THE OLD ENGLISH STRONG VERBS AND SOUND CHANGES RELEVANT TO THEM

Chien-Ching Mo Associate Professor of Linguistics Department of Western Languages and Literature National Chengchi University

1. INTRODUCTION

Old English parts of speech comprise two main groupings, the strong (athematic) and the weak (thematic). As regards verbs, Old English has two types of verbs - Strong and Weak. The strong verbs form their preterit and past participle by means of ablaut. The weak verbs form their preterit by the addition of a syllable containing a dental, and their past participle by means of a dental suffix.

The Old English verb has the following independent forms:

- two tenses--present and preterit. Other tenses are either expressed periphrastically or are understood contextually;
- indicative, subjunctive, and imperative moods, in addition to infinitives b. and participles;
- two numbers-singular and plural;
- three persons, but only in the singular of the present and preterit d. indicative. All plurals and the singular of the subjunctives are the same throughout;
- one voice only-the active. Except for the only verb hatan, which has a passive form <u>hatte</u>, verbs in Old English have only an active voice.
- 1.1 Principal Parts of the Strong Verbs. The principal parts of a strong verb are: (1) the infinitive, (2) the preterit indicative first person singular, (3) the preterit indicative plural, (4) the past participle. Following are the principal parts of drifan, 'drive'; beodan, 'command'; singan, 'sing':

drifan	drāf	drifon	drifen
bēodan	bēad	budon	boden
singan	sang	sungon	sungen

The personal endings of the preterit indicative of strong verbs are as follows:

Sing. 1 -2 -e
3 -Plur 1, 2, 3 -on

The conjugation of the preterit indicative of drifan and singan is as follows:

Sing. 1 (ic) drāf, 'I drove' Plur.

2 (ðū) drife, 'thou drovest'

3 (hē) drāf, 'he drove'

Sing. 1 (ic) sang, 'I sang' Plur.

2 (ðū) sunge, 'thou sangest'

3 (hē) sang, 'he sang'

3 (hē) sungon, 'we drove'

2 (gē) drifon, 'we drove'

3 (hie) drifon, 'they drove'

1 (wē) sungon, 'we sang'

2 (gē) sungon, 'you sang'

3 (hē) sang, 'he sang'

3 (hie) sungon, 'they sang'

- 1.2 Scope. This paper proposes to deal with an analysis and description of the phonology of Old English. Since the complete and detailed explanation for the sound changes and vowel shiftings occurring in the Old English period is a task of great magnitude, its contents are limited to studying the sound changes relevant to the principal parts of the strong verbs through the theory of generative phonology. Some rules will be worked out so as to transform the phonological deep structure into the phonetic surface structure of the Old English strong verbs. Old English has been regarded as a dead language, so the only material available is a corpus of written utterances.
- 1.3 A Reclassification of the Old English Strong Verbs. The Old English strong verbs are traditionally classified into seven classes according to the historical considerations of original ablaut variation and reduplication. However, disregarding the strictly historical criterion of classification and using synchronic features as criteria, Levin (1964) proposes a much more adequate and simple system of strong verb classification. He reclassifies them according to the particular distribution of resonants and consonants in the original root structure, and ablaut alternation.

The new classification, like the old, comprises seven classes. The criterion for class assignment is the vocalism of the preterit. The reclassification Levin (1964:159) proposes is listed as follows:

1a	ī	ā	i	i	bīdan	bad	bidon	biden	'await'
b	ēо	ā	i	i	wrēon	wrāh	wrigon	wrigen	'cover'
2a	ēо	ēa	u	o	bēodan	bead	budon		
b	$\overline{\mathbf{u}}$	ēa	u	0	brūcan	breac	_	boden	'command'
3a	i	a	u	•			brucon	brocen	'use'
	•	-		u	bindan	band	bundon	bunden	'bind'
b	e	ea	u	О	helpan	healp	hulpon	holpen	'help'
									•

c	eo	ea	u	O	weorpan	wearp	wurpon	worpen	'throw'
d	u	ea	u	0	spurnan	spearn	spurnon	spronen	'spurn'
e	e	93	u	0	stregdan	strægd	strugdon	strogden	'strew'
4a	e	as	$\overline{\mathbf{æ}}$	О	beran	bær	bædon	boren	'bear'
b	e	æ	$\bar{f x}$	e	metan	mæt	mæton	meten	'measure'
c	ēo	ea	$\bar{\mathbf{a}}$	e	seon	seah	sægon	segen	'see'
d	i	æ	$\bar{\mathbf{a}}$	e	biddan	bæd	bæron	beden	'pray'
5a	a	ō	ō	a	faran	for	foron	faren	ʻgoʻ
b	ēa	ō	\overline{o}	a	slean	slog	slogon	slagen	'strike'
c	e	ō	ō	a	hebban	hof	hofon	hafen	'raise'
d	ie	ō	ō	ea	scieppan	scop	scopon	sceapen	'create'
e	æ	ō	\overline{o}	æ	stæppan	stop	stopon	stæpen	'step'
f	u	\overline{o}	ō	u	cuman	com	comon	cumen	'come'
g	i	\overline{o}	ō	u	niman	nōm	nomon	numen	'take'
6a	ā	\overline{e}	\overline{e}	ā	hātan	hēt	heton	haten	'call'
b	$\overline{\tilde{\mathbf{x}}}$	\overline{e}	\overline{e}	$ar{ ilde{ extbf{a}}}$	lætan	let	leton	lætan	'let'
c	\overline{o}	\overline{e}	\overline{e}	a	fon	feng	fengon	fangen	'seize'
7a	a	ēo	ēo	a	bannan	beonn	beonnon	bannen	'summon'
b	ea	ēo	ēо	ea	fealdan	feold	feoldon	fealden	'fold'
c	ā	ēc	ēo	ā	blawan	bleow	bleowon	blāwen	'blow'
d	ēa	ēc-	ēo	ēa	beatan	beot	beoton	beaten	'beat'
e	ō	ēc	eo	ō	blotan	bleot	bleoton	bloten	'sacrifice'

By this criterion, the system falls into two divisions: in the first (1-4) the vowel of the preterit is different in the singular and the plural; in the second (5-7) it is the same. The vowels of the preterit, for the revised classes, are shown in the following: (The forms strægd, strugdon of 3e, and seah, sægon of 4c fall outside this scheme.)

1	\overline{a}	i		5	ō	<u></u>
2	ēa	u		6	ē	ē
3	a/ea	u		7	e o	- eo
4	æ	æ				

The Old English strong verbs in this paper is based on Levin's reblassification system. Levin (1964:161) assumes

The use of vowel gradation as the primary criterion, with root structure a subsidiary marker, greatly simplifies the system. By modifying the role of root structure as a class index, and by abandoning reduplica-

tion altogether, we achieve classes much more uniformly differentiated. There is little motivation, aside from diachronic considerations, for separating beran and metan, cuman and faran, verbs with such similar vocalism in their paradigms; at this point the traditional classification is overdifferentiated. On the other hand, only their common origin as reduplicatives could justify grouping in one class verbs with such different vocalism as hatan, het and blotan, bleot; this is a clear case of underdifferentiation. The reclassification, by disregarding historical differences and focusing on synchronic evidence, presents a system of Old English strong verbs which is properly motivated; the result is neater and more adequate than the traditional scheme.

2. SOUND CHANGES

2.1 Consonants. Most of the consonant changes concerning the Old English strong verbs can be described as follows:

(1) Grimm's Law

Grimm's law is an explanation of the changes occurring between consonants in the early Indo-European languages and the Teutonic or Germanic languages. It demonstrates that the Indo-European voiced aspirates, \underline{bh} , \underline{dh} , \underline{gh} become respectively Germanic \underline{b} , $\underline{\delta}$, \underline{g} and later, in initial position at least, \underline{b} , \underline{d} , \underline{g} . Then the Indo-European voiceless \underline{p} , \underline{t} , \underline{k} , become respectively the voiceless spirants \underline{f} , $\underline{\theta}$, \underline{x} (later \underline{h} in initial position) except when preceded by \underline{s} . Finally, the voiced stops \underline{b} , \underline{d} , \underline{g} become respectively the voiceless stops \underline{p} , \underline{t} , \underline{k} .

(2) Verner's Law

In 1874, Karl Verner gave an explanation of certain exceptions to Grimm's

Law. The Law states that Germanic voiceless spirants remained voiceless if the preceding syllable had the Indo-European accent, but became voiced in voiced surroundings if the preceding syllable had been unstressed in Indo-European times. For example, in Old English, the singular of the preterit tense of cwe\theta an 'to stay' is ic cwae\theta, but the plural is we cwaedon. Originally the accent was on the ending in the latter from, as in the past participle, cweden, where a d is also found. These interchanges between voiceless and voiced spirants often denote distinctions between different grammatical forms of the same root. The phenomenon is known as grammatical change which is responsible for the consonantal shifts in the last two principal parts of the Old English strong verbs.

(3) Rhotacism

The shift from intervocalic voiced /z/ to /r/ is characteristic of both Latin and most of the Germanic languages.

(4) Intervocalic consonantal voicing

A consonant is voiced when it occurs between two vowels.

$$\begin{bmatrix} +\cos s \\ -\sin \end{bmatrix} \xrightarrow{} [+voice] / \begin{bmatrix} +syl \\ -\cos s \end{bmatrix} \xrightarrow{} \begin{bmatrix} +syl \\ -\cos s \end{bmatrix}$$

(5) Consonant doubling

All single consonants are doubled after a short vowel before a following \underline{j} . This j is generally dropped in Old English.



$$\begin{bmatrix} +\cos s \\ \alpha \end{bmatrix} \xrightarrow{\left[+\cos s \\ \alpha \right]} \begin{bmatrix} +\cos s \\ \alpha \end{bmatrix} / \begin{bmatrix} +syl \\ -cons \\ -long \end{bmatrix} \xrightarrow{\left[-\cos s \\ -syl \\ -back \\ +high \end{bmatrix}}$$

where α = feature environment of [+cons]

- (6) Loss of consonants
 - (a) Loss of intervocalis χ (h) Medial χ (h) disappears between vowels.

$$x \longrightarrow \phi$$
 / $\begin{bmatrix} +syl \\ -cons \end{bmatrix}$ — $\begin{bmatrix} +syl \\ -cons \end{bmatrix}$

(b) Loss of the phoneme /j/
Germanic medial j disappears after syllables which become long by
the West Germanic gemination of consonants.

$$/j/\longrightarrow \phi$$
 / $\begin{bmatrix} +\cos s \\ \alpha \end{bmatrix}$ $\begin{bmatrix} +\cos s \\ \alpha \end{bmatrix}$

(7) $\frac{bb}{alternates}$ with $\frac{f}{f}$

The phoneme /b/ contrasts with /f/ only in initial position. In medial and final positions except after nasals only /f/ occurs, after nasals only /b/.

$$/bb/\longrightarrow /f/$$
 in medial or final position.

(8) Extension of Verner's Law

For Old English, the following interchanging pairs of consonants due to Verner's Law are listed:

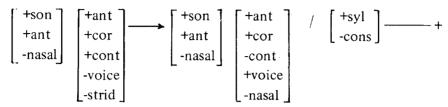
a.h or loss of h (=prim. Germ. x)-g
b.h or loss of h (=prim. Germ. xw)-g,w(=prim. Germ. gw) Verner's Law
c.h or loss of h (=prim. Germ. \(\bar{y} x \))-ng. (Only used in the sound changes of some contracted verbs.

(9) Identical consonant reduction

$$\begin{bmatrix} +\cos s \\ \alpha_1 \end{bmatrix} \begin{bmatrix} +\cos s \\ \alpha_2 \end{bmatrix} + \begin{bmatrix} +syl \\ -\cos s \end{bmatrix} \begin{bmatrix} +\cos s \\ +\cos s \\ +\cos s \end{bmatrix} + \begin{bmatrix} +syl \\ -\cos s \end{bmatrix} \begin{bmatrix} +\cos s \\ +\cos s \\ +\cos s \end{bmatrix}$$
where $\alpha_1 = \alpha_2$, $s = s$ tem boundary

(10) le (West Gmc.) becomes ld (OE).

In West Gmc. medial $\underline{1\theta}$ becomes $\underline{1d}$, and final $\underline{1\theta}$ becomes replaced in OE by $\underline{1d}$ from inflected forms.



2.2 Practical applications. The infinitive inflection in Old English is marked uniformly by -an affixed to the nonpast root form. The root syllables of the strong verbs experience vowel mutation in the preterit tense, and often shift their vowels even in the present tense. The strong verbs form their past participle in -en. The derivations of each infinitive form concerning the consonant changes listed in the Levin reclassification chart can be stated by the above-mentioned rules.

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1b. wreon 'cover', derived form wrihan (Goth)
Inf. UR (Underlying representation) wrih + an
         Breaking
                                     wreoh + an
                                     wreo + an
         Loss of /h/
                                     wreon
         Vowel contration
                                     wreon
    SR (Surface representation)
    Pret. UR
                           wrVh + an
Ist
         Inf. suffix delation
                                          wrVh
         SR
                          wrVh (=wrāh)
2nd Pret. UR
                                          wrVh + on
                                          wrVg + on
         Verner's Law II
                                          wrVgon (=wrigon)
         SR
Past Ptc. UR
                                          wrVh + en
         Verner's Law II
                                          wrVg + on
                                          wrVgen (=wrigen)
         seon 'see', derived from sehan (OHG)
    4ċ
Inf. UR
                                   1st Pret. UR
                                                            sVh+an
                  seh+an
                                           Inf. suffix deletion sVh
    Breaking
                  seoh+an
                                           SR
                                                            sVh (=seah)
    Loss of /h/
                  seo+an
    Vowel contraction
                         seon
    SR
                  seon
                                  Past Ptc. UR
2nd Pret. UR
                  sVh+on
                                                            sVh+en
                                            Verner's Law II sVg+en
         Verner's Law II sVg+on
                                            SR
                                                            sVgen (=segen)
                  sVgon (=sægon)
         SR
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5b. slean 'strike', derived from slæhan (Goth)
Inf. UR
                        Slæh+an
     Breaking
                        sleah+an
     Loss of /h/
                        slea+an
     Vowel contraction slean
                        slean
     SR
1st Pret. UR
                               slVh+an
         Inf. suffix deletion
                               slVh
          Verner's Law I
                               slVa
         Grimm's IV
                               slVg
          SR
                               slVa
                                     (=slog)
                               sloh is another pret. form of the verb.
2nd Pret, UR
                               slVh+on
          Verner's II
                               slVg+on
          SR
                               slVgon (=slogon)
Past Ptc. UR
                               slVh+en
          Verner's II
                               slVg+en
          SR
                               slVgen (=slagen)
     From the above three examples, it stands to reason that a verb with internal
g frequently has -h in the preterit singular.
     5c. hebban 'raise', derived from hafjan (Goth)
Inf. UR
                               hafi+an
    i-umlaut
                               hafj+an
     Verner's Law I
                               hebj+an
    Consonant doubling
                               hebbi+an
     Loss of /j/
                               hebb+an
    Grimm's Law IV
                               hebb+an
     SR
                               hebban
Ist Pret. UR
                                              hVbb+an
         Inf. suffix deletion
                                              hVbb
         /bb/ alternates with /f/
                                              hVf
                                                     (=hof)
2nd Pret. UR
                                              hVbb+on
         /bb/ alternates with /f/
                                              hVf+on
         SR
                                              hVfon
Past Ptc. UR
                                              hVbb+en
                                                          (=hofon)
         /bb/ alternates with /f/
                                              hVf+en
                                              hVfen
                                                          (=hafen)
     6c. fon 'seize', derived from fanxan (Prim. Germ.)
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Inf. UR fanx+an Loss of /x/fa+an Vowel contraction fan fon Back vowel raising 1st Pret. UR fVnx+anInf. suffix deletion $fV\eta x$ Extention of Verner's Law fVng fVng (=feng) SR 2nd Pret. UR $fV\eta x + on$ Extention of fVng+on Verner's Law fVngon (=fengon) SR Past Ptc. UR $fV\eta x + en$ Extention of fVng+en Verner's Law (=fangen) fVngen SR 7b. fealdan 'fold', derived from $fal\theta$ an (Goth) falθ+an Inf. UR feal θ +an Breaking 1θ becomes 1d feald+an fealdan SR

In order to account for other phonological rules, the verbs like sniðan 'cut' and ceosan 'choose' are cited as examples.

**************************************	Inf.	1st Pret.	2nd Pret.	Past Ptc.
UR	snVt+an	snVt	snVt+on	snVt+en
Grimm's Law II	$snV\theta$ +an	$\mathrm{snV} heta$	$snV\theta$ +on	$snV\theta$ +en
Verner's Law I		****	snVð +on	snVð +an
Grimm's IV			snVd+on	snVd+en
Intervocalic	snVð+an	*****		
voicing				
SR	sn Vð an	snV heta	snVdon	snVden
	(=snīðan)	$(=\sin a\theta)$	(=snidon)	(=sniden)
	Inf	1st Pret.	2nd Pret.	Past Ptc.
UR	ċVs+an	ċVas	cVs+on	cVs+en
Verner's Law I			cVz+on	cVz+en
Rhotacism			cVr+on	cVr+en
SR	ċVsan	ċVas	cVron	cVren
	(=ceosan)	(=ċēas)	(=curon)	(=coren)

It is worth noting that Verner's Law forms occur in the following verbs, similar to the sound changes above.

liean 'go', dreosan 'fall', freosan 'freeze', hreosan 'fall',

leosan 'lose', seo θ an 'boil', weor θ an 'become',

feolan 'press on', cwe θ an 'say', leon 'lend',

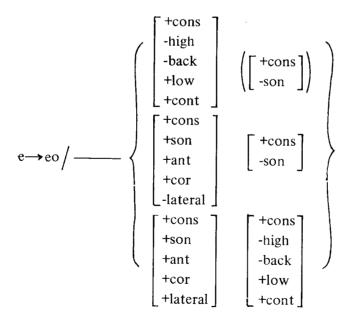
teon 'accuse', wreon 'cover', fleon 'flee', lean 'blame',

slean 'strike', seon 'see', fon 'seize', hon 'hang'

There are a number of exceptions to Verner's Law - the following verbs without Verner's Law forms where they might be excepted.

risan 'rise', $mi\theta$ an 'avoid', $wrie\theta$ an'to twist', $abreo\theta$ an 'to ruin'

- 2.3 Vowels. To understand the variations in the strong verbs, we need to know something about certain vowel sound changes occurring within the Old English period. I propose to display some alternations and provide an explanation for the variations.
 - (1) Breaking: the diphthongization of a front vowel a. before h, h+cons., lh



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b before h, h+cons., r+cons. 1+cons

c. before h and h+cons

(2) Vowel contraction: Loss of /h/ and compensatory legnthening vowel contraction took place in OE when intervocalic h had disappeared. A long vowel or a long diphthong absorbed a following short vowel.

$$\begin{bmatrix} +\cos s \\ -high \\ -back \\ +low \\ +cont \end{bmatrix} \begin{bmatrix} -\cos s \\ +syl \end{bmatrix} \longrightarrow \phi / \begin{bmatrix} -\cos s \\ +syl \\ +long \end{bmatrix} \begin{pmatrix} \begin{bmatrix} -\cos s \\ +syl \end{bmatrix} \end{pmatrix} \longrightarrow \begin{bmatrix} +\cos s \\ -\sin s \end{bmatrix}$$

(3) Vowel-height assimilation

A process of height assimilation takes place between the second (non-syllabic) element of the diphthong and the first.

$$\begin{bmatrix} -\cos s \\ +syl \end{bmatrix} \longrightarrow [\alpha \text{ high }] / \longrightarrow \begin{bmatrix} -\cos s \\ -syl \\ \alpha \text{ high } \end{bmatrix}$$

(4) The vocalization of semivowels

Semivowels are vocalized in certain contexts.

$$\begin{bmatrix} -\cos s \\ -syl \end{bmatrix} \longrightarrow \begin{bmatrix} -\cos s \\ +syl \end{bmatrix} / \begin{bmatrix} +\cos s \\ -son \end{bmatrix} (\begin{bmatrix} -\cos s \\ +syl \end{bmatrix}) \longrightarrow \begin{bmatrix} +\cos s \\ -son \end{bmatrix}$$

(5) Lengthening

Vowels are lengthened by the elimination of semivowels.

$$\begin{bmatrix} -\cos s \\ +syl \end{bmatrix} \qquad \begin{bmatrix} -\cos s \\ -syl \end{bmatrix} \longrightarrow \begin{bmatrix} -\cos s \\ +syl \\ +long \end{bmatrix}$$

(6) High vowel-lowering

The high vowels are lowered one degree of middle if followed by a consonant except nasals, and a vowel.

$$\begin{bmatrix} -\cos s \\ +syl \\ +high \end{bmatrix} \longrightarrow \begin{bmatrix} -\cos s \\ +syl \\ -high \\ -low \end{bmatrix} / \longrightarrow \begin{bmatrix} +\cos s \\ -son \end{bmatrix} \qquad \begin{bmatrix} -\cos s \\ +syl \end{bmatrix}$$

(7) Fronting.

By this rule, low back vowels are moved to a low front position.

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(8)
$$i \longrightarrow ew / \longrightarrow w$$

$$\begin{bmatrix} -\cos s \\ +syl \\ +high \\ -back \end{bmatrix} \longrightarrow \begin{bmatrix} -\cos s \\ +syl \\ -high \\ -back \end{bmatrix} - \begin{bmatrix} -\cos s \\ -syl \\ +back \end{bmatrix} / \longrightarrow \begin{bmatrix} -\cos s \\ -syl \\ +back \end{bmatrix}$$

(9) 1 > ul, r > ur, m > um, n > un, 1 > lu, r > ru, m > mu, n > nu
This rule means in Old English a liquid may become the vowel <u>u</u> immediately followed by a liquid, or a liquid followed by u.
1

(10) I-umlaut (front mutation)

The term 'umlaut' in Modern English derives from the German \underline{um} meaning 'about' and \underline{laut} , signifying 'sound'. I-umlaut is a change in quality of an accented vowel by an i or j (=y) in the following syllable.

$$\begin{bmatrix} +syl \\ -cons \\ +back \end{bmatrix} \longrightarrow [-back] / \longrightarrow \begin{bmatrix} +cons \\ -son \end{bmatrix} \begin{bmatrix} -cons \\ +high \\ -back \end{bmatrix}$$

(11) Palatal diphongization

If $\underline{\dot{g}}$, \dot{c} , or $\underline{\dot{sc}}$ precedes the front vowels \underline{e} , $\underline{\dot{x}}$ or $\underline{\dot{x}}$, a glide develops between the consonant and the vowel which then coalesces with the original vowel to form the diphthongs ie, ea and \overline{e} a respectively.

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$$\begin{bmatrix} -\cos s \\ +syl \\ -back \end{bmatrix} \longrightarrow \begin{bmatrix} -\cos s \\ -syl \end{bmatrix} \qquad \begin{bmatrix} -\cos s \\ +syl \\ -back \end{bmatrix} \qquad / \qquad \begin{bmatrix} -son \\ -ant \end{bmatrix} \longrightarrow$$

(12) Restoration of a

æ becomes a if followed by a single consonant and a back vowel.

$$\begin{bmatrix} -\cos s \\ +syl \\ -back \\ +low \end{bmatrix} - back - cons \\ -son \end{bmatrix} \begin{bmatrix} -\cos s \\ +syl \\ +back \end{bmatrix}$$

(13) $e > \overline{\overline{x}}$, $a > \overline{0}$

$$\begin{bmatrix}
-\cos s \\
+ syl \\
\alpha low \\
\alpha back \\
-high \\
-round
\end{bmatrix} / - - \begin{bmatrix}
\beta low \\
\alpha round \\
+ long
\end{bmatrix} / - - \begin{bmatrix}
\beta son \\
+ cons
\end{bmatrix}$$

(14) Nasal-raising: Mid vowels are raised to the height position by the influence of nasals.

$$\begin{bmatrix} -cons \\ +syl \\ -high \\ -low \end{bmatrix} \longrightarrow [+high] / \longrightarrow \begin{bmatrix} +cons \\ +son \\ +nasal \end{bmatrix}$$

(15) Front vowel raising

(16) Back vowel raising

(17) æ becomes a before /w/

$$\begin{array}{c|c}
-\cos s \\
+syl \\
-back \\
-low \\
+long
\end{array}
\longrightarrow [+back] / ----- \begin{bmatrix}
-\cos s \\
-syl \\
+back \\
+high
\end{bmatrix}$$

2.4 Practical applications. Based on the languages such as Gothic, a phonological motivation for the root vowel preceding the Inf. Pret, Part-forming suffixes can be postulated. The following table abstracted from Wright (1914:28) contains the normal development of the vowel-system in Goth. and OE root-syllables:

P. Germ.	a	e	i	o	u	a	æ	e	i	0 0	u	ai	au	eu	iu
Goth	a	i	i	u	u	a	ē	ē	ei		u	ái	áu	iu	iu
OE	æ	e	i	0	u	ō	ā	ē	ī	<u></u>	ū	ā	- ea	ēo	īo

For the purpose of dealing with the ablaut variations of Old English strong verbs, their underlying and surface representations, and their Gothic cognates are provided.

	Inf.	1st Pret.	2nd Pret.	Past Ptc.
Gothic	beidan	baip	bidun	bidans
la. OE UR	beyd+an	bayd	byd+un	byd+ans
Vowel-height assimilation	bidy+an			
Lengthening	bid+an	bad		
Vocalization of semivowels			bid+un	bid+ans
Suffix changes OE SR	 bidan	 b <u>a</u> d	bid+on bidon	bid+en biden

Similarly acwinan 'dwindle away', behlidan 'cover', bitan bite', blican 'shine', cinan 'crack', flitan 'strive', migan 'make water'

Note: Inf forming suffix Pret, forming suffix Part suffix

Goth -an -un -ans

OE -an -on -en

1b.		Inf	1st Pret.	2nd Pret.	Past Ptc.
	OE UR	see p.7	wrayh	wryg+un	wryg+ans
	Lengthening		wr a h		
	Vocalization			wrig+un	wrig+ans
	of semivowels				
	Suffix changes			wrig+on	wrig+en
	OE SR	wreon	wr a h	wrigon	wrigen
	Similarly teon 'acc	cuse',			
	Gothic	biudan	bauo	budun	budans
2a.	OE UR	biwd+an	bawo	bwd+un	bwd+ans
	i > ew	bewwd+an			
	Fronting		bæwo		
	Lenghening	bewd+an	bæo (æ=ēa)		
	Vocalization	beud+an		bud+un	bud+ans
	of semivowels				
	High vowel-	beod+an			bod+ans
	lowering				
	Suffix changes			bud+on	bod+en
	OE SR	beodan	bead	budon	boden
	Similarly breotan	'break', çlēo	fan 'cleave asu	nder', reodan 'r	eeden'
		•			
2b.	OE UR	bruwc+an	brawc	brwc+un	brwc+ans
20.	Fronting	bruc+an	bræc	****	
	Lengthening	orac an			
	Vocalization			bruc+un	bruc+ans
	of semivowels				
	High vowel-				broc+ans
	lowering				
	Suffix changes			bruc+on	broc+en
	OE SR	brucan	breac	brucon	brocen
	Similarly dufan 'd				
	Gothic	bindan	band	bundun	bundans
3a.	OE UR	bind+an	band	bnd+un	bnd+ans
	n > un			bund+un	bund+ans
	Suffix changes			budn+on	budn+en
	~				
	OE SR	bindan	band	bundon	bunden

Similarly climban 'climb', clingan 'shrink', crimman 'insert'

		Inf.	1st Pret.	2nd Pret.	Past Ptc.
	Gothic	hilpan	halp	hulpun	hulpans
3b.	OE UR	hilp+an	halp	hlp+un	hlp+ans
	Fronting		hælp		-
	Breaking		healp		
	1 > ul			hulp+un	hulp+ans
	High vowel-	help+an			holp+ans
	lowering				_
	suffix changes			hulp+on	holp+en
	OE SR	helpan	healp	hulpon	holpen
	Similarly belgan	'swell with	anger', delfan	'dig', meltan 'm	nelt'
3c.	OE UR	werp+an	warp	wrp+un	wrp+ans
	Fronting		wærp		
	Breaking	weorp+an	wearp		
	r > ur			wurp+un	wurp+ans
	High vowel-				worp+ans
	lowering				-
	Suffix changes	***		wurp+on	worp+en
	OE SR	weorpan	wearp	wurpon	worpen
	Similarly, aseolcan	'languish', b	eorcan 'bark',	beorgan 'protec	t'
					`
3d.	OE UR	spurn+an	sparn	sprn+un	sprn+ans
	Fronting		spærn		
	Breaking		spearn		
	r > ur			spurn+un	spurn+ans
	High vowel-				sporn+ans
	lowering				
	Suffix changes			spurn+on	sporn+en
	OE SR	spurnan	spearn	spurnon	spornen
	Spurnan is used as	an infinitive	instead of spo	ornan. In a cer	tain number of
word	s o becomes u in O	E, especially	before and after	er labials.	
3e.	OE UR	stregdan	stragd	strgd+un	strgd+ans
	Fronting		stregd		

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	r > ur			strugd+un	strugd+ans
	High vowel-				strogd+ans
	lowering				
	Suffix changes			strugd+on	strogd+en
	OE SR	stregdan	strægd	strugdon	strogden
	Similarly bregdar	'brandish',	berstan 'bur	st'	
	Gothic	bairan	bar	berun	baurans
4a.	OE UR	ber+an	bar	ber+un	br+ans
	Fronting		bær		
	r > ur				bur+ans
	High vowel-				bor+ans
	lowering				
	$\mathrm{e}>\overline{\bar{x}}$			bær+un	
	Suffix changes			bær+on	bor+en
	QE SR	beran	bær	$b\overline{\overline{\mathbf{e}}}$ ron	boren
	Similarly cwelan	'die', helan '	conceal', ter	an 'tear', stelan 'st	eal'
4b.	Gothic	mitan	mat	metun	mitans
	OE UR	met+an	mat	met+un	mit+ans
	Fronting		mæt		
	$e > \overline{\overline{x}}$			mæt+un	
	High vowel-				met+ans
	lowering				
	Suffix changes			mæt+on	met+en
	OE SR	metan	mæt	mæ̃ton	meten
	Similarly brecan '	break', screp	an 'scrape',	swefan 'sleep', wre	
4c.	OE UR		sah	seh+un	sih+ans
	Fronting		sæh		
	Breaking		seah		
	Verner's Law			seg+un	sig+ans
	$e > \overline{\overline{x}}$			sæg+un	
	High vowel-				seg+ans
	lowering				~-D 4113
	Suffix changes			sæg+un	seg+en
	OE SR	seon	seah	sægon	segen
	Gothic	bidjan	ba $ heta$	bedun	bidans
					Cidailo

4d.	OE UR	bidjan	bad	bed+un	bid+ans
	Consonant doubling	biddjan			
	Loss of /j/	biddan			
	Fronting		bæd		
	$e > \overline{\overline{x}}$			bæd+un	
	High vowel-		-		bed+ans
	lowering				5 54 - 4 115
	Suffix changes			hæd+on	bed+en
	OE SR	biddan	bæd	bædon	beden
	Similarly sittan 'si	t', licgan 'lie	e down'		
	Gothic	faran	for	forun	farans
5a.	OE UR	faran	f o r	for+un	far+ans
	Fronting	færan			fær+ans
	Restoration	faran			far+ans
	of <u>a</u>				
	Each a underg	goes fronting	but this is late	r cancelled by	the operation of
	the restoration	n of <u>a</u> .			
	Suffix changes			for+on	far+en
	OE SR	faran	for	foron	faren
	Similarly alan 'grov	w', bacan 'bal	ke', galan 'sing'	, grafan 'dig'	•
5b.	OE UR	slahan	sloh	sloh+un	slah+ans
	Verner's Law		slog	slog+un	slag+ans
	Fronting	slæhan			slæg+ans
	Breaking	sleahan			
	Restoration				slag+ans
	of <u>a</u>				
	Loss of /h/	sleaan			
	Vowel	slean			
	contraction				
	Suffix changes		_	slog+un	slag+ans
_	OE SR	slean	slog	slogon	slagen
5c.	OE UR		hof	hof+un	haf+ans
	Fronting				hæf+ans
	Restoration			hof+on	haf+ans
	of <u>a</u>				

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	Suffix changes		Market App 1889		haf+en
	OE SR	hebban	hof	hofon	hafen
5d.	GE UR	skapjan	skop	skop+un	skap+ans
	Fronting	skæpjan	# w.m.		skæp+ans
	Consonant	skæppjan			
	doubling				
	Loss of /j/	skæppan			
	Palatal	sceappan	en co en en		sceap+ans
	diphthongization				
	I-umlaut	sċieppan			
	Suffix changes			scop+on	sceap+en
	OE SR	sċieppan	scop	scopon	sċeapen
5e.	OE UR	stapjan	st o p	stop+un	stap+ans
	Consonant	stappjan			
	doubling				
	Loss of /j/	stappan			
	Fronting	stæappan			stæp+ans
	Suffix changes			stop+on	stæp+en
	OE SR	stæppan	stop	st o pon	stæpen
	Gothic	qiman	qam	qēmun	qumans
5f.	OE UR	ceman	cam	cæm+un	cm+ans
	m > um				cum+ans
	Nasal raising	ciman	# A		
	Restoration			cam+un	
	of <u>a</u>				
	$a > \overline{o}$		com	com+un	
	Suffix changes	***		com+on	cum+en
	OE SR	cuman	com	comon	cumen
	Gothic	niman	nam	nēmun	numans
5g.	OE UR	neman	nam	næm+un	nm+ans
	m > um		with affirmations	****	num+ans
	Nasal raising	niman			
	Restoration			nam+un	
	of <u>a</u>				
	$a > \overline{o}$		nom	nom+un	
	Suffix changes			nom+on	num+en
	OE SR	niman	nōm	nōmon	numen

Note that historical support for the change from ciman to cuman may be found in Campbell's Old English Grammar. "OE was clearly derived from a

						
		Inf.	1st Pret.	2nd Pret.	Past Ptc.	
	Gothic	haitan	haihait			
6a.	OE UR	haytan	hayt	heyt+un	hay t+ans	
	Lengthening	hatan	hat	het+un	hat+ans	
	Fronting		hæt	~~~		
	Front vowel		hēt			
	raising					
	Suffic changes			het+on	hat+en	
	OE SR	hātan	hēt	heton	haten	
	Similarly lacan 'pla	y', scādan 'se	eparate'			
	Gothic	letan	lailot			
6b.	OE UR	leytan	layt	leyt+un	layt+ans	
	Lengthening	lētan	lāt	lēt+un	lat+ans	
	$e > \overline{\overline{x}}$	lætan				
	Fronting	77. NO 100 100	læt		læt+ans	
	Front vowel		let			
	raising					
	Suffix changes			let+on	læt+en	
	OE SR	lætan	let	leton	læten	
Similarly rædan 'advise', blandan 'mix'						
6c.	OE UR	See p. 9	feyng	feyngon	fangen	
	Lengthening		feng	fengon	fangen	
	OE SR	fon	feng	fengon	fangen	
	Wagner (1969	207) formu	ilates the follo	wing rule which	ch accounts for	

Wagner (1969:207) formulates the following rule which accounts for the exceptional past stems of blandan, fon and hon.

$$/e/\longrightarrow /\overline{e}/$$
 / $\left\{\begin{array}{ll} bl \longrightarrow nd \\ f \longrightarrow ng \\ x \longrightarrow ng \end{array}\right\}$

Similarly hon 'hang'

7a.	OE UR	bannan	biwnn	biwnnon	bannen
	$i \rightarrow ew/-w$		bewwnn	bewwnnon	
	Lengthening		bewnn	bēwnnon	
	Vocalization		beunn	beunnon	
	of sen ivowels				
	High vowel		beonn	beonnon	
	lowerir g				

7b.	OE SR Gothic	bannan fal $ heta$ an	beonn	beonnon	bannen
, 0.	OE UR	fæl θ san	fiwl θ	fiwl θ on	Grant 1
	$1\theta > 1d$	fældan	fiwld		fælden
	Breaking		nwia	fiwldon	fælden
	-	fealdan			fealden
	i→ew/—w		fewwld	fewwldon	
	Lengthening		fewld	fewldon	
	Vocalization		f e uld	feuldon	
	of semivowles		. 		
	High vowel		feold	feoldon	
	lowering		_	_	
	OE SR	fe <u>al</u> dan	feold	feoldon	fealden
7c.	Gothic	blæwan			
	OE UR	blæwan	bliww	bliwwon	blæwen
	$\bar{a} > \bar{a}$ before w	blawan			blawen
	$i \rightarrow ew/w$		blewww	blewwwon	
	Lengthening		bleww	blewwon	
	Vocalization		bleuw	bleuwon	
	of semivowels				
	High vowel		bleow	bleowon	
	lowering				
	OE SR	blawan	bleow	bleowon	blawen
7d.	OE UR	batan	biwt	biwton	baten
	Fronting	bætan (æ=	ea)		bæten
	i→ew/w		bewwt	bewwton	
	Lengthening		bewt	bewton	
	Vocalization		beut	beuton	
	of semivowles			ocuton	
	High vowel		beot	beoton	
	lowering		2 001	beoton	
	OE SR	beatan	beot	beoton	beaten
7e.	OE UR	blatan	bliwt	bliwten	blaten
	Back vowel	blotan		onwien	_
	raising	olotali			bloten
	i→ew/—w		blewwt	blewwten	
	Lengthening		blewt		
	Vocalization		bleut	blewten	
	of semivowels		oieut	bleuten	
	High vowel		bloot	1.1	
	=		bleot	bleoten	
	lowering				

OE SR blotan bleot bleoton bloten

According to the above analysis, la-b belong to I of the traditional scheme, 2a-b belong to II; 3a-e to III; 4b-d to V; 5a-e to VI. 5f-g to IV, and all forms in 6 and 7 to VII.

FOOTNOTES

- 1. Richards (1972:84).
- 2. Campbell (1959:44).

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