

Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Organisation Internationale de Normalisation
Международная организация по стандартизации

Doc Type: Working Group Document**Title: Preliminary proposal for encoding the Moon script in the SMP of the UCS****Source: Michael Everson****Status: Individual Contribution****Action: For consideration by JTC1/SC2/WG2 and UTC****Date: 2011-06-29****1. Introduction.**

The Moon System of Embossed Reading, also known as the Moon alphabet, Moon type, or Moon code) is a writing system for the blind which embossed symbols chiefly derived by applying simplifications to the shapes of the letters of the Latin alphabet. It was introduced in 1945 by William Moon (1818–1894), a blind Englishman from Brighton, East Sussex, who founded the Brighton Society for the Blind in 1860.

The Moon script is easily learned, particularly by those who have newly become blind and who find Braille daunting. There is evidence that some people who get used to reading by touch are able to transition from Moon script to Braille. Moon was adopted in Britain and in North America, though it was more popular in the 19th century and earlier 20th century than it is today. Nevertheless, a variety of printed literature exists in Moon script, and efforts are being made to adapt modern embossing technology

2. Processing. Short texts in Moon script are written from left to right, but longer embossed texts have boustrophedon directionality: at the end of a line there is a sort of parenthesis which guides the fingers to the next line, which the reader then follows. Glyphs are not mirrored in this style of boustrophedon writing.

3. Numerals. Moon script has three different systems of writing numbers. The first uses the letters O and I for 0 and 1, with the other digits being represented by diagonal strokes with a tick on one end. The second uses a unique NUMBER SIGN \neg to indicate the numeric use of letters A through J as digits 1 through 0. When preceded by the letter L or P, this number sign indicates pounds and pence sterling. The third system of numbers was devised more recently to respond to the needs of new users, particularly those with learning difficulties, and uses shapes which are more iconic in terms of stroke count.

	0	1	2	3	4	5	6	7	8	9
System 1	○	l	\	/	✓	∕	∕	∕	∕	∕
System 2	\neg	J	^	u	c	o	Γ	∩	∩	o
System 3	○	1	π	∃	□	∇	∩	∩	∩	∩

4. Punctuation. Moon script has its own punctuation marks. A single dot \cdot is used for a COMMA, and a double dot $\ddot{\cdot}$ is used for the FULL STOP. A triangle of three dots $\cdot\cdot\cdot$ and inverted triangle of three dots $\cdot\cdot\cdot$ are used for LEFT PARENTHESIS and RIGHT PARENTHESIS respectively. A QUESTION MARK \neg and EXCLAMATION MARK $!$, and AMPERSAND Σ are used, as are an APOSTROPHE \cdot and a HYPHEN $-$; the last is a baseline character (because \neg is LETTER T) and is also used as a decimal point (\neg \neg \neg \neg \neg \neg \neg \neg \neg \neg \neg = £5.67).

9. Bibliography

Moon, William. 1877. *Light for the Blind: A history of the origin and success of Moon's System of Reading for the Blind*. London: Longmans & Co.

Moon Society. 1927. *The Moon Magazine*. Vol. 86, No. 5. London: National Institute for the Blind.

10. Figures.



Figure 1. Embossed chart of the Moon alphabet plus ampersand, from Moon 1877.

SPECIMENS OF
Dr. Moon's Type for the Blind.
 AS APPLIED TO FOREIGN LANGUAGES.

English,

O U \ ʀ A - • ʒ \ ʀ • I C • A \ - I N • ʒ A V ʒ N .

French,

N O - \ ʒ ʒ - ʒ \ ʒ ʒ - ʒ U I ʒ / A U > ʒ I ʒ U > .

German,

U N / ʒ \ V A - ʒ \ I N ʒ ʒ ʒ • ʒ ʒ ʒ ʒ .

Dutch,

O N Z ʒ V A ʒ ʒ \ ʒ I ʒ I N ʒ ʒ • ʒ ʒ ʒ ʒ ʒ N

Danish,

V O \ V A ʒ ʒ \ ʒ U / ʒ ʒ I • ʒ ʒ ʒ ʒ ʒ ʒ .

Swedish,

ʒ A ʒ ʒ \ V A \ / ʒ ʒ : A / - I • ʒ ʒ ʒ ʒ ʒ .

Russian,

O ʀ U L ÷ A ʀ ʒ • ʒ / ʀ I A ÷ A ÷ L L L C A > ʒ .

Arabic,

I - I U I I ʒ ʒ - ʒ - I ʒ A ʒ O I / ʒ - / Z ʒ . A I A ʒ S

Armenian,

ʀ ʒ < - ʒ ʒ V / ʒ ʀ ʒ / ʒ A I N : > ʒ / U .

Greek,

ʒ N A \ ʒ ʒ ʒ N • L • ʒ • / .

Hindustanee,

A I • A ʒ • A \ ʒ ʒ A ʒ : ʒ O ʒ A / ʒ A N ʒ A \










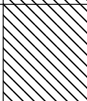





















































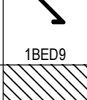











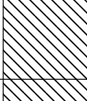










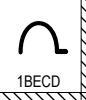
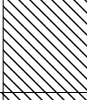





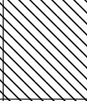
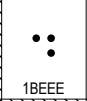

Singpo,

A • - L A • A • - - I A L ʒ - ʒ I N - Z ʒ - O N ʒ - ʒ O :

104, Queen's Road, Brighton.

W. H. TAYLOR. SC. BRIGHTON.

Figure 2. Chart of Moon extensions for foreign languages from Moon 1877.

	1BEA	1BEB	1BEC	1BED	1BEE	1BEF
0	 1BEA0	 1BEB0	 1BEC0		 1BEE0	 1BEF0
1	 1BEA1	 1BEB1	 1BEC1		 1BEE1	 1BEF1
2	 1BEA2	 1BEB2	 1BEC2	 1BED2	 1BEE2	 1BEF2
3	 1BEA3	 1BEB3	 1BEC3	 1BED3	 1BEE3	 1BEF3
4	 1BEA4	 1BEB4	 1BEC4	 1BED4	 1BEE4	 1BEF4
5	 1BEA5	 1BEB5	 1BEC5	 1BED5	 1BEE5	 1BEF5
6	 1BEA6	 1BEB6	 1BEC6	 1BED6	 1BEE6	 1BEF6
7	 1BEA7	 1BEB7	 1BEC7	 1BED7	 1BEE7	 1BEF7
8	 1BEA8	 1BEB8	 1BEC8	 1BED8	 1BEE8	 1BEF8
9	 1BEA9	 1BEB9	 1BEC9	 1BED9	 1BEE9	 1BEF9
A	 1BEAA	 1BEBA	 1BECA		 1BEEA	
B	 1BEAB	 1BEBA	 1BECB		 1BEEB	
C	 1BEAC	 1BEBC	 1BECC		 1BEEC	 1BEFC
D	 1BEAD	 1BEBD	 1BECD		 1BEE D	 1BEFD
E	 1BEAE	 1BEBE			 1BEEE	 1BEFE
F	 1BEAF	 1BEBF				 1BEFF

Basic alphabet

1BEA0	∧	MOON LETTER A
1BEA1	∩	MOON LETTER B
1BEA2	⊂	MOON LETTER C
1BEA3	⊃	MOON LETTER D
1BEA4	⊐	MOON LETTER E
1BEA5	⊑	MOON LETTER F
1BEA6	⊒	MOON LETTER G
1BEA7	⊓	MOON LETTER H
1BEA8	⊔	MOON LETTER I
1BEA9	⊕	MOON LETTER J
1BEAA	⊖	MOON LETTER K
1BEAB	⊗	MOON LETTER L
1BEAC	⊘	MOON LETTER M
1BEAD	⊙	MOON LETTER N
1BEAE	⊚	MOON LETTER O
1BEAF	⊛	MOON LETTER P
1BEB0	⊜	MOON LETTER Q
1BEB1	⊝	MOON LETTER R
1BEB2	⊞	MOON LETTER S
1BEB3	⊟	MOON LETTER T
1BEB4	⊠	MOON LETTER U
1BEB5	⊡	MOON LETTER V
1BEB6	⊢	MOON LETTER W
1BEB7	⊣	MOON LETTER X
1BEB8	⊤	MOON LETTER Y
1BEB9	⊥	MOON LETTER Z

Punctuation

1BEBA	∑	MOON AMPERSAND
1BEBB	⊠	MOON LOGOGRAM THE
		• also used for th
1BEBC	⊡	MOON NUMERAL SIGN
		• precedes letters ABCDEFGHIJ used as digits 1234567890
1BEBD	⊣	MOON COMMA
1BEBE	⊤	MOON FULL STOP
1BEBF	⊥	MOON APOSTROPHE
1BEC0	⋮	MOON ABBREVIATION SIGN
		• used word-internally before letters to indicate abbreviation
1BEC1	⋮	MOON LEFT PARENTHESIS
1BEC2	⋮	MOON RIGHT PARENTHESIS
1BEC3	!	MOON EXCLAMATION MARK
1BEC4	?	MOON QUESTION MARK
1BEC5	=	MOON VERSE DIVIDER
		• used to separate verses in poetry
1BEC6	-	MOON HYPHEN

Alphabetic extensions

1BEC7	⊂	MOON LETTER CH
1BEC8	⊑	MOON LETTER WH
1BEC9	∧	MOON LETTER A WITH STROKE
		• used for Swedish aa
		• used for Cyrillic short i
1BECA	⊐	MOON LETTER E WITH STROKE
		• used for Greek eta
1BECB	←	MOON LETTER TURNED Q
		• used as a tone mark in Ningbo transcription
1BECC	∩	MOON LETTER U WITH STROKE
		• used for Cyrillic che
1BECD	∩	MOON LETTER W WITH STROKE
		• used for Cyrillic shcha

Old-style digits

1BED2	↘	MOON NUMBER TWO
1BED3	↙	MOON NUMBER THREE
1BED4	✓	MOON NUMBER FOUR
1BED5	↗	MOON NUMBER FIVE
1BED6	↖	MOON NUMBER SIX
1BED7	↗	MOON NUMBER SEVEN
1BED8	↘	MOON NUMBER EIGHT
1BED9	↙	MOON NUMBER NINE

StaffsMaths digits

1BEE0	⊖	MOON DIGIT ZERO
1BEE1	⊕	MOON DIGIT ONE
1BEE2	⊗	MOON DIGIT TWO
1BEE3	⊘	MOON DIGIT THREE
1BEE4	⊙	MOON DIGIT FOUR
1BEE5	⊚	MOON DIGIT FIVE
1BEE6	⊛	MOON DIGIT SIX
1BEE7	⊜	MOON DIGIT SEVEN
1BEE8	⊝	MOON DIGIT EIGHT
1BEE9	⊞	MOON DIGIT NINE

Additional punctuation (conjectured)

1BEEA	⋮	MOON QUOTATION MARK
1BEEB	⋮	MOON PLUS SIGN
1BEEC	⋮	MOON MIDDLE DOT
1BEED	⋮	MOON SOLIDUS
1BEEE	⋮	MOON EQUALS SIGN

Additional letters (conjectured)

1BEF0	∧	MOON LETTER DOTTED A
		• addition
1BEF1	⊐	MOON LETTER DOTTED E
		• equals
1BEF2	⊑	MOON LETTER DOTTED G
1BEF3	⊒	MOON LETTER DOTTED K
1BEF4	⊓	MOON LETTER DOTTED L
1BEF5	⊔	MOON LETTER DOTTED M
1BEF6	⊕	MOON LETTER DOTTED N
1BEF7	⊖	MOON LETTER DOTTED P
1BEF8	⊗	MOON LETTER DOTTED S
		• subtraction
1BEF9	∑	MOON LETTER DOTTED AMPERSAND

Guide brackets

1BEFC	{	MOON TOP HALF LEFT BRACKET
1BEDD	}	MOON BOTTOM HALF LEFT BRACKET
1BEFE	{	MOON TOP HALF RIGHT BRACKET
1BEFF	}	MOON BOTTOM HALF RIGHT BRACKET

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KEY TO MOON ALPHABET

A	b	C	D	E	F	G	H	I	J	K	L	M
⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬
N	O	a	b	R	T	U	V	W	X	Y	Z	∑
⠠	⠡	⠢	⠣	⠤	⠥	⠦	⠧	⠨	⠩	⠪	⠫	⠬

4 FOR AND 7 FOR NEXT 8 FOR THEN 5 FOR NEAR OR BEFORE
 6 FOR OR 9 FOR AFTER 10 FOR WITH 11 FOR AND THE
 12 FOR BUT 13 FOR AND 14 FOR OR 15 FOR WITH 16 FOR AND THE
 17 FOR BUT 18 FOR AND 19 FOR OR 20 FOR WITH 21 FOR AND THE
 22 FOR BUT 23 FOR AND 24 FOR OR 25 FOR WITH 26 FOR AND THE
 27 FOR BUT 28 FOR AND 29 FOR OR 30 FOR WITH 31 FOR AND THE
 32 FOR BUT 33 FOR AND 34 FOR OR 35 FOR WITH 36 FOR AND THE
 37 FOR BUT 38 FOR AND 39 FOR OR 40 FOR WITH 41 FOR AND THE
 42 FOR BUT 43 FOR AND 44 FOR OR 45 FOR WITH 46 FOR AND THE
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 67 FOR BUT 68 FOR AND 69 FOR OR 70 FOR WITH 71 FOR AND THE
 72 FOR BUT 73 FOR AND 74 FOR OR 75 FOR WITH 76 FOR AND THE
 77 FOR BUT 78 FOR AND 79 FOR OR 80 FOR WITH 81 FOR AND THE
 82 FOR BUT 83 FOR AND 84 FOR OR 85 FOR WITH 86 FOR AND THE
 87 FOR BUT 88 FOR AND 89 FOR OR 90 FOR WITH 91 FOR AND THE
 92 FOR BUT 93 FOR AND 94 FOR OR 95 FOR WITH 96 FOR AND THE
 97 FOR BUT 98 FOR AND 99 FOR OR 100 FOR WITH 101 FOR AND THE
 102 FOR BUT 103 FOR AND 104 FOR OR 105 FOR WITH 106 FOR AND THE
 107 FOR BUT 108 FOR AND 109 FOR OR 110 FOR WITH 111 FOR AND THE
 112 FOR BUT 113 FOR AND 114 FOR OR 115 FOR WITH 116 FOR AND THE
 117 FOR BUT 118 FOR AND 119 FOR OR 120 FOR WITH 121 FOR AND THE
 122 FOR BUT 123 FOR AND 124 FOR OR 125 FOR WITH 126 FOR AND THE
 127 FOR BUT 128 FOR AND 129 FOR OR 130 FOR WITH 131 FOR AND THE
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NOTE.—The printed letter is shown above the facsimile of the Moon embossed character, the dotted portions of the former being omitted in the latter. In a Moon page the first line reads from left to right, the second from right to left, and so on, the object of the brackets being to guide the finger down to the line below.

Figure 3. Chart of letters, punctuation, and numbers on the cover of the May 1927 edition of *The Moon Magazine*. This copy was previously held in the New York Public Library's Library for the Blind.



Figure 5. The Moon board on the printing floor of the Royal National Institute for the Blind. The size of the board is about 5 metres high

A. Administrative

1. Title

Proposal for encoding the Moon script in the SMP of the UCS

2. Requester's name

Michael Everson

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2011-06-29

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

No.

6b. More information will be provided later

Yes.

B. Technical – General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

Yes.

1b. Proposed name of script

Moon.

1c. The proposal is for addition of character(s) to an existing block

No.

1d. Name of the existing block

2. Number of characters in proposal

40.

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

Category B-1.

4a. Is a repertoire including character names provided?

Yes.

4b. If YES, are the names in accordance with the “character naming guidelines” in Annex L of P&P document?

Yes.

4c. Are the character shapes attached in a legible form suitable for review?

Yes.

5a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?

Michael Everson.

5b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.).

Michael Everson.

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Yes.

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see UAX #44 <http://www.unicode.org/reports/tr44/> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

See above.

C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

No.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

Yes.

2b. If YES, with whom?

Dave Pawson.

2c. If YES, available relevant documents

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? Reference:

See above.

4a. The context of use for the proposed characters (type of use; common or rare)

Text for the blind.

4b. Reference

5a. Are the proposed characters in current use by the user community?

Yes.

5b. If YES, where? Reference:

Chiefly in the UK.

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

No.

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes.

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

Yes.

10b. If YES, is a rationale for its inclusion provided?

Yes.

10c. If YES, reference

The original shapes of the characters were derived from Latin.

11a. Does the proposal include use of combining characters and/or use of composite sequences?

No.

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

No.

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified? If YES, reference