THE SUBJECTIVE AND OBJECTIVE FUNCTIONS IN OLD ENGLISH DEVERBAL FORMATIONS

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Abstract. The aim of this paper is to analyze Old English deverbal nouns derived by means of the sufffixes -a, -bora, -e, -en, -end, -ere/-re, -icge, -estre/-istre/-ystre, -o, and -u. The analysis is based on the derivational functions and the types of lexical derivation and category functions proposed by Lexeme-Morpheme Base Morphology. After the analysis of 480 complex nouns, several conclusions are reached regarding the subjective vs. objective profile of derivatives. In this respect, the subjective function is more widespread than the objective one. It also turns out that most suffixes perform both derivational functions. Moreover, by finding a clausal correlate for complex nouns displaying these affixes, two types of derivational relationship have been found. Firstly, the explicit derivational relationship as in bacan 'to bake' ~ bæcestre 'baker', in which a full derivational morpheme turns up in the derivative, and, secondly, the implicit derivational relationship, such as the one holding in ri:dan 'to ride' ~ ridda 'rider', in which no derivational morpheme is present from a strictly synchronic point of view.

Keywords: Old English, suffixation, derivation, subjective function, objective function

1. Introduction

This paper aims at contributing to the debate over the structure of the Old English lexicon in general and the operation of word-formation processes that is being carried out by the *Nerthus* project. With respect to the former topic, this work follows in the track of Kastovsky (1986, 1989, 1990, 1992, 2005, 2006) who has dealt with the typological shift from stem-formation to word-formation that takes place in Old English, as a result of which variable bases of derivation are replaced by invariable ones. On the topic of the word-formation processes of Old English, Martín Arista (2008, 2009, 2010a, 2010b, 2010c, 2011a, 2011b, 2011c, fc.-a, fc.-b, fc.-c) has focused on lexical layers and derivational processes of Old English, including prefixation (*a-, ge-, un-*, etc.), adjectival suffixation and zero derivation. Another research line of the field of Old English lexicology has been concerned with the analysis of Old English semantic primes, including the works by Martín Arista and Martín de la Rosa (2006), de la Cruz Cabanillas (2007) and Guarddon Anelo (2009a, 2009b).

More specifically, two types of derivational relation are examined in Old English complex nouns with verbal base of derivation. Firstly, the explicit derivational relationship as in *bacan* 'to bake' $\sim bacestre$ 'baker', in which a full derivational morpheme turns up in the derivative, and, secondly, the implicit derivational relationship, such as the one holding in *ri:dan* 'to ride' $\sim ridda$ 'rider', in which no derivational morpheme is present from a strictly synchronic point of view. The analysis is based on the derivational functions and the types of lexical derivation and category functions proposed by Lexeme-Morpheme Base Morphology. Conclusions go along the line of the subjective vs. objective profile of derivatives.

Revista Electrónica de Lingüística Aplicada (ISSN 1885-9089)

2010. Número 9. páginas: 201-215

Recibido: 30/10/2010

Aceptación comunicada: 09/02/2011

¹ This research has been funded through the project HUM2008-04448/FILO. An earlier version of this paper was presented at the 2011 Conference of AESLA.

The data that I analyse as well as the methodology of analysis that I adopt draw on the lexical database of Old English *Nerthus* (www.nerthusproject.com).

2. Descriptive and theoretical background

This section offers a review of the descriptive and theoretical questions relevant to the analysis of Old English deverbal nouns.

2.1. Old English word-formation: nominal suffixation

In Kastovsky's words (1992: 294) much of the OE vocabulary is derivationally related by productive word-formation patterns, and, (...) instead of borrowing a foreign, usually Latin word, the corresponding notion is often expressed by activating one of the indigenous word-formation rules, producing a so-called loan translation. The derivational morphology of Old English uses three main processes to coin new lexemes: zero-derivation, compounding and affixation. Since this journal article focuses on noun suffixation, I offer a more detailed review of this phenomenon.

Affixation is the morphological process by means of which new lexemes are formed by the addition of an affix to a base (Beard 1998). There are two kinds of affix depending on the relation to the base to which they attach: prefixes are added before the base (and-hweorfan 'move against', for-giefan 'give up, forgive', un-lucan 'unlock'), whereas suffixes follow the base ($\alpha\partial$ el-ing 'son of a noble, prince', freond-scipe 'friendship', ∂ icc-ett 'thicket'). In Old English, Mitchell (1992) identifies the following nominal affixes as the most salient ones: $-\alpha\partial$ - $o\partial$, -end, -ha:d, -ing, -ma:l, -ra:den, $-\partial$ (o)/ $-\partial$ (u), -ung/-ing. Quirk and Wrenn (1994) also provide an inventory of nominal suffixes based on their frequency of occurrence. For these authors, the most frequent suffixes are -nes(s)/-nis/-nys and -ung/-ing, the suffixes of high frequency are -do:m, -end and -scipe, while other common suffixes include -bora, -el/-ol/-ul, -els, -en, -ere, -estre, -et(t), -ha:d, -ing, -la:c, -ling, -o ∂ /-a ∂ , -ra:den, - ∂ (o)/- ∂ (u). For Kastovsky (1992) the main nominal suffixes in Old English are -d/-t/- ∂ , -do:m, -ele(e)/-l(a)/-ol, -els, -en, -end, -ere, -estre, -et(t), -ha:d, -incel, -ing, -la:c, -ling, -ness, -ra:den, -scipe, - ∂ (o)/-t, -ung/-ing, -wist. By drawing on these authors, I offer a brief description of each of these suffixes.

The suffix -bora forms masculine agent nouns from other nouns, as in mundbora 'protector', ræ:dbora 'councillor'.

The affixes in the series $-d/-t/-\partial$ create deverbal nouns, as is the case with $\alpha:bylg\partial$ 'anger' and $h\alpha:l\partial$ 'health'.

The suffix -do:m forms denominal and deadjectival abstract nouns with the meaning 'state, condition, fact of being, action of'. Denominal nouns include caserdom 'empire', martyrdom 'martyrdom', campdom 'contest', and læcedom 'medicine'. Deadjectival nouns, among others, are freedom 'freedom', haligdom 'holiness, sanctuary', wisdom 'wisdom'.

The group of suffixes -ele(e)/-l(a)/-ol/-ul are attached to action nouns, as in *scendle* 'reproach', $\partial real$ 'reproof' and *hwyrfel* 'circuit, whirpool'; agent nouns, as is the case with *æftergengel* 'successor', *bydel* 'herald' and *bæcslitol* 'backbiter'; object/result nouns (*scytel* 'dart, missile', *fyndel* 'invention' and *bitol* 'bridle'); instrumental nouns like *sceacel* 'shackle', *tredel* 'sole of the foot' and *spinel* 'spindle'; and locative nouns such as *smygel* 'burrow, retreat', *stigel* 'stile' and *setl* 'seat'.

The suffix *-els* forms concrete masculine deverbal nouns from strong and weak verbs, as in *rædels* 'counsel', *brædels* 'carpet' and *gyrdels* 'girdle'.

The suffix -en forms feminine nouns of action (sien sight', fillen 'falling', swefen 'sleep, dream'), object/result (rædenn 'reckoning, estimation', sellen 'gift', fæsten 'fortress'),

instrument (*hlæden* 'bucket', *lifen* 'sustenance', *fæsten* 'fastener') and locative nouns (*hengen* 'rack, cross', *byrgen* 'grave').

The suffix -end forms deverbal agent nouns from both weak and strong verbs. The agent nouns are masculine, whereas the action nouns display the feminine gender. Masculine agent nouns include biddend 'petitioner', lærend 'teacher' and dælnimend 'participle', while object nouns include belifend 'survivor' and gehæftend 'prisoner'.

The suffix -ere forms nouns from other nouns and from verbs. Examples of deverbal nouns include leornere 'disciple' (agent), sceawere 'mirrow' (object), punere 'pestle' (instrumental), wordsamnere 'catalogue' (locative), dirnegeligere 'sailor' (action), etc. Denominal nouns form agent nouns like scipere 'sailor', scohere 'shoemaker' and sædere 'sower'.

The suffix *-estre* forms deverbal and denominal feminine agent nouns. Deverbal nouns include *hleapestre* 'female dancer', *wæscestre* 'washer' and *tæppestre* 'female tavern-keeper'. Denominal nouns are *byr∂estre* 'female carrier', *fi∂estre* 'female fiddler' and *lybbestre* 'sorceress'.

The suffix -et(t) forms deverbal and denominal neuter nouns. Deverbal nouns include rewett 'rowing', hiwett 'hewing' and bærnett 'burning', while $\partial iccett$ 'thicket', and rymet 'space, extent' qualify as denominal nouns.

The suffix -ha:d conveys the meaning of 'state, rank, order, condition, character' in instances like abbudhad 'rank of an abbot', camphad 'warfare' and cildhad 'childhood'.

The suffix -incel forms neuter denominal diminutives such as bogincel 'small bough', busincel 'little house' and scipincel 'little ship'.

The suffix -ing forms masculine nouns denoting 'proceeding or derived from' from nouns (wicing 'pirate'), adjectives (ierming 'poor wretch') and verbs (fostring 'fosterchild').

The suffix -la:c forms masculine abstract nouns from nouns and verbs and denotes 'state, act, quality, nature of' from nouns and verbs. Denominal nouns include bodlac 'decree', brydlc 'marriage, marriage gift' and lyblac 'witchcraft', while breowlac 'brewing' qualifies as a deverbal noun.

The suffix -ling derives nouns from adjectives, nouns and verbs. Deadjectival nouns are deorling 'favourite' and geongling 'youth'; denominal nouns include cnæpling 'youth', fostorling 'fosterchild' and ∂ eowling 'slave'; hyrling 'hireling', ræpling 'prisoner' and hwirfling 'that which turns' are deverbal nouns.

The suffix -ness and its variant forms -nis, -nes and -nys derive feminine abstract nouns from adjectives and verbs. Deadjectival nouns include @delness 'nobility', beorhtness 'brightness' and biterness 'bitterness', clænness 'purity'. Among deverbal nouns we find blinness 'cessation', brecness 'breach' and costness 'temptation'.

The suffix $-o\partial/-a\partial$ forms masculine nouns, mainly abstract, as is the case with $drohto\partial$ 'way of life', $herga\partial$ 'plundering' and $langa\partial$ 'longing'.

The suffix -ræ:den derives feminine denominal nouns with the meaning 'state, act, condition', as in bebodræden 'command, authority', bro∂orræden 'fellowship, brotherhood' and campræden 'war, warfare'.

The suffix -scipe forms masculine abstract nouns from adjectives and nouns with the meaning 'state, act, fact, condition'. Denominal nouns include bodscipe 'message', freondscipe 'friendship' and leodscipe 'nation, people', while gecorenscipe 'election, excellence', unwærscipe 'carelessness' and hwætscipe 'activity, vigour' are deadjectival nouns.

The suffix -ung/-ing forms deverbal nouns from both strong and weak verbs. Action nouns include binding 'binding' and huntung 'hunting'. Instances of agent nouns include gaderung 'gathering, assembly' and gemeting 'meeting, assembly'. Among object/result nouns we find beorning 'incense' and agnung 'possessions'. Instrumental nouns include

instances such as *lacnung* 'medicine' and *wering* 'dam'. *Cyping* 'market' and *wunung* 'dwelling' qualify as locative nouns.

Finally, the suffix -wist derives feminine abstract nouns from nouns (huswist 'household'), adjectives (loswist 'loss') and adverbs (midwist 'presence').

Along with these suffixes, which bear an explicit derivational relationship because the derivational and the inflectional parts of the ending are clearly distinguishable, there are other suffixes that bear an implicit derivational relationship because the same segment expresses the derivational as well as the inflectional function. This is the case, as González Torres (2010) remarks, with the suffixes -a, -e, -o, and -u. Indeed, a morphological relationship of derivation holds between the basic verb and the derived noun in instances like *andettan* 'confess' > andetta 'one who confesses', hierdan 'protect' > hierde 'keeper', fullian 'fill up' > fyllo 'fillness' and giefan 'give' > giefu 'gift.'

2.2. Lexeme-Morpheme Base Morphology: An Overview

The theoretical framework chosen for this study is Lexeme-Morpheme Base Morphology, as proposed by Beard (1995) and Beard and Volpe (2005). This theory has been chosen because it allows for a decomposition of a complex notion such as derivational relationship into simpler notions and, moreover, because it provides a unified inventory of derivational and inflectional functions compatible with phenomena of continuity between inflection and derivation such as the one just mentioned.

Lexeme-Morpheme Base Morphology is known for its strict distinction between lexemes and grammatical morphemes. Morpheme-based morphology assumes that language contains only one type of meaningful unit, the morpheme, which includes stems and affixes, all of which are signs. Lexeme-based morphology, on the contrary, assumes that only lexemes, derived or underived, are signs, and that affixes, reduplication, re-vowelling, metathesis, subtraction, stem mutation, and the like, are means of phonologically marking independent derivational operations which a lexeme might have undergone. This means that lexemes refer to something in the real world, whereas morphemes refer exclusively to universally available closed class grammatical categories (such as Tense, Aspect, and Number) and may consist of independent phonemic strings, affixes, infixes, changes in accent or tone, or even predictable omissions (zero morphemes). Figure 1 summarizes the main differences between lexemes and morphemes as identified by Lexeme-Morpheme Base Morphology:

Lexemes

- Belong to an open class
- Do not allow zero or empty forms
- Have extra grammatical (real world) references
- May undergo lexical derivation
- Are not paradigmatic
- Must be phonologically expressed

Figure 1: Lexemes and morphemes in LMBM.

Morphemes

- Belong to a closed class
- Allow zero or empty forms
- Have grammatical functions (refer only to grammatical categories)
- May not undergo lexical derivation
- Are paradigmatic
- May be phonologically expressed

The basic idea, therefore, is that the lexicon contains exclusively noun, verb and adjective stems, whereas grammatical morphemes are the output of phonological operations independent of the semantic operations they realize. In this framework, affixation is reduced to an exclusively phonological operation. This is called the Separation Hypothesis. The Separation Hypothesis splits derivation, both lexical and inflectional, into three processes: lexical (L-) derivation, inflectional (I-) derivation, and morphological spelling. Derivation comprises operations on abstract lexical and inflectional category functions such as [+Plural, -Singular], [+Past, -Present], [+1st], and the like. Spelling is the purely phonological realization of the morphological categories of any base lexeme that has undergone such derivation. Its function is to distinguish stems that have undergone derivation from those which have not. If the derivation is inflectional, the marker may be attached to the lexical stem or assigned independently to a structural position in syntax in ways which syntax alone cannot predict. Lexical derivation takes place in the lexicon and inflectional derivation in the syntax. Beard (1995) distinguishes four kinds of lexical derivation: transposition, functional derivation, feature switches and expressive derivations. Transpositions change the lexical category of a lexeme. Functional derivations add a semantically interpretable category function, such as Subject, Object, Locus and Manner. Lexical switches change the value of inherent lexical features, such as Gender and expressive derivations comprise the Augmentative and Diminutive and reflect the attitude of the speaker.

The base rule component of the theory cannot be syntactic only but must accomodate both lexical operations (derivations) and high-level syntactic operations (inflections). The types of lexical derivation rules that are available to grammars, therefore, are determined by the categories of the base rule component and the lexicon. This is called the Base Rule Hypothesis.

The Universal Grammatical Function Theory stipulates that the functions of inflectional and lexical derivation are the same.

Given this overview of the theory, instances such as *bacan* 'to bake' ~ *bæcestre* 'baker' and *ri:dan* 'to ride' ~ *ridda* 'rider' imply three types of lexical derivation: a transposition whose input is a verb and whose output is a noun, a functional derivation that assigns the subjective role, and a featural switch. These three types of lexical derivation are illustrated, respectively by figures 3-5, based on Beard (1995, 2005) [where NP stands for Noun Phrase, C for Complementiser, CP for Complementiser Phrase, IP for Inflectional Phrase and VP for Verb Phrase; the basic parallel is with a sentence, in which IP contains a word level category such as *will, must,* etc. expressing verbal inflection and the Complementiser such as *that* introduces clausal complements].

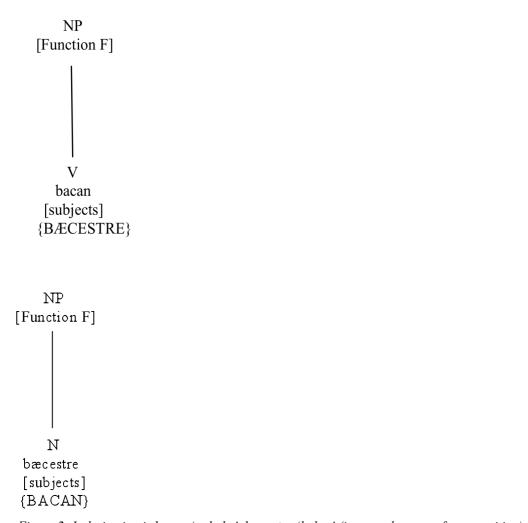


Figure 2: L-derivation in bacan 'to bake': bæcestre 'baker' (input and output of transposition).

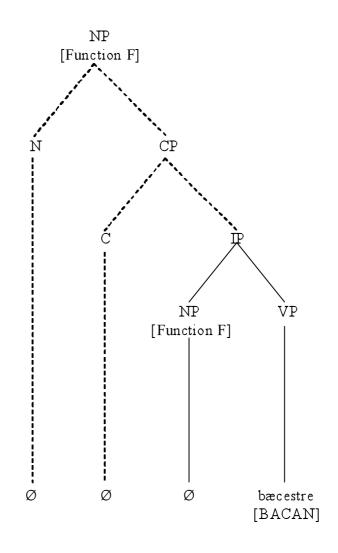


Figure 3: L-derivation in bacan 'to bake': bæcestre 'baker' (functional derivation).

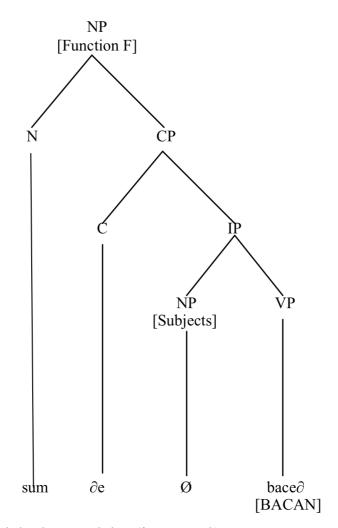


Figure 4: L-derivation in bacan 'to bake': bæcestre 'baker' (feature switch).

These representations rest on the assumption that Old English has two ways of expressing the same meaning by using an identical lexeme: one is lexical ($b \alpha c$ -estre 'bak-er'), the other is syntactic ($sum \ \partial e \ bac$ -e ∂ 'one who bakes'). Moreover, the same functions are found in both expressions. In this particular case, there is a subjective function and an unexpressed objective function.

The remainder of this article focuses on the subjective and objective functions realized in the lexical derivations with -a, -bora, -e, -en, -end, -ere/-re, -icge, -estre/-istre/-ystre, -o, and -u.

3. Analysis

This section presents the analysis that has been carried out. Firstly, I describe the data and then I concentrate on the derivations that comprise the suffixes at stake.

3.1. Data

The lexical database of Old English *Nerthus* turns out 480 nouns derived from verbal bases by means of the following affixes: -a, -bora, -e, -en, -end, -ere, -estre, -icge, -o and -u

The context of this figure calls for some comment. *Nerthus* contains 30,170 headwords, of which 16,694 are nouns. By derivational process, nouns can be classified as follows. There

are 4,115 are basic (underived) nouns and 12,579 non-basic (derived) nouns. Within non-basic nouns there are 3,488 derived nouns and 9,091 compound nouns. Affixed nouns can be broken down into 351 prefixed and 3,137 suffixed nouns. Therefore, this presentation deals with approximately 15% of suffixed Old English nouns. The data of analysis are given in (1). The figure between brackets represents the number of types of each affix found in the database:

```
(1)
        -a (90)
a.
        -bora (22)
b.
c.
        -e (11)
d.
        -en (14)
        -end (192)
e.
f.
        -ere/-re (96)
        -estre/-istre/-ystre (12)
g.
h.
        -icge (2)
        -o(2)
        -u (33)
j.
```

3.2. Analysis

With the exception of *-bora* derivatives, the nouns selected for the analysis have a verbal base of derivation, given that in order to determine whether a subjective or an objective relationship holds between base and derivative, the base has to belong to the lexical category of the verb. This point is illustrated by (2), which displays instances with all the affixes in the group:

(2) (ge)spreca 'spokesman, councillor' ~ (ge)sprecan 'to speak, say, utter, make a speech; converse, converse with; declare, tell off' wi:gbora 'fighter' ~ wi:g 1 'strife, contest, war, battle; valour; military force, armv' syde 'a decoction' $\sim (ge)se:o\partial an$ 'to seethe, boil; be troubled in mind, brood; afflict, disturb' byrgen 'burying place, grave, sepulchre; burial' ~ (ge)byrgan 'to raise a mound, hide, bury, inter' unrihthæ:mend 'adulterer' ~ unrihthæ:man 'to fornicate, commit adultery' ha:lsere 'soothsayer, dugur' ~ ha:lsian 'to adjure; call upon; convoke; implore, entreat; augur; exorcise; to entreat earnestly, beseech, implore' hoppestre 'female dancer' ~ hoppian 'to hop, leap, dance; limp' a:cennicge 'mother' ~ a:cennan 'to bring forth, produce, renew; attribute to' gehlytto 'fellowship, lot' ~ gehle:otan 'to cast lots; get by lot, obtain' sacu 'reproof; affliction; persecution, trial; sin, fault; prosecution, lawsuit, jurisdiction, right of holding a court for criminal and civil matters' ~ sacan 'to struggle, dispute, disagree, wrangle, fight; accuse, blame, bring a criminal or civil action against any one, lay claim to'

The case with *-bora* is different because *-bora* itself is a verbal element, morphologically related to the verb *beran* 'bear'. In this sense, Quirk and Wrenn (1994) consider *-bora* a suffix, whereas Kastovsky (1992) does not. With the caution just explained, *-bora* is analysed as a suffix here because, although *-bora* derivatives are considerably transparent, we also come across some instances of lexicalization such as *candelbora* 'acolyte' and *wro:htbora*

'accuser; the devil'. It is also worth pointing out that *bora* as a free form is extremely infrequent. According to *The Dictionary of Old English*, there is a single occurrence of *bora* 'bearer' in the corpus.

Another set of affixes that call for some attention is the one formed by -a, -e, -o and -u. As I have already pointed out regarding *ridda* 'rider, horseman, horse-soldier' there is no explicit morphological relationship between the strong verb and the derived noun. Some authors, including Kastovsky (1968, 1992) and Marchand (1969), treat the phenomenon under zero derivation. Others, such as González Torres (2009) consider it a case of continuity between inflection and derivation. Apart from the morphological question, I agree on the functional unification of the phenomenon in terms of lexical derivation carried out by Martín Arista (2008, 2009) because the same function is performed by -ere and -a, for instance.

In the analysis that follows I distinguish the subjective and the objective function. It must be borne in mind, regarding this question, that these functions are semantic-syntactic rather than notional. In this sense, subjective is not equated with animate and, conversely, objective is not equated with inanimate. As illustration, example (3) gives instances of the subjective semantic-syntactic function corresponding to the notion of inanimate.

(3) geclofa 'counterpart (of a document)' (subjective) sce:arra 'shears, scissors' (subjective) scinna 'spectre, illusion, phantom, evil spirit; magical image; be resplendent' (subjective) staca 'pin, stake' (subjective) steorfa 'pestilence; carrion' (subjective) sticca 'stick; peg, pointer; spoon' (subjective)

Beginning with the results that the analysis turns out, lexical switches produce pairs like those in (4). Notice that m stands for masculine, f for feminine and n for neuter:

(4)	a.	a:cennend	m	'parent'
		a:cennicge	f	'mother'
	b.	a:∂swara	m	'oath-swearing, oath'
		a:∂swaru	f	'oath-swearing, oath'
	c.	byr∂estre	f	'female carrier'
		byr∂re 1	m	'bearer, supporter'
	d.	cennend	m	'parent'
		cennestre	f	'mother'
	e.	forspennend	m	'procurer'
		forspennestre	f	'procuress'
	f.	fylgend	m	'follower, observer'
		fylgestre	f	'female follower'
	g.	galdre	m	'wizard, magician'
		galdricge	f	'enchantress'
	h.	hæ:lend	m	'Saviour, Christ'
		hæ:lestre	f	'saviour'
	i.	hle:apere	m	'runner, courier; wanderer, leaper, dancer'
		hle:apestre	f	'female dancer'
	j.	leornere	m	'learner, disciple; scholar; reader'
	_	leornestre	f	'a student'
	k.	oferswi:∂end	m	'vanquisher'
		oferswi:∂estre	f	'victrix'

1. plegere m 'player' plegestre f 'female athlete'

In pairs and triplets like the ones offered in (5) it can be seen that affix selection has impact on meaning:

(5)	a.	begi:men	f	'attention, observation'
		begi:mend	m	'guide, ruler'
	b.	bepæ:cend	m	'deceiver'
		bepæ:cestre	f	'whore'
	c.	bla:wend	m	'inspirer'
		bla:were	f	'blower'
	d.	byrgen	f	'burying place, grave, sepulchre; burial'
		byrgend	m	'grave-digger'
		byrgere	m	'corpse-bearer'
	e.	forgifestre	f	'female giver'
		forgifu	f	'gratia'
	f.	ge:otend	m	'artery'
		ge:otere	m	'founder (of metal)'
	g.	læ:rend	m	'misleader, instigator'
		læ:restre	f	'instructress'
	h.	sce∂∂end	m	'adversary'
		sceдди	f	'hurt, injury'
	i.	∂ro:wend	m	'serpent, scorpion, basilisk'
		∂ro:were	m	'sufferer, martyr'
	j.	wendend	m	'that which turns round'
		wendere	m	'translator, interpreter'

From the point of view of function, it is worth remarking that a correspondence has been found in a significant number of instances between a subjective derivative and another objective one. Relevant instances include those given in (6):

(6)	a.	andetla	m	'declaration, confession'	(objective)
		andetta	m	'one who confesses'	(subjective)
		andettere	m	'one who confesses'	(subjective)
	b.	byrgen	f	'burying place'	(objective)
		byrgend	m	'grave-digger'	(subjective)
	c.	fore∂ingere	m	'intercessor, mediator'	(subjective)
		fore∂ingiend	m	'intercessor'	(subjective)
		fore∂ingræ:den	f	'intercession'	(objective)
	d.	gehlyta	m	'companion'	(subjective)
		gehlytta	m	'partner, fellow'	(subjective)
		gehlytto	?	'fellowship, lot'	(objective)
	e.	(ge)re:∂ra	m	'rower, sailor'	(subjective)
		(ge)re:∂ru	np	'oars'	(objective)
	f.	(ge)saca	m	'opponent, foe'	(subjective)
		(ge)sacu	f	'conflict, strife, war'	(objective)
	g.	giefa	m	'donor'	(subjective)

	giefend	m	'giver'	(subjective)
	giefu	f	'giving, gift'	(objective)
h.	gripa	m	'handful, sheaf'	(objective)
	gripu	f	'kettle, caldron'	(subjective)
i.	ma:nswara	m	'perjurer'	(subjective)
	ma:nswaru	f	'perjury'	(objective)
j.	ny:dnima	m	'one who takes by force'	(subjective)
	ny:dnimend	f	'rapine'	(objective)
	ny:dnimu	f	'rapine, forcible seizure'	(objective)
k.	scea∂a	m	'injurious person, criminal'	(subjective)
	scea∂u	f	'injury'	(objective)
1.	selen	f	'grant, gift; tribute'	(objective)
	sellend	m	'giver; betrayer'	(subjective)
m.	slaga	m	'slayer, homicide'	(subjective)
	sle:a	f	'slay, weaver's reed'	(objective)
n.	unna	m	'favour, approval; grant'	(objective)
	unnend	m	'one who grants'	(subjective)
0.	wi∂ercwida	m	'contradicter'	(subjective)
	wi∂ercwide	m	'contradiction; opposition'	(objective)

Affix by affix, the suffix -a is selected for the subjective and the objective functions. The suffix -bora is selected for the subjective function exclusively. The suffix -e is selected for the objective function mainly. The suffix -en is selected for the objective function mainly. The suffix -end is clearly subjective. The situation with the suffix -ere/-re is comparable. It is overwhelmingly subjective, although there is an instance of the objective function. The suffix -estre/-istre/-ystre is subjective only. The suffix -icge is exclusively subjective. The suffix -o is objective only. Finally, the suffix -u is clearly objective. There are two instances, however, that can be considered subjective.

4. Conclusions

This article has analysed the Old English deverbal nouns to which the following suffixes have been attached: -a, -bora, -e, -en, -end, -ere/-re, -icge, -estre/-istre/-ystre, -o, and -u. Two types of derivational relationship have been found. In the first place, the explicit derivational relationship as in bacan 'to bake' $\sim bæcestre$ 'baker', in which a full derivational morpheme turns up in the derivative, and, in the second place, the implicit derivational relationship, such as the one holding in ri:dan 'to ride' $\sim ridda$ 'rider', in which no derivational morpheme is present from a strictly synchronic point of view. The analysis of this phenomenon in terms of the derivational functions and the types of lexical derivation and category functions proposed by Lexeme-Morpheme Base Morphology turns out several conclusions.

Firstly, from the quantitative point of view, 480 suffixed nouns have been analyzed, out of which 391 are subjective and 89 objective. Therefore, the subjective function is clearly favoured.

Secondly, the 10 suffixes analyzed can be divided into three groups on functional grounds: those suffixes that always perform the same function; b) those suffixes that practically always realize the same function; and c) those suffixes for which no predominant function can be identified. These groups are given in (7):

- (7) a. -bora (21 subjective); -estre/-istre/-ystre (18 subjective); -icge (2 subjective); -o (2 objective)
 - b. -e (8 subjective, 3 objective); -en (13 objective, 1 subjective); -end (190 subjective, 2 objective); -ere/-re (95 subjective, 1 objective); -u (29 objective, 4 subjective)
 - c.-a (58 subjective, 32 objective)

These results are in accordance with the Universal Grammatical Function Theory, which predicts that the functions of inflectional and lexical derivation are the same. Indeed, suffixes involved in explicit derivational relations such as *-estre* perform the same function, namely subjective, as other suffixes involved in implicit derivational relations, such as *-a*. The same applies to the objective function. Suffixes taking part in explicit derivational relations such as *-en* perform the subjective function, as other suffixes involved in implicit derivational relations, like *-o*, do.

And, thirdly, the fact that most of the suffixes under scrutiny perform the subjective and the objective function is in keeping with the Separation Hypothesis, in terms of which grammatical morphemes are the output of phonological operations independent of the semantic operations that they realize. Affixation is a phonological operation of affix selection, whereas lexical derivation entails lexical categories and functional relations. In this analysis I have insisted on the functional derivations that add semantically interpretable functions such as the subjective or the objective.

To conclude, it remains for future research to address the question of how to deal with featural switches of gender such as the one in *hle:apere/hle:apestre* 'male/female harp player'. It also constitutes a pending task to define the principles of affix selection that operate in series such as *steora* 'steersman, pilot, guider, director', *steorend* 'corrector, director, ruler' *steorere* 'steersman', as well as to exclude semantic factors in affix choice. Finally, purely inflectional affixes such as the ones attaching to *adela* 'mud', *tosca* 'frog', *asce* 'ash', etc. have to be explained by means of an up-to-date theory of grammatical gender.

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