

Document #**Date: 2016-05-01****Title: Encoding Pitman Shorthand scripts into Unicode Character Set****Source: Pitman scripts and its adaptation over years****Author: Ramachandran Rajaram****Status: Individual contribution for consideration / review by UTC****Replaces: [L2/15-116r]****Revision History**

Date	Revision Description	Comments / Review by	Document Status
2016-05-01	<ol style="list-style-type: none"> 1. <u>Appendix – A</u> (p. 40,41) contains Glyphs which were identified as contextual forms of underlying letters, removed in this version †† 2. *158 and 159 have typos: correct INITITAL to INITIAL †† 3. *156 should be: PITMAN SYMBOL LEFT PARENTHESES †† 4. *157 should be: PITMAN SYMBOL RIGHT PARENTHESES †† 5. Page 2, last § in earlier version was removed and rewritten †† 6. Page 3, last § in earlier version. Added comments for Pitman glyphs which can be disjoined / intersected †† 7. Representation 1 from earlier version removed. 8. Representation 1.1 renamed as 1. Also, the running script which was depicted using proposed characters are adjusted to show difference between light and heavy strokes and also re-written to contain the vowels (p.23) †† 9. Representation 2 from earlier version removed. 10. Representation 2.1 renamed as 2. Also, the running script which was depicted using proposed characters are adjusted to show difference between light and heavy strokes and also re-written to contain the vowels. (p.24) †† 11. Glyphs as per <u>Appendix – B</u> (p. 42) removed in this version †† 12. Vowel sign light dot resized and contrasted to get distinguished (# 27) 13. Vowel sign heavy dot resized (# 29) 14. Diphthong I, OW, OI adjusted for smooth finish (# 32, # 33, # 34) 15. Character Name, Diphone Sign changed to Diphone Letter (# 36, # 37) 16. Character Name, removed the text "FOR STRAIGHT STROKES" (# 54) 17. Small and Large Circles adjusted by size (# 55, # 56) 18. Character Name, changed from INITIAL K HOOK to KW HOOK (#62) 19. Two logograms WHY and FIRST added to character set (#129 and #130) 	Stanislav Jan Šarman	For review at UTC Meeting [2 nd week of May 2016]

†† Comments by script ad hoc group on their review of [L2/15-116r]†† Comments by Stanislav on his earlier review of [L2/15-116r]

Historical overview of Pitman Shorthand and its adaptations

Pitman Shorthand scripts are widely used in English speaking countries. It is called ‘Phonography’ as it is a system of writing scripts based on pronunciation of English words and not using spelling of the words. Originally developed by the Englishman *Sir Isaac Pitman*, it was published in 1837. Since then, there have been several revisions to the original version for easy adaption.

There are at-least three “dialects” of Pitman’s shorthand: the original Pitman’s, Pitman’s New Era, and Pitman’s 2000. The later versions dropped certain symbols and introduced other simplifications to earlier versions. For example, strokes “rer” (heavy curved downstroke) and “kway,” (hooked horizontal straight stroke) are present in Pitman’s New Era, but not in Pitman’s 2000. The characters that are proposed for encoding (in this proposal) are the consonants, vowels and diphthongs which are *prima facie* the base characters for Pitman Shorthand irrespective of any versions. Pitman's New Era is a fairly old version as compared to Pitman 2000 version. There is subtle difference between these two versions not with respect to base characters but some ligatures. Pitman Scripts described below is based on Pitman’s New Era Shorthand which has been adapted to around 15 Languages (viz., Japanese, Latin, Dutch, German, French, Spanish, Italian, Malay, Welsh, Swahili, Sinhala, Hebrew, Esperanto, Hindi, Portuguese) to name a few.

Unsupported orthographies This proposal encodes Pitman Scripts used for English language. There is a roadmap to encode Pitman Scripts used for other supported languages in future, subject to availability of relevant materials or documentations which is being pursued.

Typology

Pitman Shorthand is a system of representing an English word or set of related English phrases using Consonants and Vowels (cf. Duployan Shorthand). As mentioned earlier, Pitman Shorthand (is based on simple geometric symbols viz., lines and curves) is written phonetically and not using spelling of each letters. Consonants are represented using strokes (Lines and Curves) can be easily differentiated either visually or according to their functionality and Vowels are represented using (Dot and Dash) although there are special vowels or combination of vowels which are described in the subsequent sections. Consonants and Vowels are written following a set of rules and their orientation does not change generally, except for in some cases. Pitman shorthand scripts are written Left to Right proceeding down the page. Scripts belonging to more than one word can be joined together to achieve fast writing of subsequent set of group words (e.g., the phrase, “As a matter of fact” can be combined together and written as a single script even though each word is a separate script).

This proposal document is written in a similar pattern after referring to Duployan proposal document, Code Charts and also other related documentation.

Script Structure

In Pitman Shorthand, there is specific distinction between each Consonants in which some are written with light strokes (e.g., P, T, F, ITH, Kay, M, R) and some with heavy strokes (e.g., B, D, V, THEE, GY, ING) Vowels are represented by Light/Heavy Dot/Dash. There are 12 vowels in total (3 Light dots, 3 Heavy dots, 3 Light dashes and 3 Heavy dashes). There are three positions in which the vowels can be placed for a consonant to form meaningful phonemes. For the purpose of encoding, only 4 vowels are considered (ignoring their relative positions). These four vowels are Light Dot, Light Dash, Heavy Dot and Heavy Dash

In addition to the above vowels, there are certain special vowels called Diphthongs which are used separately or in combination with the vowels. Also, there are separate syllables called Diphones and Triphones. Apart from the original consonants, all these special vowels have separate script in Pitman Shorthand and they are also part of the allocation table.












Pitman Consonant scripts are generally written at the size of 1/6th an inch. For easier representation of words, sometimes the size of the stroke is halved or doubled to add additional Consonant phonemes













Also, there are different variants to Consonant strokes (called dual consonants) which are added to the consonants either at the start or middle or at the end. Those variants are small and large hooks, small and large circles, ST and STR loops, Shun Hooks. These variant characters are not to be written individually but will be forming part of the main Consonant stroke to provide additional phonetic characters in a more convenient way, but following the rules in which they should be used. These variants also have separate character set and will be part of the allocation table.

Pitman Shorthand scripts can be joined together cursively for achieving the speed in writing but maintaining legibility. Wherever required, scripts belonging to more than one word can be joined together in a more flexible way to attain greater speed. Pitman Glyphs can also be dis-joined or intersected.

Pitman characters and their name

Characters of Pitman Shorthand (that are proposed for encoding) are detailed as below:

SL #	Pitman Character	Character Name
1		PITMAN LETTER PEE
2		PITMAN LETTER BEE
3		PITMAN LETTER TEE
4		PITMAN LETTER DEE
5		PITMAN LETTER CHAY
6		PITMAN LETTER JAY
7		PITMAN LETTER KAY
8		PITMAN LETTER GAY
9		PITMAN LETTER RAY
10		PITMAN LETTER WAY
11		PITMAN LETTER YAY

SL #	Pitman Character	Character Name
12		PITMAN LETTER HAY
13		PITMAN LETTER HAY
14		PITMAN LETTER EM
15		PITMAN LETTER EN
16		PITMAN LETTER ING
17		PITMAN LETTER EFF
18		PITMAN LETTER VEE
19		PITMAN LETTER ITH
20		PITMAN LETTER THEE
21		PITMAN LETTER ESS
22		PITMAN LETTER ZEE
23		PITMAN LETTER ISH

SL #	Pitman Character	Character Name
24	↷	PITMAN LETTER ZHEE
25	↶	PITMAN LETTER ELL
26	↵	PITMAN LETTER AR
27	•	PITMAN VOWEL SIGN LIGHT DOT
28	–	PITMAN VOWEL SIGN LIGHT DASH
29	•	PITMAN VOWEL SIGN HEAVY DOT
30	–	PITMAN VOWEL SIGN HEAVY DASH
31	◦	PITMAN INTERVENING DOT VOWEL
32	∨	PITMAN LETTER I UP
33	∧	PITMAN LETTER OW DOWN
34	↗	PITMAN LETTER OI UP
35	∩	PITMAN LETTER EW DOWN

SL #	Pitman Character	Character Name
36	ˆ	PITMAN DIPHONE LETTER FOR LIGHT and HEAVY DOT VOWEL
37	˘	PITMAN DIPHONE LETTER FOR LIGHT and HEAVY DASH VOWEL
38	ˆ˘	PITMAN TRIPHONE LETTER I UP
39	˘ˆ	PITMAN TRIPHONE LETTER OW DOWN
40	ˆ˘˘	PITMAN TRIPHONE LETTER OI UP
41	˘˘ˆ	PITMAN TRIPHONE LETTER EW DOWN
42	ˆ˘˘˘	PITMAN R HOOK FOR LETTER TEE and DEE
43	˘˘˘ˆ	PITMAN R HOOK FOR LETTER EM
44	ˆ˘˘˘˘	PITMAN L HOOK FOR LETTER TEE and DEE
45	˘˘˘˘ˆ	PITMAN L HOOK FOR LETTER EM
46	ˆ˘˘˘˘˘	PITMAN N HOOK FOR LETTER TEE and DEE
47	˘˘˘˘˘ˆ	PITMAN N HOOK FOR LETTER EM













SL #	Pitman Character	Character Name
48	∪	PITMAN F or V HOOK FOR LETTER TEE and DEE
49	∪	PITMAN SHUN HOOK LEFT MOTION FOR LETTER TEE and DEE
50	∪	PITMAN SHUN HOOK RIGHT MOTION FOR LETTER TEE and DEE
51	∪	PITMAN SHUN HOOK FOR LETTER EM
52	∪	PITMAN FINAL SHUN HOOK FOLLOWING CIRCLE ES
53	∪	PITMAN FINAL SHUN HOOK FOLLOWING CIRCLE ES WITH ADDED ES CIRCLE
54	◦	PITMAN SMALL CIRCLE ATTACHED TO HOOKS
55	◦	PITMAN SMALL CIRCLE
56	○	PITMAN LARGE CIRCLE
57	)	PITMAN ST LOOP FOR LETTER TEE and DEE
58	∪	PITMAN ST LOOP INITIAL FOR LETTER EM
59	∪	PITMAN ST LOOP FINAL FOR LETTER EM










SL #	Pitman Character	Character Name
60	)	PITMAN STR LOOP FOR LETTER TEE and DEE
61	⌋	PITMAN STR LOOP FOR LETTER EM
62	⌋	PITMAN INITIAL KW HOOK FOR LETTER KAY
63	⌋	PITMAN INITIAL W HOOK FOR LETTER EL
64	⌋	PITMAN INITIAL WH HOOK FOR LETTER EL
65	⌋	PITMAN INITIAL W HOOK FOR LETTER KAY, GAY, EM, AR and RAY
66	⌋	PITMAN MEDIAL LEFT W HOOK DISJOINED FOR LETTER KAY, GAY, EM, AR and RAY
67	⌋	PITMAN MEDIAL RIGHT W HOOK DISJOINED FOR LETTER KAY, GAY, EM, AR and RAY
68	⌋	PITMAN HEAVY LETTER ELL
69	⌋	PITMAN HEAVY LETTER AR
70	⌋	PITMAN HEAVY LETTER EM
71	⌋	PITMAN LETTER WAY WITH ENLARGED HOOK

SL #	Pitman Character	Character Name
72	↘	PITMAN LETTER PEE HALVED
73	↘	PITMAN LETTER BEE HALVED
74	|	PITMAN LETTER TEE HALVED
75	|	PITMAN LETTER DEE HALVED
76	/	PITMAN LETTER CHAY HALVED
77	/	PITMAN LETTER JAY HALVED
78	—	PITMAN LETTER KAY HALVED
79	—	PITMAN LETTER GAY HALVED
80	/	PITMAN LETTER RAY HALVED
81	↙	PITMAN LETTER WAY HALVED
82	↙	PITMAN LETTER YAY HALVED
83	↙	PITMAN LETTER UP HAY HALVED












SL #	Pitman Character	Character Name
84	9	PITMAN LETTER DOWN HAY HALVED
85	˘	PITMAN LETTER EM HALVED
86	˘˘	PITMAN LETTER HEAVY EM HALVED
87	˘˘˘	PITMAN LETTER EN HALVED
88	˘˘˘˘	PITMAN LETTER HEAVY EN HALVED
89	˘˘˘˘˘	PITMAN LETTER ING HALVED WITH ADDITION OF R HOOK
90	˘˘˘˘˘˘	PITMAN LETTER EFF HALVED
91	˘˘˘˘˘˘˘	PITMAN LETTER VEE HALVED
92	(	PITMAN LETTER ITH HALVED
93	(˘	PITMAN LETTER THEE HALVED
94	)	PITMAN LETTER ESS HALVED
95	)˘	PITMAN LETTER ZEE HALVED

SL #	Pitman Character	Character Name
96	↷	PITMAN LETTER ISH HALVED
97	↷	PITMAN LETTER ZHEE HALVED
98	↶	PITMAN LETTER ELL HALVED
99	↶	PITMAN LETTER HEAVY ELL HALVED
100	↷	PITMAN LETTER AR HALVED
101	↷	PITMAN LETTER HEAVY AR HALVED
102	↘	PITMAN LETTER PEE DOUBLED
103	↘	PITMAN LETTER BEE DOUBLED
104	⌋	PITMAN LETTER TEE DOUBLED
105	⌋	PITMAN LETTER DEE DOUBLED
106	↙	PITMAN LETTER CHAY DOUBLED
107	↙	PITMAN LETTER JAY DOUBLED






































































































SL #	Pitman Character	Character Name
108		PITMAN LETTER KAY DOUBLED
109		PITMAN LETTER GAY DOUBLED
110		PITMAN LETTER RAY DOUBLED
111		PITMAN LETTER WAY DOUBLED
112		PITMAN LETTER YAY DOUBLED
113		PITMAN LETTER UP HAY DOUBLED
114		PITMAN LETTER DOWN HAY DOUBLED
115		PITMAN LETTER EM DOUBLED
116		PITMAN HEAVY LETTER EM DOUBLED
117		PITMAN LETTER EN DOUBLED
118		PITMAN LETTER ING DOUBLED
119		PITMAN LETTER EFF DOUBLED

















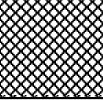
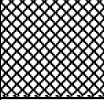






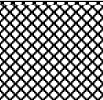
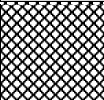




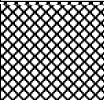

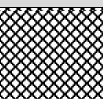
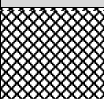
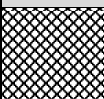
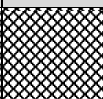
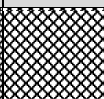

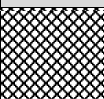

SL #	Pitman Character	Character Name
120		PITMAN LETTER VEE DOUBLED
121		PITMAN LETTER ITH DOUBLED
122		PITMAN LETTER THEE DOUBLED
123		PITMAN LETTER ESS DOUBLED
124		PITMAN LETTER ZEE DOUBLED
125		PITMAN LETTER ISH DOUBLED
126		PITMAN LETTER ZHEE DOUBLED
127		PITMAN LETTER ELL DOUBLED
128		PITMAN LETTER AR DOUBLED
129	L	PITMAN LETTER LOGOGRAM WHY
130	o	PITMAN LETTER LOGOGRAM FIRST

Punctuation Characters

131		PITMAN SYMBOL FULL STOP PERIOD
132		PITMAN SYMBOL QUESTION MARK
133		PITMAN SYMBOL EXCLAMATION MARK
134		PITMAN SYMBOL EM or EN DASH
135		PITMAN SYMBOL LEFT PARENTHESSES
136		PITMAN SYMBOL RIGHT PARENTHESSES
137		PITMAN SYMBOL INITIAL CAPITALS
138		PITMAN SYMBOL ALL INITIAL CAPITALS
139		PITMAN SYMBOL PARAGRAPH MARK
140		PITMAN SYMBOL EMPHASIS or CAUTION
141		PITMAN SYMBOL HUMOR

Allocation Table

	1BCB	1BCC	1BCD	1BCE	1BCF	1BD0	1BD1	1BD2	1BD3	1BD4	1BD5
0											
	1BCB0	1BCC0	1BCD0	1BCE0	1BCF0	1BD00	1BD10	1BD20	1BD30	1BD40	1BD50
1											
	1BCB1	1BCC1	1BCD1	1BCE1	1BCF1	1BD01	1BD11	1BD21	1BD31	1BD41	1BD51
2											
	1BCB2	1BCC2	1BCD2	1BCE2	1BCF2	1BD02	1BD12	1BD22	1BD32	1BD42	1BD52
3											
	1BCB3	1BCC3	1BCD3	1BCE3	1BCF3	1BD03	1BD13	1BD23	1BD33	1BD43	1BD53
4											
	1BCB4	1BCC4	1BCD4	1BCE4	1BCF4	1BD04	1BD14	1BD24	1BD34	1BD44	1BD54
5											
	1BCB5	1BCC5	1BCD5	1BCE5	1BCF5	1BD05	1BD15	1BD25	1BD35	1BD45	1BD55
6											
	1BCB6	1BCC6	1BCD6	1BCE6	1BCF6	1BD06	1BD16	1BD26	1BD36	1BD46	1BD56
7											
	1BCB7	1BCC7	1BCD7	1BCE7	1BCF7	1BD07	1BD17	1BD27	1BD37	1BD47	1BD57
8											
	1BCB8	1BCC8	1BCD8	1BCE8	1BCF8	1BD08	1BD18	1BD28	1BD38	1BD48	1BD58
9											
	1BCB9	1BCC9	1BCD9	1BCE9	1BCF9	1BD09	1BD19	1BD29	1BD39	1BD49	1BD59
A											
	1BCBA	1BCCA	1BCDA	1BCEA	1BCFA	1BD0A	1BD1A	1BD2A	1BD3A	1BD4A	1BD5A

	1BCB	1BCC	1BCD	1BCE	1BCF	1BD0	1BD1	1BD2	1BD3	1BD4	1BD5
B											
	1BCBB	1BCCB	1BCDB	1BCEB	1BCFB	1BD0B	1BD1B	1BD2B	1BD3B	1BD4B	1BD5B
C											
	1CBCB	1BCCB	1BCDC	1BCEC	1BCFC	1BD0C	1BD1C	1BD2C	1BD3C	1BD4C	1BD5C
D											
	1BCBD	1BCCD	1BCDD	1BCED	1BCFD	1BD0D	1BD1D	1BD2D	1BD3D	1BD4D	1BD5D
E											
	1BCBE	1BCEE	1BCDE	1BCEE	1BCFE	1BD0E	1BD1E	1BD2E	1BD3E	1BD4E	1BD5E
F											
	1BCBF	1BCCF	1BCDF	1BCEF	1BCFF	1BD0F	1BD1F	1BD2F	1BD3F	1BD4F	1BD5F

Note: A few code blocks are shaded and left blank for provision of further characters that may find its place, based on subsequent reviews

Allocation - Supplemental Punctuation

	2E0	2E1	2E2	2E3	2E4
3					∞
					2E43
4					∞ ?
					2E44
5					∞ ↓
					2E45
6					↶
					2E46
7					ƒ
					2E47
8					ƒ
					2E48
9					∥
					2E49
A					∥
					2E4A
B					∥∥
					2E4B
C					∴
					2E4C
D					∴
					2E4D

Character properties

1BCB0;PITMAN LETTER **PEE**;Lo;0;L;;;;N;;;;;
1BCB1;PITMAN LETTER **BEE**;Lo;0;L;;;;N;;;;;
1BCB2;PITMAN LETTER **TEE**;Lo;0;L;;;;N;;;;;
1BCB3;PITMAN LETTER **DEE**;Lo;0;L;;;;N;;;;;
1BCB4;PITMAN LETTER **CHAY**;Lo;0;L;;;;N;;;;;
1BCB5;PITMAN LETTER **JAY**;Lo;0;L;;;;N;;;;;
1BCB6;PITMAN LETTER **KAY**;Lo;0;L;;;;N;;;;;
1BCB7;PITMAN LETTER **GAY**;Lo;0;L;;;;N;;;;;
1BCB8;PITMAN LETTER **RAY**;Lo;0;L;;;;N;;;;;
1BCB9;PITMAN LETTER **WAY**;Lo;0;L;;;;N;;;;;
1BCBA;PITMAN LETTER **YAY**;Lo;0;L;;;;N;;;;;
1BCBB;PITMAN LETTER UP **HAY**;Lo;0;L;;;;N;;;;;
1BCBC;PITMAN LETTER DOWN **HAY**;Lo;0;L;;;;N;;;;;

1BCC0;PITMAN LETTER **EM**;Lo;0;L;;;;N;;;;;
1BCC1;PITMAN LETTER **EN**;Lo;0;L;;;;N;;;;;
1BCC2;PITMAN LETTER **ING**;Lo;0;L;;;;N;;;;;
1BCC3;PITMAN LETTER **EFF**;Lo;0;L;;;;N;;;;;
1BCC4;PITMAN LETTER **VEE**;Lo;0;L;;;;N;;;;;
1BCC5;PITMAN LETTER **ITH**;Lo;0;L;;;;N;;;;;
1BCC6;PITMAN LETTER **THEE**;Lo;0;L;;;;N;;;;;
1BCC7;PITMAN LETTER **ESS**;Lo;0;L;;;;N;;;;;
1BCC8;PITMAN LETTER **ZEE**;Lo;0;L;;;;N;;;;;
1BCC9;PITMAN LETTER **ISH**;Lo;0;L;;;;N;;;;;
1BCCA;PITMAN LETTER **ZHEE**;Lo;0;L;;;;N;;;;;
1BCCB;PITMAN LETTER **ELL**;Lo;0;L;;;;N;;;;;
1BCCC;PITMAN LETTER **AR**;Lo;0;L;;;;N;;;;;

1BCD0;PITMAN VOWEL SIGN **LIGHT DOT**;Lo;0;L;;;;N;;;;;
1BCD1;PITMAN VOWEL SIGN **LIGHT DASH**;Lo;0;L;;;;N;;;;;
1BCD2;PITMAN VOWEL SIGN **HEAVY DOT**;Lo;0;L;;;;N;;;;;
1BCD3;PITMAN VOWEL SIGN **HEAVY DASH**;Lo;0;L;;;;N;;;;;
1BCD4;PITMAN **INTERVENING DOT** VOWEL;Lo;0;L;;;;N;;;;;
1BCD5;PITMAN LETTER **I** UP;Lo;0;L;;;;N;;;;;
1BCD6;PITMAN LETTER **OW** DOWN;Lo;0;L;;;;N;;;;;
1BCD7;PITMAN LETTER **OI** UP;Lo;0;L;;;;N;;;;;
1BCD8;PITMAN LETTER **EW** DOWN;Lo;0;L;;;;N;;;;;
1BCD9;PITMAN **DIPHONE LETTER** FOR LIGHT and HEAVY DOT VOWEL;Lo;0;L;;;;N;;;;;
1BCDA;PITMAN **DIPHONE LETTER** FOR LIGHT and HEAVY DASH VOWEL;Lo;0;L;;;;N;;;;;
1BCDB;PITMAN **TRIPHONE LETTER** **I** UP;Lo;0;L;;;;N;;;;;
1BCDC;PITMAN **TRIPHONE LETTER** **OW** DOWN;Lo;0;L;;;;N;;;;;
1BCDD;PITMAN **TRIPHONE LETTER** **OI** UP;Lo;0;L;;;;N;;;;;
1BCDE;PITMAN **TRIPHONE LETTER** **EW** DOWN;Lo;0;L;;;;N;;;;;

1BCE0;PITMAN **R HOOK** FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCE1;PITMAN **R HOOK** FOR LETTER EM;Lo;0;L;;;;N;;;;
 1BCE2;PITMAN **L HOOK** FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCE3;PITMAN **L HOOK** FOR LETTER EM;Lo;0;L;;;;N;;;;
 1BCE4;PITMAN **N HOOK** FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCE5;PITMAN **N HOOK** FOR LETTER EM;Lo;0;L;;;;N;;;;
 1BCE6;PITMAN **F or V HOOK** FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCE7;PITMAN **SHUN HOOK** LEFT MOTION FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCE8;PITMAN **SHUN HOOK** RIGHT MOTION FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCE9;PITMAN **SHUN HOOK** FOR LETTER EM;Lo;0;L;;;;N;;;;
 1BCEA;PITMAN FINAL **SHUN HOOK** FOLLOWING CIRCLE ES;Lo;0;L;;;;N;;;;
 1BCEB;PITMAN FINAL **SHUN HOOK** FOLLOWING CIRCLE ES WITH ADDED ES CIRCLE;Lo;0;L;;;;N;;;;
 1BCEC;PITMAN **SMALL CIRCLE** ATTACHED TO HOOKS;Lo;0;L;;;;N;;;;
 1BCED;PITMAN **SMALL CIRCLE**;Lo;0;L;;;;N;;;;
 1BCEE;PITMAN **LARGE CIRCLE**;Lo;0;L;;;;N;;;;

 1BCF0;PITMAN **ST LOOP** FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCF1;PITMAN **ST LOOP** INITIAL FOR LETTER EM;Lo;0;L;;;;N;;;;
 1BCF2;PITMAN **ST LOOP** FINAL FOR LETTER EM;Lo;0;L;;;;N;;;;
 1BCF3;PITMAN **STR LOOP** FOR LETTER TEE and DEE;Lo;0;L;;;;N;;;;
 1BCF4;PITMAN **STR LOOP** FOR LETTER EM;Lo;0;L;;;;N;;;;
 1BCF5;PITMAN INITIAL **KW HOOK** FOR LETTER KAY;Lo;0;L;;;;N;;;;
 1BCF6;PITMAN INITIAL **W HOOK** FOR LETTER EL;Lo;0;L;;;;N;;;;
 1BCF7;PITMAN INITIAL **WH HOOK** FOR LETTER EL;Lo;0;L;;;;N;;;;
 1BCF8;PITMAN INITIAL **W HOOK** FOR LETTER KAY, GAY, EM, AR and RAY;Lo;0;L;;;;N;;;;
 1BCF9;PITMAN MEDIAL LEFT **W HOOK** DISJOINED FOR LETTER KAY, GAY, EM, AR and RAY;Lo;0;L;;;;N;;;;
 1BCFA;PITMAN MEDIAL RIGHT **W HOOK** DISJOINED FOR LETTER KAY, GAY, EM, AR and RAY;Lo;0;L;;;;N;;;;
 1BCFB;PITMAN **HEAVY** LETTER **ELL**;Lo;0;L;;;;N;;;;
 1BCFC;PITMAN **HEAVY** LETTER **AR**;Lo;0;L;;;;N;;;;
 1BCFD;PITMAN **HEAVY** LETTER **EM**;Lo;0;L;;;;N;;;;
 1BCFE;PITMAN LETTER **WAY** WITH **ENLARGED HOOK**;Lo;0;L;;;;N;;;;

 1BD00;PITMAN LETTER **PEE HALVED**;Lo;0;L;;;;N;;;;
 1BD01;PITMAN LETTER **BEE HALVED**;Lo;0;L;;;;N;;;;
 1BD02;PITMAN LETTER **TEE HALVED**;Lo;0;L;;;;N;;;;
 1BD03;PITMAN LETTER **DEE HALVED**;Lo;0;L;;;;N;;;;
 1BD04;PITMAN LETTER **CHAY HALVED**;Lo;0;L;;;;N;;;;
 1BD05;PITMAN LETTER **JAY HALVED**;Lo;0;L;;;;N;;;;
 1BD06;PITMAN LETTER **KAY HALVED**;Lo;0;L;;;;N;;;;
 1BD07;PITMAN LETTER **GAY HALVED**;Lo;0;L;;;;N;;;;
 1BD08;PITMAN LETTER **RAY HALVED**;Lo;0;L;;;;N;;;;
 1BD09;PITMAN LETTER **WAY HALVED**;Lo;0;L;;;;N;;;;
 1BD0A;PITMAN LETTER **YAY HALVED**;Lo;0;L;;;;N;;;;
 1BD0B;PITMAN LETTER UP **HAY HALVED**;Lo;0;L;;;;N;;;;
 1BD0C;PITMAN LETTER DOWN **HAY HALVED**;Lo;0;L;;;;N;;;;
 1BD0D;PITMAN LETTER **EM HALVED**;Lo;0;L;;;;N;;;;
 1BD0E;PITMAN LETTER **HEAVY EM HALVED**;Lo;0;L;;;;N;;;;
 1BD0F;PITMAN LETTER **EN HALVED**;Lo;0;L;;;;N;;;;

1BD10;PITMAN LETTER **HEAVY EN HALVED**;Lo;0;L;;;;N;;;;
1BD11;PITMAN LETTER **ING HALVED WITH ADDITION OF R HOOK**;Lo;0;L;;;;N;;;;
1BD12;PITMAN LETTER **EFF HALVED**;Lo;0;L;;;;N;;;;
1BD13;PITMAN LETTER **VEE HALVED**;Lo;0;L;;;;N;;;;
1BD14;PITMAN LETTER **ITH HALVED**;Lo;0;L;;;;N;;;;
1BD15;PITMAN LETTER **THEE HALVED**;Lo;0;L;;;;N;;;;
1BD16;PITMAN LETTER **ESS HALVED**;Lo;0;L;;;;N;;;;
1BD17;PITMAN LETTER **ZEE HALVED**;Lo;0;L;;;;N;;;;
1BD18;PITMAN LETTER **ISH HALVED**;Lo;0;L;;;;N;;;;
1BD19;PITMAN LETTER **ZHEE HALVED**;Lo;0;L;;;;N;;;;
1BD1A;PITMAN LETTER **ELL HALVED**;Lo;0;L;;;;N;;;;
1BD1B;PITMAN LETTER **HEAVY ELL HALVED**;Lo;0;L;;;;N;;;;
1BD1C;PITMAN LETTER **AR HALVED**;Lo;0;L;;;;N;;;;
1BD1D;PITMAN LETTER **HEAVY AR HALVED**;Lo;0;L;;;;N;;;;

1BD20;PITMAN LETTER **PEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD21;PITMAN LETTER **BEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD22;PITMAN LETTER **TEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD23;PITMAN LETTER **DEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD24;PITMAN LETTER **CHAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD25;PITMAN LETTER **JAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD26;PITMAN LETTER **KAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD27;PITMAN LETTER **GAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD28;PITMAN LETTER **RAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD29;PITMAN LETTER **WAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD2A;PITMAN LETTER **YAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD2B;PITMAN LETTER UP **HAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD2C;PITMAN LETTER DOWN **HAY DOUBLED**;Lo;0;L;;;;N;;;;
1BD2D;PITMAN LETTER **EM DOUBLED**;Lo;0;L;;;;N;;;;
1BD2E;PITMAN **HEAVY** LETTER **EM DOUBLED**;Lo;0;L;;;;N;;;;
1BD2F;PITMAN **HEAVY** LETTER **EM DOUBLED**;Lo;0;L;;;;N;;;;

1BD30;PITMAN LETTER **ING DOUBLED**;Lo;0;L;;;;N;;;;
1BD31;PITMAN LETTER **EFF DOUBLED**;Lo;0;L;;;;N;;;;
1BD32;PITMAN LETTER **VEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD33;PITMAN LETTER **ITH DOUBLED**;Lo;0;L;;;;N;;;;
1BD34;PITMAN LETTER **THEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD35;PITMAN LETTER **ESS DOUBLED**;Lo;0;L;;;;N;;;;
1BD36;PITMAN LETTER **ZEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD37;PITMAN LETTER **ISH DOUBLED**;Lo;0;L;;;;N;;;;
1BD38;PITMAN LETTER **ZHEE DOUBLED**;Lo;0;L;;;;N;;;;
1BD39;PITMAN LETTER **ELL DOUBLED**;Lo;0;L;;;;N;;;;
1BD3A;PITMAN LETTER **AR DOUBLED**;Lo;0;L;;;;N;;;;

1BD40;PITMAN LETTER **LOGOGRAM WHY**;Lo;0;L;;;;N;;;;
1BD41;PITMAN LETTER **LOGOGRAM FIRST**;Lo;0;L;;;;N;;;;

Line breaking properties for punctuation

2E43;BA	# Po	PITMAN SYMBOL FULL STOP PERIOD
2E44;BA	# Po	PITMAN SYMBOL QUESTION MARK
2E45;BA	# Po	PITMAN SYMBOL EXCLAMATION MARK
2E46;BA	# Po	PITMAN SYMBOL EM or EN DASH
2E47;BA	# Po	PITMAN SYMBOL LEFT PARENTHESES
2E48;BA	# Po	PITMAN SYMBOL RIGHT PARENTHESES
2E49;BA	# Po	PITMAN SYMBOL INITIAL CAPITALS
2E4A;BA	# Po	PITMAN SYMBOL ALL INITIAL CAPITALS
2E4B;BA	# Po	PITMAN SYMBOL PARAGRAPH MARK
2E4C;BA	# Po	PITMAN SYMBOL EMPHASIS or CAUTION
2E4D;BA	# Po	PITMAN SYMBOL HUMOR

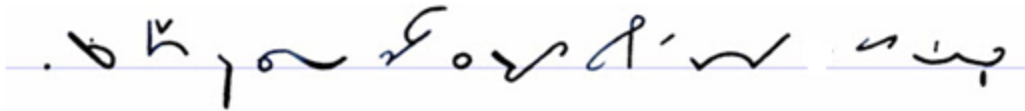
Representations using proposed code points

Representation 1: << Based on comments from Stanislav Jan Šarman >>

- 1.1. Running script: This is the running text this is represented using the proposed code points. The running script is as below;

“The best time to do something worthwhile is between yesterday and tomorrow – unknown”

- 1.2. Running script representation using standard Pitman Script



- 1.3. In the below section, we see the code point representation of the running script. In this section, we see the Pitman script that is rendered using by the proposed characters (meant for encoding)

Apart from script, its corresponding English equivalent words are provided for better understanding of the representation.

In addition to above, the proposed code point of each script is also depicted, in the highlighted area. [Each code point word pair is delimited with //]

<p>The best time to do something</p> <div style="border: 1px solid black; padding: 5px; background-color: #e0e0e0;"> <pre><1BCD0> // <1BCB1> <1BCD0> <1BCF0> // <1BCB2> <1BCD5> <1BCC0> // <1BCD1> <1BCB3> <1BCD3> // <1BCED> <1BCD1> <1BCC0> <1BCC2></pre> </div>
<p>Worthwhile is between yesterday and tomorrow - unknown</p> <div style="border: 1px solid black; padding: 5px; background-color: #e0e0e0;"> <pre><1BCF8> <1BCD3> <1BCB8> <1BCF7> <1BCD5> <1BCCB> // <1BCED> // <1BD01> <1BCD0> <1BCB9> <1BCD2> <1BCE4> // <1BCBA> <1BCD0> <1BCED> <1BCB3> <1BCD2> // <1BCD1> // <1BCD1> <1BCC0> <1BCD2> <1BCB8> <1BCD3> // <2E46> // <1BCD1> <1BCC1> <1BCC1> <1BCD3> <1BCE5></pre> </div>

Note: In the above chart, the words (The, to, and) are represented using the Dot and Dash Vowels (with specific orientation) as these three words are grammalogues and their pitman stenem is called Logogram in Pitman Shorthand. They do not have separate characters defined. [Refer references section]

Representation 2: << Based on comments from Stanislav Jan Šarman >>

1.1. Running script: This is the running text this is represented using the proposed code points. The running scripts is as below;

“You will be able to”

1.2. Running script representation using standard Pitman Script



1.3. In the below section, we see the code point representation of the running script. In this section, we see the Pitman script that is rendered using by the proposed characters (meant for encoding)

Apart from script, its corresponding English equivalent words are provided for better understanding of the representation.

In addition to above, the proposed code point of each script is also depicted, in the highlighted area. [Each code point word pair is delimited with //]

You will be able to (When joined together)

<1BCD8> // <1BCF6> <1BCD0> <1BCCB> // <1BCB1> // <1BCD2> <1BCB1> <1BCE2> // <1BCD1>

Note: In the above chart, the word <be> is represented using Pitman Letter BEE and the word <to> using Dash Vowel (with specific orientation) as these two words are grammalogues and their pitman stenem is called Logogram in Pitman Shorthand. They do not have separate characters defined. [Refer references section]

Character ordering

Characters are ordered by straight strokes starting from slanting left and progressing clockwise towards horizontal strokes followed by slanting strokes which are defined in Column 1 in the allocation table. Thereafter it starts with curved horizontal strokes and then followed by curved strokes progressing from left to right direction which are ordered in column 2 in the allocation table. Then the vowels, diphthongs and other combined vowels defined in column 3. Thereafter, hooks, circles, loops are defined from column 4 thru 6. Most of the compound consonants are defined in column 7. Lastly the halved and doubled consonants are defined from column 8 thru 11.

This allocation provides for all characters needed for Pitman English scripts. Some codes points in the block are left unallocated for addition of other languages characters to be provided for in future.

Stenographic period

Unicode has already encoded stenographic full stop U+2E3C STENOGRAPHIC FULL STOP which conveniently be used for rendering Pitman script as there are no other characters in Pitman stenography which resembles this character.

However, there is a separate character available in Pitman Shorthand for the purpose of writing the period (full stop) which is used for easy writing. This character is also proposed for encoding (U+2E43)

Punctuation marks

Like punctuation marks in English, there are a few punctuation marks available for Pitman Shorthand. They are proposed for encoding and are available as a separate code block U+2E43..U+2E4D.

Fonts

Characters that are proposed needs to be made available as Fonts for the purpose of encoding and publication of charts. This is being pursued and worked on in parallel.

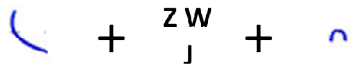

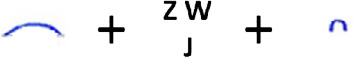

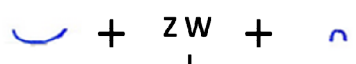

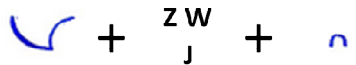





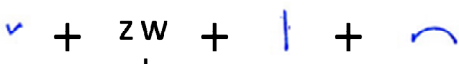

Pitman Rendering Model

Vowels in Pitman shorthand are indicated by small dot or dash along the consonant script. Mostly, the vowels are not joined to consonants but in certain cases can be joined for convenience purpose only, provided joining does not give them a different meaning.

Orientation of Diphthongs:

All dash vowels in Pitman shorthand are written perpendicular to straight scripts with respect to their position as decided by the sound. Apart from dot and dash vowels there are special vowels called diphthongs but they take either 1st or 3rd position and there is no second position. There are 4 diphthongs in Pitman shorthand which are either joined or disjoined with consonant scripts. The diphthong EW, normally orient itself conveniently with the curved strokes. For example, when attached with words like few, mew, new, value etc.












Table: 1 → Orientation of Diphthongs

	→		F + _jU
	→		M + _jU
	→		N + _jU
	→		V + L + _jU
	→		T + U_n_j + B
	→		F + _jU + R
	→		I_j + T + M

Compound vowels

Combining two consecutive vowels sound are referred to compounding vowels. In Pitman shorthand, there are quite a few words which require a compounding vowel when written as Pitman script. Compound vowels can be of two types i.e., combining two vowels or combining a diphthong and a vowel. There former kind of compounding is referred to as Diphone and the latter referred to a Triphone. Diphone is written in two directions (down-left or up-right) depending upon whether the first occurring vowel is a dot vowel or a dash vowel consecutively. Vowel in a Triphone is always as a dash combined with a diphthong but in the obverse direction of diphthong.

Table: 2 → Compounding of Vowels (Diphone and Triphone)

	→	 J + Aa + NG
	→	 W + Ae + NG
	→	 D + IA + R
	→	 L + OIA + L
	→	 T + OWA + R
	→	 F + UA + R











Ligatures, Allograph, Variants and Affixes

The ‘H’ aspirate pronounced “HAY” is the allograph in Pitman Script. There are two forms of H in Pitman script. The different forms are used based on rules and according to the convenience of joining the stroke with other consonants.





























Variants are alternative forms of scripts in Pitman shorthand. They are used in specific cases where convenience of joining strokes cursively, are required. Also they follow certain rules based on which it has to be decided whether the variant forms should be used or the full-form should be used.

Table: 3 → Ligatures, Variants, Allograph

Allograph (H Aspirate)







 + 	→		H(up) + D
 +  + 	→		B + H(up) + F
 + 	→		H(down) + R

Variants

 +  + 	→		RAY + B + R
 +  + 	→		B + T + L
 +  + 	→		T + R + N
 +  + 	→		T + R + F
 +  + 	→		K + T + V
 +  + 	→		H(tick) + R + M
 +  + 	→		ESS + M + L



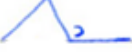
Ligatures are forms which combines more than one script into a single glyph. In Pitman shorthand, there are many ligatures defined for the purpose of easy writing, combining with other stokes and also following rules under which these ligatures are to be used. Ligatures in Pitman are Discretionary ones.

Ligatures (Discretionary)

)	+	|	+	⌒	→		ESS + T + F		
⌒	+)	+		+	⌒	→		M + ESS + T + R
\	+	)	+	)	→		P + ESS + ESS
)	+	✓	+	\	→		ESS + WAY + P		
)	+	✓			→		ESS + WAY		
✓	+	)	+	⌒	→		WAY + ESS + L	

Affixes are used in Pitman shorthand for the purpose of representing W (WAY). They are joined and also disjoined.

Affixes

✓	+	—	+	⌒	→		WAY + K + NG		
|	+	✓	+	⌒	+	|	→		T + WAY + N + T
/	+	\	+	✓	+	—	→		RAY + P + WAY + K

Orientation of Hooks:

In Pitman Shorthand, there are many hooks which are affixed to both straight and curved consonants. They are deemed to be variants of consonant characters, which are used subject to certain defined conditions. They are used for easy formation of strokes. These hooks do not have any meaning in isolation.

For the purpose of encoding these hooks, only two categories of hook are defined. One hook is for straight consonant (Letter TEE or DEE) and the other for curved consonant (Letter EM). These two hooks are taken as reference points in this proposal. They can be oriented in different angles (rotated, vertically or horizontally flipped) for creating hooks to be used with other consonants.

Table: 4 → Hooks (R, L, N, F/V, SHUN)

R Hook:

|	+	⤿	→	⤿	TEE + R Hook
↘	+	⤿	→	↘	PEE + R Hook
↙	+	⤿	→	↙	JAY + R Hook
⤿	+	⤿	→	⤿	EM + R Hook
⤿	+	⤿	→	⤿	ISH + R Hook
⤿	+	⤿	→	⤿	VEE + R Hook

L Hook:

|	+	∩	→	∩	TEE + L Hook
\	+	∩	→	∩	PEE + L Hook
/	+	∩	→	∩	JAY + L Hook
⌒	+	∩	→	∩	EM + L Hook
⌒	+	∩	→	∩	ISH + L Hook
⌒	+	∩	→	∩	VEE + L Hook

N Hook:

|	+	∩	→	∩	TEE + N Hook
\	+	∩	→	∩	PEE + N Hook
/	+	∩	→	∩	JAY + N Hook
⌒	+	∩	→	∩	EM + N Hook
⌒	+	∩	→	∩	ISH + N Hook
⌒	+	∩	→	∩	VEE + N Hook

F/V Hook:

|	+	∪	→	∩	TEE + F/V Hook
\	+	∪	→	∩	PEE + F/V Hook
/	+	∪	→	∩	JAY + F/V Hook

Shun Hook:

|	+	∪	→	∩	TEE + Shun Hook
\	+	∪	→	∩	PEE + Shun Hook
/	+	∪	→	∩	JAY + Shun Hook
(	+	∪	→	∩	EM + Shun Hook
)	+	∪	→	∩	ESS + Shun Hook
∩	+	∪	→	∩	VEE + Shun Hook

Orientation of Loops:

There are two types of loops in Pitman Shorthand. They are ST Loop and STR Loop. These loops can be affixed or joined to both straight and curved consonants subject to certain defined conditions. As like hooks, they are also used for easy formation of strokes. They are a form of glyph that represents the sound of two consonants (ESS + TEE for ST Loop) or three consonants (ESS + TEE + AR for STR Loop). These loops do not have any meaning in isolation

For the purpose of encoding these loops, only two orientations of ST and STR loops each, are defined. One orientation is for straight consonants (Letter TEE or DEE) and the other orientation is for curved consonant (Letter EM)

These two orientations are taken as reference points in this proposal. They can be oriented in different angles (rotated, vertically or horizontally flipped) for creating loops to be used with other consonants.

Table: 5 → Loops (ST& STR)

ST Loop:

|	+	)	→	b	TEE + ST Loop
\	+	)	→	b	PEE + ST Loop
/	+	)	→	b	JAY + ST Loop
⤿	+	⤿	→	⤿	EM + ST Loop
)	+	(	→	⤿	ESS + ST Loop
⤿	+	⤿	→	⤿	VEE + ST Loop

STR Loop:

|	+	)	→	b	TEE + STR Loop
\	+	)	→	b	PEE + STR Loop
/	+	)	→	b	JAY + STR Loop
⌒	+	⌒	→	o	EM + STR Loop
)	+	(	→	o	ESS + STR Loop
⌒	+	⌒	→	b	VEE + STR Loop

Orientation of Dash vowels:

There are two types of vowels used in Pitman Shorthand (Dot and Dash Vowel) which are described above and proposed for encoding. Dot Vowel does not have any orientation but Dash Vowel orients themselves with the consonants to which are related. Orientation of Dash Vowel depends on the position (three positions) in which they are written. Also, its orientation varies when they are written before or after the consonant characters (more particularly when used along with curved consonants). There are no variations in orientation of light and heavy Dash Vowel.

Table: 6 → Orientation of Dash Vowel (Light and Heavy Dash)

|	+	ZWNJ	+	-	→	-|	DASH₂ + TEE
\	+	ZWNJ	+	-	→	\	PEE + DASH₃
/	+	ZWNJ	+	-	→	/	JAY + DASH₁
—	+	ZWNJ	+	-	→	—	DASH₁ + KAY
⤿	+	ZWNJ	+	-	→	⤿	EM + DASH₃
⤿	+	ZWNJ	+	-	→	⤿	DASH₁ + EM
⤿	+	ZWNJ	+	-	→	⤿	VEE + DASH₁
)	+	ZWNJ	+	-	→	)-	ESS + DASH₂
✓	+	ZWNJ	+	-	→	✓	WAY + DASH₂
⤿	+	ZWNJ	+	-	→	⤿	DASH₃ + EL

Note: The subscript 1, 2, 3 given under the description (DASH) refers to the vowel position in relation to the consonant. The vowel appears either before or after the consonant. The vowel does not carry any meaning in isolation.

References

Representation of Vowels and Diphthongs

light dots:

a (bat) e (bet) i (bit)

heavy dots:

ah (ball) a (bait) ee (beet)

light dashes:

aw (bog) u (bug) oo (book)

heavy dashes:

aw*(law) o (boat) oo (boot)

others:

I (eye) oi (boy)

ow, bow you, few/if you

Example 1:

Examples, that were extracted from the below website.

http://www.jstor.org/stable/6553?seq=3#page_scan_tab_contents

According to Isaac Pitman's analysis, there are forty sounds in the English language, twenty-four consonants, twelve simple vowels, and four diphthongs, or double vowels. Adopting (substantially) the Pitmanic symbols, we may represent these sounds as below.

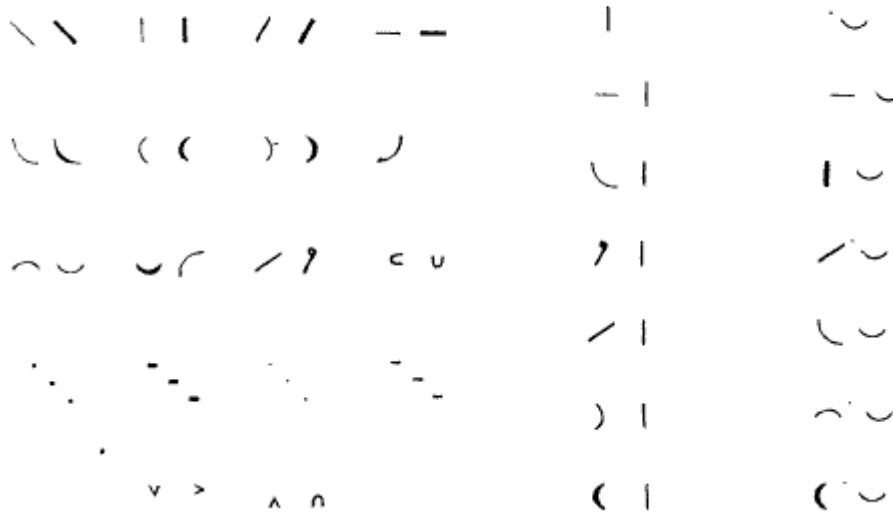
CONSONANTS

\ = p as in pop
\< = b as in bob
| = t as in tat
| = d as in did
/ = ch as in church
/ = j as in judge
— = k as in kick
— = g as in gig
⌒ = f as in fife
⌒ = v as in vivid

VOWELS (SINGLE)

(The vertical line is not a part of the vowel symbol, but is used to represent any consonant stroke. A vowel symbol, as a heavy or light dot, stands for different sounds according to its position.)

|• = a as in pa
|• = a as in may
|• = e as in we
|— = a as in all



http://www.jstor.org/stable/6553?seq=3#page_scan_tab_contents

Below is a classic example for the **(Representations using proposed code points)** provided above. The representation provided in (Page # 9 and # 10) is based on proposed characters which are only base consonants, vowels and diphthongs. The examples provided in the below screen also adhere to the representation model.

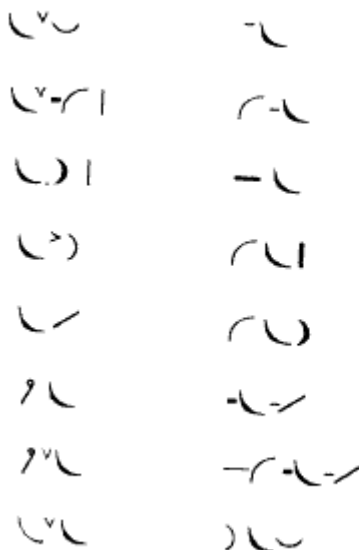


Fig. 7. Three charts, reduced in size, used in the teaching of foneline. The chart at the upper left shows the foneline alphabet, omitting the symbol for the sound of zh, which was not used in the first grade vocabulary. The words on the other charts are as shown below, and in the same order.

Words on Chart at Upper Right.

at	an
cat	can
fat	Dan
hat	fan
rat	fan
sat	man
that	than

Words on Chart at Left.

vine	of
violet	love
visit	give
voice	lived
very	lives
have	over
hive	clover
five	seven

128	REPORTING GRAMMALOGUES.	ARRANGED PHONETICALLY.	129
REPORTING GRAMMALOGUES			
ARRANGED PHONETICALLY.			
CONSONANTS.			
<ul style="list-style-type: none"> 1 happy, 2 up, 3 put 1 happen, 2 upon 1 happened 3 principle, principal 1 particular, 2 opportu- 1 approve [nity 	<ul style="list-style-type: none"> 1 can, 2 come 1 quite, 2 could 1 because 1 cannot, 2 account 1 call, 2 equal-ly 1 called, 2 cold, equalled 1 Christian, Christianity, 2 care 1 according, according to, cart, 2 cared 	<ul style="list-style-type: none"> 1 has, as, 2 his, is 2 so, us, 3 see, use (<i>noun</i>) 1 as is (his, or has), has his, 2 is as, (or his), his is 2 first 2 special-ly, 3 speak 2 spirit 2 strength 1 Scripture; or 2 secret 1 signify-ied, significant- 2 several, Saviour [-ance 1 sent; or 2 send 2 somewhat 	<ul style="list-style-type: none"> 1 in, any, 2 no, know, 3 own 1 not, 2 nature 1 hand, 2 under 1 information, 2 nation 1 influence 2 opinion 1 nor, 2 near
<ul style="list-style-type: none"> 1 by, 2 be, 3 to be 2 above 2 been 2 able, 3 belief, believe-d 2 build-ing, able to 1 liberty, 2 member, re-member-ed, 3 number-ed 	<ul style="list-style-type: none"> 1 go, ago, 2 give-n 1 God, 2 good 2 glory, glorify-ied 2 gold 1 guard, 2 great 	<ul style="list-style-type: none"> 2 was, 3 whose, use (<i>verb</i>) 2 shall, shalt, 3 wish 3 sure 1 short 	<ul style="list-style-type: none"> 1 language, owing, 2 thing, 3 young 2 Lord 1 light, 2 let
<ul style="list-style-type: none"> 1 at, 2 it, 3 out 3 itself 1 at all, 2 tell, 3 till 2 told, till it 2 truth, 3 true 1 tried, 2 toward, trade 3 out of 	<ul style="list-style-type: none"> 1 half, 2 if 1 after, 2 if it 1 often, 2 Phonography 2 for 2 from 	<ul style="list-style-type: none"> 2 usual-ly; 2 pleasure 	<ul style="list-style-type: none"> 1 or, 2 your, 3 year 2 are, 3 our, hour 1 art 1 yard, 2 word
<ul style="list-style-type: none"> 1 had, 2 do, 3 different- 2 did [-ence 2 advantage, 3 difficult 2 done, 3 down 1 had not, do not, don't, 2 did not 1 Dr. 2 dear. 3 during 2 deliver-ed-y 	<ul style="list-style-type: none"> 2 have 2 heaven 1 over, 2 ever-y 2 very, 3 however 3 evil 	<ul style="list-style-type: none"> 1 me, my, 2 him, may 1 might, met, 2 meet-ing 1 myself, 2 himself 1 most, 2 must 1 important-ance, 2 im-prove-ed -ment 1 impossible, 2 improve-ments 2 may not, amount 1 more, remark-ed, 2 Mr, mere 	<ul style="list-style-type: none"> 2 we, way, away 2 wait, weight 2 one 1 want, 2 went, won't 2 will, well
<ul style="list-style-type: none"> 1 much, 2 which, 3 each 2 which have 1 child 2 chair, 3 cheer 	<ul style="list-style-type: none"> 1 thank-ed, 2 think, 1 thought [3 youth 3 through 2 third 	<p style="text-align: center;">VOWELS.</p> <p>DOTS. a, an, the, ah! , aye, eh?</p> <p>DASHES. of, on, and</p> <p>all, O, oh! owe, awe, ought</p> <p>to, but, should</p> <p>two, too, he, who</p> <p>When <i>he</i> and <i>did</i> follow each other, vocalise <i>i did</i>.</p>	<ul style="list-style-type: none"> 2 whether, 3 whither 1 while 2 ye; or 2 yet 2 yes 1 high 2 holy 2 house
<ul style="list-style-type: none"> 1 large 3 religious 2 general-ly, 3 religion 1 gentleman, 2 gentlemen 1 larger 2 generation 	<ul style="list-style-type: none"> 1 though, thy, 2 them, they 1 that, 2 without 1 those, thyself, 2 this, 3 thus, these, youths 2 themselves 3 within 2 other 2 there, their, they are 3 therefore 	<p style="text-align: center;">DIPHTHONGS.</p> <p>I, eye, ay, how, why</p> <p>with, when, what, would,</p> <p>beyond, you.</p> <p>In Phraseography <i>ea</i>, and (written upward), <i>but</i>, are used only initially; and medial, is -</p>	

p.249 (250)

Next >>

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APPENDIX – A

Characters proposed in **[L2/15-116r]** that were identified as contextual forms of underlying letters by script ad hoc group (UTC # 145) during their review of this document.

<http://www.unicode.org/L2/L2015/15116r-pitman.pdf>

SL #	Pitman Character	Character Name
43	ᵒ	PITMAN HEAVY R HOOK FOR LETTER TEE and DEE
45	ᵓ	PITMAN HEAVY R HOOK FOR LETTER EM
47	ᵔ	PITMAN HEAVY L HOOK FOR LETTER TEE and DEE
49	ᵕ	PITMAN HEAVY L HOOK FOR LETTER EM
51	ᵖ	PITMAN HEAVY N HOOK FOR LETTER TEE and DEE
53	ᵑ	PITMAN HEAVY N HOOK FOR LETTER EM
55	ᵒ	PITMAN HEAVY F or V HOOK FOR LETTER TEE and DEE
57	ᵓ	PITMAN HEAVY SHUN HOOK LEFT MOTION FOR LETTER TEE and DEE
59	ᵔ	PITMAN HEAVY SHUN HOOK RIGHT MOTION FOR LETTER TEE and DEE
61	ᵕ	PITMAN HEAVY SHUN HOOK FOR LETTER EM
63	ᵖ	PITMAN FINAL HEAVY SHUN HOOK FOLLOWING CIRCLE ES

SL #	Pitman Character	Character Name
65	∞	PITMAN FINAL HEAVY SHUN HOOK FOLLOWING CIRCLE ES WITH ADDED ES CIRCLE
71	)	PITMAN HEAVY ST LOOP FOR LETTER TEE and DEE
73	↷	PITMAN HEAVY ST LOOP INITIAL FOR LETTER EM
75	↶	PITMAN HEAVY ST LOOP FINAL FOR LETTER EM
77	)	PITMAN HEAVY STR LOOP FOR LETTER TEE and DEE
79	↶	PITMAN HEAVY STR LOOP FOR LETTER EM
81	o	PITMAN HEAVY SMALL CIRCLE
83	O	PITMAN HEAVY LARGE CIRCLE
85	c	PITMAN INITIAL HEAVY W HOOK FOR LETTER GAY

APPENDIX – B

Characters proposed in **[L2/15-116r]** <http://www.unicode.org/L2/L2015/15116r-pitman.pdf>

SL #	Pitman Character	Character Name
67	◦	PITMAN SMALL CIRCLE ATTACHED TO HOOKS FOR CURVED STROKES
68	○	PITMAN BIG CIRCLE ATTACHED TO HOOKS FOR STRAIGHT STROKES
69	○	PITMAN BIG CIRCLE ATTACHED TO HOOKS FOR CURVED STROKES

Link to websites for further reading/reference

<http://www.long-live-pitmans-shorthand.org.uk/>

<http://pitmanshorthand.homestead.com/PitmanBooks.html>

<http://pitmanshorthand.homestead.com/>

<http://www.britannica.com/EBchecked/topic/541788/shorthand/53187/Modern-symbol-systems>

http://www.jstor.org/stable/6553?seq=1#page_scan_tab_contents

FRENCH PHONOGRAPHY: An Adaptation of PITMAN'S PHONETIC SHORTHAND to the FRENCH
@ <https://archive.org/stream/frenchphonograph00reediala#page/n5/mode/2up>

German shorthand = Deutsche Kurzschrift : an adaptation of Pitman's shorthand to German language
<http://trove.nla.gov.au/work/18296303?selectedversion=NBD3458594>

Esperanto shorthand: An adaptation of Pitman's shorthand to Esperanto. (Eldonita laŭ Ĉe la afabla permeso de Sir Isaac Pitman & Sons, Ltd.)
<http://www.amazon.com/Esperanto-shorthand-adaptation-Esperanto-Eldonita/dp/B0008CCZTE>

Stenografia Italiana;: Italian shorthand, an adaptation of Pitman's shorthand to the Italian language
<http://www.amazon.com/Stenografia-Italiana-shorthand-adaptation-explanations/dp/B0008A8FPE>

Pitman's shorthand adapted to Sinhala
<http://www.amazon.co.uk/372/dp/B0000CMJV7>

Pitman's shorthand adapted to Malay.
<http://www.worldcat.org/title/pitmans-shorthand-adapted-to-malay/oclc/221194641>
<http://lib.sabah.uitm.edu.my/webopac20/Record/0000022598>

Pitman shorthand adapted to Swahili
<http://maktaba.ku.ac.ke/cgi-bin/koha/opac-detail.pl?biblionumber=61733>