

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

Doc Type: Working Group Document**Title: Progressing the encoding of Brahmi in the SMP of the UCS****Source: Michael Everson****Status: Individual Contribution****Action: For consideration by JTC1/SC2/WG2 and UTC****Date: 2008-08-04**

Document N3491 (L2/07-342) “Proposal for the Encoding of Brāhmī in Plane 1 of ISO/IEC 10646” by Stefan Baums and Andrew Glass presents a proposal to encode the ancient Brāhmī script of India. The proposal is robust and well-researched, but slightly controversial in that it proposes to unify a number of later Central Asian scripts with Brāhmī, an idea which was controversial when the UTC Scripts Subcommittee discussed the draft at the February meeting of the UTC. It was suggested there that it would be reasonable to proceed with encoding the uncontroversial aspects of the proposal where there is broad consensus. This document presents a summary code chart of the subset of characters which I would consider to be mature for encoding, and I request that WG2 and the UTC consider it in that light.

In consultation with Andrew Glass I have proposed that candrabindu, independent vocalic ṛ, independent vocalic ḷ, and independent vocalic ī as well as dependent vocalic ḷ and dependent vocalic ī be encoded. I have also suggested that the three additions for Tamil and for Bhattiprolu orthographies originally proposed by Baums and Glass be accepted for encoding in the Brahmic block.

The number of characters requested is 108.



Figure 1. Example from the IndoSript project, showing a variety of early candrabindus.

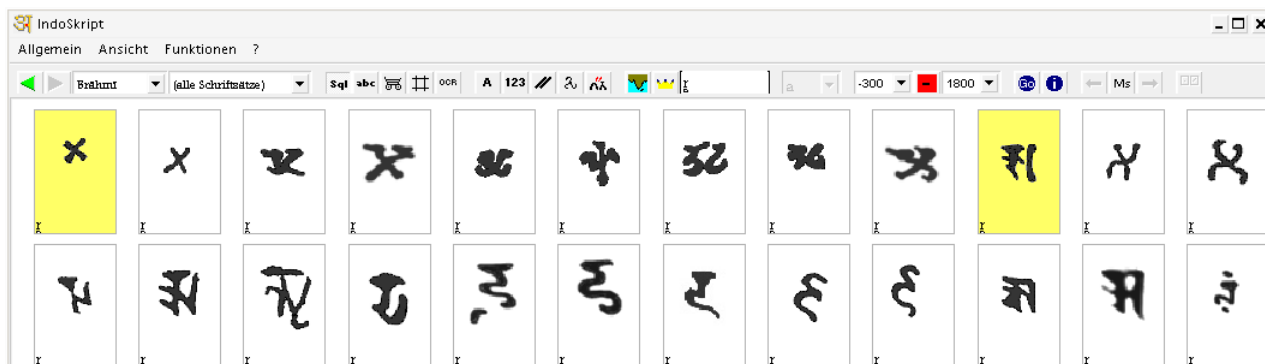


Figure 2. Example from the IndoSkript project, showing a variety of early independent vocalic *r*'s.



Figure 3. Example from the IndoSkript project, showing a variety of early independent vocalic *r̄*'s.

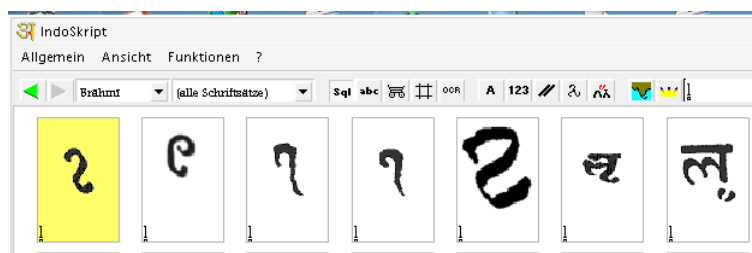


Figure 4. Example from the IndoSkript project, showing a variety of early independent vocalic *l*'s.

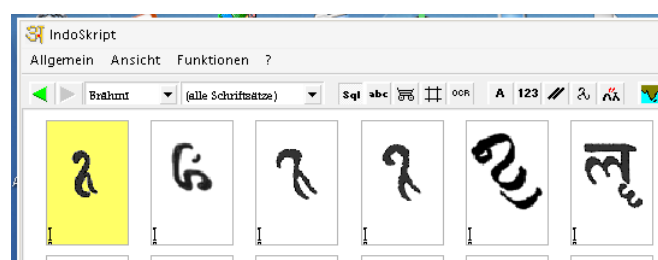
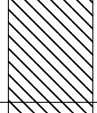
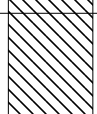
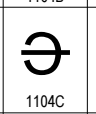
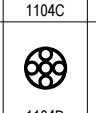


Figure 5. Example from the IndoSkript project, showing a variety of early independent vocalic *l̄*'s.

	1100	1101	1102	1103	1104	1105	1106	1107
0	 11000	 11010	 11020	 11030	 11040		 11060	
1	 11001	 11011	 11021	 11031	 11041		 11061	
2	 11002	 11012	 11022	 11032	 11042	 11052	 11062	
3	 11003	 11013	 11023	 11033	 11043	 11053	 11063	
4	 11004	 11014	 11024	 11034	 11044	 11054	 11064	
5	 11005	 11015	 11025	 11035	 11045	 11055	 11065	
6	 11006	 11016	 11026	 11036	 11046	 11056	 11066	
7	 11007	 11017	 11027	 11037	 11047	 11057	 11067	
8	 11008	 11018	 11028	 11038	 11048	 11058	 11068	
9	 11009	 11019	 11029	 11039	 11049	 11059	 11069	
A	 1100A	 1101A	 1102A	 1103A	 1104A	 1105A	 1106A	
B	 1100B	 1101B	 1102B	 1103B	 1104B	 1105B	 1106B	
C	 1100C	 1101C	 1102C	 1103C	 1104C	 1105C	 1106C	
D	 1100D	 1101D	 1102D	 1103D	 1104D	 1105D	 1106D	
E	 1100E	 1101E	 1102E	 1103E		 1105E	 1106E	
F	 1100F	 1101F	 1102F	 1103F		 1105F	 1106F	

Various signs

11000	𑀓	BRAHMI SIGN CANDRABINDU
11001	𑀔	BRAHMI SIGN ANUSVARA
11002	𑀕	BRAHMI SIGN VISARGA
11003	𑀖	BRAHMI SIGN JIHVAMULIYA
11004	𑀗	BRAHMI SIGN UPADHMANYA

Independent vowels

11005	𑀘	BRAHMI LETTER A
11006	𑀙	BRAHMI LETTER AA
11007	𑀚	BRAHMI LETTER I
11008	𑀛	BRAHMI LETTER II
11009	𑀜	BRAHMI LETTER U
1100A	𑀝	BRAHMI LETTER UU
1100B	𑀞	BRAHMI LETTER VOCALIC R
1100C	𑀟	BRAHMI LETTER VOCALIC RR
1100D	𑀠	BRAHMI LETTER VOCALIC L
1100E	𑀡	BRAHMI LETTER VOCALIC LL
1100F	𑀢	BRAHMI LETTER E
11010	𑀣	BRAHMI LETTER AI
11011	𑀤	BRAHMI LETTER O
11012	𑀥	BRAHMI LETTER AU

Consonants

11013	𑀦	BRAHMI LETTER KA
11014	𑀧	BRAHMI LETTER KHA
11015	𑀨	BRAHMI LETTER GA
11016	𑀩	BRAHMI LETTER GHA
11017	𑀪	BRAHMI LETTER NGA
11018	𑀫	BRAHMI LETTER CA
11019	𑀬	BRAHMI LETTER CHA
1101A	𑀭	BRAHMI LETTER JA
1101B	𑀮	BRAHMI LETTER JHA
1101C	𑀯	BRAHMI LETTER NYA
1101D	𑀰	BRAHMI LETTER TTA
1101E	𑀱	BRAHMI LETTER TTHA
1101F	𑀲	BRAHMI LETTER DDA
11020	𑀳	BRAHMI LETTER DDHA
11021	𑀴	BRAHMI LETTER NNA
11022	𑀵	BRAHMI LETTER TA
11023	𑀶	BRAHMI LETTER THA
11024	𑀷	BRAHMI LETTER DA
11025	𑀸	BRAHMI LETTER DHA
11026	𑀹	BRAHMI LETTER NA
11027	𑀺	BRAHMI LETTER PA
11028	𑀻	BRAHMI LETTER PHA
11029	𑀼	BRAHMI LETTER BA
1102A	𑀽	BRAHMI LETTER BHA
1102B	𑀾	BRAHMI LETTER MA
1102C	𑀿	BRAHMI LETTER YA
1102D	𑁀	BRAHMI LETTER RA
1102E	𑁁	BRAHMI LETTER LA
1102F	𑁂	BRAHMI LETTER VA
11030	𑁃	BRAHMI LETTER SHA
11031	𑁄	BRAHMI LETTER SSA
11032	𑁅	BRAHMI LETTER SA
11033	𑁆	BRAHMI LETTER HA
11034	𑁇	BRAHMI LETTER LLA
11035	𑁈	BRAHMI LETTER TAMIL LLLA
11036	𑁉	BRAHMI LETTER TAMIL RRA

11037 𑁊 BRAHMI LETTER TAMIL NNNA

Dependent vowel signs

11038	𑁋	BRAHMI VOWEL SIGN AA
11039	𑁌	BRAHMI VOWEL SIGN BHATTIPROLU AA
1103A	𑁍	BRAHMI VOWEL SIGN I
1103B	𑁎	BRAHMI VOWEL SIGN II
1103C	𑁏	BRAHMI VOWEL SIGN U
1103D	𑁐	BRAHMI VOWEL SIGN UU
1103E	𑁑	BRAHMI VOWEL SIGN VOCALIC R
1103F	𑁒	BRAHMI VOWEL SIGN VOCALIC RR
11040	𑁓	BRAHMI VOWEL SIGN VOCALIC L
11041	𑁔	BRAHMI VOWEL SIGN VOCALIC LL
11042	𑁕	BRAHMI VOWEL SIGN E
11043	𑁖	BRAHMI VOWEL SIGN AI
11044	𑁗	BRAHMI VOWEL O
11045	𑁘	BRAHMI VOWEL AU

Sign

11046 𑁙 BRAHMI VIRAMA

Punctuation

11047	𑁚	BRAHMI DANDA
11048	𑁛	BRAHMI DOUBLE DANDA
11049	𑁜	BRAHMI PUNCTUATION DOT
1104A	𑁝	BRAHMI PUNCTUATION DOUBLE DOT
1104B	𑁞	BRAHMI PUNCTUATION LINE
1104C	𑁟	BRAHMI PUNCTUATION CRESCENT BAR
1104D	𑁠	BRAHMI PUNCTUATION LOTUS

Numbers

11052	𑁡	BRAHMI NUMBER ONE
11053	𑁢	BRAHMI NUMBER TWO
11054	𑁣	BRAHMI NUMBER THREE
11055	𑁤	BRAHMI NUMBER FOUR
11056	𑁥	BRAHMI NUMBER FIVE
11057	𑁦	BRAHMI NUMBER SIX
11058	𑁧	BRAHMI NUMBER SEVEN
11059	𑁨	BRAHMI NUMBER EIGHT
1105A	𑁩	BRAHMI NUMBER NINE
1105B	𑁪	BRAHMI NUMBER TEN
1105C	𑁫	BRAHMI NUMBER TWENTY
1105D	𑁬	BRAHMI NUMBER THIRTY
1105E	𑁭	BRAHMI NUMBER FORTY
1105F	𑁮	BRAHMI NUMBER FIFTY
11060	𑁯	BRAHMI NUMBER SIXTY
11061	𑁰	BRAHMI NUMBER SEVENTY
11062	𑁱	BRAHMI NUMBER EIGHTY
11063	𑁲	BRAHMI NUMBER NINETY
11064	𑁳	BRAHMI NUMBER ONE HUNDRED
11065	𑁴	BRAHMI NUMBER ONE THOUSAND

Digits

11066	𑁵	BRAHMI DIGIT ZERO
11067	𑁶	BRAHMI DIGIT ONE
11068	𑁷	BRAHMI DIGIT TWO
11069	𑁸	BRAHMI DIGIT THREE
1106A	𑁹	BRAHMI DIGIT FOUR
1106B	𑁺	BRAHMI DIGIT FIVE
1106C	𑁻	BRAHMI DIGIT SIX
1106D	𑁼	BRAHMI DIGIT SEVEN

1106E 𑀤 BRAHMI DIGIT EIGHT
1106F 𑀥 BRAHMI DIGIT NINE