## File 10.13

# Germanic Consonant Shifts

Proto-Indo-European had three series of stop consonants: a voiceless series, \*p, \*t, \*t; a voiced series, \*t, \*t, \*t; and a series of (so-called) voiced aspirates written \*t, \*

Proto-Indo-European:	*p	*t	*k	*b	*d	*g	*bh	*dh	*gh
	$\downarrow \downarrow$	$\Downarrow$	$\downarrow$	$\Downarrow$	$\downarrow$	$\Downarrow$	$\!$	<b>↓</b>	$\Downarrow$
Germanic:	f	θ	x	р	t	k	b	d	g

This change is known as **Grimm's Law** and is one of the changes that distinguishes the languages of the Germanic subgroup from all other Indo-European language groups. That is to say, every Germanic language will show a different set of developments in the Proto-Indo-European (PIE) sounds. Examples of words affected by Grimm's Law are listed below.

PIE	Non-Germanic	Germanic (English)
* <i>p</i> əter * <i>t</i> rei- * <i>k</i> erd	pater (Latin) tres (Latin) kardia (Greek)	father three heart
*leb- *dekm *g <sup>w</sup> ena	labium (Latin) decem (Latin) gyne (Greek)	lip ten queen
*bhratēr *dh <u>e</u> *ghos-ti	<pre>bhratar (Sanskrit) facere (Latin) hostis (Latin)</pre>	<i>b</i> rother <i>d</i> o <i>g</i> uest

Modern High German has undergone a second consonant shift similar to the first in nature; this **second Germanic consonant shift** differentiates the High German dialects from other Germanic dialects and languages. Thus, only High German will exhibit evidence of the shift.

The second consonant shift was a rather complicated change. The figures below captures the major changes but omits certain details.

#### Proto-German

### High German

*p *t	>	After Vowels f	<u>Elsewhere</u> pf	
*k *d	> >	s x t	ts k (but kx in some dialects)	)

Consider the following examples of the correspondence between Modern English, which did not undergo the second shift, and Modern German, which, of course, did undergo the shift.

Modern English	Modern German
open	offen
path	$p_{fad}$
bite	beissen
to	zu (z = [ts])
book	Buch (ch = [x])
come	kommen
ride	rei <i>t</i> en
door	Tür

Based on the statement of the changes and the examples cited above, what sound in Modern German would correspond to the italicized Modern English sounds?

Modern English	Modern German
flood	Flu
shi <i>p</i>	Schi
eat	een
reckon	renen
ha <i>t</i> e	Ha

Now, given the italicized Modern German sounds, what would the corresponding sound be in Modern English?

Modern German	Modern English
Griff Herz Fuss machen (ch = [x]) waffenlos Pflug	gri hear foo mae weaonless low

### A COMPANION TO HISTORY OF THE ENGLISH LANGUAGE

the first is the basic uninflected form and the second is the form to which the English word is more closely related.<sup>4</sup> To complete the last column, see exercise 4 below.

Indo-European⁵	Germanic	Old English	Modern English	Borrowing from Latin
*pisk-	*iska-	isc	ish	
*ter-, *ter-sk- 'to rub, thresh'	*ersk-	erscan	resh	7
*kerd-, *kerd-en-	*ertōn	eorte	eart	
*beu- 'to swell'	*uk-	yffan	uff	
*dent-, *dont-	*anthus	ōþ	_ooth	
*gel- 'cold; to freeze'	*ōl-	ōl	_ool	1-41
*bhreg-	*rekan	recan	reak	- aci
*dhē, *dhō- 'to set, put'	*ōn	ōn	o	Sec. 3
*ghos-ti-	*astiz	estr <sup>6</sup>	uest	h
*ters-, *trs-t- 'to dry'	*urs-tu-	urst	irst	
*dhwer-, *dhur-	*uram	or	oor	-
*ker-, *kr̥-n-	*urnaz	_orn	orn	
*grə-no- 'grain'	*ornam	orn	orn	graphic in the second
*kaput	*aubidam	ēafod	ead	4.360
*bher- 'to carry; to bear children'	*eran	eran	ear	
*pleus- 'to pluck; feather, fleece'	*liusaz	lēos	leece	7 C. C. D. C.
bhedh- 'to dig'	*adjam 'garden plot'	edd	ed	
*dekmੵ	*ehun	īen	en	COVI IA
ger- 'to cry hoarsely'	*rē	rāwe	row	/
trei-	*rijiz	rīe	ree	151

<sup>&</sup>lt;sup>4</sup>The source for the items in this exercise is the appendix entitled "Indo-European Roots" of *The American Heritage Dictionary of the English Language*, 4th ed. (New York: American Heritage Publishing Co. and Houghton Mifflin, 2000).

<sup>&</sup>lt;sup>5</sup>The Indo-European roots given here without a gloss have at least one meaning the same as that of the Modern English form.

<sup>&</sup>lt;sup>6</sup>This word is not a native Old English word but an Old Norse borrowing in Middle English.

## THE INDO-EUROPEAN FAMILY OF LANGUAGES

Indo-European	Germanic		Mad	
*genə, *gn-yo- 'to give birth'	*_unjam	Old English	Modern English	Borrowing
	'family'	_ynn	in	from Latin
*deik-, *deig- 'to show,	*aikjan		de la companya de la	
pronounce'	Private and	_æcan	_each	
*kel-, *kl -ni-	*			
*teuə-, *tum-	*_ulni-	_yll	_i11	
'to swell'	*ūmōn	_uma 'thick	umb	
*pau-	*_awaz	finger'		
*bhlē-		ēawe	ew	
ten-, *tn-u-	*_lē-w	lāwan	_low	18 19 19 18
'stretched, thin'	*_unniz	ynne	in	
ʻped-, *pōd	*_ōt-	ōt	oot	and the second
genu-, *gneu-	*niwam	nēo	oot nee	1 1 1

**4.** Although the Germanic part of what eventually became the English vocabulary underwent the First Sound Shift, thousands of words have entered the English language in the centuries afterwards. Borrowings from Latin illustrate clearly the effects of Grimm's Law by the changes that did *not* happen to them. Many of the Latin borrowings retain the original Indo-European consonants: [p], [t], and [k], for example, remained [p], [t], and [k] in Latin ([k] being spelled c), and [b], [d], and [g] remained [b], [d], and [g]. Indo-European [bh] and [dh] became Latin [f], and [gh] became [h]. The Latin words listed below are given with a gloss and, in boldface type, an English borrowing based on the Latin, either directly or through Romance languages. Match the borrowed words with the English words that derive ultimately from the same Indo-European root by writing the boldfaced Modern English borrowings in the last column of question 3, above.

dēns 'tooth': dental
caput 'head': capital
piscis 'fish': Pisces
facere 'to do, make': fashion
glaciēs 'ice': glacial
torrēre 'to dry, parch, burn':
torrid

bucca '(inflated) cheek': buccal frangere 'to break': fracture pēs (stem ped-) 'foot': pedal culmen 'top, summit': culminate grāculus 'jackdaw': grackle forās 'out of doors': foreign tendere 'to stretch, extend': extend

plūma 'a feather': plume

grānum: grain
paucus 'little, few': paucity
dīcere 'to say, tell': dictate
cor 'heart': cordial
fodere 'to dig': fossil
trēs 'three': trio
genu 'knee': genuflect
terere 'to rub away, wear out':
trite
decem 'ten': decimal
flare 'to blow': inflate
tumēre 'to swell': tumescent
cornū 'horn': cornet

genus 'race, kind': genus ferre 'to carry': fertile hostis 'enemy': host