

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

Doc Type: Working Group Document
Title: Exploratory proposal to encode Germanicist, Nordicist,
and other phonetic characters in the UCS
Source: Michael Everson
Status: Individual Contribution
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This proposal explores the encoding of a fairly large collection of Latin characters for specialist phonetic use, in particular the characters used in the specialized dialect alphabets used in Germany and Austria, in Denmark and Norway, and in Sweden, some additional characters used in older Uralicist publications, as well as some characters used in Sir James Pitmann's Initial Teaching Alphabet, and some phonetic characters devised by Benjamin Franklin.

13 characters tentatively placed in the range 1DE7..1DF3 are combining Latin letters used in German dialectology, in a system called Teuthonista.

2 characters placed in the range 1DFB..1DFC are used with triplets in German dialectology. The triplets can contrast with doublets linked with the DOUBLE BREVE BELOW and DOUBLE INVERTED BREVE. These are distinctive also in legacy font sets used by Germanists.

21 characters placed in a new block at A9E0..A9F4 include 6 parenthesized diacritics above, 1 parenthesized diacritic above, and 7 parenthesized diacritics below. Parenthesization indicates weakened affect of the modifier on pronunciation.

16 characters placed in the SMP at 1E000..1E00F are used in Danish and Norwegian dialectology, in alphabets called "Dania" and "Norvegia" respectively. The reverse italic letters are conventionally rendered vertically when set in italic type. Thus roman type "oq" is intended to be rendered in italic type as "o \mathring{q} ". (A similar roman/italic alternation is known in Uralic Phonetic Alphabet practice, where roman "aa" is italicized "aa".)

10 characters placed at 1E010..1E019 for support of early Uralicist phonetic text.

42 characters placed at 1E020..1E049 for support of German dialectology. The first 20 of these are best encoded as units without decomposition; two of them are also found as superscript letters (1DEB, 1DF1).


























































106 characters placed at 1E050..1E0B9 are used in Swedish dialectology, in an alphabet called "Landsmålsalfabetet" in Swedish and sometimes "Suedia" internationally. A good many subtle distinctions including voiced/voiceless pairs are used in this orthography. Some characters are also used in Icelandic dialectology.






















18 characters placed at 1E0C0..1E0D1 for support of characters used in Sir James Pitman's Initial Teaching Alphabet.

4 characters placed at 1E0E0..1E0E3 for support of phonetic characters devised by Benjamin Franklin.






















9 modifier letter characters placed at 1E0F0..1E0F8 for used in Teuthonista and Norvegia.

Acknowledgements. This project was made possible in part by a grant from the U.S. National Endowment for the Humanities, which funded the which funded the Universal Scripts Project (part of the Script Encoding Initiative at UC Berkeley) in respect of the encoding of phonetic characters for dialectology. Any views, findings, conclusions or recommendations expressed in this publication do not necessarily reflect those of the National Endowment of the Humanities.

| | 1DC | 1DD | 1DE | 1DF |
|---|---|---|---|---|
| 0 |  1DC0 |  1DD0 |  1DE0 |  1DF0 |
| 1 |  1DC1 |  1DD1 |  1DE1 |  1DF1 |
| 2 |  1DC2 |  1DD2 |  1DE2 |  1DF2 |
| 3 |  1DC3 |  1DD3 |  1DE3 |  1DF3 |
| 4 |  1DC4 |  1DD4 |  1DE4 | |
| 5 |  1DC5 |  1DD5 |  1DE5 | |
| 6 |  1DC6 |  1DD6 |  1DE6 | |
| 7 |  1DC7 |  1DD7 |  1DE7 | |
| 8 |  1DC8 |  1DD8 |  1DE8 | |
| 9 |  1DC9 |  1DD9 |  1DE9 | |
| A |  1DCA |  1DDA |  1DEA | |
| B |  1DCB |  1ddb |  1DEB |  1DFB |
| C |  1DCC |  1DDC |  1DEC |  1DFC |
| D |  1DCD |  1DDD |  1DED |  1DFD |
| E |  1DCE |  1DDE |  1DEE |  1DFE |
| F |  1DCF |  1DDF |  1DEF |  1DFF |

| | A9E | A9F |
|---|---|---|
| 0 |  A9E0 |  A9F0 |
| 1 |  A9E1 |  A9F1 |
| 2 |  A9E2 |  A9F2 |
| 3 |  A9E3 |  A9F3 |
| 4 |  A9E4 |  A9F4 |
| 5 |  A9E5 | |
| 6 |  A9E6 | |
| 7 |  A9E7 | |
| 8 |  A9E8 | |
| 9 |  A9E9 | |
| A |  A9EA | |
| B |  A9EB | |
| C |  A9EC | |
| D |  A9ED | |
| E |  A9EE | |
| F |  A9EF | |

Used for German dialectology

| | | |
|------|---|---|
| A9E0 |  | COMBINING DOUBLED CIRCUMFLEX ACCENT |
| A9E1 |  | COMBINING DIAERESIS-RING |
| A9E2 |  | COMBINING PARENTHESESIZED TILDE |
| A9E3 |  | COMBINING DOUBLE PARENTHESESIZED TILDE |
| A9E4 |  | COMBINING PARENTHESESIZED MACRON |
| A9E5 |  | COMBINING PARENTHESESIZED BREVE |
| A9E6 |  | COMBINING PARENTHESESIZED DIAERESIS |
| A9E7 |  | COMBINING PARENTHESESIZED CARON |
| A9E8 |  | COMBINING PARENTHESESIZED LATIN SMALL LETTER A |
| A9E9 |  | COMBINING X-X BELOW |
| A9EA |  | COMBINING RING-X BELOW |
| A9EB |  | COMBINING DIAERESIS-MACRON-DIAERESIS BELOW |
| A9EC |  | COMBINING LENIS MARK BELOW |
| A9ED |  | COMBINING DOUBLE LENIS MARK BELOW |
| A9EE |  | COMBINING PARENTHESESIZED LENIS MARK BELOW |
| A9EF |  | COMBINING PARENTHESESIZED DOUBLE LENIS MARK BELOW |
| A9F0 |  | COMBINING PARENTHESESIZED DIAERESIS BELOW |
| A9F1 |  | COMBINING PARENTHESESIZED DOT BELOW |
| A9F2 |  | COMBINING PARENTHESESIZED RING BELOW |
| A9F3 |  | COMBINING PARENTHESESIZED VERTICAL LINE BELOW |
| A9F4 |  | COMBINING PARENTHESESIZED INVERTED BREVE BELOW |

| | 1E00 | 1E01 | 1E02 | 1E03 | 1E04 | 1E05 | 1E06 | 1E07 | 1E08 | 1E09 | 1E0A | 1E0B | 1E0C | 1E0D | 1E0E | 1E0F | |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|------------|
| 0 | a 1E000 | b 1E010 | ǎ 1E020 | ɛ 1E030 | ɹ 1E040 | ɑ 1E050 | ɖ 1E060 | ɸ 1E070 | ɳ 1E080 | ɤ 1E090 | ʒ 1E0A0 | ɥ 1E0B0 | ɔ 1E0C0 | ou 1E0D0 | ɰ 1E0E0 | æ 1E0F0 | |
| 1 | b 1E001 | ɖ 1E011 | ɛ 1E021 | ɹ 1E031 | u 1E041 | ɑ 1E051 | ɔ 1E061 | ɑ 1E071 | ɳ 1E081 | ɤ 1E091 | ʒ 1E0A1 | ɥ 1E0B1 | ɰ 1E0C1 | oi 1E0D1 | h 1E0E1 | ɛ 1E0F1 | |
| 2 | d 1E002 | ɖ 1E012 | ɹ 1E022 | o 1E032 | χ 1E042 | ɑ 1E052 | ɖ 1E062 | l 1E072 | ɳ 1E082 | ɤ 1E092 | ʒ 1E0A2 | ɥ 1E0B2 | ie 1E0C2 | | h 1E0E2 | ɛ 1E0F2 | |
| 3 | ə 1E003 | g 1E013 | o 1E023 | μ 1E033 | χ 1E043 | ɸ 1E053 | ɖ 1E063 | i 1E073 | ɳ 1E083 | ɤ 1E093 | ʒ 1E0A3 | ɥ 1E0B3 | ue 1E0C3 | | h 1E0E3 | i 1E0F3 | |
| 4 | i 1E004 | ɸ 1E014 | μ 1E024 | ɸ 1E034 | χ 1E044 | ɑ 1E054 | ɖ 1E064 | i 1E074 | ɳ 1E084 | ɤ 1E094 | ʒ 1E0A4 | ɥ 1E0B4 | ɰ 1E0C4 | | | l 1E0F4 | |
| 5 | l 1E005 | l 1E015 | ǎ 1E025 | ɖ 1E035 | χ 1E045 | ɸ 1E055 | ɖ 1E065 | k 1E075 | ɳ 1E085 | ɤ 1E095 | ʒ 1E0A5 | ɥ 1E0B5 | wh 1E0C5 | | | R 1E0F5 | |
| 6 | m 1E006 | ɸ 1E016 | ɛ 1E026 | f 1E036 | χ 1E046 | ɸ 1E056 | ɖ 1E066 | ɳ 1E076 | ɤ 1E086 | ɤ 1E096 | ʒ 1E0A6 | ɥ 1E0B6 | ɰ 1E0C6 | | | ɳ 1E0F6 | |
| 7 | n 1E007 | ə 1E017 | ɹ 1E027 | g 1E037 | χ 1E047 | ɛ 1E057 | ɖ 1E067 | ɳ 1E077 | g 1E087 | ɤ 1E097 | ʒ 1E0A7 | ɥ 1E0B7 | th 1E0C7 | | | s 1E0F7 | |
| 8 | o 1E008 | ɸ 1E018 | o 1E028 | g 1E038 | χ 1E048 | ə 1E058 | ə 1E068 | l 1E078 | ɳ 1E088 | ɤ 1E098 | ʒ 1E0A8 | ɥ 1E0B8 | z 1E0C8 | th 1E0D8 | | | ˘ 1E0F8 |
| 9 | ø 1E009 | ʒ 1E019 | μ 1E029 | ɸ 1E039 | o 1E049 | ɑ 1E059 | ɛ 1E069 | l 1E079 | ɳ 1E089 | ɤ 1E099 | u 1E0A9 | z 1E0B9 | ʒ 1E0C9 | | | | |
| A | æ 1E00A | | ǎ 1E02A | ɸ 1E03A | | æ 1E05A | ɸ 1E06A | l 1E07A | ɳ 1E08A | ɤ 1E09A | u 1E0AA | | ɳ 1E0CA | | | | |
| B | r 1E00B | | ɛ 1E02B | ɸ 1E03B | | æ 1E05B | ɳ 1E06B | l 1E07B | ɸ 1E08B | ɥ 1E09B | ɰ 1E0AB | | ɸ 1E0CB | | | | |
| C | s 1E00C | | ɹ 1E02C | ɳ 1E03C | | æ 1E05C | ɳ 1E06C | l 1E07C | ɸ 1E08C | ɥ 1E09C | ɰ 1E0AC | | ɑ 1E0CC | | | | |
| D | t 1E00D | | o 1E02D | l 1E03D | | ɸ 1E05D | g 1E06D | m 1E07D | ɸ 1E08D | ɸ 1E09D | ɰ 1E0AD | | au 1E0CD | | | | |
| E | u 1E00E | | μ 1E02E | ɸ 1E03E | | ɸ 1E05E | g 1E06E | n 1E07E | ɸ 1E08E | ɸ 1E09E | ɳ 1E0AE | | ω 1E0CE | | | | |
| F | y 1E00F | | ǎ 1E02F | ɳ 1E03F | | ɳ 1E05F | ɸ 1E06F | ɳ 1E07F | ɸ 1E08F | ʒ 1E09F | ɳ 1E0AF | | ω 1E0CF | | | | |

Letters for Danish and Norwegian dialectology

| | | |
|-------|----------|---|
| 1E000 | a | LATIN SMALL LETTER REVERSE ITALIC A |
| 1E001 | b | LATIN SMALL LETTER REVERSE ITALIC B |
| 1E002 | d | LATIN SMALL LETTER REVERSE ITALIC D |
| 1E003 | ə | LATIN SMALL LETTER REVERSE ITALIC SCHWA |
| 1E004 | i | LATIN SMALL LETTER REVERSE ITALIC I |
| 1E005 | l | LATIN SMALL LETTER REVERSE ITALIC L |
| 1E006 | m | LATIN SMALL LETTER REVERSE ITALIC M |
| 1E007 | n | LATIN SMALL LETTER REVERSE ITALIC N |
| 1E008 | o | LATIN SMALL LETTER REVERSE ITALIC O |
| 1E009 | ø | LATIN SMALL LETTER REVERSE ITALIC O WITH STROKE |
| 1E00A | œ | LATIN SMALL LETTER REVERSE ITALIC OE |
| 1E00B | r | LATIN SMALL LETTER REVERSE ITALIC R |
| 1E00C | s | LATIN SMALL LETTER REVERSE ITALIC S |
| 1E00D | t | LATIN SMALL LETTER REVERSE ITALIC T |
| 1E00E | u | LATIN SMALL LETTER REVERSE ITALIC U |
| 1E00F | y | LATIN SMALL LETTER REVERSE ITALIC Y |

Letters for Uralicist dialectology

| | | |
|-------|-----------|---|
| 1E010 | b̥ | LATIN SMALL LETTER B WITH REVERSED STROKE |
| 1E011 | ḋ | LATIN SMALL LETTER D WITH REVERSED STROKE |
| 1E012 | ḏ | LATIN SMALL LETTER D WITH HIGH CIRCUMFLEX |
| 1E013 | ḡ | LATIN SMALL LETTER G WITH REVERSED STROKE |
| 1E014 | ḥ | LATIN SMALL LETTER DOTLESS I WITH STROKE |
| 1E015 | ḷ | LATIN SMALL LETTER L WITH HIGH CIRCUMFLEX |
| 1E016 | ḽ | LATIN SMALL LETTER L WITH LEFT CURLICUE |
| 1E017 | Ḟ | LATIN SMALL LETTER CLOSED OPEN E WITH HORIZONTAL STROKE |
| 1E018 | ṭ | LATIN SMALL LETTER T WITH REVERSED CURL |
| 1E019 | ṣ̥ | LATIN SMALL LETTER EZH WITH REVERSED STROKE |

Letters for German dialectology

| | | |
|-------|----------|---|
| 1E020 | Ḃ | LATIN SMALL LETTER LIGHTLY CENTRALIZED A |
| 1E021 | Ḅ | LATIN SMALL LETTER LIGHTLY CENTRALIZED E |
| 1E022 | Ḇ | LATIN SMALL LETTER LIGHTLY CENTRALIZED I |
| 1E023 | Ḉ | LATIN SMALL LETTER LIGHTLY CENTRALIZED O |
| 1E024 | Ḋ | LATIN SMALL LETTER LIGHTLY CENTRALIZED U |
| 1E025 | Ḧ | LATIN SMALL LETTER STRONGLY CENTRALIZED A |
| 1E026 | Ḩ | LATIN SMALL LETTER STRONGLY CENTRALIZED E |
| 1E027 | Ḫ | LATIN SMALL LETTER STRONGLY CENTRALIZED I |
| 1E028 | Ḭ | LATIN SMALL LETTER STRONGLY CENTRALIZED O |

| | | |
|-------|-----------|---|
| 1E029 | Ḱ | LATIN SMALL LETTER STRONGLY CENTRALIZED U |
| 1E02A | Ḳ | LATIN SMALL LETTER LESS LIGHTLY CENTRALIZED A |
| 1E02B | Ḵ | LATIN SMALL LETTER LESS LIGHTLY CENTRALIZED E |
| 1E02C | Ḷ | LATIN SMALL LETTER LESS LIGHTLY CENTRALIZED I |
| 1E02D | Ḹ | LATIN SMALL LETTER LESS LIGHTLY CENTRALIZED O |
| 1E02E | Ḻ | LATIN SMALL LETTER LESS LIGHTLY CENTRALIZED U |
| 1E02F | Ḽ | LATIN SMALL LETTER LESS STRONGLY CENTRALIZED A |
| 1E030 | Ḿ | LATIN SMALL LETTER LESS STRONGLY CENTRALIZED E |
| 1E031 | Ḻ̇ | LATIN SMALL LETTER LESS STRONGLY CENTRALIZED I |
| 1E032 | Ḽ̇ | LATIN SMALL LETTER LESS STRONGLY CENTRALIZED O |
| 1E033 | Ḻ̈ | LATIN SMALL LETTER LESS STRONGLY CENTRALIZED U |
| 1E034 | ḃ | LATIN SMALL LETTER B WITH TILDE → 0180 ḃ latin small letter b with stroke |
| 1E035 | ḏ̇ | LATIN SMALL LETTER D WITH TILDE → 0111 ḏ̇ latin small letter d with stroke |
| 1E036 | f̥ | LATIN SMALL LETTER LENIS F → 0066 f̥ latin small letter f |
| 1E037 | ḡ | LATIN SMALL LETTER SCRIPT G WITH TILDE |
| 1E038 | ḣ | LATIN SMALL LETTER SCRIPT G WITH LOW STROKE → 01E5 ḣ latin small letter g with stroke |
| 1E039 | ḥ̈ | LATIN SMALL LETTER L WITH DOUBLE MIDDLE TILDE |
| 1E03A | ḥ̇ | LATIN SMALL LETTER L WITH PARENTHESES MIDDLE TILDE |
| 1E03B | ḥ̆ | LATIN SMALL LETTER L WITH INVERTED LAZY S |
| 1E03C | ṅ | LATIN SMALL LETTER N WITH STROKE |
| 1E03D | ṛ | LATIN SMALL LETTER R WITH SPUR |
| 1E03E | Ṛ | LATIN SMALL LETTER STIRRUP R |
| 1E03F | Ṛ̇ | LATIN SMALL LETTER SMALL CAPITAL R WITH LONG RIGHT LEG |
| 1E040 | ṽ | LATIN SMALL LETTER BROKEN U |
| 1E041 | ṹ | LATIN SMALL LETTER U WITH LEFT RING |
| 1E042 | ḫ̇ | LATIN SMALL LETTER CHI → 03C7 ḫ̇ greek small letter chi |
| 1E043 | ḫ̆ | LATIN SMALL LETTER HALF CHI |
| 1E044 | ḫ̅ | LATIN SMALL LETTER CHI WITH LOW LEFT RING |
| 1E045 | ḫ̄ | LATIN SMALL LETTER HALF CHI WITH LOW RIGHT RING |
| 1E046 | ḫ̃ | LATIN SMALL LETTER X WITH LOW RIGHT RING |
| 1E047 | ḫ̂ | LATIN SMALL LETTER CHI WITH LOW LEFT SERIF |
| 1E048 | ḫ́ | LATIN SMALL LETTER HALF CHI WITH LOW LEFT SERIF |
| 1E049 | ȯ | LATIN SMALL LETTER STRETCHED O |

Letters for Swedish dialectology

| | | |
|-------|-----------|--|
| 1E050 | Ḃ̇ | LATIN SMALL LETTER SCRIPT A WITH LOW RING INSIDE |
|-------|-----------|--|

| | | | | | |
|-------|----|--|-------|----|--|
| 1E051 | ɑ | LATIN SMALL LETTER SCRIPT A WITH HIGH RING INSIDE | 1E06E | ɡ | LATIN SMALL LETTER G WITH DIAGONAL STROKE |
| 1E052 | ⱶ | LATIN SMALL LETTER SCRIPT A WITH BACK NOTCH | 1E06F | Ɠ | LATIN SMALL LETTER SCRIPT G WITH STROKE |
| 1E053 | ⱷ | LATIN SMALL LETTER TURNED SCRIPT A WITH BACK NOTCH | 1E070 | ɪ̇ | LATIN SMALL LETTER DOTLESS I WITH RIGHT RING |
| 1E054 | ⱸ | LATIN SMALL LETTER SCRIPT A WITH NOTCH | 1E071 | ɿ | LATIN SMALL LETTER DOTLESS I WITH LEFT RING |
| 1E055 | ⱹ | LATIN SMALL LETTER TURNED SCRIPT A WITH NOTCH | 1E072 | ı̇ | LATIN SMALL LETTER STRETCHED DOTLESS I → 0237 j latin small letter dotless j |
| 1E056 | ⱺ | LATIN SMALL LETTER SCRIPT A TURNED SCRIPT A = coffee bean | 1E073 | ı̇ | LATIN SMALL LETTER IOTA WITH DOT → 0269 ι latin small letter iota |
| 1E057 | ⱻ | LATIN SMALL LETTER SCRIPT A E | 1E074 | ı̇ | LATIN SMALL LETTER STRETCHED IOTA WITH DOT |
| 1E058 | ⱼ | LATIN SMALL LETTER TURNED SCRIPT A E | 1E075 | к̑ | LATIN SMALL LETTER K WITH CYRILLIC HOOK |
| 1E059 | ⱽ | LATIN SMALL LETTER SCRIPT A E WITH NOTCH | 1E076 | к̑ | LATIN SMALL LETTER K WITH LOW REVERSED CURL palatal k |
| 1E05A | Ȿ | LATIN SMALL LETTER A WITH BACK NOTCH E | 1E077 | к̑ | LATIN SMALL LETTER K WITH LOW REVERSED CURL AND STROKE |
| 1E05B | Ɀ | LATIN SMALL LETTER TURNED A WITH BACK NOTCH E | 1E078 | ł̑ | LATIN SMALL LETTER L WITH BARB thick l |
| 1E05C | Ȿ | LATIN SMALL LETTER A WITH BACK NOTCH E WITH NOTCH | 1E079 | ł̑ | LATIN SMALL LETTER L WITH BARB AND HOOK |
| 1E05D | ɸ | LATIN SMALL LETTER B WITH HIGH CIRCUMFLEX voiceless b | 1E07A | ł̑ | LATIN SMALL LETTER L WITH HOOKED BARB voiceless thick l |
| 1E05E | β | LATIN SMALL LETTER FRICATIVE B | 1E07B | ł̑ | LATIN SMALL LETTER L WITH HOOKED BARB AND HOOK |
| 1E05F | ç | LATIN SMALL LETTER C WITH REVERSED CURL | 1E07C | ł̑ | LATIN SMALL LETTER L WITH REVERSED LOW CURL palatal l |
| 1E060 | ɖ | LATIN SMALL LETTER D WITH TAIL AND HIGH CIRCUMFLEX voiceless supradental d → 0256 ɖ latin small letter d with tail | 1E07D | ɱ | LATIN SMALL LETTER M WITH TILDE SERIF voiceless m |
| 1E061 | ɖ | LATIN SMALL LETTER D WITH BARB cacuminal d | 1E07E | ɱ | LATIN SMALL LETTER N WITH TILDE SERIF voiceless m |
| 1E062 | ɖ | LATIN SMALL LETTER D WITH BARB AND HIGH CIRCUMFLEX voiceless cacuminal d | 1E07F | ɱ | LATIN SMALL LETTER N WITH RETROFLEX HOOK AND TILDE SERIF voiceless supradental n → 0273 ɱ latin small letter n with retroflex hook |
| 1E063 | ɖ | LATIN SMALL LETTER D WITH REVERSED CURL palatal d | 1E080 | ɱ | LATIN SMALL LETTER N WITH BARB cacuminal n |
| 1E064 | ɖ | LATIN SMALL LETTER D WITH REVERSED CURL AND HIGH CIRCUMFLEX voicelss palatal d | 1E081 | ɱ | LATIN SMALL LETTER N WITH BARB AND TILDE SERIF voiceless cacuminal n |
| 1E065 | ɖ | LATIN SMALL LETTER FRICATIVE D | 1E082 | ɱ | LATIN SMALL LETTER N WITH LOW REVERSED CURL palatal n |
| 1E066 | ɖ | LATIN SMALL LETTER D WITH CYRILLIC HOOK | 1E083 | ɱ | LATIN SMALL LETTER N WITH LOW REVERSED CURL AND TILDE SERIF voiceless palatal n |
| 1E067 | ð | LATIN SMALL LETTER ETH WITH STROKE | 1E084 | ɱ | LATIN SMALL LETTER NWAIR labiodental n |
| 1E068 | ɷ | LATIN SMALL LETTER TURNED E WITH NOTCH → 2C78 e latin small letter e with notch | 1E085 | ɱ | LATIN SMALL LETTER NWAIR WITH TILDE SERIF voiceless labiodental n |
| 1E069 | ɸ | LATIN SMALL LETTER STRETCHED E | | | |
| 1E06A | ϕ | LATIN SMALL LETTER PHI WITH TAIL → 2C77 ϕ latin small letter tailless phi | | | |
| 1E06B | γ | LATIN SMALL LETTER GAMMA WITH RING → 0263 γ latin small letter gamma → 03B3 γ greek small letter gamma | | | |
| 1E06C | γ | LATIN SMALL LETTER GAMMA WITH VERTICAL TAIL | | | |
| 1E06D | ɡ̑ | LATIN SMALL LETTER CAROLINGIAN G WITH PALATAL HOOK → 1D83 ɡ̑ latin small letter g with palatal hook | | | |

| | | | | | |
|-------|----|---|--|----|---|
| 1E086 | ŋ | LATIN SMALL LETTER ENG WITH TILDE SERIF voiceless eng → 014B ŋ latin small letter eng | 1E0A5 | ƒ | LATIN SMALL LETTER ESH WITH LEFT DIAGONAL STROKE |
| 1E087 | ɢ | LATIN SMALL LETTER ENG WITH G BOWL uvular eng | 1E0A6 | ƚ | LATIN SMALL LETTER T WITH BARB cacuminal t |
| 1E088 | ɣ | LATIN SMALL LETTER ENG WITH G BOWL AND TILDE SERIF voiceless uvular eng | 1E0A7 | ɹ | LATIN SMALL LETTER T WITH LOW REVERSED CURL |
| 1E089 | ɸ | LATIN SMALL LETTER ENG WITH BACK NOTCH | 1E0A8 | ѳ | LATIN SMALL LETTER T WITH CYRILLIC HOOK |
| 1E08A | ɹ | LATIN SMALL LETTER ENG WITH WAVY RIGHT LEG | 1E0A9 | ɯ | LATIN SMALL LETTER CLOSED U |
| 1E08B | ɔ̃ | LATIN SMALL LETTER REVERSED O WITH STROKE → 01FF ɔ̃ latin small letter o with stroke | 1E0AA | ɰ | LATIN SMALL LETTER U WITH NOTCH |
| 1E08C | ɔ̂ | LATIN SMALL LETTER O WITH LOW CURVED STROKE | 1E0AB | ɱ | LATIN SMALL LETTER CLOSED U WITH NOTCH |
| 1E08D | ɔ̃ | LATIN SMALL LETTER O WITH HIGH CURVED STROKE | 1E0AC | ɱ̃ | LATIN SMALL LETTER CLOSED TURNED M → 026F ɱ̃ latin small letter turned m |
| 1E08E | ɔ̄ | LATIN SMALL LETTER O WITH HIGH OPEN RING egg | 1E0AD | Ѱ | LATIN SMALL LETTER X WITH CYRILLIC HOOK → 04FC Ѱ cyrillic small letter ha with hook |
| 1E08F | ɔ̅ | LATIN SMALL LETTER CLOSED OPEN E WITH STROKE | 1E0AE | ɶ | LATIN SMALL LETTER NASAL Y |
| 1E090 | ɔ̆ | LATIN SMALL LETTER OU WITH LACHRYMAL TERMINALS | 1E0AF | ɷ | LATIN SMALL LETTER SCRIPT Y |
| 1E091 | ɔ̇ | LATIN SMALL LETTER OU WITH LACHRYMAL TERMINALS AND LEFT DIAGONAL STROKE | 1E0B0 | ɸ | LATIN SMALL LETTER SCRIPT Y WITH LEFT RING |
| 1E092 | ɔ̈ | LATIN SMALL LETTER OU WITH LACHRYMAL TERMINALS AND HIGH OPEN RING | 1E0B1 | ɹ̥ | LATIN SMALL LETTER BROKEN Y delabialized y |
| 1E093 | ɽ | LATIN SMALL LETTER R WITH TILDE SERIF voiceless r | 1E0B2 | ɻ | LATIN SMALL LETTER NASAL SCRIPT Y |
| 1E094 | ɽ̃ | LATIN SMALL LETTER R WITH STROKE | 1E0B3 | ɻ̥ | LATIN SMALL LETTER OPEN Y |
| 1E095 | ɽ̄ | LATIN SMALL LETTER R WITH STROKE AND TILDE SERIF | 1E0B4 | ɻ̇ | LATIN SMALL LETTER NASAL OPEN Y |
| 1E096 | ɽ̅ | LATIN SMALL LETTER R WITH DIAGONAL STROKE | 1E0B5 | ɻ̈ | LATIN SMALL LETTER SCRIPT Y WITH NOTCH |
| 1E097 | ɽ̆ | LATIN SMALL LETTER SMALL CAPITAL R WITH TILDE SERIF | 1E0B6 | ɻ̉ | LATIN SMALL LETTER OPEN SCRIPT Y WITH NOTCH |
| 1E098 | ɽ̇ | LATIN SMALL LETTER HALF SCRIPT R | 1E0B7 | ɺ | LATIN SMALL LETTER U WITH HOOK TAIL → 0265 ɺ latin small letter turned h |
| 1E099 | ɽ̈ | LATIN SMALL LETTER SCRIPT R | 1E0B8 | ɻ̃ | LATIN SMALL LETTER Z WITH HOOKED BASE |
| 1E09A | ɽ̉ | LATIN SMALL LETTER SCRIPT R WITH TILDE SERIF | 1E0B9 | ɻ̄ | LATIN SMALL LETTER Z WITH LOW REVERSED CURL → 0291 ɻ̄ latin small letter z with curl |
| 1E09B | ɽ̊ | LATIN SMALL LETTER TURNED SCRIPT R | Letters for the Initial Teaching Alphabet | | |
| 1E09C | ɽ̋ | LATIN SMALL LETTER TURNED SCRIPT R WITH TILDE SERIF | 1E0C0 | ɿ | LATIN SMALL LETTER DID |
| 1E09D | ɽ̌ | LATIN SMALL LETTER TURNED SCRIPT R WITH STROKE | 1E0C1 | ɿ̃ | LATIN SMALL LETTER EEN |
| 1E09E | ɽ̍ | LATIN SMALL LETTER TURNED SCRIPT R WITH STROKE AND TILDE SERIF | 1E0C2 | ɿ̄ | LATIN SMALL LETTER IDE |
| 1E09F | ɿ | LATIN SMALL LETTER S WITH BARB cacuminal s | 1E0C3 | ɿ̅ | LATIN SMALL LETTER UNE |
| 1E0A0 | ɿ̃ | LATIN SMALL LETTER S WITH REVERSED CURL | 1E0C4 | ɿ̆ | LATIN SMALL LETTER ZESS |
| 1E0A1 | ɿ̄ | LATIN SMALL LETTER S WITH CYRILLIC HOOK | 1E0C5 | ɿ̇ | LATIN SMALL LETTER WHEE |
| 1E0A2 | ɿ̅ | LATIN SMALL LETTER ESJ | 1E0C6 | ɿ̈ | LATIN SMALL LETTER CHAY |
| 1E0A3 | ɿ̆ | LATIN SMALL LETTER ESH WITH RING | 1E0C7 | ɿ̉ | LATIN SMALL LETTER ITH → 1D7A ɿ̉ latin small letter th with strikethrough |
| 1E0A4 | ɿ̇ | LATIN SMALL LETTER BACK ESH | 1E0C8 | ɿ̊ | LATIN SMALL LETTER THEE |
| | | | 1E0C9 | ɿ̋ | LATIN SMALL LETTER ISH |
| | | | 1E0CA | ɿ̌ | LATIN SMALL LETTER ING → 014B ɿ̌ latin small letter eng |
| | | | 1E0CB | ɿ̍ | LATIN SMALL LETTER ER |
| | | | 1E0CC | ɿ̎ | LATIN SMALL LETTER ASK |
| | | | 1E0CD | ɿ̏ | LATIN SMALL LETTER AUD |
| | | | 1E0CE | ɿ̐ | LATIN SMALL LETTER OOT |
| | | | 1E0CF | ɿ̑ | LATIN SMALL LETTER OOD |
| | | | 1E0D0 | ɿ̒ | LATIN SMALL LETTER OUN |
| | | | 1E0D1 | ɿ̓ | LATIN SMALL LETTER OIL |

Phonetic letters devised by Benjamin Franklin

- 1E0E0 **ɑ** LATIN SMALL LETTER SCRIPT A WITH NOTCH AND HIGH NOTCH
1E0E1 **ɦ** LATIN SMALL LETTER H WITH RETROFLEX HOOK AND ANGLED ASCENDER
1E0E2 **ƒ** LATIN SMALL LETTER H WITH LONG LEFT LEG AND CROSSED ASCENDER
1E0E3 **ĥ** LATIN SMALL LETTER H WITH LONG RIGHT LEG

Modifier letters

- 1E0F0 **æ** MODIFIER LETTER SMALL AE
1E0F1 **ⱸ** MODIFIER LETTER SMALL SCRIPT A E
1E0F2 **ɚ** MODIFIER LETTER SMALL SCHWA WITH HOOK
1E0F3 **i** MODIFIER LETTER SMALL I
1E0F4 **ı** MODIFIER LETTER SMALL DOTLESS I
1E0F5 **ʀ** MODIFIER LETTER SMALL CAPITAL R
1E0F6 **ʁ** MODIFIER LETTER SMALL SCRIPT R
1E0F7 **ꜥ** MODIFIER LETTER SMALL REVERSE ITALIC S
1E0F8 **ʞ** MODIFIER LETTER REVERSED PRIME

A. Administrative

1. Title

Exploratory proposal to encode Germanicist, Nordicist, and other phonetic characters in the UCS

2. Requester's name

Michael Everson

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

Individual contribution.

4. Submission date

2008-11-27

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)

No.

1b. Proposed name of script

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

Yes.

1d. Name of the existing block

Combining Diacritical Marks Supplement, Combining Diacritical Marks Extended, Phonetic Extensions-A

2. Number of characters in proposal

241.

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.2.

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 (ordered preference: True Type, or PostScript format) for publishing the standard?

Michael Everson.

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Michael Everson, Fontographer.

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?

No.

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)?

No.

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 Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> 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?

Odd Einar Haugen, Janne Johannessen, Ulrike Kramer, Marc Wilhelm Küster, Klaas Ruppel, Trond Trosterud, Karl Pentzlin, Sven Peters, Henrik Rosenkvist, Øystein Vangsnes, Eveline Wandl-Vogt, Peter Weiss.

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?

Germanicists, Nordicists, Anglicists, Uralicists.

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

Used historically and in modern editions.

4b. Reference

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

Yes.

5b. If YES, where?

Scholarly publications.

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)?

No.

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?

No, surely not!

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

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

Yes.

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

No.

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?