely Old English senses assigned to them (162 out of a total of 232 categories, or 70%). In the field of KINSHIP, then, the recorded vocabularies of these kindred languages contain many differences in denotations and nuances of words. We will elaborate on some of the more apparent differences in our discussion of the distribution of Old Frisian lexis over the various semantic subfields of “02.03.02 Family/household”, in section 6.4.

5.1 *Locating Old Frisian Words, Their Synonyms, and Cognates*

As a consequence of the categorization of the Old Frisian lexis with the macrostructure of *TOE*, the web application Evoke can offer scholars a seamless integration of Old English and Old Frisian lexis for the field of KINSHIP. Thus, not only words for a given concept can be obtained for either language, but also synonyms and possible translations between them. Such an integrated overview of this information can be activated by selecting both relevant datasets in Evoke (i.e. *TOE* and the Old Frisian dataset newly created for this research). When subsequently opening a category such as “02.03.02.03.03 Forefather, ancestor” in the user interface of the application,¹⁵ it is revealed which words were used to express this concept in both Old Frisian and Old English. The list presented in Figure 2 shows six different Old English words for this concept (including *ærfæder* and *ieldra*) compared to three for Old Frisian (viz. *alder*, *forefeder*, *forefirdera*). These words are grouped by language and sorted alphabetically.

The integration of Old Frisian and Old English into Evoke facilitates the comparison of the relationship between the lexicons of both languages. Cognates are words within the same language or in different languages that have a

15 “Forefather, ancestor” in *TOE*. Identifier: 1178. Location: 02.03.02.03.03. IRI: <http://old.englishthesaurus.arts.gla.ac.uk/category/#id=1178>.

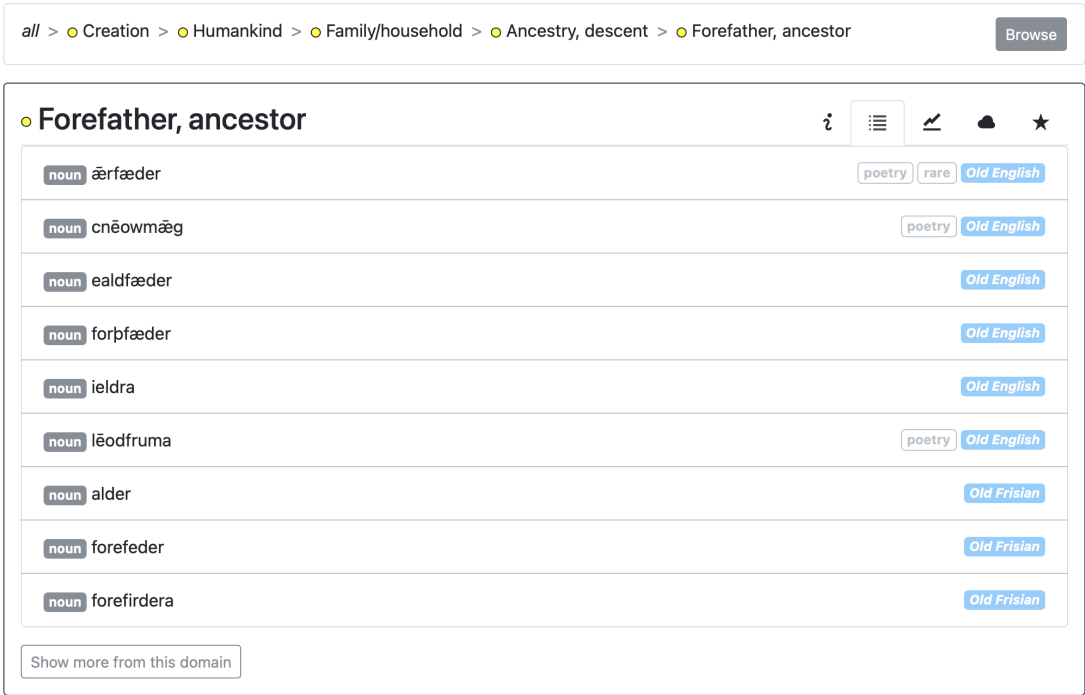


FIGURE 2 List in Evoke of Old English and Old Frisian words denoting “02.03.02.03.03 Forefather, ancestor”

common etymological origin, and therefore resemble each other to a greater or lesser extent in form (Schmitt, 1997: 209; Otwinowska-Kasztelanic, 2011: 4). Awareness of cognates enhances the ability to learn another language – in this case, learning Old Frisian will be easier for someone who is familiar with Old English, and vice versa (Schmitt, 1997: 209; Otwinowska-Kasztelanic, 2011: 4–5).¹⁶ Additionally, finding cognate words in a set of languages is the first step in the comparative method for historical linguists, allowing them to study the development of languages and the reconstruction of common ancestors (Baldi, 2011: 1–16; Trask, 2015: 198–233). Figure 3 lists the various synonyms (in Old English as well as Old Frisian) for Old English *ealda fæder*. Here, Old Frisian *aldafeder* is a cognate of the Old English word that is closest in form: *ealda fæder*. Similarities such as these, i.e. in both form and meaning, facilitate detection of cognates.

5.2 KINSHIP Terminology: Cultural Lexical Research of Cognates
Onomasiological ordering of lexis can be useful for cultural lexical research. KINSHIP terms are “ways in which people classify their kinship universe” and as such provide clues to the nature of a kinship system in a society as well as

16 Summary of other cognates research in Friel and Kennison (2001).

all > Creation > Humankind > Family/household > Ancestry, descent > (Of degrees of descent) great-, grand- > Grandfather Browse

noun **ealda fæder** i ≡ ☁

in sense evoking: Grandfather

IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/sense/#id=3350>

Type
Lexical sense

Name
ealda fæder Old English

Synonym

noun ealdefæder	Old English
noun ieldra fæder	Old English
noun aldafeder	Old Frisian
noun alder	Old Frisian
noun edela	Old Frisian

belongs to entry: **noun** **ealda fæder**

IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/entry/#id=3350>

Type
noun
Lexical entry

Name
ealda fæder Old English

Add your own #annotation... Add

Add your own #annotation... Add

FIGURE 3 Information in Evoke on Old English *ealda fæder* in the sense of “02.03.02.03.04 | 01 Grandfather”

to the social statuses and roles of kinsmen (Fox, 1984: 243). Similar cultures often have very similar reference terms for relatives. It would go beyond the scope of this article to perform an entire analysis of the semantic field in question. However, to illustrate the usefulness of Evoke in comparing Old Frisian and Old English we undertake an exploratory comparative study of cosanguineal KINSHIP terms. We have taken inspiration from well-known research by Lancaster on kinship terminology (1958). Her kinship tree graph, which contains cosanguineal nomenclature in Old English, has been expanded here with corresponding Old Frisian lexis (see Figure 4). The graph, using a genealogical structure, contains nodes and lines to indicate individuals and relations of descent, respectively.¹⁷ For every node in the graph, Evoke has been employed to locate the corresponding Old English and Old Frisian words. The results are shown in Table 2.

17 It should be noted that genealogical structure of this graph differs from the structure found in *TOE*, which is onomasiological in nature and contains more than consanguineal terms.

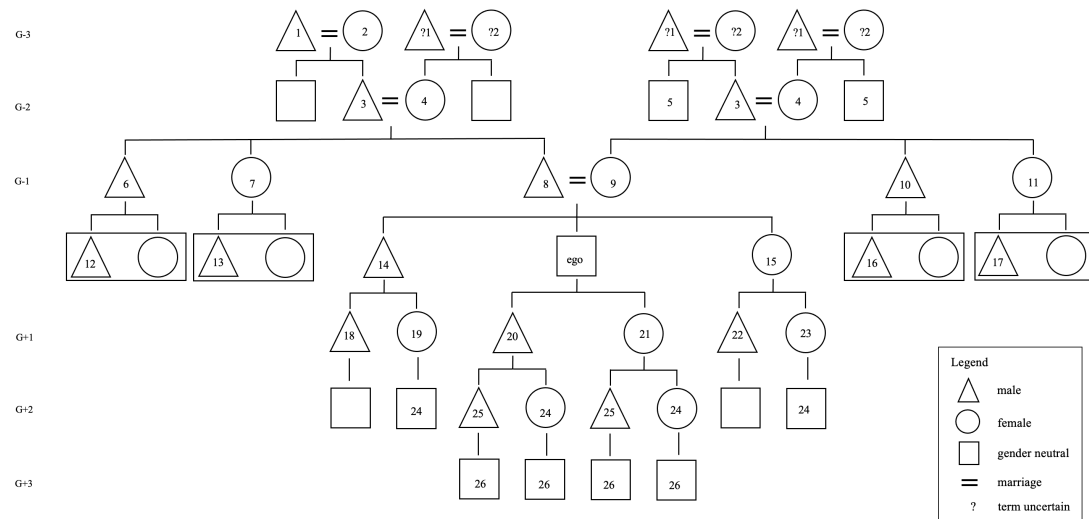


FIGURE 4 Kinship relations

TABLE 2 Cosanguineal kinship terms in Old English and Old Frisian

No.	Old English	Old Frisian	Modern English
1	<i>ieldra fæder, thridda fæder</i>	<i>edela, ūraldafeder, alder</i>	great-grandfather
2	<i>thridde mōdor</i>	<i>eldramōder, ūraldemōder</i>	great-grandmother
3	<i>ealde mōdor</i>	<i>aldemōder</i>	grandmother
4	<i>ealdafæder, ieldra fæder, ealda fæder</i>	<i>aldafeder, edela, alder</i>	grandfather
5		<i>aldaēm</i>	granduncle
6	<i>fædera</i>	<i>federia, federesbrōther</i>	uncle, father's brother
7	<i>fathu</i>	<i>fethu, federswester</i>	aunt, father's sister
8	<i>fæder</i>	<i>feder</i>	father
9	<i>mōdor, ācennicge, bearncennicge, cennestre, byrthe</i>	<i>mōder</i>	mother
10	<i>ēam</i>	<i>ēm, mōderesbrōther</i>	uncle, mother's brother
11	<i>mōdri(ge)</i>	<i>mōdire, mōie</i>	aunt, mother's sister
12	<i>mōdri(ge), (ge)swēor, geswiga</i>	<i>federiasune</i>	male cousin (father's brother's son)
13	<i>fathusunu</i> <i>mōdri(ge), (ge)swēor, geswiga</i>	<i>fethansune</i>	male cousin (father's sister's son)
14	<i>brōthor</i>	<i>brōther</i>	brother
15	<i>sweostor</i>	<i>swester</i>	sister

TABLE 2 Cosanguineal kinship terms in Old English and Old Frisian (*cont.*)

No.	Old English	Old Frisian	Modern English
16		<i>emka, emessune</i>	male cousin (mother's brother's son)
17		<i>mōdiransune</i>	male cousin (mother's sister's son)
18	<i>(ge)nefa, brōthorsunu,</i> <i>suhterga</i>	<i>neva, brōthersune,</i> <i>brōtherbern, brōtherskind,</i> <i>swesternabern</i>	nephew
19	<i>nefene, nift,</i> <i>brōthordohtor</i>	<i>nifte, nifke, brōtheresdochter,</i> <i>brōtherbern, brōtherskind,</i> <i>swesternabern</i>	niece
20	<i>sunu, bearn,</i> <i>byrdling, byre, tūdor,</i> <i>eafora, geēacnung</i>	<i>sune, bern,</i> <i>kind</i>	son, child (general term)
21	<i>dohtor, bearn,</i> <i>byrdling, byre, tūdor,</i> <i>eafora, geēacnung</i>	<i>dochter, bern,</i> <i>kind</i>	daughter, child (general term)
22	<i>(ge)nefa, sweostersunu,</i> <i>sweosterbearn</i>	<i>neva, swestersune,</i> <i>swester(na)bern, swesterkind,</i> <i>swesterling</i>	nephew
23	<i>nefene, nift,</i> <i>sweosterbearn</i>	<i>nifte, nifke, swesterdochter,</i> <i>swester(na)bern, swesterkind,</i> <i>swesterling</i>	niece
24		<i>niftlīn, niftakind</i>	niece's child
25	grandson: <i>sunsunu, nefa</i> granddaughter: <i>nefe, nift</i>	<i>bernesbern, kindeskind</i>	grandchild
26	great granddaughter: <i>thridde dohtor</i> great grandson: <i>thridda sunu</i>	<i>kindeskindeskind</i>	great-grandchild

Comparison of the KINSHIP terminology clearly demonstrates the close relationship between Old English and Old Frisian: cognate forms for similar terms in Table 2 appear in boldface. Old English and Old Frisian have cognates for the lexis for: father (Fa), mother (Mo), brother (Br), sister (Si), son (So), daughter (Da), child, grandfather, grandmother, maternal uncle (MoBr) and aunt

(MoSi), paternal uncle (FaBr) and aunt (FaSi), nephew and niece. Terms for some other blood relations likewise show similar cognate (compound) forms, i.e. great grandfather, greatgrandmother, cousins.

Old Frisian possessed terms for kinship relations that are not found in Old English: *mōdiransune*, *emessune*, *aldaēm*. When no Old English lexeme is recorded for a specific sense, it should not be inferred that the concept as such was absent in Old English. Notions such as “father’s brother’s son” and “mother’s sister’s son” exist in Old English, but are not lexicalized. Instead, they were expressed with genitival phrases (*fæderan sunu* and *modiran sunu*).

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6 Analysis

Based on the data from *TOE* and the newly created dataset, this section presents a detailed analysis of both the Old English and the Old Frisian lexis located under the semantic field of “02.03.02 Family/household” through the use of the web application Evoke. Evoke offers quantitative information from *TOE*, possibly in combination with additional datasets, in two forms: (1) basic statistics for a specific category and (2) advanced statistics that incorporate the onomasiological structure of *TOE* more fully, which also allow for queries to be customized.

6.1 Analysis of Parts of Speech Distribution

The basic statistics of Evoke allow us to provide some insight into matters such as the distribution of the parts of speech within the semantic field of KINSHIP, represented by the *TOE* category “02.03.02 Family/household” and all its subordinate categories. Figure 5 shows the distributions for Old English senses and of Old Frisian ones. When contrasting these numbers, the percentages of nouns for Old English and Old Frisian turn out to be comparable. However, Old Frisian has relatively fewer adjectives and more verbs, adverbs, and phrases than Old English. The marked difference between the relative number of verbs and that of adjectives is especially striking and merits further research.

6.2 Degree of Polysemy

The advanced statistics section of Evoke renders, amongst others, a graph that indicates polysemy: the number of senses attributed to a lemma. Indeed, polysemy (and homonymy) can be a measure of the ambiguity of words, demanding the interpreting party to reflect carefully on the intended meaning in an utterance (Chandler and Munday, 2016: s.v. *polysemy*). Figure 6 demonstrates that,

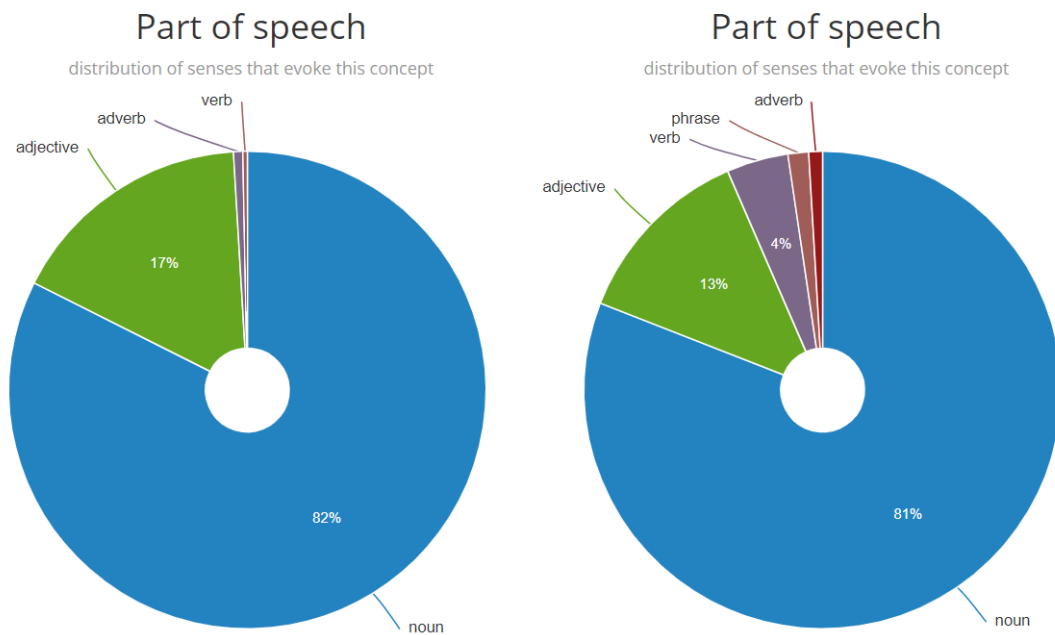


FIGURE 5 Distribution of Old English (left) and Old Frisian (right) senses in “02.03.02 Family/household”

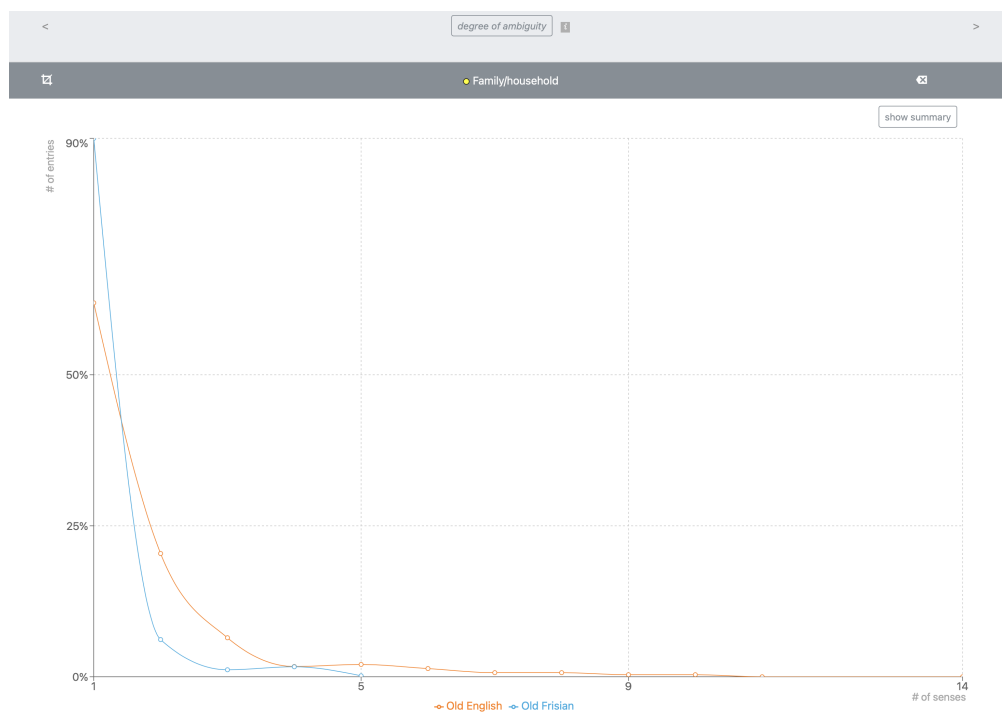


FIGURE 6 Degree of polysemy within “02.03.02 Family/household”

within the taxonomy branch of “02.03.02 Family/household”, the vast majority of Old Frisian lemmata is monosemous (i.e., 90% has a single recorded sense), whereas Old English has, relatively speaking, more lemmata that are polysemous. This outcome can partially be explained by the fact that *AFWB*, which was used to obtain the Old Frisian lemmata and senses, is a concise dictionary

and therefore does not record senses extensively. Even so, *AFWB* records multiple senses for entries when these senses are distinct enough to be necessary for initial readings of Old Frisian texts. The lack of polysemy for Old Frisian is striking, even when the nature of the source dictionary is taken into account. Whether this finding is characteristic of the language itself remains as yet undecided. The apparent monosemous nature of Old Frisian may be due to the lack of register variety in the surviving corpus. The Old Frisian corpus is predominantly juridical in nature whereas the Old English one is much more balanced, containing samples of different style varieties and registers, resulting in a higher number of polysemous words.

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6.3 *Onomasiological Distribution over Taxonomy Levels*

Figure 7 shows the distribution of lexical senses over the various levels of the taxonomy, which is another advanced analysis offered by *Evoke*.¹⁸ This diagram indicates that Old Frisian has more recorded senses located at taxonomy levels with highly specialized meanings than Old English (see levels 8–12). Moreover, Old Frisian features senses that are allocated to levels beyond those in use for Old English (levels 10–12). Indeed, many of the categories newly created for the purposes of capturing KINSHIP in Old Frisian have been added as subordinate ones to *TOE* categories in the more specialized levels of the taxonomy. This diagram visualizes that outcome. A possible explanation may be that Old Frisian texts are mainly juridical in nature, very often pertaining to inheritance law, and therefore deal with more precise meanings that denote family relationships. A case in point is the degree of kinship, for which the Old Frisian lexis that has come down to us includes fine-grained senses (see also Table 2).

6.4 *Onomasiological Distribution over Categories*

Distributions over thesaurus categories yield data regarding the degrees of lexicalization (also known as cultural elaboration) of semantic fields, which enables comparisons between them (Wierzbicka, 1997: 10–11). Figure 8 charts such a distribution for the subcategories of “02.03.02 Family/household”, generated with the advanced statistics section of *Evoke*.¹⁹ The Y-axis has been

¹⁸ The diagram indicates a total of 221 Old Frisian senses for this semantic field rather than the 215 senses mentioned in section 5. The disparity lies in the fact that six senses from *AFWB* have been allocated to not one but two *TOE* categories, effectively creating two subsenses for each of these *AFWB* senses when assigning them to the onomasiological structure of *TOE* (see Appendix A).

¹⁹ The diagram indicates a total of 220 Old Frisian senses spread over the semantic subfields. One of the senses from the 221 senses that one would expect (see previous footnote) is not found in the subfields but is allocated to the category “02.03.02 Family/household” itself, which accounts for the disparity.

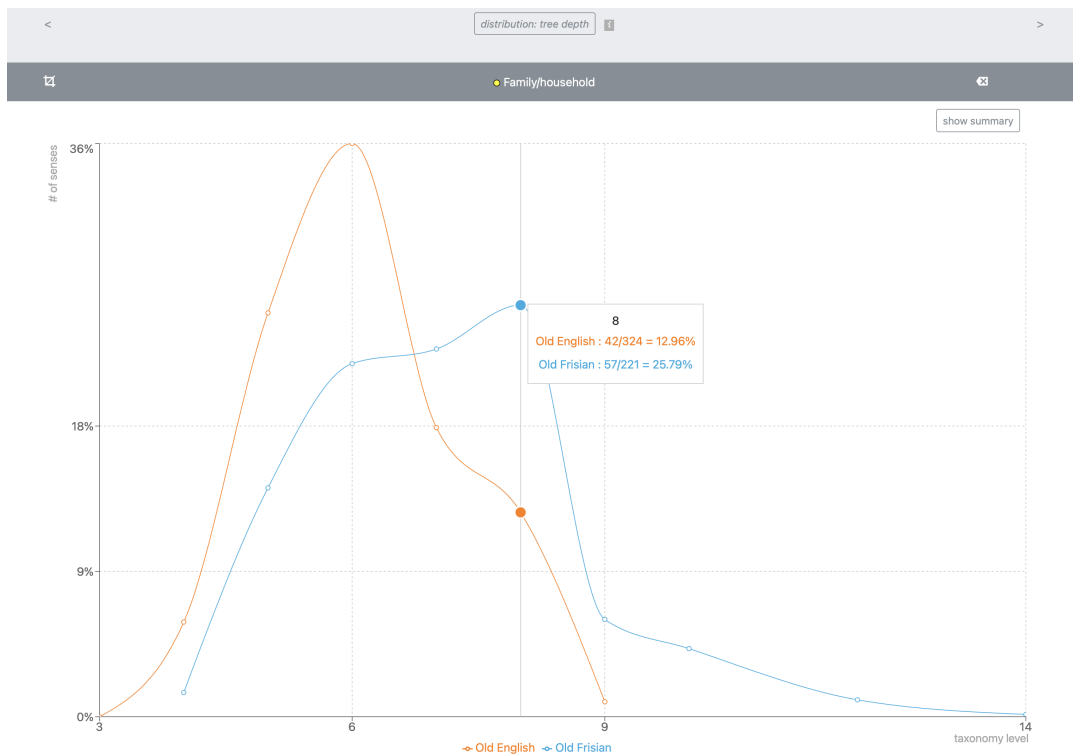


FIGURE 7 Distribution of lexical senses within "02.03.02 Family/household" over the taxonomy levels

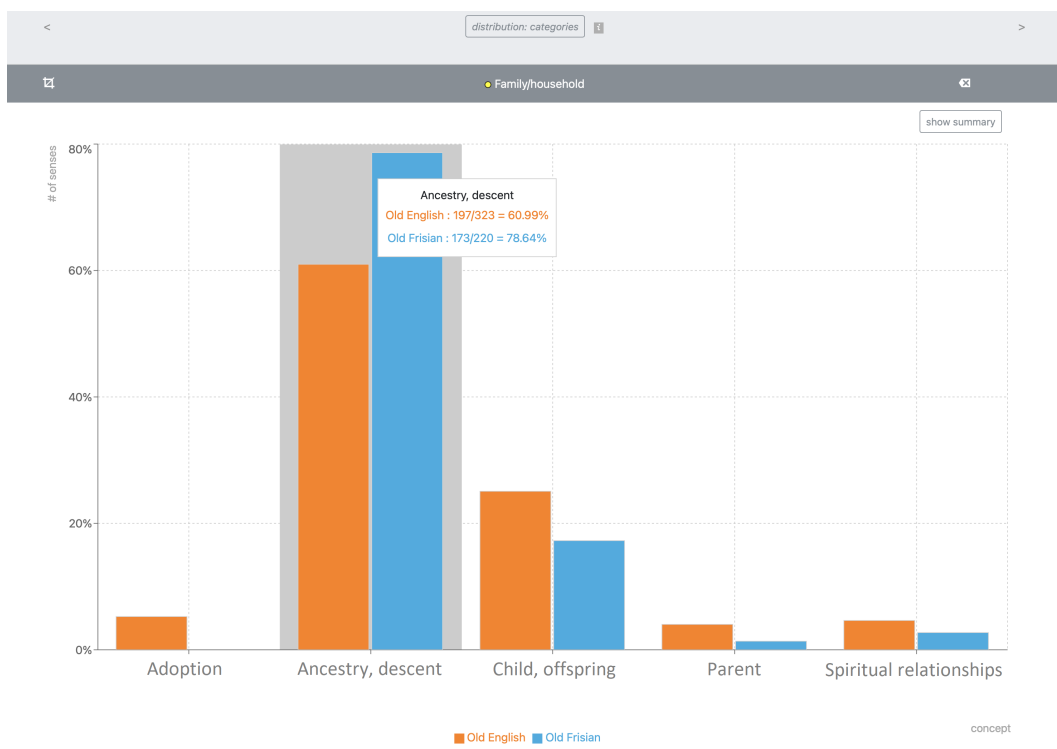


FIGURE 8 Distribution of lexical senses over the semantic subfields of "02.03.02 Family/household"

configured to show the relative number of senses from a single language (i.e. Old Frisian or Old English) found within each branch indicated on the X-axis. The branch “02.03.02.03 Ancestry, descent”, highlighted in the diagram, contains the vast majority of the Old Frisian senses on KINSHIP (170 senses or 79%). The majority of Old English senses is found in the same branch, albeit less dominant (61%) in relation to the other branches within the field. In fact, “02.03.02.03 Ancestry, descent” is the sole branch for which Old Frisian has a higher relative number of senses recorded than Old English. All other branches – i.e. “02.03.02.04 Adoption”, “02.03.02.02 Child, offspring”, “02.03.02.01 Parent”, and “02.03.02.05 Spiritual relationships” – have more Old English senses recorded than Old Frisian ones both in absolute and in relative numbers. The most striking differences between the two languages on this level are, therefore, (1) the relative degrees of lexicalization of “02.03.02.03 Ancestry, descent” and (2) the lack of any recorded Old Frisian senses for the concept of “02.03.02.04 Adoption”.

Apart from “02.03.02.04 Adoption”, the Old Frisian corpus does not contain words for a number of other concepts found in Old English. These concepts are, most notably, represented by the *TOE* categories of “02.03.02.04.01 Foster relationships”, “02.03.02.02 | 06.01 A foundling”, “02.03.02.02.01 Twins”, and “02.03.02.02.02 Triplets”.²⁰ KINSHIP concepts that witness a larger degree of lexicalization in Old Frisian in comparison to Old English are those that have been newly introduced (see Appendix B), of course. However, they also include concepts that are gender neutral (such as expressed with Old Frisian *swesterne* ‘sibling’, for which *TOE* records no Old English equivalent) and concepts represented in *TOE* by the categories “02.03.02.03.06.02.06 In-law relationships”, “02.03.02.03.06.02.03 Child of brother/sister”, “02.03.02.03.06.02.04 Cousin”, and “02.03.02.02.05 | 02 A Bastard”.²¹

20 “Foster relationships” in *TOE*. Identifier: 1268. Location: 02.03.02.04.01. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1268>.

“A foundling” in *TOE*. Identifier: 1123. Location: 02.03.02.02/06.01. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1123>.

“Twins” in *TOE*. Identifier: 1127. Location: 02.03.02.02.01. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1127>.

“Triplets” in *TOE*. Identifier: 1130. Location: 02.03.02.02.02. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1130>.

21 “In-law relationships” in *TOE*. Identifier: 1256. Location: 02.03.02.03.06.02.06. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1256>.

“Child of brother/sister” in *TOE*. Identifier: 1239. Location: 02.03.02.03.06.02.03. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1239>.

An extensive analysis of the distributions found in the more specific levels of the taxonomy branches is beyond the scope of this article. Nevertheless, to show what results such an analysis may produce, we include some insights into one such distribution here. Figure 9 presents the dispersion for “02.03.02.02.05 Having the same parents”, a subcategory of “02.03.02.02 Child, offspring”, which has a high degree of lexicalization for Old Frisian compared to Old English.²² Some interesting observations can be made about this diagram: Old Frisian has more words than Old English with senses of “02.03.02.02.05.02 Sister” and “02.03.02.02.05 | 02 A Bastard”. The latter is even expressed with a word specific to a child born before its parents were married: *spilkind*. The category “02.03.02.02.05.03 Siblings” has been created for the Old Frisian lexis, since no

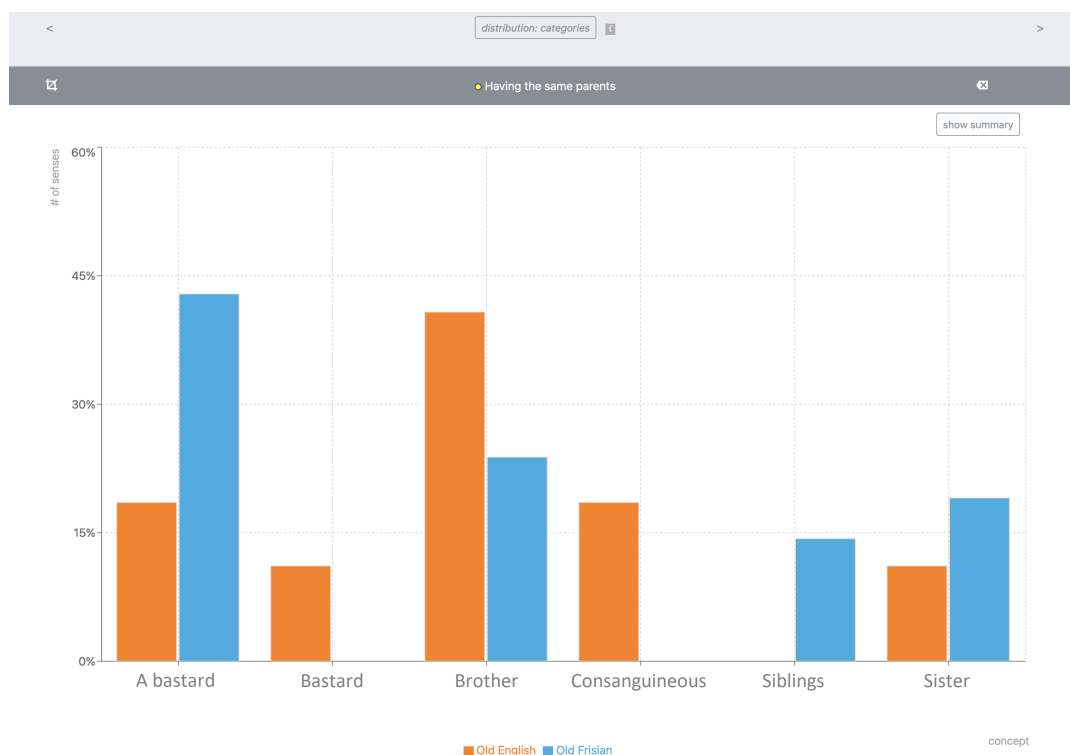


FIGURE 9 Distribution of lexical senses over the semantic subfields of “02.03.02.02.05 Having the same parents”

“Cousin” in *TOE*. Identifier: 1247. Location: 02.03.02.03.06.02.04. IRI: <http://oldenglishthesaurus.arts.gla.ac.uk/category/#id=1247>.

“A bastard” in *TOE*. Identifier: 1141. Location: 02.03.02.02.05/02. IRI: <http://oldenglishthesaurus.arts.gla.ac.uk/category/#id=1141>.

²² “Having the same parents” in *TOE*. Identifier: 1136. Location: 02.03.02.02.05. IRI: <http://oldenglishthesaurus.arts.gla.ac.uk/category/#id=1136>.

“Child, offspring” in *TOE*. Identifier: 1113. Location: 02.03.02.02. IRI: <http://oldenglishthesaurus.arts.gla.ac.uk/category/#id=1113>.

Old English lexemes are recorded for this concept that leaves gender unspecified. The higher degree of lexicalization of both “02.03.02.02.05.02 Sister” and “02.03.02.02.05.03 Siblings” in Old Frisian compared to Old English, along with a lower degree for “02.03.02.02.05.01 Brother”, suggests that the level of expressivity for this kinship tie is more alike for members of the male and female sex in medieval Frisia than in the Anglo-Saxon kingdoms. Further research is warranted into the question whether this hypothesis will hold when these semantic fields are compared for attestation of lexis in solely juridical texts, which constitute the majority of the surviving Old Frisian written legacy but only a fraction of the much vaster Old English corpus.

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7 Discussion

The analyses and results in the previous sections are to be read in the context of the languages and resources that lie at their heart. Old Frisian and Old English are not contemporaneous languages: the surviving sources for Old Frisian are coeval with the period of Middle English. The observed contrasts in comparing these languages, however similar they may be, will therefore likely be influenced by the temporal as well as regional space between them. Likewise, it is important to bear in mind the nature of the corpora from which the lexicon was reconstructed. Surviving texts represent but a small portion of what must have been written, by a non-homogeneous group, and, perhaps more importantly, solely by those who were literate. Religious and administrative texts therefore represent a large portion of these medieval corpora, with certain genres more dominant than others (e.g., homilies in Old English, legal documents in Old Frisian).

The alignment of Old Frisian senses with the semantic hierarchy of *TOE* was complicated by differences between the lexicographic resources used (i.e. *AFWB* for Old Frisian and *TOE* for Old English) and the cultural contexts in which they were created. *AFWB* and *TOE* use different languages and practices to describe their lexicon: the former employs Modern German to define senses, the latter Modern English; *AFWB* is a concise dictionary; *TOE* is based on more detailed dictionaries and demands sense differentiation to be of use. Allocating senses from one language to a taxonomy of a resource created for another, then, is by no means straightforward (see Appendix A for notes). As a result, observations with lingual comparisons, such as those made in this article, reflect differences between not only the language communities concerned, but also between the lexicographic practices that contributed to the frameworks used for interpretation of the lexis.

8 Conclusion

In this study we set out to answer two questions. The first is whether it is possible to allocate the Old Frisian lexis within the semantic field of KINSHIP to the onomasiological macrostructure of *TOE*. The answer is in the affirmative. We have demonstrated that Old Frisian senses for KINSHIP can be viewed in an onomasiological structure, alongside Old English ones, by reusing the *TOE* macrostructure. However, the process of allocating senses from one language to a taxonomy of a resource created for another is by no means straightforward, as mentioned before. In addition to differences between the lexicographic practices for the two resources that have been aligned, a substantial number of Old Frisian senses, owing to their specialized meaning, demanded new categories to be fashioned and positioned into the taxonomy of *TOE*. For the domain of KINSHIP, these newly created categories could be slotted into lower, more specialized levels of the semantic hierarchy of *TOE*. The current research does not yet allow us to establish whether reuse and extension of an existing onomasiological structure was more time efficient than building one from the ground up. Of course, creating a new hierarchy, rather than reusing that of *TOE*, would have the disadvantage of forestalling onomasiological comparisons between Old Frisian and Old English. We surmise that adoption of semi-automated approaches (e.g., automated recognition of cognates) may be used in the future to significantly speed up the alignment process.

The second question that we have aimed to answer is whether Evoke, in combination with *TOE*, can offer new insights both for Old Frisian and, in contrast to Old Frisian, Old English. As demonstrated, there are a number of advantages to having Old Frisian lexis available in the onomasiological structure of a thesaurus. The first is that the resulting resource facilitates word field studies (comparable to those for which *TOE* has been used in the context of Old English) and comparative linguistic research (see the Results section). In fact, we expect the Old Frisian lexis to be accessible to a larger audience through Evoke, owing to the availability of Old Frisian senses in a digital resource that contains Modern English headings, using the *TOE* macrostructure, rather than in a dictionary that records sense definitions in German. A second advantage is that statistical analyses such as those enabled by Evoke lead to new knowledge of Old Frisian lexis. Preliminary analyses have already demonstrated that the field of KINSHIP in the surviving Old Frisian lexis consists of significantly fewer adjectives and more verbs compared to Old English; it contains lemmata that are mostly monosemous (90%); it includes more fine-grained senses than Old English (including ones to denote different degrees of kinship); it has a relatively higher degree of lexicalization of the concepts of ancestry and

descent than Old English; but it lacks any words for the concepts of adoption, foundling, twins, and triplets. Findings in *Evoke* lead to new questions that merit further research – into the surviving corpus and lexicographic practices, amongst others – to supply a satisfying context and better understanding. The availability of both Old Frisian and Old English lexis in *Evoke*, then, certainly offers a useful stepping stone to learn more about the nature of these kindred historical languages and their language communities.

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Appendix A: Notes on the Alignment

This appendix provides notes on the alignment between the *Altfriesisches Handwörterbuch* (AFWB) and *A Thesaurus of Old English* (TOE) for the semantic field of KINSHIP.

A.1 AFWB *Lemmata or Senses Discarded or Updated*

- The second sense recorded in AFWB for *evenknē*, i.e. "Verwandter" [relative], is disputable and has therefore been discarded.
- Senses recorded in AFWB for *bern* and *kind* do not reflect that they are synonyms. With the help of the online corpus of Old Frisian, it is easy to find instances that attest to the conclusion that *bern* and *kind* have the same senses, i.e. 1) Foetus, 2) Offspring (first degree), 3) Descendant and 4) Young, immature person. We have therefore chosen to align the senses of *bern* and *kind* with each other.
- The recorded sense in AFWB for *unnatlik*, i.e. "unebenbürtig" [not equally related], is inaccurate and should be "not related."
- The senses of Old Frisian *kennemech* has been aligned with those of *keremech*.

A.2 *Lemmata or Senses Introduced*

The following terms were not recorded in AFWB but are attested in the Old Frisian corpus and were added to the dataset used in this article.

- *sex honda* as a phrase with the sense "First degree blood relatives".
- *thredda* as a noun with the sense "Third generation".

The phrase *sex honda* is found in 7 manuscripts, in one of the most widely distributed texts known as the *Twenty-four Land Laws*.²³ *Thredda* is recorded in the AFWB as

23 This sense is attested in the following Old Frisian text witnesses: PnB-E3, L24-H2, L24-J, L24-R1, L24-E1, L24-F, JF-Ro. See results of a search for "sex hond" in *Corpus Oudfries*.

numerical form with the general sense of *dritte* [third], but the more specialized sense of “third generation” is also recorded in the Old Frisian sources.²⁴

A.3 *Remarks on Placement of Senses in TOE*

- Definitions in *AFWB* of a number of Old Frisian senses on KINSHIP contained elements that made it possible to allocate these senses to fields outside of KINSHIP, too. Instead of allocating them to multiple semantic fields, these senses were allocated solely to categories in KINSHIP. The Old Frisian lemma *kniaia*, for instance, has a sense of “lawfully claiming to be related”. This sense was allocated to KINSHIP in *TOE* only, but not additionally to the semantic field of “14.03.03 n. Law, action of the courts”.²⁵ Similarly, lemmata with the sense of “being related” or “relationship” were not allocated to the semantic field of “08.01 n. Heart, spirit, mood, disposition” in *TOE*.²⁶
- The *AFWB* lemma *kniaia* has three overlapping senses: “Verwandschaft nachweisen,” “Verwandschaft geltend machen,” “verwandt sein.” We merged these three into one sense in English: “To (claim to) be related.”
- Senses defined as “Blutverwandt” or “Verwandt” are used indiscriminately in the *AFWB*. These senses have all been aligned as “Related.” Similarly, the *AFWB* uses “Blutverwandschaft” and “Verwandschaft” indiscriminately. Blood relations and blood relatives all belong to *TOE* category “Close relationship.”

A.4 *Comments on the Structure of TOE*

In the following paragraphs we illustrate some of the difficulties experienced when placing the Old Frisian senses from *AFWB* within the categories from *TOE*.

- The *AFWB* records a single sense for the Old Frisian lemma *dochter* with its definition in German: “Tochter” [daughter]. *TOE* records the Old English cognate *dohtor* in different senses: one is listed in the category “02.03.02.02.04 A daughter”, another in the category “02.03.02.03.05 | 02 n. Female descendant”.²⁷ The Old Frisian lemma’s meaning refers to both of these. The question arises as to whether one should allocate the single recorded sense of Old Frisian *dochter* to the same two categories as

24 This sense is attested in the following Old Frisian text witnesses: LaFi-F, PnB-B2, Dom-J, BHuB, Lav-H2, LaFi-Ro. See results of a search for “thredda” in *Corpus Oudfries*.

25 “Law, action of the courts” in *TOE*. Identifier: 19453. Location: 14.03.03. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=19453>.

26 “Heart, spirit, mood, disposition” in *TOE*. Identifier: 13458. Location: 08.01. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=13458>.

27 “A daughter” in *TOE*. Identifier: 1133. Location: 02.03.02.02.04. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1133>.

“Female descendant” in *TOE*. Identifier: 1193. Location: 02.03.02.03.05/02. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1193>.

Old English *dohtor*. Since it is obvious that a daughter is also a female descendant, a sense that is also part of KINSHIP, we have decided to allocate the recorded sense in *AFWB* to both categories. An alternative solution would be to create two subsenses of the *AFWB* lemma and have allocated these to their respective categories.

- The senses of the cognate words Old English *fæmne* and Old Frisian *fomne* are related but still slightly different (see Table A1).

TABLE A1 *fæmne* and *fomne*

Lemma	TOE categories		
Old English <i>fæmne</i>	Female person, woman	Girl	A maiden, A virgin
AFWB senses			
Old Frisian <i>fomne</i>	1) Mädchen [girl]	2) Tochter [daughter]	3) Magd [female servant]

When looking at the *TOE* categories for *fæmne*, the category “02.03.01.02 Female person, woman” is a sense more general than those recorded in *AFWB*.²⁸ Although the lemma may fit in this category, too, we have decided to keep the three senses recorded in *AFWB* unchallenged, positioning only these in the semantic hierarchy of *TOE* on KINSHIP.

A.5 Inconsistencies AFWB

The senses of (near-)synonyms and other semantically related words have some inconsistencies. Cases in point are Old Frisian *wīf* and *frouwe*.

wīf n. 1) Weib; 2) Frau

frouwe, frowe, frou^{WL} f. 1) Frau; 2) Ehefrau; 3) Edelfrau, Fürstin; 4) Herrin; 5) die Jungfrau Maria; 6) Schwiegermutter

Examination of the contexts in which the lexemes *wīf* and *frouwe* occur reveals that the compilers of the *AFWB* have tried to reflect the connotational differences that the two words have in the German descriptions. *Frouwe* was a term used to denote respect, while *wīf* was the more generally used word. For *frouwe* only the senses 1, 2

28 “Female person, woman” in *TOE*. Identifier: 1079. Location: 02.03.01.02. IRI: <http://oldenglishthesaurus.arts.gla.ac.uk/category/#id=1079>.

and 6 have been allocated to KINSHIP in *TOE* (the others fall outside the scope of our investigation). Corresponding *TOE* categories are “02.03.01.02 Female person, woman” and “12.09 | 07.05 n. Wife, married woman.”²⁹

A.6 Allocation of *AFWB* Senses to Multiple *TOE* Categories

Six senses from *AFWB* have been allocated to not one but two *TOE* categories, effectively creating two subsenses for each of these *AFWB* senses when assigning them to the onomasiological structure of *TOE*. The allocation to a second *TOE* category allowed, most notably, for words denoting offspring (such as “son” or “daughter”) to be marked as “descendant”, too. The six *AFWB* senses, along with their allocations in *TOE*, are in Table A2.

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TABLE A2 Six senses

<i>AFWB</i>				<i>TOE</i>	
Lemma	Sense no.	Sense	Mod. English translation	Category 1	Category 2
dochter	1	Tochter	daughter	A daughter ^a	Descendant ^b
kind	2	Kind, Nachkomme	child, descendant	Child, offspring ^c	Descendant
knapa	2	Sohn	son	A son ^d	Descendant
sunder_1	1	Sohn	son	A son	Descendant
sune	1	Sohn	son	A son	Descendant
slachte_1	2	Familie	family	Ancestry ^e	Kinsman/relative ^f

a “A daughter” in *TOE*. Identifier: 1133. Location: 02.03.02.02.04. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1133>.

b “Descendant” in *TOE*. Identifier: 1191. Location: 02.03.02.03.05. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1191>.

c “Child, offspring” in *TOE*. Identifier: 1113. Location: 02.03.02.02. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1113>.

d “A son” in *TOE*. Identifier: 1131. Location: 02.03.02.02.03. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1131>.

e “Ancestry” in *TOE*. Identifier: 1159. Location: 02.03.02.03. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1159>.

f “Kinsman/relative” in *TOE*. Identifier: 1208. Location: 02.03.02.03.06.01. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1208>.

29 “Wife, married woman” in *TOE*. Identifier: 18618. Location: 12.09/07.05. IRI: <http://oldenglishtesaurus.arts.gla.ac.uk/category/#id=18618>.

Appendix B: Old Frisian Lemmata on Kinship Aligned with *A Thesaurus of Old English*

Categories in *italics* are ones that did not exist in the original thesaurus taxonomy and have been newly created to accommodate Old Frisian senses.

02.03.02 Family/household (id: 1108)

IRI: <https://oldenglishtesaurus.arts.gla.ac.uk/category/#id=1108>

02.03.02.01 Parent (1109)

01 n. Father (1110)

02 n. Mother (1112)

alder

feder

mōder

02.03.02.02 Child, offspring (1113)

04 adj. Lawfully born (1120)

06 n. An orphan (1124)

bern, kind

aftberen

wēsa, wēsekin, wēsekind,
wēseklēn, wēstien

02 adj. Without Parents (1126)

05 *adj. For orphans*

02.03.02.02.03 n. A son (1131)

02.03.02.02.04 n. A daughter (1133)

alderlās, biwēsed, wēsid

wēslik

knapa, sunder, sune

fomne, dochter

02.03.02.02.05 Having the same parents (1136)

02 n. A Bastard (1141)

02 n. Bastard brother (1143)

03 n. *Bastard sister*

04 n. *Bastard born before marriage*

02.03.02.02.05.01 Brother (1146)

06 adj. Of brothers, brotherly (1154)

06.01 n. *State of being brotherly*

08 n. *Full brother*

09 n. *Half brother*

02.03.02.02.05.02 Sister (1156)

01 n. *Full sister*

02 n. *Half sister*

02 n. *Sisterhood*

02.03.02.02.05.03 Siblings

01 n. *Full siblings*

02 n. *Half siblings*

basterd, hōringe, hōrkind,
hōrning, hōrbrēd, hōrbern

basterdbrōther

basterdswester

spilkind

brōther

brōtherlik

brōtherlikhēd

fulbrōther

halfbrōther

swester

fulswester

halfswester

swesterskip

swesterne

fulswesterne

halfswesterne

02.03.02.03 Ancestry, descent (1159)	slachte
02 Side (1162)	sīde
03 Generation, degree of descent (1163)	grād, gung, knī, lith, sibdēl, siā, slachte, sibdēl
02 <i>Third generation</i>	thredda
03 <i>Descendance</i>	delgung, nithergung, tōdele
01 v. <i>To descend</i>	delgunga, nithergunga, tōdelgunga
02 adj. <i>Descending, down</i>	delgungande
03 adv. <i>Descendingly</i>	tōdele
04 <i>Ascendance</i>	upgung
01 v. <i>To Ascend</i>	upgunga, ūrbekgunga
02 adv. <i>Ascendingly, backwards, up</i>	ūrbek
05 <i>Part of a family tree</i>	facht
06 <i>Trunk of a family tree</i>	stipa
02.03.02.03.01 Ancestry, paternal kinship (1166)	
02 Male line of descent (1169)	sperehond, swerdsīde
03 Father's side (1170)	federsīde
01 adj. <i>Paternal</i> (1171)	fetherlik
02 n. <i>Father's mother side</i>	federesmōdersīde
02.03.02.03.02 Maternal descent (1172)	
02 Female line of descent (1174)	spindelsīde
03 Mother's side (1175)	mōdersīde
01 adj. <i>Maternal</i> (1176)	mōderlik
04 n. <i>Mother's father side</i>	mōderfedersīde
02.03.02.03.03 Forefather, ancestor (1178)	alder, forefeder, forefirdera
02.03.02.03.04 (Of degrees of descent) great-, grand- (1182)	
01 n. <i>Grandfather</i> (1183)	aldafeder, alder, edela
02 n. <i>Grandmother</i> (1184)	aldemōder,
03 n. <i>Great grandfather</i> (1185)	ūraldafeder, alder, edela
04 n. <i>Great grandmother</i> (1186)	ūraldemōder
09 n. <i>Granduncle</i>	aldaēm
02.03.02.03.05 Descendant (1191)	bern, kind, knapa, neikuma, neikumande, neikumeling, neikumer, sunder, sune

01 n. Descendants (of a generation) (1192)	neikuminge
02 n. Female descendant (1193)	dochter
03 n. Successor, heir (1194)	<i>outside of current scope</i>
04 n. Grandson (1195)	-
01 n. Daughter's son (1196)	dochtersune
12 n. <i>Grandchild</i>	bernesbern, kindeskind
01 n. <i>Daughter's child</i>	dochteresbern
13 n. <i>Great grandchild</i>	kindeskindeskind
02.03.02.03.06 Kinship, relationship (1204)	sibbe_1, blōd, wirtel
01 adj. Related (1205)	bisib, bisibbed, sibbe_2, swēs, liāf, nātlik
02.03.02.03.06.01 Kinsman, relative (1208)	sibba, sibdēl, kniā, knīling, mēch, friund, nāt, holda federfriund, federmēch, federsibbe
03 n. Paternal relative (1212)	mōderfriund, mōdermēch
04 n. Maternal relative (1213)	nesta
07 n. Next of kin (1216)	sibbe_1, slachte, ken
09 n. Kinsfolk (1218)	fulsibbe
05 n. <i>Relationship through common parents</i>	fulsibbe
01 adj. <i>Rel. through common parents</i>	halfsibbe
06 n. <i>Relationship by one parent</i>	thredkniā, thredknīling, thredling, thredsiā
11 n. <i>Third degree relative</i>	sex honden
12 n. <i>The six first degree relatives</i>	evenknē, evenkniā, evenknīling, likenisse
13 n. <i>Relative in the same degree</i>	keremēch, kestfriund
14 n. <i>Relative chosen for oath swearing</i>	upstīger
15 n. <i>Relative in ascending line</i>	nītherstīger
16 n. <i>Relative in descending line</i>	
02.03.02.03.06.02 Close relationship (1224)	
01 adj. Closely related (1225)	biefta, inlik, niār
02 adj. <i>Like relatives</i>	swēslik
03 n. Blood relations (1230)	blōd, bērena blōd
04 adj. Not related (1233)	fremede, unnātlik
05 v. <i>To (claim to) be related</i>	kniāia
01 v. <i>to (claim to) be closer related</i>	bikniāia, ūrkniāia, ūtsteka
06 adj. <i>Nearest related</i>	allerswesest, allersibbest, nest

07 <i>adj. Too close related (incest)</i>	sibbe_2
08 <i>adj. More distantly related</i>	ütlik
02.03.02.03.06.02.01 Uncle (esp. maternal) (1234)	
01 n. Paternal uncle (1235)	ēm, mōderesbrōther
01 n. <i>Father's halfbrother</i>	federia
	halffederia
02.03.02.03.06.02.02 Aunt (1236)	
01 n. Maternal Aunt (1237)	mōdire, mōie
02 n. Paternal Aunt (1238)	fethe, federesswester
02.03.02.03.06.02.03 Child of brother/sister (1239)	
01 n. Sister's child (1240)	swesternabern
	swesterbern, swesterling,
	swesterkind
02 n. Nephew (1241)	neva
01 n. Sister's son (1242)	swestersune
02 n. Brother's son (1243)	brōthersune, neva
03 n. Niece (1244)	nifte, nifke
01 n. Brother's daughter (1245)	brōtheresdochter
02 n. <i>Sister's daughter</i>	swesterdochter
03 n. <i>Niece's child</i>	niftlin, niftakind
05 n. <i>Brother's child</i>	brōtheresbern, brōthereskind
02.03.02.03.06.02.04 Cousin (1247)	
02 n. Father's sister's son (1249)	fethansune
04 n. <i>Relationship between cousins</i>	berning, swire
05 n. <i>Mother's brother's son</i>	ēmka, ēmessune
06 n. <i>Mother's sister son</i>	mōdiransune
07 n. <i>Father's brother's son</i>	federiasune
08 n. <i>Children of cousin</i>	efterswesterling,
	efterswesternabern,
	ōtherswesterbern
02.03.02.03.06.02.05 Step relationships (1251)	
01 n. Step-father (1252)	stiāpfeder
02 n. Step-mother (1253)	stiāpmōder
03 n. Step-son (1254)	stiāpsune
04 n. Step-daughter (1255)	stiāpdochter
05 n. <i>Step-child</i>	stiāpkind

02.03.02.03.06.02.06 In-law relationships**(1256)**

01 n. Father-in-law (1257)	hēra, swāger
02 n. Mother-in-law (1258)	frouwe
03 n. Daughter-in-law (1259)	snore
01 n. <i>Being a daughter-in-law</i>	snōrskip
04 n. Brother-in-law (1260)	tāker, āthum
06 n. Son-in-law/brother-in-law (1262)	āthum
07 n. Son-in-law and father-in-law (1263)	siāring
08 n. <i>Son-in-law</i>	swiāring, swāger, dochtermon
01 n. <i>Being a son-in-law</i>	swāgerskip
09 n. <i>Parents-in-law</i>	swiāring

02.03.02.04 Adoption (1264)

-

02.03.02.04.01 Foster relationships (1268)

-

02.03.02.05 Spiritual relationships (1274)

fadersibbe, faderskip

01 adj. Spiritual (1275)

gāstlik

02.01 n. A godfather (1277)

fadera

05 n. *Relationship betw. godbrother and biological brother*

brōtherlikhēd

06 n. *Relationship betw. godfather and biological father*

fēderlikhēd

B.1 Other TOE Categories Containing Old Frisian Lemmata

As mentioned in section 5, a number of Old Frisian lemmata on KINSHIP have been classified within TOE outside of the semantic field “02.03.02 Family/household”, and are therefore not included in our current analyses and case studies. The classification of these 47 lemmata is provided below.

02.01 Existence, life (id: 661)

IRI: <https://oldenglishthesaurus.arts.gla.ac.uk/category/#id=661>

02.01.03 Fruitfulness, fertility (698)

02.01.03.05 To be fruitful, to produce (705)	forthbrenge
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02.01.03.02 Barrenness, sterility (717)

02 adj. Barren, unproductive (719)	tochtalās
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02.01.03.03.01 To beget (730)

02 n. Begetting of children (732)

berntām, berntochta

06 n. An embryo/foetus (738)

berde, bern, kind

09 adj. Pregnant (742)

bernheftich

12 adj. Childless (745)

bernlās

02.01.03.03.02 To bring forth, produce (747)

05 n. Produce, fruit, offspring (752)

frucht

295

02.01.03.03.03 Birth (761)

01 v. To be born (762)

berde

02 adj. Born (763)

bera_1

beren

9

02.01.03.03.03.01 Child-bearing, childbirth (768)

07 n. A miscarriage (776)

tām

bernwendene,

berdwendene, dāden frucht

02.01.03.03.04 Offspring, race, breed, family, children (780)

01 n. Progeny, offspring (781)

not included

tām

02 n. Descendants, progeny, race (784)

*not included***01.01.03.03.06 Sex, kind (789)**

01 n. A sex (790)

01.01.01 n. A Male (793)

mon

02.01 n. A Female (795)

frouwe, wīf

02.03 Humankind (id: 1059)

geslachte, slachte_1

IRI: <https://oldenglishthesaurus.arts.gla.ac.uk/category/#id=1059>**02.03.01 People (1065)**

menneska

01 n. Human being (1066)

mon, menneska

09 v. To have (a brother, husband etc.) (1075)

habba

02.03.01.01 Male person, man (1076)

mon, hēra, monnesnoma,

monnespersōne

02 adv. In a male manner (1078)

monlike

02.03.01.02 Female person, woman (1079)	frouwe, wīf, wīfke, wīfnama, menneska, frouwespersōna
03 adj. Female (1082)	frouwelik, wīflik
02.03.01.04 Child (1086)	kind, kintien, mach, bern
05 n. Male child (1091)	knapabern, knapakind
06 n. Female child (1092)	fomnabern, fomnakind
02.03.01.05 Youth, boy, stripling (1093)	knapa, mage
02.03.01.07 Girl (1099)	famke, fomne, megeth, meiden

12.09 Marriage, state of marriage (id: 18602)

IRI: <https://oldenglishthesaurus.arts.gla.ac.uk/category/#id=18602>

06 n. Married persons, married couple (18610)	hiūne, sinhīgen
07.03 n. Husband, (married) man (18615)	mon
07.05 n. Wife, married woman (18618)	wīf, wīfke, wīfnama, hūsrouwe

12.09.03 Unmarried state (18657)

02 A maiden, a virgin (18663)	megeth
03 An unmarried man (18665)	knapa

12.09.05 State of a woman whose husband has died (18683)

01 Relict, widow (18684)	widwe
02 Widower (18685)	wedener