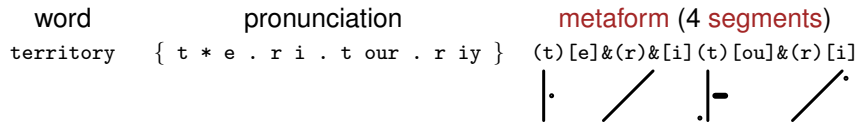
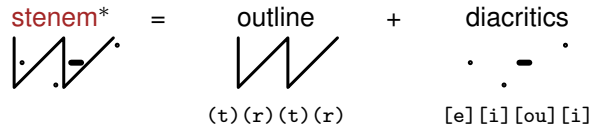
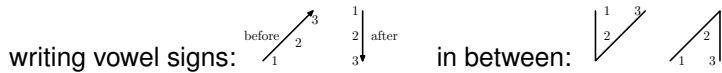


# Pitman Shorthand: Basics



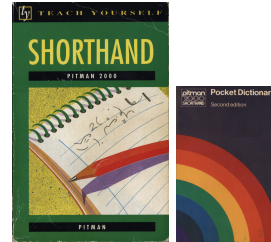
strokes = consonant signs, e.g. (t), (r): | /



\*a glyph of one or more words phonetically written in Pitman shorthand = consonantal + vowel part

# Writing Pitman Shorthand with METAFONT and L<sup>A</sup>T<sub>E</sub>X

- Pitman shorthand\* → Pitman 2000: simplified alphabet, phonetic writing, short forms and phrases

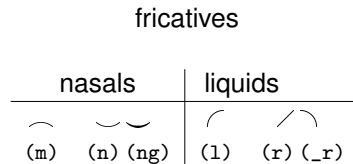
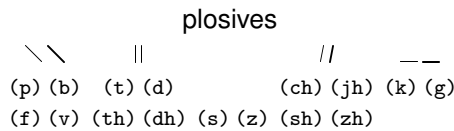
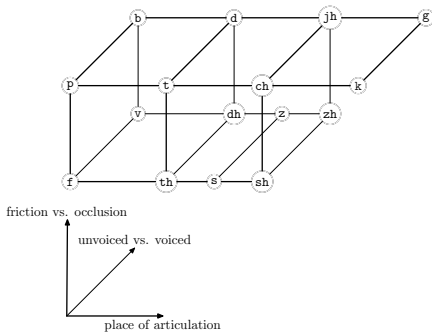


- text2Pitman: <http://www3.rz.tu-clausthal.de/~rzsjs/steno/Pitman.php> and [DEK.php](#), [Gregg.php](#), [Suetterlin.php](#)

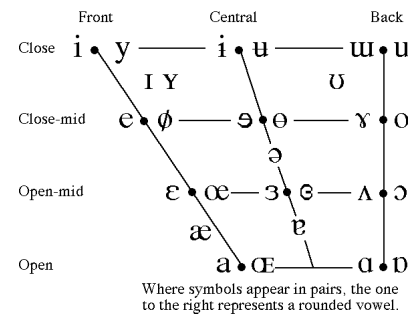
\*1837

†S. J. Šarman, Computing Centre, Clausthal University of Technology, Germany

# Consonant Signs: Strokes



# Vowel, Diphtong and Triphone Signs



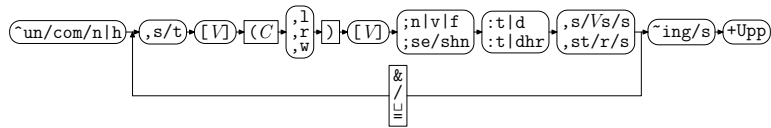
Jones IPA vowel quadrilateral



	place	back	front
open	1st	[a] [ah]	[o] [oo]
		"at" "pa"	"odd" "saw"
↓	2nd	[e] [ei]	[uh] [ou]
		"ed" "aid"	"up" "no"
close	3rd	[i] [ii]	[u] [uu]
		"ill" "eel"	"took" "coup"
<b>diphtongs</b>			
	1st	[ai] "my"	[oi] "joy"
	3rd	[ow] "out"	[yuu] "few"

## Segments\*

vowel::= a|aa|o|oo | e|ei|uh|ou | i|ii|u|uu | ai|oi | ow|yuu  
 conso::= b|p | d|t | v|f | dh|th | zh|sh | ng|n | m | l | r | w | hw | y | h



size:  
 (l)[ei]:t (l)[ei] (l)[ei]:tr (m)[ii]:t (m)[ii] (m)[ii]:tr  
 prefixes:  
 (p,r)[ei] (f,r)[ii] (p,l)[ei] (f,l)[ii] ,s[u](p) ,st[e](p)  
 suffixes:  
 ,s(p,r)[ei] ,s[uh](p,l) (p)[ii],s (p)[ii],sis (p)[ou],st (p)[ou],sts  
 (m)[aa],str (p)[e];n (p)[e];n,s (p)[uh];f (p)[uh];f,s (p)[a];shn (p)[a];shn,s  
 \*3 × 2<sup>4</sup> × 2<sup>4</sup> forms possible

340

## Stenems: Dis/joining Segments

morphological affixes: ^com[o] (n) (g)[ou]~ing [a] (n)+Upp  
 numbers, past tense: 24 (\_two\_) (\_four\_) [aa] (s)&(k)/(t) (sh)[ou]/(d)  
 intersections: tax form company boom successfull company  
 left vs. right , s: cassette unsafe traceable desk bestow  
 n/m, cusps: testimony number figure reply stenographers  
 misc: writer×type~ original machines statistics senseless

360

## text2Pitman

input: Do you think, at your age, it is right? → tokenizer →  
 → do you think, at your age, it is right?

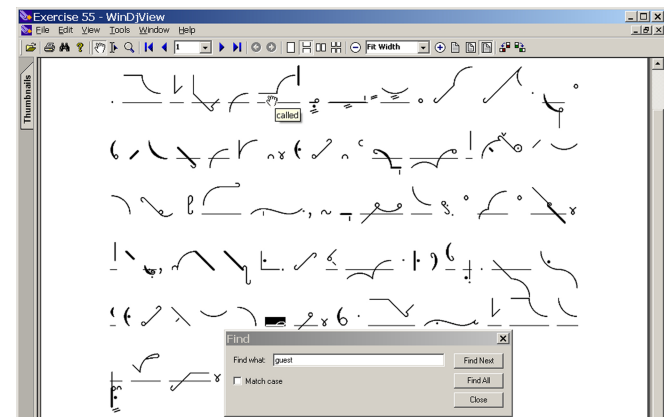
Unisyn lexicon → stenemizer → mf run →

token	pronunciation	metaform	stenem
1 ,		(_comma_)	,
2 ?		(_question_)	?
3 age	{ * ee jh }	[ei](jh)	/
4 at	{ * a t }	[a](t)	!
5 do you		(d)&(_u_)	h
6 it is		(t),s	h
7 right	{ r * ai t }	(r)[ai]&(t)	!
8 think		(th)	(
9 your		(_r)	\

mf-file: beginS(7);I(r,,);V(ai,-1);J;I(t,,);J;endS; %right  
 latex → dvips → gs → ppmtogif

400

## dvitype-clone → DjVu\*



(Writing) exercise with keys

\*Annotated, searchable DjVu files (viewable also with a DjVu browser plugin)

6