Unicode request for w with palatal hook

Denis Moyogo Jcquerye, moyogo, gmail.com

Kirk Miller, kirkmiller, gmail.com   2025 February 25

This is an addendum to L2/24-050, IPA letters with palatal hook. A number of such letters theoretically remain, though it is likely that most of them were never used. A few however do appear to be accidental gaps. One of those, *w*, has now been found.

The palatal hook was retired by the IPA after the Kiel convention of 1989. The last official alphabet chart to support it was that of 1979, published as a supplement to JIPA (International Phonetic Association 1978). Table 1 shows palatal-hook and palatal-curl modifications of letters in that chart. (See Figure 3 for the published chart.)

Table 1. Palatal-hook and -curl modifications of non-palatal pulmonic consonants of the 1979 IPA chart, with unattested letters in grey. *W* with palatal hook is highlighted in red.

Characters

Letter with palatal hook

ẇ   1DF82 LATIN SMALL LETTER W WITH PALATAL HOOK.

Properties

1DF82;LATIN SMALL LETTER W WITH PALATAL HOOK;Ll;0;L;;;;;N;;;;;

DoNotEmit data

0077 0321; 1DF82; Precomposed_Form # LATIN SMALL LETTER W, COMBINING PALATALIZED
    HOOK BELOW; LATIN SMALL LETTER W WITH PALATAL HOOK

References

Bengisu Rona Winnick (1972) *The phonetics and phonology of Istanbul Turkish*. University of London.

International Phonetic Association (1978). The International Phonetic Alphabet (Revised to 1979). *Journal of the International Phonetic Association* 8 (1–2). Supplement.

Chart

Greyed out cells are assigned (medium grey) or have been accepted by the SEW (light grey).

	1DF0	1DF1	1DF2	1DF3	1DF4	1DF5	1DF6	1DF7	1DF8	1DF9	1DFA	1DFB	1DFC	1DFD	1DFE	1DFF
0	ffŋ	ʞ	ʥ	ɢ	ᴀ	ɟ	ꭟ	ᶖ	Ꜳ					ɣ	ʥ	ɺ
1	℘	ⱶ	ʥ	ɣ	a	ꛯ	ᵳ	ᶕ	Ɛ					ᴘ	ƀ	ɳ
2	ɔ	ʤ	ꬼ	ꜧ	ə	꛴	ʃh	ꝋ	ꭩ					ᵬ	ʃ	ꬶ
3	ʞ	ꬶ	ꭠ	ꝑ	ᴇ	ꝋ	th	ꝋ						ᵭ	ʃ	ψ
4	ꬲ	ꬿ	tθ	ꝙ	ɛ	χ	ꭡh	ꝏ						ɠ	ʧ	ω
5	ʑ	ɟ	ꭦ	ꭇ	ꬶ	ɣ	wh	ꭎ						ɫ	ʧ	ᶁ
6	ꭗ	ſ	ꬸ	ꭉ	ꜧ	ʔ	ᴢ	℧						ɬ	ꝣ	ꬱ
7	ɑ	ʧ	ꬺ	ꝩ	ꜧ	ɹ	ꬵ	ꝏ						ꭜ	ꝣ	ꬻ
8	ꭒ	ʒ	ꭇ	ʦ	ᴋ	ᴐ	ᴀ	ɦ						ꭔ	ᴅ	ʂ
9	ꭝ	ʤ	ꭇ	ꭒ	k	ꭒ	ɑ	ꝋ						ɉ	ᴧ	ᶎ
A	ʇ	ꞇ	ꝷ	ʄ	ᴍ	a	ᴀ	ᵿ						ꭒ	ᴇ	ꭍ
B	ꭿ	℘	ꬽ	ß	ᴍ	ꜵ	ꬶ	ꭎ						ꭩ	ɿ	ʞ
C	ꭠ	ʧ	ʧ	θ	ꭑ	ɞ	Ɛ	ꭒ						ŋ	ɩ	ꞵ
D	ꭥ	ꞔ	ꝺ	ꭗ	ɴ	ie	ᴈ	ɯ				ɺ	ɾ	ꭚ	ꝺ
E	ꭦ	ꞅ	ʣ	ꭓ	ᴨ	ɔi	ꭔ	ꭎ				ᴑ	ꝏ	ꭚ	ꭼ
F	ɕ	ꝱ	ꬶ	w	ꞃ	ɔu	ꭒ	ꭎ				ᴑ	φ	ꭚ	ꝼ

Figures

Figure 1. Winnick (1972: xi). Note that ⟨w⟩ is used here as a convenience for what would more precisely be transcribed as [β] (para-IPA ⟨ꞵ⟩).

```
2.5.2.1.  Voiced, palatalized, bilabial frictionless continuant   [ ʋ ]

           [ ʋ ] occurs preceded by vowels of the Ö group².

                     [ œʋ ]      öv     'praise'
                     [ ɖœʋ ]     döv    'beat'
                     [ ʂœʋ ]     söv    'curse'³.
```

Figure 2. Winnick (1972: 43). Besides ⟨ʋ⟩, we have *s* with a left palatal hook, ⟨ʂ⟩, which is an allograph of U+1D8A ⟨ʂ⟩.

	Bilabial	Labiodental	Dental, Alveolar, or Post-alveolar	Retroflex	Palato-alveolar	Palatal	Velar	Uvular	Labial-Palatal	Labial-Velar	Pharyngeal	Glottal
Nasal	m	ɱ	n	ɳ		ɲ	ŋ	ɴ				
Plosive	p b		t d	ʈ ɖ		c ɟ	k g	q ɢ		k͡p g͡b		ʔ
(Median) Fricative	ɸ β	f v	θ ð s z	ʂ ʐ	ʃ ʒ	ç j	x ɣ	χ ʁ		ʍ	ħ ʕ	h ɦ
(Median) Approximant		ʋ	ɹ	ɻ		j	ɰ		ɥ	w		
Lateral Fricative			ɬ ɮ									
Lateral (Approximant)			l	ɭ		ʎ						
Trill			r					ʀ				
Tap or Flap			ɾ	ɽ				ʀ				
Ejective	p'		t'				k'					
Implosive	ɓ		ɗ				g					
(Median) Click	ʘ		ǂ ʇ									
Lateral Click			ʖ									

Left margin row groups: CONSONANTS (pulmonic air-stream mechanism); CONSONANTS (non-pulmonic air-stream).

Figure 3. International Phonetic Association (1978). The last consonant chart published by the IPA before the retirement of the palatal hook. Letters attested with a palatal hook or curl are circled in blue, with the requested letter *w* in red. Some others – such as the glottals *ʔ, *ɦ or the implosives *ɓ, *ɠ – may be accidental gaps in attestation, but many of the remainder – particularly the palatal consonants and the click consonants (grey) – are unlikely to have ever been used. Winnick (1972: 30 *ff*, 188 *ff*), for example, uses bare ⟨c ɟ ç⟩ for palatalized equivalents of *k g x* despite using the palatal hook extensively with other IPA letters. (Unicode ç is actually an allograph of velar *g*, not a palatalized palatal letter *c*.) Also circled in grey are the ejectives and labial-velar plosives, which as sequences of Unicode-supported characters do not need separate encoding.

ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646[1]
Please fill all the sections A, B and C below.
Please read Principles and Procedures Document (P & P) from std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.
Please ensure you are using the latest Form from std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.
See also std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html for latest *Roadmaps*.

A. Administrative

1. **Title:** *W with palatal hook*
2. Requester's name: *Kirk Miller, Denis Moyogo Jacquerye*
3. Requester type (Member body/Liaison/Individual contribution): *individual*
4. Submission date: *2025 February 25*
5. Requester's reference (if applicable):
6. Choose one of the following:
   This is a complete proposal: *yes*
   (or) More information will be provided later:

B. Technical – General

1. Choose one of the following:
   a. This proposal is for a new script (set of characters):
      Proposed name of script:
   b. The proposal is for addition of character(s) to an existing block: *yes*
      Name of the existing block: *Latin Extended-G*
2. Number of characters in proposal: *1*
3. Proposed category (select one from below - see section 2.2 of P&P document):
   A-Contemporary ___ **x** 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
4. Is a repertoire including character names provided? *yes*
   a. If YES, are the names in accordance with the "character naming guidelines"
      in Annex L of P&P document? yes
   b. Are the character shapes attached in a legible form suitable for review? *yes*
5. Fonts related:
   a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?
      Kirk Miller
   b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):
      SIL (Gentium Release)
6. References:
   a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? *yes*
   b. Are published examples of use (such as samples from newspapers, magazines, or other sources)
      of proposed characters attached? *yes*
7. Special encoding issues:
   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. Additional Information:

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 www.unicode.org for such information on other scripts. Also see Unicode Character Database (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.

---

[1] Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before? _ _ _ _ *no* _ _ _ _
   If YES explain _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
2. Has contact been made to members of the user community (for example: National Body,
   user groups of the script or characters, other experts, etc.)? _ _ _ _ _ _ _ _ _ _
   If YES, with whom? _ _ _ _ _ _ _ *author is a member of the user community* _ _ _ _ _ _
   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: _
4. The context of use for the proposed characters (type of use; common or rare) _ _ *phonetic* _ _
   Reference: _
5. Are the proposed characters in current use by the user community? _ _ _ *yes* _ _ _
   If YES, where? Reference: _ _ _ _ _ _ _ *see illustrations* _ _ _ _ _ _ _ _ _
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely
   in the BMP? _ _ _ *no* _ _ _
   If YES, is a rationale provided? _ _ _ _ _ _ _ _
   If YES, reference: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)? _ _ *yes* _ _
8. Can any of the proposed characters be considered a presentation form of an existing
   character or character sequence? _ _ *no* _ _
   If YES, is a rationale for its inclusion provided? _ _ _ _ _ _ _ _
   If YES, reference: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
9. Can any of the proposed characters be encoded using a composed character sequence of either
   existing characters or other proposed characters? _ _ *yes* _ _
   If YES, is a rationale for its inclusion provided? _ _ *yes* _ _
   If YES, reference: *SEW: dynamic generation of characters with U+0321 COMBINING PALATALIZED
   HOOK BELOW should be avoided; atomic Unicode characters are preferable*
10. Can any of the proposed character(s) be considered to be similar (in appearance or function)
    to, or could be confused with, an existing character? _ _ *no* _ _
    If YES, is a rationale for its inclusion provided? _ _ _ _ _ _ _ _
    If YES, reference: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
11. Does the proposal include use of combining characters and/or use of composite sequences? _ _ *no* _ _
    If YES, is a rationale for such use provided? _ _ _ _ _ _ _ _
    If YES, reference: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
    Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? _ _ *no* _ _
    If YES, reference: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
12. Does the proposal contain characters with any special properties such as
    control function or similar semantics? _ _ *no* _ _
    If YES, describe in detail (include attachment if necessary) _ _ _ _ _ _ _
    _
    _
13. Does the proposal contain any Ideographic compatibility characters? _ _ *no* _ _
    If YES, are the equivalent corresponding unified ideographic characters identified? _ _ _ _ _ _ _ _
    If YES, reference: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _